

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PRELIMINARY DETERMINATION OF EPICENTERS
MONTHLY LISTING

JANUARY - MARCH 1989

NATIONAL EARTHQUAKE INFORMATION CENTER

Open File Report

89-600-A



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

1989



PRELIMINARY DETERMINATION OF EPICENTERS

MONTHLY LISTING

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

JANUARY 1989

K DAY E Y	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 31 21.3	58.450 N 155.151 W	127			27	ALASKA PENINSULA. <AGS-P>.
01	01 21 01.6	44.581 N 5.319 E	10 G		1.3	10	FRANCE. ML 2.6 (LDG).
01	01 43 47.7	32.37 S 72.29 W	10 G		0.6	9	OFF COAST OF CENTRAL CHILE
01	02 19 13.2	60.297 N 152.506 W	98			31	SOUTHERN ALASKA. <AGS-P>.
01	02 32 18.6	42.940 N 13.169 E	10 G		0.8	8	CENTRAL ITALY. MD 2.8 (SSO).
01	03 07 18.0	44.871 N 14.460 E	10 G		1.4	5	ADRIATIC SEA
01	03 18 09.8	37.779 N 32.267 E	15		1.1	20	TURKEY
01	03 35 34.8	36.46 N 23.12 E	1 G		1.0	4	SOUTHERN GREECE. ML 3.0 (ATH).
01	04 25 11.8	42.666 N 12.609 E	10 G		0.6	8	CENTRAL ITALY
01	04 31 52.8	51.376 N 174.815 W	33 N 4.6		1.0	22	ANDREANOF ISLANDS, ALEUTIAN IS.
01	05 55 45.8	39.84 N 20.68 E	10 G		0.7	12	GREECE-ALBANIA BORDER REGION. MD 3.3 (ATH).
01	07 03 27.5	13.884 N 60.080 W	33 N		0.7	15	WINDWARD ISLANDS. ML 3.8 (FDF).
01	07 10 01.7	3.013 N 128.039 E	140 G 4.0		0.6	11	NORTH OF HALMAHERA
01	08 26 56.5	25.08 S 179.82 E	549 ? 4.7		0.9	24	SOUTH OF FIJI ISLANDS
01	08 41 38.6	4.76 S 130.93 E	33 N 4.3		1.2	5	BANDA SEA
01	10 16 16.3	11.728 S 77.438 W	46 D 5.2		0.7	53	NEAR COAST OF PERU. Felt (V) at Lima and (IV) at Haicho.
01	11 36 51.4	40.006 N 20.595 E	10 G		0.5	7	GREECE-ALBANIA BORDER REGION. MD 3.0 (ATH).
01	11 57 39.3	24.956 N 122.103 E	10 G 3.5		1.4	15	TAIWAN REGION
01	12 32 42.9	35.072 N 27.635 E	10 G		1.9	6	DODECANESE ISLANDS. MD 3.9 (ATH).
01	13 12 35.5	12.520 N 92.862 E	33 N 4.1		1.0	13	ANDAMAN ISLANDS REGION
01	13 36 23.7	9.730 N 126.219 E	33 N 4.5		0.6	14	MINDANAO, PHILIPPINE ISLANDS
01	13 57 44.9	45.60 N 26.32 E	134 4.5		1.1	9	ROMANIA
01	13 59 04.9	40.428 N 125.992 W	5 G 3.8			49	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.6 (BRK).
01	14 01 27.5	27.040 N 54.401 E	33 N 4.7		1.2	15	SOUTHERN IRAN
01	14 30 08.9	38.604 N 21.407 E	10 G		0.9	5	GREECE. MD 3.2 (ATH).
01	15 52 13.3	32.641 S 72.012 W	51 * 5.1		1.2	21	OFF COAST OF CENTRAL CHILE
01	15 56 02.7	27.065 N 54.142 E	56 4.5 4.0		1.2	83	SOUTHERN IRAN. Minor damage in the Bastak area.
01	16 24 53.1	32.655 S 71.944 W	53 * 4.8		1.3	22	NEAR COAST OF CENTRAL CHILE
01	17 16 41.7	11.540 S 41.064 E	10 G 5.0			22	NORTHWEST OF MADAGASCAR
01	17 26 08.9	20.101 S 133.433 E	10 G		1.5	5	NORTHERN TERRITORY, AUSTRALIA
01	17 55 53.6	49.264 N 67.357 W	18 G			12	SOUTHERN QUEBEC. <OTT-P>. mbLg 4.0 (OTT), 3.6 (NEIS). Felt at Baie Trinite and Godbout.
01	18 28 07.3	28.60 N 114.46 W	5 G 3.7		1.6	9	BAJA CALIFORNIA
01	20 12 09.2	32.39 S 72.36 W	33 N		0.6	9	OFF COAST OF CENTRAL CHILE
01	23 13 07.9	36.687 N 83.442 E	10 G 4.3		1.3	25	SOUTHERN XINJIANG, CHINA
01	23 41 43.6	39.123 N 29.532 E	10 G		1.3	7	TURKEY
02	00 00 39.1	18.173 S 178.412 W	635 5.2		0.8	201	FIJI ISLANDS REGION
02	01 40 56.9	40.751 N 29.654 E	10 G		0.2	5	TURKEY
02	01 44 50.8	47.540 N 27.486 W	10 G 4.3		0.9	19	NORTH ATLANTIC RIDGE
02	01 52 08.0	18.589 S 174.559 W	108 G 6.1		0.9	394	TONGA ISLANDS. mb 6.4 (BRK). Depth from broadband displacement seismograms.
02	01 53 36.8	42.11 N 7.74 W	10 G		0.4	4	SPAIN. MG 2.5 (MDD).
02	02 31 32.6	40.375 N 29.510 E	10 G		0.6	9	TURKEY
02	02 46 28.4	46.613 N 154.961 E	33 N 4.8		1.0	54	KURIL ISLANDS REGION
02	03 00 42.3	36.699 N 28.060 E	10 G		1.2	7	DODECANESE ISLANDS
02	03 18 05.5	37.14 N 27.35 E	10 G		1.5	5	TURKEY
02	03 38 24.5	44.162 N 6.982 E	10		0.4	23	FRANCE. ML 2.7 (GEN), 2.8 (LDG).
02	05 00 02.0	63.221 N 127.648 W	10 G		1.2	11	NORTHWEST TERRITORIES, CANADA. ML 4.0 (PGC).
02	05 23 30.6	6.187 S 149.777 E	46 * 4.9		1.1	22	NEW BRITAIN REGION
02	05 37 29.1	28.491 N 142.686 E	33 N 4.7 4.5		0.6	23	BONIN ISLANDS REGION
02	06 29 43.8	54.037 N 161.355 W	33 N 4.7		1.0	15	ALASKA PENINSULA
02	06 34 24.0	11.77 N 59.38 W	10 G		0.2	7	NORTH ATLANTIC OCEAN. MG 3.9 (FDF).
02	07 27 10.0	18.146 S 178.414 W	621 * 4.7		1.0	52	FIJI ISLANDS REGION
02	08 08 58.6	15.03 S 140.29 E	10 G		0.3	5	GULF OF CARPENTERIA. ML 4.0 (OIS).
02	09 33 03.7	3.136 N 128.458 E	33 N 5.1		0.9	14	NORTH OF HALMAHERA
02	09 56 57.9	37.147 N 27.336 E	10 G		1.0	7	TURKEY
02	10 16 23.6	9.019 S 111.012 E	33 N 4.7		0.7	14	SOUTH OF JAVÁ

02	10 45 06.3*	12.314 N	88.596 W	33 N	4.5	0.7	19	OFF COAST OF CENTRAL AMERICA
02	10 45 58.9*	33.847 N	139.050 E	10 G	4.8 4.3	1.5	42	SOUTH OF HONSHU, JAPAN. Felt (II JMA) on Miyake-jima and (I JMA) on Oshima.
02	11 46 01.0*	6.064 S	151.654 E	33 N	4.3	1.4	5	NEW BRITAIN REGION
02	13 09 56.3	32.074 N	35.650 E	26 *		0.5	8	DEAD SEA REGION
02	13 10 28.5*	37.358 N	27.663 E	10 G		0.9	7	TURKEY
02	13 15 53.0	16.930 N	62.316 W	10 G		1.4	7	LEEWARD ISLANDS
02	13 26 20.7*	33.786 S	68.548 W	33 N		0.5	7	MENDOZA PROVINCE, ARGENTINA
02	14 19 28.3	42.893 N	18.471 E	10 G		0.5	7	YUGOSLAVIA. MD 2.5 (TTG).
02	14 26 41.6	6.991 S	106.177 E	85 *	4.9	1.2	46	JAVA
02	15 53 53.5	1.581 N	126.553 E	33 N	5.0	0.9	20	MOLUCCA PASSAGE
02	16 35 16.2&	32.936 N	80.158 W	5			17	SOUTH CAROLINA. <GLD>. MD 2.6 (GLD). Felt (III) at Summerville.
02	17 18 00.1?	37.25 N	27.57 E	10 G		1.4	5	TURKEY
02	18 21 25.7*	6.694 S	130.016 E	121 ?	4.9	1.3	19	BANDA SEA
02	19 47 32.3?	29.28 S	68.19 W	33 N		0.3	6	SAN JUAN PROVINCE, ARGENTINA
02	20 30 20.4&	57.666 N	142.980 W	10 G	4.2		40	GULF OF ALASKA. <AGS-P>. ML 3.4 (PMR).
02	22 01 18.1*	0.505 S	122.837 E	116 ?	3.9	0.6	9	MINAHASSA PENINSULA
02	22 50 52.8	24.986 N	95.078 E	105	4.2	0.7	39	BURMA. Felt in parts of Assam, India.
02	22 56 54.4*	37.207 N	27.309 E	33 N		0.7	6	TURKEY
03	00 00 11.6*	31.212 S	68.553 W	100 ?		1.5	10	SAN JUAN PROVINCE, ARGENTINA
03	00 43 51.8?	37.25 N	27.54 E	10 G		1.5	5	TURKEY
03	01 14 58.3	45.759 N	26.663 E	140	4.1	1.2	40	ROMANIA
03	01 17 46.3?	2.20 N	126.55 E	127 ?	4.4	0.8	8	MOLUCCA PASSAGE
03	02 23 56.9*	43.321 N	5.864 E	22		0.6	18	NEAR SOUTH COAST OF FRANCE. MD 3.1 (STR).
03	02 38 48.4*	37.104 N	27.385 E	10 G		1.4	12	TURKEY. MD 3.6 (ATH).
03	04 04 25.9?	33.26 S	70.65 W	33 N		1.4	7	CHILE-ARGENTINA BORDER REGION
o 03	04 41 12.0	29.487 N	131.433 E	40 D	5.8 5.6	1.1	346	RYUKYU ISLANDS REGION. Up to 3 subevents within 12 seconds observed on broadband displacement seismograms.
03	06 55 40.5?	50.64 N	10.32 E	10 G		1.2	7	GERMANY. ML 2.7 (GRF).
03	07 49 55.1&	61.006 N	150.138 W	51			33	SOUTHERN ALASKA. <AGS-P>.
03	08 19 05.7*	38.530 N	20.364 E	10 G		0.7	7	GREECE. MD 3.6 (ATH).
03	09 52 49.2*	7.845 S	128.538 E	213 ?	4.2	0.8	11	BANDA SEA
03	10 02 34.7	35.332 N	140.708 E	53 *	5.0 4.5	1.0	67	NEAR EAST COAST OF HONSHU, JAPAN
03	11 56 32.6	40.010 N	20.436 E	10 G	3.6	1.4	37	GREECE-ALBANIA BORDER REGION. ML 3.8 (ATH).
03	12 22 47.3	43.404 N	5.421 E	10 G		1.0	19	NEAR SOUTH COAST OF FRANCE. MD 2.8 (STR).
03	13 09 00.7?	17.849 N	66.704 W	10 G		0.2	6	PUERTO RICO REGION
03	14 15 32.1?	58.09 N	6.32 E	0 G		0.6	6	SOUTHERN NORWAY. MD 2.5 (BER). Probable explosion.
03	15 00 22.9?	9.98 S	127.20 E	362 ?	4.2	0.6	6	TIMOR SEA
03	15 26 36.7*	32.712 S	72.004 W	33 N		1.2	12	OFF COAST OF CENTRAL CHILE
a 03	16 52 19.2	35.626 N	11.630 E	10 G	5.0 4.7	1.2	231	TUNISIA
03	17 00 33.1	4.441 N	95.061 E	73 *	3.8	0.7	9	NORTHERN SUMATERA
03	17 08 35.0&	35.630 N	11.630 E	10 G			12	TUNISIA. <SPEC>. Held to mainshock location.
03	17 10 46.0	32.433 N	35.482 E	10 G		1.0	19	DEAD SEA REGION. ML 3.9 (JER). Felt (V) in parts of the Jordan Valley. Also felt at Haifa, Israel.
03	17 21 09.5?	40.799 N	27.953 E	10 G		0.8	9	TURKEY
03	18 19 25.2*	35.690 N	11.688 E	10 G	4.0	0.8	17	TUNISIA
03	19 35 18.1*	31.416 S	68.571 W	114 *		0.7	9	SAN JUAN PROVINCE, ARGENTINA
03	21 39 13.7?	45.71 N	26.26 E	135 ?		0.6	5	ROMANIA
03	22 09 41.1	54.574 N	160.969 W	33 N		0.3	12	ALASKA PENINSULA
03	22 35 37.5	3.924 S	128.388 E	134	4.8	0.9	43	CERAM
03	22 53 59.3?	38.503 N	30.697 E	10 G		1.3	5	TURKEY
03	23 46 02.0	37.888 N	27.359 E	10 G		1.0	11	TURKEY. MD 3.4 (ATH).
04	00 10 52.0&	35.630 N	11.630 E	10 G			6	TUNISIA. <SPEC>. Held to mainshock location.
04	01 25 54.3?	37.01 N	27.23 E	10 G		1.0	5	TURKEY
04	01 52 30.8	39.979 N	27.366 E	15		1.0	23	TURKEY. MD 3.3 (ATH).
04	02 04 42.4?	46.257 N	1.552 E	10 G		0.7	11	FRANCE. ML 2.4 (LDG).
04	02 23 34.3	6.165 S	130.353 E	175 *	4.9	0.9	41	BANDA SEA
04	02 41 56.7	4.978 S	102.319 E	33 N	4.9	1.0	45	SOUTHERN SUMATERA
04	02 43 47.2	44.723 N	15.794 E	10 G		1.0	9	YUGOSLAVIA. ML 2.6 (KBA), 2.6 (ZAG), 2.6 (LJU). MD 3.0 (TRI). Felt in the Udbina area.
04	02 46 37.6	39.465 N	22.950 E	10 G		1.1	10	GREECE. ML 3.0 (ATH).
04	02 55 33.8*	23.460 N	142.603 E	33 N	4.8	1.2	14	VOLCANO ISLANDS REGION
04	04 33 46.9&	57.699 N	143.110 W	10 G			24	GULF OF ALASKA. <AGS-P>.
04	04 52 08.0	40.919 N	22.043 E	10 G		0.7	9	GREECE. MD 3.0 (ATH). ML 2.5 (SKO).
04	05 18 27.8?	61.29 N	2.98 E	10 G		0.7	5	NORWEGIAN SEA. MD 2.3 (BER).
04	05 39 11.8*	44.187 N	11.274 E	10 G		0.9	6	NORTHERN ITALY
04	06 02 35.7	40.402 N	29.235 E	10 G		0.6	10	TURKEY
04	06 04 01.3?	40.432 N	29.225 E	10 G		0.4	8	TURKEY
04	06 31 44.0&	61.625 N	150.976 W	68			36	SOUTHERN ALASKA. <AGS-P>.
04	06 54 54.9	42.717 N	13.328 E	10 G		0.3	6	CENTRAL ITALY. MD 2.3 (SSO).
04	07 29 41.1	40.890 N	44.274 E	10 G	5.0 4.0	1.2	64	TURKEY-USSR BORDER REGION
04	09 39 04.0&	32.210 N	80.740 W	6 G			22	SOUTH CAROLINA. <GLD>. MD 2.8 (GLD). Felt on Hilton Head Island and in the Bluffton area.
04	09 48 31.2?	58.17 N	6.16 E	10 G		0.6	5	SOUTHERN NORWAY. MD 2.4 (BER).
04	10 11 12.4?	38.585 N	27.156 E	10 G		1.4	6	TURKEY
04	10 11 59.5&	59.791 N	152.456 W	72			38	SOUTHERN ALASKA. <AGS-P>.
04	10 14 22.7	5.738 S	146.086 E	113	5.3	0.9	78	EAST PAPUA NEW GUINEA REGION
04	10 38 11.4	14.637 S	167.047 E	33 N	4.4	0.8	46	VANUATU ISLANDS
04	11 20 41.4?	40.378 N	29.265 E	10 G		0.8	9	TURKEY
04	11 57 18.3	42.717 N	13.331 E	10 G		1.1	7	CENTRAL ITALY. MD 2.1 (SSO).
04	11 58 58.6?	44.06 N	8.77 E	10 G		0.5	5	NORTHERN ITALY. ML 2.2 (GEN).
04	12 20 20.9*	0.428 S	124.401 E	33 N	4.7	1.3	23	MOLUCCA SEA
04	12 41 05.9?	29.99 S	176.91 W	33 N	4.4	1.1	11	KERMADEC ISLANDS REGION
04	12 45 18.7?	40.847 N	29.465 E	10 G		0.8	5	TURKEY
04	14 01 25.2?	15.47 S	177.51 W	140 ?	4.5	0.9	43	FJI ISLANDS REGION
04	14 55 01.9	39.784 N	30.694 E	10 G	4.2	1.1	68	TURKEY. Felt in the Eskisehir area.
04	14 57 00.1*	3.035 N	84.265 W	25 D	4.8 4.4	1.2	19	OFF COAST OF CENTRAL AMERICA
04	15 03 37.3?	39.892 N	30.655 E	10 G		1.4	7	TURKEY
04	15 04 25.3	16.635 N	97.827 W	59	5.0	1.0	73	OAXACA, MEXICO. Felt at Mexico City.
04	15 18 45.9*	11.174 N	122.227 E	33 N	4.7	0.9	10	PANAY, PHILIPPINE ISLANDS
04	16 21 37.9?	43.55 N	7.28 E	10 G		0.1	4	NEAR SOUTH COAST OF FRANCE. ML 2.1 (LDG).
04	16 41 30.7	34.784 N	25.976 E	10 G	4.0	1.2	48	CRETE. ML 4.1 (ATH).

04	16 59 14.9	39.794 N	30.631 E	5 G	1.0	11	TURKEY
04	17 42 33.0&	62.169 N	147.692 W	41 .		33	CENTRAL ALASKA. <AGS-P>.
04	18 30 20.1%	40.702 N	27.425 E	10 G	1.1	5	TURKEY
04	18 50 09.7	49.056 N	112.862 W	5 G	0.7	9	ALBERTA PROVINCE, CANADA. ML 3.1 (BUT).
04	19 01 32.1	21.001 S	68.919 W	122 * 4.8	1.4	33	CHILE-BOLIVIA BORDER REGION
04	19 23 34.0*	34.789 N	25.931 E	10 G	1.4	7	CRETE. MD 3.8 (ATH).
04	20 08 52.8	7.486 S	133.250 E	33 N 4.7	1.1	40	AROE ISLANDS REGION
04	20 13 24.6*	36.151 N	30.598 E	10 G	1.5	12	TURKEY
04	21 25 32.3	44.197 N	11.232 E	10 G	0.5	7	NORTHERN ITALY
04	22 49 56.5*	32.594 S	69.588 W	106 ?	1.5	15	MENDOZA PROVINCE, ARGENTINA
04	23 47 01.9*	31.298 S	68.898 W	122 ?	1.0	9	SAN JUAN PROVINCE, ARGENTINA
04	23 56 47.5*	35.404 N	25.841 E	10 G	0.8	5	CRETE. MD 3.8 (ATH).
05	00 26 40.0*	34.893 N	26.020 E	10 G	1.5	7	CRETE. MD 3.9 (ATH).
05	00 31 46.0&	35.630 N	11.630 E	10 G		13	TUNISIA. <SPEC>. Held to mainshock location.
05	00 44 00.1%	46.710 N	0.303 E	10 G	1.0	12	FRANCE. ML 2.6 (LDG).
05	00 47 10.7	40.346 N	26.080 E	10 G	1.1	33	TURKEY. MD 3.3 (ATH).
05	01 57 23.9*	6.299 S	149.157 E	56. * 4.7	1.0	11	NEW BRITAIN REGION
05	02 10 45.4?	3.77 S	149.08 E	33 N 4.6	0.9	6	BISMARCK SEA
05	02 36 07.4	35.913 N	31.788 E	94 ?	1.2	12	CYPRUS
05	04 12 20.1	56.302 N	167.940 W	33 ? 4.3	1.1	20	PRIBILOF ISLANDS
05	04 36 35.3%	62.186 N	4.754 E	10 G	0.3	5	NORWEGIAN SEA. MD 2.4 (BER).
05	04 56 13.0*	35.894 N	29.075 E	33 N	1.4	8	EASTERN MEDITERRANEAN SEA. MD 3.3 (ATH).
05	05 08 14.8	1 229 N	29.962 E	10 G 4.8	1.0	27	ZAIRE REPUBLIC
05	05 10 11.6%	46.390 N	29.498 E	10 G	0.4	6	TURKEY
05	05 15 14.3	43.410 N	5.438 E	10 G	1.1	11	NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).
05	05 31 25.9	51.661 N	16.181 E	21	0.9	23	POLAND. ML 4.2 (GRF), 4.1 (VKA).
05	06 39 34.1	8.898 N	77.425 W	33 N 4.8	1.0	71	PANAMA-COLOMBIA BORDER REGION. Felt at Gorachine, Darien and Panama City, Panama.
05	07 57 46.4	37.126 N	27.615 E	19 4.3	1.2	46	TURKEY. ML 4.0 (ATH).
05	10 14 20.5	17.466 N	61.953 W	10 G	0.5	6	LEEWARD ISLANDS. ML 2.6 (FDF).
05	10 56 05.4	42.667 N	18.682 E	10 G	0.4	9	YUGOSLAVIA. MD 2.3 (TTG).
05	12 48 22.5	37.316 N	27.670 E	10 G	0.9	9	TURKEY. MD 3.3 (ATH).
05	13 20 15.7	42.555 N	24.084 E	10 G	0.7	8	BULGARIA
a 05	14 02 02.4	7.395 S	128.881 E	143 D 5.1	1.2	69	BANDA SEA
05	14 46 36.1%	30.898 S	68.124 W	33 N	1.3	5	SAN JUAN PROVINCE, ARGENTINA
05	15 18 48.6?	43.65 N	6.84 E	10 G	0.5	5	NEAR SOUTH COAST OF FRANCE
05	15 26 45.9%	43.430 N	5.478 E	10 G	0.5	5	NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).
05	15 34 50.1?	17.29 N	61.63 W	10 G	0.5	5	LEEWARD ISLANDS. ML 2.3 (FDF).
05	15 54 42.1	37.673 N	15.010 E	10 G	0.5	6	SICILY
05	16 20 55.4*	10.550 N	62.171 W	10 G	0.7	10	NEAR COAST OF VENEZUELA
05	16 36 53.0	39.137 N	24.167 E	27	0.8	12	AEGEAN SEA. ML 3.0 (ATH).
05	17 42 20.8*	42.074 N	90.584 E	10 G 4.3	1.3	20	NORTHERN XINJIANG, CHINA
05	20 27 35.7*	10.558 N	57.028 E	10 G 4.8	1.3	24	CARLSBERG RIDGE
05	20 44 50.9	40.615 N	29.979 E	10 G	0.4	9	TURKEY
05	20 48 28.4	33.816 S	147.019 E	10 G	1.3	12	NEW SOUTH WALES, AUSTRALIA. ML 4.1 (RIV), 4.0 (BFD). Felt strongly in the West Wyolong area.
05	21 04 34.5	38.838 N	15.986 E	14	1.4	14	SICILY
05	21 32 13.8&	34.260 N	116.000 W	3		11	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
05	22 08 50.4%	39.828 N	30.596 E	10 G	1.0	10	TURKEY
05	23 49 14.1*	34.733 N	34.099 E	23 * 0.6	0.6	7	CYPRUS
06	00 07 49.7?	40.61 N	25.98 E	10 G	0.6	5	AEGEAN SEA
06	00 14 41.3&	59.541 N	152.748 W	77		32	SOUTHERN ALASKA. <AGS-P>.
06	01 26 00.2*	36.344 N	78.319 E	10 G 4.0	1.1	9	KASHMIR-XINJIANG BORDER REGION
06	02 17 27.8%	40.469 N	29.172 E	10 G	1.1	10	TURKEY
06	02 43 01.9&	60.002 N	152.853 W	106		25	SOUTHERN ALASKA. <AGS-P>.
06	03 04 07.1	33.907 N	24.975 E	33 N 3.8	1.4	33	MEDITERRANEAN SEA. ML 4.2 (ATH).
o 06	04 02 48.7	20.084 N	121.405 E	48 D 5.0 4.4	0.9	113	PHILIPPINE ISLANDS REGION
06	05 26 58.2	35.592 N	11.694 E	10 G 5.0 4.6	1.3	230	TUNISIA
06	05 38 08.9	41.289 N	23.334 E	5 G	1.1	14	GREECE-BULGARIA BORDER REGION. MD 3.2 (ATH). ML 2.8 (SKO).
06	05 47 58.1	6.985 S	125.346 E	483 * 4.6	1.0	22	BANDA SEA
06	07 37 42.0&	35.630 N	11.630 E	10 G		13	TUNISIA. <SPEC>. Held to mainshock location.
06	08 54 51.9*	6.792 S	131.585 E	33 N 4.5	1.3	8	TANIMBAR ISLANDS REGION
06	09 12 42.6	8.003 S	147.357 E	133 4.7	0.7	19	EAST PAPUA NEW GUINEA REGION
06	09 23 34.9?	34.55 S	72.49 W	10 G	0.2	6	NEAR COAST OF CENTRAL CHILE
06	09 47 41.2*	33.976 N	25.129 E	84 ? 3.6	0.7	10	EASTERN MEDITERRANEAN SEA. MD 3.9 (ATH).
06	10 53 39.2%	37.488 N	3.964 W	10 G	1.5	5	SPAIN. MG 3.0 (MDD).
06	10 59 20.7	32.435 N	35.425 E	10 G	1.1	11	DEAD SEA REGION. Felt in the Bet Sheon area.
06	11 09 40.6&	62.763 N	149.846 W	77		5	CENTRAL ALASKA. <AGS-P>.
06	12 45 00.0?	47.01 N	153.73 E	33 N 4.9	0.9	25	KURIL ISLANDS
06	13 14 42.0*	43.360 N	5.432 E	10 G	1.0	17	NEAR SOUTH COAST OF FRANCE. MD 2.9 (STR).
06	13 31 57.4	25.103 N	91.593 E	10 G	0.5	7	INDIA-BANGLADESH BORDER REGION
06	13 33 33.3	42.537 N	24.123 E	10 G	1.2	13	BULGARIA
06	13 39 57.3	3.763 S	137.385 E	33 N 5.0 4.6	1.1	58	WEST IRIAN
06	15 38 55.1	46.855 N	153.844 E	33 N 4.9	0.9	52	KURIL ISLANDS
06	15 47 09.3	46.797 N	153.960 E	33 N 5.3 4.5	0.9	119	KURIL ISLANDS
06	16 05 38.4&	61.590 N	151.428 W	73		29	SOUTHERN ALASKA. <AGS-P>.
06	16 38 15.4?	41.05 N	23.04 E	10 G	1.5	4	GREECE-BULGARIA BORDER REGION. ML 2.0 (SKO).
06	16 58 37.3?	43.52 N	12.59 E	10 G	0.3	4	CENTRAL ITALY
06	18 52 25.8	36.404 N	141.821 E	39 5.0	1.1	80	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Onahama, Choshi, Mito and Utsunomiya.
a 06	19 04 06.3	46.768 N	153.929 E	48 D 5.7 5.5	0.9	311	KURIL ISLANDS
a 06	19 08 27.3	36.399 N	141.751 E	43 5.4 5.8	0.9	174	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Choshi; (II JMA) at Onahama and Utsunomiya; (I JMA) at Moebashi, Fukushima, Tokyo and Niigata.
06	19 28 35.9?	47.15 N	153.74 E	33 N 4.4	0.3	9	KURIL ISLANDS
06	19 33 07.5	43.075 N	0.162 E	23	1.1	117	FRANCE. ML 4.9 (LDG), 4.7 (STR). Slight damage (V) at La Mongie. Felt (V) in the Bogneres de Bigorre-Pic du Midi-Couterets area; (IV) at Ossun; (III) at Etchartes, Arangau and Costet; (II) at Pou. Felt in the Orthez-Toulouse area and as far east as the Loire Valley. Felt (IV) in parts of northeastern Spain. Felt in the Son Sebastian-Zaragoza-Barcelona area of

06	19	34	51.67	47.77	N	152.37	E	33	N	4.7	1.2	20	northern Spain and as far south as Teruel and Tortosa.
06	19	36	15.6	47.409	N	153.206	E	33	N	4.9	1.2	35	KURIL ISLANDS
06	19	52	25.8*	37.997	N	20.977	E	10	G		0.7	6	IONIAN SEA. ML 3.5 (ATH).
06	20	39	30.0*	47.045	N	153.788	E	33	N	4.9	1.0	37	KURIL ISLANDS
06	20	48	42.47	7.22	N	82.27	W	10	G		0.9	12	SOUTH OF PANAMA. MD 4.5 (UPA), 4.3 (HDC).
06	20	51	14.1%	43.436	N	5.433	E	10	G		0.5	12	NEAR SOUTH COAST OF FRANCE. MD 2.7 (STR).
06	21	12	10.0*	47.064	N	153.600	E	33	N	5.0	0.8	51	KURIL ISLANDS
06	21	29	54.1%	61.267	N	150.155	W	54				34	SOUTHERN ALASKA. <AGS-P>.
06	23	16	46.8	26.285	S	27.287	E	5	G		1.3	8	REPUBLIC OF SOUTH AFRICA. MG 3.3 (BUL).
06	23	19	58.17	65.46	S	179.99	W	10	G	5.1 5.2	1.5	7	SOUTH PACIFIC CORDILLERA
07	02	29	41.7	46.373	N	7.470	E	11			1.0	97	SWITZERLAND. ML 3.8 (LDG), 3.5 (KBA), 3.5 (STR). mLg 3.3 (DOU).
07	04	03	13.7%	31.848	S	119.633	E	10	G		0.7	5	WESTERN AUSTRALIA
07	04	08	37.07	48.11	N	152.36	E	33	N	4.6	0.7	11	KURIL ISLANDS
07	04	10	04.9	48.765	N	154.891	E	33	N	4.6	0.5	18	KURIL ISLANDS
07	04	40	16.5*	7.795	S	129.098	E	33	N	4.4	0.5	6	BANDA SEA
07	05	02	21.9	9.122	S	122.531	E	137	*	4.7	1.3	31	SAVU SEA
07	05	16	35.0%	35.630	N	11.630	E	10	G			8	TUNISIA. <SPEC>. Held to mainshock location.
07	07	26	11.4	23.258	S	68.410	W	122	D	5.5	1.2	124	NORTHERN CHILE. Felt (IV) at Antofagasta.
07	09	39	33.4	6.810	N	72.979	W	167		5.0	0.9	46	NORTHERN COLOMBIA
07	10	09	46.0	23.293	N	98.830	E	10	G		0.2	6	BURMA-CHINA BORDER REGION
07	10	34	02.6%	38.788	N	122.768	W	2				18	NORTHERN CALIFORNIA. <BRK>. ML 3.8 (BRK). Mo=1.5*10**15 Nm (BRK).
07	11	41	39.7*	25.293	S	117.080	E	10	G		1.0	7	WESTERN AUSTRALIA
07	11	58	38.9*	42.716	N	1.332	W	10	G		1.3	8	PYRENEES. ML 2.7 (LDG).
07	12	10	14.1	44.233	N	10.935	E	15			0.8	37	NORTHERN ITALY. ML 3.2 (LDG), 3.0 (KBA).
07	12	17	27.0%	59.441	N	152.574	W	82				43	SOUTHERN ALASKA. <AGS-P>.
07	13	26	41.4*	43.493	N	8.183	E	10	G		0.1	5	CORSICA. ML 2.2 (LDG).
07	13	41	25.1*	11.969	N	143.103	E	33	N	4.4	0.4	7	SOUTH OF MARIANA ISLANDS
07	14	43	09.87	35.42	N	5.01	W	33	N		1.2	6	STRAIT OF GIBRALTAR. MG 3.3 (MDD).
07	15	36	36.2*	20.224	N	120.485	E	17	*	4.2	1.2	14	PHILIPPINE ISLANDS REGION
07	16	52	30.6*	10.107	S	161.149	E	98	*	4.8	1.0	31	SOLOMON ISLANDS
07	18	09	50.07	20.27	N	119.74	E	10	G	4.2	1.3	7	PHILIPPINE ISLANDS REGION
07	18	29	24.7*	34.314	N	24.293	E	33	N	4.7	1.4	27	CRETE. ML 4.1 (ATH).
07	18	39	49.8	20.182	N	120.620	E	34		4.8	0.9	48	PHILIPPINE ISLANDS REGION
07	19	02	24.2%	60.044	N	153.148	W	120				21	SOUTHERN ALASKA. <AGS-P>.
07	20	06	39.6%	62.140	N	147.827	W	40				33	CENTRAL ALASKA. <AGS-P>.
07	21	05	55.3%	37.048	N	27.342	E	10	G		0.8	7	TURKEY
07	21	15	37.8*	39.101	N	74.613	E	33	N	4.4	1.1	9	SOUTHERN XINJIANG, CHINA
07	22	02	20.87	5.26	S	147.85	E	33	N	3.2	1.2	6	EAST PAPUA NEW GUINEA REGION
07	22	07	57.2*	37.646	N	70.920	E	33	N	4.5	1.1	8	AFGHANISTAN-USSR BORDER REGION
07	22	11	29.1	36.019	N	141.352	E	27		5.0	1.0	78	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Mito; (I JMA) at Chashi and Utsunomiya.
08	00	18	24.47	47.06	N	153.72	E	33	N	4.7	1.3	14	KURIL ISLANDS
08	00	40	09.7%	60.476	N	152.192	W	79				28	SOUTHERN ALASKA. <AGS-P>.
08	01	30	54.7	43.207	N	13.779	E	10	G		0.8	10	CENTRAL ITALY. MD 2.8 (SSO).
08	01	56	53.5*	8.163	S	129.327	E	138	?	4.5	1.2	9	TIMOR SEA
08	02	03	51.9*	36.356	N	1.695	E	10			0.8	23	ALGERIA
08	03	01	17.7	37.056	N	27.589	E	10	G	4.5	1.1	48	TURKEY. ML 4.1 (ATH).
08	03	08	04.2*	37.094	N	27.354	E	10	G		1.3	8	TURKEY
08	05	33	55.0*	31.963	S	70.259	W	10	G		0.6	6	CHILE-ARGENTINA BORDER REGION
08	06	35	58.27	60.08	N	5.32	E	10	G		0.0	4	SOUTHERN NORWAY. MD 2.2 (BER).
08	07	07	48.1	38.751	N	40.904	E	10	G	4.3	1.3	21	TURKEY
08	07	17	20.6	38.300	N	98.308	E	31		4.7	0.9	37	QINGHAI PROVINCE, CHINA. ML 4.5 (BJI).
08	07	57	15.7%	37.562	N	118.846	W	9				11	CALIFORNIA-NEVADA BORDER REGION. <REN>. MD 3.0 (REN).
08	10	31	42.77	11.48	S	117.38	E	33	N	4.2	0.8	5	SOUTH OF SUMBAWA ISLAND
08	10	53	47.9*	22.351	S	68.753	W	119	*	4.2	1.2	7	NORTHERN CHILE
08	11	48	08.5*	35.371	N	11.498	E	24		4.0	0.9	20	TUNISIA
08	11	48	34.87	5.47	N	126.05	E	33	N	4.7	1.1	12	MINDANAO, PHILIPPINE ISLANDS
08	12	05	08.37	15.28	N	60.97	W	33	N		1.1	5	LEEWARD ISLANDS
08	12	16	18.3	43.184	N	19.182	E	10	G		0.8	10	YUGOSLAVIA. MD 2.7 (TTG).
08	13	09	23.2*	40.899	N	44.025	E	10	G	4.4	1.3	13	TURKEY-USSR BORDER REGION
08	13	15	23.0	41.688	N	19.371	E	25			1.2	47	ALBANIA. MD 4.0 (KBA).
08	14	05	36.3%	15.330	N	60.707	W	33	N		0.5	6	LEEWARD ISLANDS. ML 2.6 (FDF).
08	14	13	11.9	22.497	N	123.982	E	10	G	4.3	1.5	25	SOUTHEAST OF TAIWAN
08	14	54	47.2	3.253	S	130.588	E	33	N	4.8 4.7	1.3	63	CERAM
08	15	50	27.9	10.051	N	93.362	E	105	*	4.4	1.0	14	ANDAMAN ISLANDS REGION
08	15	58	34.4%	63.335	N	149.721	W	107				25	CENTRAL ALASKA. <AGS-P>.
08	16	57	20.8	47.049	N	18.086	E	11			0.5	16	HUNGARY. ML 3.6 (ZAG), 3.2 (VKA), 3.1 (KBA).
08	17	41	41.3	23.991	N	120.464	E	33	N	4.6	1.3	25	TAIWAN. Felt in central Taiwan.
08	19	21	14.7*	43.405	N	19.000	E	10	G		0.8	5	YUGOSLAVIA. MD 2.5 (TTG).
08	19	57	06.0	51.435	N	174.880	W	33	N	5.7 5.5	1.1	317	ANDREANOF ISLANDS, ALEUTIAN IS. Ms 5.7 (BRK). Felt (III) on Adak and (I) on Atka.
08	20	17	41.07	51.47	N	174.83	W	33	N	4.6	1.5	11	ANDREANOF ISLANDS, ALEUTIAN IS.
08	20	18	16.9%	58.534	N	142.748	W	10	G			35	GULF OF ALASKA. <AGS-P>.
08	20	26	25.1	51.432	N	174.799	W	33	N	5.1 5.6	0.9	148	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.7 (PMR). Felt (III) on Adak.
08	20	56	18.6	17.064	N	62.332	W	10	G		0.6	6	LEEWARD ISLANDS. ML 2.8 (FDF).
08	21	13	25.8	37.237	N	27.529	E	10	G	3.9	1.2	17	TURKEY. ML 4.0 (ATH).
08	22	17	46.4*	3.006	S	118.861	E	33	N	4.3	1.0	8	SULAWESI
08	22	28	40.4*	50.541	N	7.845	E	10	G		1.2	7	GERMANY. MD 2.7 (DOU).
08	22	37	30.9	51.393	N	174.758	W	33	N	5.6 5.4	1.0	263	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.8 (PMR). Ms 5.4 (BRK). Felt (III) on Adak.
09	00	56	36.0	44.442	N	7.424	E	13			0.3	12	NORTHERN ITALY. ML 2.2 (LDG).
09	02	05	51.9	37.989	N	31.230	W	10	G	4.7 4.3	0.8	69	AZORES ISLANDS REGION
09	02	07	53.7*	9.168	S	157.624	E	62	?	4.0	0.8	9	SOLOMON ISLANDS
09	02	39	04.2*	34.060	N	138.983	E	10	G	4.1	0.8	9	NEAR S. COAST OF HONSHU, JAPAN
09	02	50	41.2*	36.644	N	21.701	E	33	N		1.0	9	SOUTHERN GREECE. ML 3.5 (ATH).
09	03	13	43.87	28.66	S	67.49	W	33	N		0.3	6	LA RIOJA PROVINCE, ARGENTINA
09	03	15	17.3	34.055	N	138.893	E	10	G	5.1	1.4	67	NEAR S. COAST OF HONSHU, JAPAN
09	03	36	29.5	51.358	N	174.771	W	33	N	4.8	1.0	68	ANDREANOF ISLANDS, ALEUTIAN IS.
09	03	57	40.3	8.886	S	156.998	E	10	G	4.7 3.9	1.3	23	SOLOMON ISLANDS

09	04 38 55.1	15.836 N	93.834 W	99 *	4.3	1.2	26	NEAR COAST OF CHIAPAS, MEXICO
09	04 39 43.3	60.688 N	151.750 W	71	4.0	42	42	KENAI PENINSULA, ALASKA. <AGS-P>.
09	05 08 21.1	36.318 N	115.107 W	7		0.5	65	CALIFORNIA-NEVADA BORDER REGION. ML 3.5 (NEIS). MD 3.6 (REN). Felt (V) at Las Vegas and Nellis Air Force Base, Nevada.
09	05 26 40.37	11.89 N	125.49 E	33 N	4.6	0.5	11	SAMAR, PHILIPPINE ISLANDS
09	06 51 18.0	51.419 N	174.793 W	33 N	4.7	0.9	46	ANDREANOF ISLANDS, ALEUTIAN IS.
09	06 54 03.6	61.749 N	150.448 W	50		30	30	SOUTHERN ALASKA. <AGS-P>. ML 3.0 (PMR).
09	07 03 13.8	51.537 N	174.815 W	33 N	4.6	0.9	17	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.0 (PMR).
09	08 03 26.1	37.548 N	118.779 W	8		56	56	CALIFORNIA-NEVADA BORDER REGION. <REN>. MD 3.7 (REN). ML 3.2 (BRK), 3.2 (PAS).
09	08 55 59.4	31.808 N	114.835 W	10 G		0.4	30	GULF OF CALIFORNIA
09	09 24 03.07	17.43 N	67.97 W	33 N		0.5	9	MONA PASSAGE
09	09 30 53.5	60.089 N	152.860 W	108		33	33	SOUTHERN ALASKA. <AGS-P>.
09	10 02 28.5	35.646 N	11.630 E	17	5.1 4.3	1.3	224	TUNISIA
09	10 09 57.1	6.071 S	153.740 E	25	5.0	0.7	36	NEW BRITAIN REGION
09	10 38 28.27	16.82 N	61.96 W	28 ?		0.4	5	LEEWARD ISLANDS
09	10 41 41.2	51.300 N	174.712 W	33 N	4.8	1.0	36	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.1 (PMR).
a 09	11 16 57.2	51.370 N	174.765 W	33 N	5.2 4.9	1.0	136	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.2 (PMR). Felt (III) on Adak.
09	11 29 12.3	43.174 N	12.670 E	10 G		1.3	9	CENTRAL ITALY. ML 3.0 (KBA). MD 3.1 (SSO).
09	11 52 59.7	51.402 N	174.836 W	33 N	4.6	0.9	48	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.5 (PMR).
09	12 09 21.9	51.514 N	174.751 W	33 N	4.7	0.8	20	ANDREANOF ISLANDS, ALEUTIAN IS.
09	12 53 16.77	43.15 N	13.42 E	10 G		0.4	4	CENTRAL ITALY
09	13 28 20.2	63.544 N	151.352 W	33 N		2.1	6	CENTRAL ALASKA. ML 3.1 (PMR).
f 09	13 42 36.4	46.986 N	153.479 E	14 G	6.0 6.4	1.3	361	KURIL ISLANDS. Ms 6.2 (BRK), 6.2 (PAS). Complex rupture. Depth from broadband displacement seismograms, based on dominant subevent.
09	13 55 13.3	46.765 N	153.796 E	40 D	5.3	0.8	206	KURIL ISLANDS
09	14 13 44.7	37.852 N	116.133 W	5 G		0.3	18	SOUTHERN NEVADA. MD 2.9 (REN).
09	14 17 27.0	46.845 N	153.807 E	33 N	4.9	1.0	43	KURIL ISLANDS
09	15 01 43.87	47.20 N	153.14 E	33 N	5.0	1.2	27	KURIL ISLANDS
09	15 05 45.8	47.924 N	152.020 E	33 N	4.9	0.9	19	KURIL ISLANDS
09	15 14 56.5	46.791 N	153.777 E	35 D	5.1	0.8	88	KURIL ISLANDS
09	15 17 46.5	4.795 S	153.188 E	100 ?	4.5	1.3	18	NEW IRELAND REGION
09	15 24 33.6	46.639 N	153.746 E	37 D	5.1	0.8	63	KURIL ISLANDS
09	15 33 34.5	7.261 N	123.678 E	617 *	4.6	0.8	37	MINDANAO, PHILIPPINE ISLANDS
09	16 02 58.3	44.898 N	6.642 E	10 G		0.2	8	FRANCE. ML 2.2 (GEN).
09	17 38 32.0	37.548 N	118.779 W	8		46	46	CALIFORNIA-NEVADA BORDER REGION. <REN>. MD 3.7 (REN) ML 3.2 (BRK).
09	18 00 44.0	51.324 N	174.798 W	33 N	4.9	1.3	16	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.0 (PMR).
09	18 02 17.17	6.27 N	82.77 W	10 G		0.4	13	SOUTH OF PANAMA
09	18 17 40.8	5.315 S	151.233 E	119	5.1	0.9	34	NEW BRITAIN REGION
09	19 00 17.9	40.253 N	62.969 E	33 N	4.0	1.0	6	UZBEK SSR
09	19 23 47.1	37.251 S	177.801 E	61 ?	4.6	1.3	13	OFF E. COAST OF N. ISLAND, N.Z.
09	20 01 35.17	41.01 N	43.18 E	10 G	4.1	1.7	6	TURKEY-USSR BORDER REGION
09	20 05 42.9	20.348 S	178.776 W	526 ?	4.8	0.9	44	FIJI ISLANDS REGION
09	23 01 12.1	34.291 N	120.938 W	5 G		0.4	25	SOUTHERN CALIFORNIA. ML 4.1 (PAS), 3.7 (BRK). Felt at Lompac.
09	23 04 18.0	51.330 N	174.861 W	33 N	4.9	0.9	83	ANDREANOF ISLANDS, ALEUTIAN IS.
09	23 23 14.17	51.39 N	174.79 W	33 N	4.5	0.6	9	ANDREANOF ISLANDS, ALEUTIAN IS.
09	23 26 04.9	51.299 N	174.846 W	33 N	4.8	1.1	19	ANDREANOF ISLANDS, ALEUTIAN IS. ML 3.8 (PMR).
10	00 34 33.5	34.259 N	120.943 W	5 G		0.4	14	SOUTHERN CALIFORNIA. ML 3.0 (PAS), 3.0 (BRK).
10	01 07 33.1	67.302 N	160.657 W	33 N		0.9	7	ALASKA. ML 3.4 (PMR).
10	04 21 44.87	33.82 S	72.71 W	33 N		0.5	11	OFF COAST OF CENTRAL CHILE
10	05 46 03.5	3.458 S	130.485 E	88 ?	4.8	1.3	12	CERAM
10	05 52 30.2	13.983 S	177.406 E	103 ?	4.7	1.1	15	FIJI ISLANDS REGION
f 10	05 55 01.4	3.162 S	130.556 E	47	5.9 6.5	1.2	206	CERAM. Ms 6.7 (BRK), 6.6 (PAS).
10	06 13 35.47	5.19 S	129.33 E	33 N	4.6	1.3	5	BANDA SEA
10	06 14 42.4	3.046 S	130.579 E	33 N	5.1	1.1	19	CERAM
10	06 20 29.2	39.097 N	20.968 E	10 G		1.4	5	GREECE-ALBANIA BORDER REGION. MD 3.2 (ATH).
10	06 25 44.9	3.283 S	130.517 E	33 N	5.1	0.8	11	CERAM
10	06 29 18.17	43.00 N	128.37 W	10 G		0.3	28	OFF COAST OF OREGON. CL 3.0 (SEA).
10	07 29 21.3	42.377 N	19.488 E	14		0.7	17	YUGOSLAVIA. MD 2.9 (TTG).
10	07 32 03.6	3.272 S	130.885 E	33 N	4.6	1.0	10	CERAM
10	07 56 21.87	3.02 S	130.89 E	33 N	4.5	0.5	4	CERAM
10	07 59 56.17	61.416 N	7.461 E	10 G		1.1	6	SOUTHERN NORWAY. MD 2.4 (BER).
10	09 14 50.17	11.08 S	41.49 E	10 G	4.1	0.9	5	NORTHWEST OF MADAGASCAR
10	09 51 27.77	3.86 S	130.61 E	33 N	4.5	1.2	6	CERAM
10	10 42 39.7	57.650 N	155.531 W	116 *		1.1	37	ALASKA PENINSULA
10	10 46 15.37	21.72 S	170.86 E	33 N	4.7	0.7	9	LOYALTY ISLANDS REGION
10	11 05 29.17	60.837 N	4.805 E	10 G		1.4	5	SOUTHERN NORWAY
10	12 49 15.07	3.19 S	130.60 E	72 ?	3.8	1.3	6	CERAM
10	13 01 38.4	50.605 N	10.035 E	10 G		1.0	9	GERMANY. ML 2.9 (GRF).
10	13 29 11.77	40.385 N	29.423 E	10 G		0.4	8	TURKEY
10	13 40 45.2	40.080 N	20.763 E	10 G		0.8	7	GREECE-ALBANIA BORDER REGION. MD 3.3 (ATH).
10	15 54 27.77	44.284 N	7.521 E	10 G		0.4	6	NORTHERN ITALY. ML 2.1 (GEN).
10	15 55 13.4	23.947 N	103.072 E	10 G		1.3	8	YUNNAN PROVINCE, CHINA. ML 3.9 (BJI).
10	17 10 47.77	62.55 N	5.59 E	10 G		1.4	7	SOUTHERN NORWAY. MD 2.6 (BER).
10	17 21 22.9	34.500 N	120.630 W	6 G		1.4	6	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
10	17 25 18.2	59.979 N	152.806 W	88		23	23	SOUTHERN ALASKA. <AGS-P>.
10	17 56 18.3	43.396 N	5.457 E	10 G		1.2	7	NEAR SOUTH COAST OF FRANCE
10	18 22 08.6	3.278 S	130.522 E	47 *	5.0 3.5	1.2	41	CERAM
10	19 21 52.0	24.103 N	92.463 E	33 N	4.3	0.4	8	INDIA-BANGLADESH BORDER REGION
10	19 54 24.07	47.01 N	153.68 E	33 N	4.7	1.0	14	KURIL ISLANDS
10	23 13 05.9	7.895 S	116.727 E	277	4.3	1.2	33	BALI SEA
10	23 39 59.97	41.386 S	172.901 E	108 *		1.2	7	SOUTH ISLAND, NEW ZEALAND. Felt at Nelson. Also felt at Wellington, North Island.
11	01 01 41.0	33.291 S	70.442 W	97 ?		1.3	14	CHILE-ARGENTINA BORDER REGION
11	01 28 36.87	46.83 N	153.58 E	33 N	4.8	0.9	16	KURIL ISLANDS
11	01 43 00.7	40.278 N	25.707 E	10 G		1.3	9	AEGEAN SEA. MD 2.6 (ATH).
11	03 21 28.9	12.135 N	144.402 E	51 *	4.4	0.5	11	SOUTH OF MARIANA ISLANDS
11	04 51 45.0	3.805 S	134.954 E	123 ?	4.6	1.3	9	WEST IRIAN REGION

11	04 52 09.7	43.418 N	5.431 E	10 G	1.1	16	NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).
11	05 00 13.8%	42.264 N	19.341 E	10 G	0.5	5	YUGOSLAVIA. MD 2.1 (TTG).
11	05 01 37.1%	42.280 N	19.334 E	10 G	0.7	7	YUGOSLAVIA. MD 2.3 (TTG).
11	05 07 18.0	42.312 N	19.325 E	10 G	0.9	8	YUGOSLAVIA. MD 2.2 (TTG).
11	05 10 14.57	15.69 N	59.85 W	15	0.4	8	LEEWARD ISLANDS. ML 3.4 (FDF).
11	05 14 08.5	41.150 N	19.851 E	10 G	0.7	12	ALBANIA. MD 2.6 (TTG).
11	06 13 09.17	32.43 S	72.17 W	33 N	0.4	8	OFF COAST OF CENTRAL CHILE
11	06 24 03.67	32.21 S	71.30 W	33 N	0.2	7	NEAR COAST OF CENTRAL CHILE
11	07 07 18.2	52.266 N	158.460 E	33 N 4.9	1.0	53	NEAR EAST COAST OF KAMCHATKA
11	07 29 40.5	16.969 N	94.746 W	33 N	1.2	5	OAXACA, MEXICO
11	08 02 07.3	42.314 N	19.314 E	10 G	0.8	13	YUGOSLAVIA. MD 2.7 (TTG).
11	09 32 31.7%	33.970 N	116.290 W	3	0.8	8	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
11	09 47 05.8	4.395 S	102.384 E	95 ? 4.6	0.5	21	SOUTHERN SUMATERA
11	10 53 28.3	43.056 N	25.672 E	10 G	0.8	6	BULGARIA
11	11 58 21.0	32.568 S	71.849 W	59 * 5.0	1.2	31	NEAR COAST OF CENTRAL CHILE. Felt (III) at Valparaiso. Also felt at Santiago.
11	12 18 18.2	0.144 S	124.488 E	62 * 5.0	1.0	25	MOLUCCA SEA
a 11	12 23 32.6	44.595 N	129.720 W	10 G 4.8 4.4	0.9	80	OFF COAST OF OREGON
11	12 42 43.8	10.845 N	87.526 W	33 N 4.3 3.9	0.9	19	OFF COAST OF COSTA RICA
11	13 09 55.4%	40.979 N	29.124 E	10 G	0.3	5	TURKEY
11	13 10 13.0	3.142 S	130.766 E	33 N 4.4	1.3	9	CERAM
11	13 17 54.4	42.544 N	24.138 E	10 G	1.2	17	BULGARIA
11	13 19 55.2	42.864 N	145.820 E	33 N	1.1	7	HOKKAIDO, JAPAN REGION. MG 3.9 (JMA). Felt (II JMA) at Nemuro.
a 11	13 30 07.5	46.486 N	153.810 E	33 N 5.4 5.1	1.0	189	KURIL ISLANDS
11	14 13 57.3%	40.498 N	28.966 E	10 G	0.8	8	TURKEY
11	14 40 35.0%	62.904 N	151.040 W	107		8	CENTRAL ALASKA. <AGS-P>.
11	14 59 13.2	42.300 N	19.284 E	10 G	1.2	7	YUGOSLAVIA. MD 2.6 (TTG).
11	15 03 47.9	37.586 N	15.222 E	10 G	0.4	6	SICILY
11	15 15 16.07	25.72 N	95.98 E	33 N	0.5	5	BURMA-INDIA BORDER REGION
11	15 52 02.2	44.534 N	129.735 W	10 G 4.8 4.4	0.9	79	OFF COAST OF OREGON
11	15 55 17.27	42.96 N	13.41 E	10 G	0.3	4	CENTRAL ITALY. MD 2.3 (SSO).
11	15 58 19.87	43.75 N	6.86 E	10 G	0.6	8	NEAR SOUTH COAST OF FRANCE
11	19 51 50.2%	48.513 N	119.916 W	0		19	WASHINGTON. <SEA>. CL 2.9 (SEA).
11	20 23 37.9	43.011 N	13.317 E	10 G	1.2	5	CENTRAL ITALY. MD 1.8 (SSO).
11	20 37 54.77	49.67 N	155.89 E	67 ? 4.7	1.2	12	KURIL ISLANDS
11	20 57 48.9	38.874 N	24.930 E	10 G 4.4	1.0	36	AEGEAN SEA. ML 3.6 (ATH).
11	21 43 58.6	1.264 N	121.439 E	47 * 5.0	1.1	22	MINAHASSA PENINSULA
a 11	22 28 03.6	12.602 N	87.749 W	81 5.0	1.1	68	NEAR COAST OF NICARAGUA. MD 5.0 (HDC).
11	22 56 16.2	51.214 N	15.698 E	10 G	1.6	9	POLAND. ML 3.6 (VKA), 3.5 (KBA).
11	23 34 26.5%	33.185 N	115.593 W	1		5	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
11	23 38 45.97	46.25 N	153.84 E	33 N 4.7	1.1	19	KURIL ISLANDS
12	01 04 37.5	10.425 N	86.227 W	33 N 4.3	1.2	25	OFF COAST OF COSTA RICA. MD 4.2 (HDC).
12	01 04 39.5	4.207 S	129.446 E	42 * 4.6	1.4	12	BANDA SEA
a 12	02 55 35.9	46.467 N	153.631 E	33 N 5.6 4.9	0.9	274	KURIL ISLANDS
12	03 00 13.07	46.28 N	153.70 E	33 N 4.7	1.4	12	KURIL ISLANDS
12	03 11 09.3	46.440 N	153.699 E	33 N 5.0 5.3	1.1	47	KURIL ISLANDS
12	04 29 21.97	43.69 N	127.26 W	10 G	0.3	26	OFF COAST OF OREGON. CL 3.1 (SEA).
12	05 23 30.3	8.523 S	112.948 E	148 4.8	1.1	32	JAVA
12	05 34 16.6	36.233 N	71.672 E	33 N 4.7	1.3	13	AFGHANISTAN-USSR BORDER REGION
12	05 59 03.6	19.334 N	68.439 W	33 N 4.8	1.0	25	NORTH ATLANTIC OCEAN
12	06 13 56.0	40.436 N	122.594 E	33 N 4.9	1.0	26	NORTHEASTERN CHINA. ML 4.7 (BJI).
a 12	06 28 34.8	59.459 S	25.847 W	33 N 5.2	0.7	32	SOUTH SANDWICH ISLANDS REGION
12	07 53 06.0%	31.480 N	35.716 E	10 G	0.2	5	DEAD SEA REGION
12	10 11 42.4	10.543 N	125.989 E	33 N 4.7	0.5	8	LEYTE, PHILIPPINE ISLANDS
12	10 35 48.4	18.743 S	178.046 W	420 ? 4.6	1.3	21	FIJI ISLANDS REGION
12	10 39 33.0%	44.109 N	8.089 E	10 G	0.2	6	NORTHERN ITALY. ML 2.2 (GEN).
12	11 25 42.9	46.264 N	153.939 E	33 N 4.8	1.4	21	KURIL ISLANDS
12	11 45 27.57	46.94 N	153.73 E	33 N 4.6	1.3	10	KURIL ISLANDS
12	12 06 23.1%	15.724 N	60.500 W	10 G	0.3	8	LEEWARD ISLANDS. ML 2.9 (FDF).
12	12 50 04.5%	40.455 N	125.528 W	5 G		10	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.5 (BRK).
12	13 27 42.5	3.320 S	130.520 E	46 * 4.9	1.4	38	CERAM
12	14 08 37.4%	43.117 N	18.755 E	10 G	1.6	6	YUGOSLAVIA. MD 2.2 (TTG).
12	17 00 10.3	44.517 N	11.026 E	10 G	1.0	30	NORTHERN ITALY. ML 2.7 (LDG), 2.6 (KBA).
12	17 12 58.5	6.979 N	82.484 W	10 G	0.8	17	SOUTH OF PANAMA. MD 4.4 (HDC).
12	18 32 55.7%	37.468 N	3.947 W	10 G	0.8	6	SPAIN. MG 2.7 (MDD).
12	18 58 21.8	44.522 N	11.139 E	10 G	1.2	53	NORTHERN ITALY. ML 3.1 (LDG), 2.7 (KBA). MD 3.3 (TRI), 3.1 (FIR).
12	19 28 48.7	44.328 N	11.063 E	10 G	0.2	6	NORTHERN ITALY
a 12	19 47 41.0	46.789 N	153.896 E	33 N 5.6 6.0	1.0	355	KURIL ISLANDS
12	19 54 01.37	20.94 N	92.66 E	33 N	1.5	6	BURMA
12	20 36 09.47	46.55 N	154.33 E	33 N 4.7	1.1	15	KURIL ISLANDS REGION
12	21 19 15.2	46.206 N	9.171 E	10 G	0.7	8	SWITZERLAND
13	00 04 57.4	36.296 N	69.399 E	33 N 4.3	1.1	8	HINDU KUSH REGION
13	01 05 35.0	46.338 N	7.596 E	10 G	0.2	8	SWITZERLAND
13	01 24 47.5	54.191 N	161.396 W	33 N 5.0	0.9	43	ALASKA PENINSULA. ML 4.0 (PMR).
13	02 10 12.4	6.289 S	149.913 E	33 N	0.7	7	NEW BRITAIN REGION
13	03 07 56.0	54.349 N	161.511 W	33 N	1.2	12	ALASKA PENINSULA. ML 4.0 (PMR).
a 13	03 42 09.3	26.891 S	176.395 W	33 N 5.4	1.3	45	SOUTH OF FIJI ISLANDS
13	04 14 59.3	3.376 S	130.488 E	33 N 5.1	1.1	33	CERAM
13	04 18 21.3%	62.968 N	6.225 E	10 G	1.2	9	SOUTHERN NORWAY. MD 3.1 (BER).
13	04 24 27.3	5.941 S	104.465 E	79 * 5.1	1.2	42	SOUTHERN SUMATERA
13	04 26 48.0	38.531 S	71.473 W	33 N 5.0 4.6	1.3	20	S. CHILE-ARGENTINA BORDER REGION
13	05 53 18.0	36.038 N	30.006 E	10 G	0.6	5	TURKEY
13	06 33 27.4%	47.660 N	122.195 W	0		28	WASHINGTON. <SEA>. ML 2.1 (SEA). Felt at Bellevue, Kirkland and Mercer Island.
13	06 34 44.9%	47.664 N	122.193 W	0		27	WASHINGTON. <SEA>. ML 2.2 (SEA).
13	06 39 14.7%	47.663 N	122.196 W	0		28	WASHINGTON. <SEA>. ML 2.2 (SEA). Felt at Bellevue, Juanita, Kirkland and Mercer Island.
13	06 40 37.4	3.705 S	130.350 E	46 ?	0.6	7	CERAM
a 13	08 11 32.2	6.761 S	155.355 E	74 5.5	0.9	104	SOLOMON ISLANDS. Felt (IV) at Arawo and Panguna, Bougainville.
13	08 34 24.27	38.68 S	71.71 W	33 N 4.3	1.1	9	S. CHILE-ARGENTINA BORDER REGION

13	09 20 36.1	6.714 S	155.353 E	75 *	4.2	1.0	14	SOLOMON ISLANDS. Felt (III) at Arawa and Panguna, Bougainville.
13	09 24 39.6	42.308 N	19.286 E	10 G		1.2	7	YUGOSLAVIA. MD 2.4 (TTG).
13	11 40 34.6*	17.267 S	65.010 W	33 N		1.0	7	BOLIVIA
13	11 43 56.0*	47.618 N	153.131 E	33 N	4.8	0.9	12	KURIL ISLANDS
13	12 01 55.8	44.345 N	7.310 E	10 G		0.6	8	NORTHERN ITALY. ML 2.0 (GEN).
13	12 27 22.4	37.068 N	22.084 E	33 N		1.3	13	SOUTHERN GREECE. ML 3.1 (ATH). Felt in the Kalamai area.
13	13 00 51.9	41.557 N	22.279 E	10 G		1.5	7	YUGOSLAVIA
13	13 58 13.9*	46.491 N	154.240 E	33 N	5.0	1.0	48	KURIL ISLANDS REGION
13	14 26 27.0	27.798 N	54.246 E	65	4.8	1.0	87	SOUTHERN IRAN. Felt at Lar.
13	14 48 05.4*	30.888 S	68.227 W	33 N		1.4	5	SAN JUAN PROVINCE, ARGENTINA
13	15 31 55.7*	46.611 N	153.546 E	33 N	5.0 4.4	1.1	58	KURIL ISLANDS
13	15 57 12.7%	44.155 N	8.221 E	10 G		0.2	6	NORTHERN ITALY. ML 2.3 (GEN).
a 13	15 59 53.4	15.368 S	167.455 E	138 *	5.3	1.2	182	VANUATU ISLANDS
13	16 15 32.3*	28.863 S	61.925 E	10 G	4.8	1.1	18	ATLANTIC-INDIAN RISE
13	16 23 27.6	3.297 S	130.432 E	39 *	4.9	1.2	33	CERAM
13	16 38 36.4	30.902 S	117.206 E	10 G		0.4	8	WESTERN AUSTRALIA
13	16 54 35.5*	38.481 S	71.402 W	33 N	4.6 3.9	1.4	17	S. CHILE-ARGENTINA BORDER REGION
a 13	18 01 56.5	46.477 N	153.673 E	33 N	5.7 5.6	1.0	335	KURIL ISLANDS. Ms 5.3 (BRK).
13	18 03 53.6*	39.384 N	20.529 E	10 G		0.5	5	GREECE-ALBANIA BORDER REGION. MD 3.0 (ATH).
13	19 14 39.3	43.392 N	5.436 E	10 G		1.4	24	NEAR SOUTH COAST OF FRANCE. MD 2.8 (STR).
13	19 21 26.2?	46.41 N	153.50 E	33 N	5.0	1.1	25	KURIL ISLANDS
13	21 41 12.5%	42.775 N	13.022 E	10 G		0.2	6	CENTRAL ITALY
13	21 59 51.0*	32.826 S	71.948 W	33 N		1.4	19	NEAR COAST OF CENTRAL CHILE. Felt (III) in the Valparaisa area.
13	23 09 33.7*	30.190 N	83.056 E	33 N		0.3	7	TIBET
13	23 10 54.9?	26.94 N	142.77 E	33 N		0.9	11	BONIN ISLANDS REGION
a 14	00 50 33.1	15.244 S	173.608 W	33 N	5.6 5.1	1.1	201	TONGA ISLANDS. Ms 5.3 (BRK).
14	03 51 33.5%	61.559 N	149.964 W	39		35	35	SOUTHERN ALASKA. <AGS-P>. ML 3.1 (PMR).
14	04 13 27.1*	46.440 N	153.862 E	33 N	5.0	1.1	30	KURIL ISLANDS
a 14	04 21 12.0	46.410 N	153.871 E	39 D	5.3 4.9	0.9	220	KURIL ISLANDS
14	04 21 57.5	37.729 N	15.066 E	10 G		0.8	9	SICILY
14	05 22 53.1?	35.55 S	70.94 W	94 ?		0.5	11	CHILE-ARGENTINA BORDER REGION
14	05 52 02.0*	46.435 N	153.827 E	33 N	4.8	1.2	20	KURIL ISLANDS
14	06 47 34.2%	46.547 N	121.812 W	4		79	79	WASHINGTON. <SEA>. ML 3.4 (SEA). Felt in the Packwood-Randle area.
14	07 24 45.9%	60.006 N	153.524 W	142		28	28	SOUTHERN ALASKA. <AGS-P>.
14	07 55 05.7*	46.443 N	153.405 E	33 N	4.8	1.3	16	KURIL ISLANDS
14	08 11 40.0*	3.341 S	130.596 E	33 N	5.1	1.4	29	CERAM
14	08 26 40.2%	46.553 N	121.811 W	4		47	47	WASHINGTON. <SEA>. CL 2.7 (SEA).
14	09 25 44.8*	22.197 S	67.269 W	183 *	4.7	1.5	12	CHILE-BOLIVIA BORDER REGION
14	12 39 44.4	43.675 N	9.287 E	10 G		0.7	16	CORSICA. ML 2.6 (LDG).
14	12 48 29.6%	38.800 N	122.800 W	2		8	8	NORTHERN CALIFORNIA. <BRK>. ML 2.8 (BRK).
14	12 50 59.8	57.503 N	154.413 W	71 *	4.5	1.1	35	KODIAK ISLAND REGION
-14	14 11 59.3*	29.274 S	67.933 W	132 *	4.6	1.3	23	LA RIOJA PROVINCE, ARGENTINA
14	18 24 14.0*	3.370 S	130.417 E	33 N	4.8	0.7	11	CERAM
14	19 04 49.2*	43.220 N	13.856 E	10 G		1.1	7	CENTRAL ITALY. MD 2.7 (SSO).
14	19 41 47.2?	24.56 N	126.58 E	33 N	4.7	1.3	10	RYUKYU ISLANDS
14	19 55 14.3*	43.151 N	17.743 E	10 G		1.5	11	YUGOSLAVIA. MD 2.9 (TTG).
14	20 59 32.5%	62.994 N	149.311 W	83		6	6	CENTRAL ALASKA. <AGS-P>.
14	20 59 45.0	40.801 N	27.883 E	10 G		0.9	23	TURKEY
14	21 06 43.8*	43.082 N	13.687 E	10 G		1.2	8	CENTRAL ITALY. MD 2.8 (SSO).
14	21 56 57.3	43.228 N	19.169 E	10 G		1.2	8	YUGOSLAVIA. MD 2.4 (TTG).
14	22 19 01.6	35.746 N	27.282 E	92	4.0	1.1	57	DODECANESE ISLANDS. MD 3.7 (ATH).
14	22 46 49.0%	43.228 N	0.557 W	10 G		1.1	5	PYRENEES. ML 2.8 (LDG). Felt (II) at Esquiule, France.
14	23 47 41.8?	20.37 S	178.22 W	343 ?	4.8	1.4	55	FIJI ISLANDS REGION
15	00 07 13.2%	37.417 N	121.758 W	7		10	10	CENTRAL CALIFORNIA. <BRK>. ML 3.2 (BRK). Ma=8.9*10**13 Nm (BRK). Felt (III) at San Jose.
a 15	01 27 46.3	31.733 S	71.813 W	50	5.2 4.4	1.1	91	NEAR COAST OF CENTRAL CHILE. Felt (V) at Salamanca and (IV) at Santiago and Vina del Mar. Also felt at Valparaisa.
15	02 34 03.3?	31.55 S	71.71 W	33 N		0.6	10	NEAR COAST OF CENTRAL CHILE
15	03 19 50.6	31.750 S	71.847 W	50	5.0 5.6	1.2	59	NEAR COAST OF CENTRAL CHILE
15	03 43 24.2*	36.231 N	31.627 E	10 G		1.6	6	TURKEY
15	03 59 47.0*	0.120 N	121.871 E	172 ?	4.5	0.8	16	MINAHASSA PENINSULA
15	04 00 56.5	37.593 N	15.170 E	10 G		0.9	8	SICILY
15	04 16 20.6	55.684 N	156.747 W	33 N	4.8	1.1	40	SOUTH OF ALASKA. ML 4.5 (PMR).
15	05 39 56.1	30.753 S	71.862 W	61 *		1.2	20	NEAR COAST OF CENTRAL CHILE
15	06 01 57.4?	15.86 N	97.95 W	33 N		0.6	5	NEAR COAST OF OAXACA, MEXICO
15	08 08 06.0*	4.046 S	130.400 E	33 N		0.7	9	BANDA SEA
15	10 20 04.2*	15.920 S	167.374 E	70 *	4.9	1.4	45	VANUATU ISLANDS
15	10 41 51.2*	9.261 S	67.243 E	10 G	4.4	1.1	25	MID-INDIAN RISE
15	10 45 33.9*	32.266 S	71.737 W	33 N		1.3	13	NEAR COAST OF CENTRAL CHILE
15	14 21 33.1	43.357 N	143.168 E	31	4.5	0.9	26	HOKKAIDO, JAPAN REGION. Felt (I JMA) at Obihiro.
15	14 27 02.4*	6.481 S	154.893 E	62 *	4.7	1.4	13	SOLOMON ISLANDS
15	14 43 31.8*	33.064 S	72.167 W	33 N		1.2	15	OFF COAST OF CENTRAL CHILE
15	15 39 55.1%	32.950 N	117.740 W	6 G	4.5	24	24	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 4.2 (PAS). Felt (IV) at Dana Point, Encinitas and San Diego. Felt (III) at Escandida, Oceanside and San Luis Rey.
15	16 46 38.3*	38.098 N	77.162 E	33 N	4.3	1.4	13	SOUTHERN XINJIANG, CHINA
15	18 52 51.4	58.878 S	26.061 W	118 D	5.2	0.9	65	SOUTH SANDWICH ISLANDS REGION
15	19 16 50.9?	46.97 N	153.60 E	33 N	4.9	0.8	11	KURIL ISLANDS
15	19 40 52.4	37.815 N	76.566 E	35 *	5.0	1.2	32	SOUTHERN XINJIANG, CHINA
15	20 55 51.3?	30.42 S	72.33 W	33 N		1.1	12	OFF COAST OF CENTRAL CHILE
15	22 59 39.5?	29.59 N	141.31 E	65 ?	4.6	1.4	17	SOUTH OF HONSHU, JAPAN
16	00 15 17.2	50.909 N	6.091 E	10 G		0.8	9	GERMANY. MD 3.6 (UCC).
16	00 45 02.2	44.316 N	17.882 E	10 G		1.3	10	YUGOSLAVIA
16	03 08 23.7%	45.935 N	111.598 W	6		9	9	MONTANA. <BUT>. ML 2.4 (BUT). Felt at Trident.
16	04 40 49.3*	12.108 S	14.483 W	10 G		0.6	12	SOUTH ATLANTIC RIDGE
16	05 32 25.2?	47.29 N	153.54 E	33 N	4.9	0.3	10	KURIL ISLANDS
16	05 33 11.9	37.161 N	30.947 E	133	4.2	0.9	29	TURKEY
16	06 17 53.7?	7.27 S	129.05 E	176 ?	4.7	0.7	5	BANDA SEA

16	06	24	43.7	17.304	N	61.787	W	10	G	0.9	8	LEEWARD ISLANDS. ML 3.1 (FDF).		
16	06	29	53.6	37.735	N	121.983	W	4			11	CENTRAL CALIFORNIA. <BRK>. ML 2.4 (BRK). Ma=9.3+10+12 Nm (BRK). Felt at San Ramon.		
16	07	07	03.8	37.737	N	121.980	W	5			11	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK). Ma=1.4+10+13 Nm (BRK). Felt at East Oakland and San Ramon.		
a	16	07	24	21.0	41.438	N	142.007	E	76	5.2	1.0	187	HOKKAIDO, JAPAN REGION. Felt (III JMA) at Hachinohe, (II JMA) at Miyaka and Mariaka and (I JMA) at Aomori, Hanshu. Felt (II JMA) at Tamakamai and (I JMA) at Obihira and Urakawa, Hokkaido.	
16	08	28	00.9?	6.51	S	131.35	E	33	N	4.1	0.7	5	TANIMBAR ISLANDS REGION	
16	08	36	49.3	42.314	N	24.805	E	10	G		1.3	12	BULGARIA	
16	09	29	55.8	39.282	N	27.748	E	10	G		0.6	6	TURKEY	
16	09	38	44.8?	31.74	N	142.67	E	33	N		0.7	7	SOUTH OF HONSHU, JAPAN	
16	09	55	15.9	43.422	N	5.428	E	10	G		0.9	12	NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).	
16	10	38	04.8?	32.42	S	71.97	W	33	N		0.5	11	NEAR COAST OF CENTRAL CHILE	
16	10	45	19.0	3.123	S	130.595	E	33	N	4.8	1.5	12	CERAM	
16	10	49	27.0	24.055	N	92.104	E	33	N		1.5	6	INDIA-BANGLADESH BORDER REGION	
16	12	34	55.5	44.312	N	7.474	E	10	G		0.5	6	NORTHERN ITALY. ML 2.1 (GEN).	
16	12	49	43.0	39.146	N	27.592	E	10	G		0.8	6	TURKEY	
16	15	58	28.8	15.836	N	92.257	W	214	?		1.1	17	MEXICO-GUATEMALA BORDER REGION	
16	16	25	31.9	45.948	N	14.372	E	10	G		1.2	6	YUGOSLAVIA. MD 2.6 (LJU), 2.1 (TRI).	
16	16	42	22.5	62.925	N	151.205	W	110				4	CENTRAL ALASKA. <AGS-P>.	
16	18	02	49.7	17.057	N	94.306	W	33	N		0.9	6	CHIAPAS, MEXICO	
16	18	10	17.1	15.388	N	60.824	W	10	G		1.4	7	LEEWARD ISLANDS. ML 2.7 (FDF).	
16	18	53	21.9	39.363	N	19.297	E	10	G		0.8	14	GREECE-ALBANIA BORDER REGION. MD 3.6 (ATH).	
16	19	15	35.8	34.044	S	70.901	W	33	N		1.0	7	CHILE-ARGENTINA BORDER REGION	
16	19	49	01.6	44.281	N	7.236	E	10	G		0.3	16	NORTHERN ITALY. ML 2.6 (GEN), 2.3 (LDG).	
16	20	11	25.7	32.718	N	141.807	E	33	N	5.2	1.4	26	SOUTH OF HONSHU, JAPAN	
16	23	28	56.4	22.701	N	99.379	E	33	N	4.3	1.5	10	BURMA-CHINA BORDER REGION	
f	17	00	35	23.1	6.151	S	148.947	E	32	G	5.9 6.4	1.2	284	NEW BRITAIN REGION. Ms 6.3 (BRK), 6.0 (PAS). Felt (IV) at Finschhafen, New Guinea. Felt (III) at Kimbe, New Britain and an Umbai. Also felt in the Kandrian area. Depth from broadband displacement seismograms.
17	00	47	29.4	42.833	N	12.912	E	10	G		0.8	7	CENTRAL ITALY. MD 2.3 (SSO).	
17	00	57	10.2	6.377	S	149.270	E	61	?		1.6	6	NEW BRITAIN REGION	
17	01	03	25.3	4.318	S	148.496	E	33	N	4.5	1.3	8	BISMARCK SEA	
17	02	26	52.9	61.143	N	151.203	W	58				34	SOUTHERN ALASKA. <AGS-P>.	
17	03	55	20.2	31.920	N	114.880	W	6	G			3	GULF OF CALIFORNIA. <PAS-P>. ML 3.1 (PAS).	
17	04	55	27.8	40.255	N	27.321	E	10	G		0.5	5	TURKEY	
17	05	04	13.3	2.114	S	139.002	E	33	N	5.3 4.6	1.0	45	NEAR N. COAST OF WEST IRIAN	
17	05	05	13.1	41.147	N	124.230	W	24				18	NEAR COAST OF NORTHERN CALIF <BRK>. ML 3.4 (BRK). Felt (V) at Arcata and (III) at Eureka, Samoa and Trinidad.	
17	05	47	21.7	58.044	N	142.624	W	10	G	4.5		43	GULF OF ALASKA. <AGS-P>. ML 3.7 (PMR).	
17	06	06	53.9?	18.84	S	179.23	W	552	?	4.9	1.2	51	FILIPIN ISLANDS REGION	
17	06	40	36.0	43.767	N	147.238	E	103		4.7	0.9	61	KURIL ISLANDS. Felt (I JMA) at Kushira, Hokkaido.	
17	07	37	07.6?	59.75	N	5.98	E	10	G		0.1	4	SOUTHERN NORWAY. MD 2.7 (BER).	
17	07	56	55.6	43.428	N	5.444	E	10	G		0.7	13	NEAR SOUTH COAST OF FRANCE. MD 2.8 (STR).	
17	08	03	52.0	44.631	N	9.448	E	10	G		0.8	54	NORTHERN ITALY. ML 3.2 (LDG), 3.0 (KBA). MD 2.9 (STR).	
17	10	34	27.5	37.841	N	116.134	W	5	G		0.5	20	SOUTHERN NEVADA. MD 2.8 (REN).	
a	17	11	20	43.5	5.468	N	79.195	W	10	G	5.0 4.3	1.5	79	SOUTH OF PANAMA
17	11	51	05.8	34.963	N	139.391	E	10	G		0.8	8	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) on Oshima.	
17	13	55	28.8	47.653	N	122.190	W	2				42	WASHINGTON. <SEA>. ML 3.3 (SEA). Felt (III) at Medina. Also felt at Kirkland, Bellevue, Northgate, Mercer Island and parts of Seattle.	
17	15	09	59.4?	46.48	N	153.96	E	33	N	4.6	1.0	10	KURIL ISLANDS	
17	17	58	07.1?	3.32	S	131.04	E	33	N	4.0	1.4	7	WEST IRIAN REGION	
17	20	08	30.4	5.752	S	150.350	E	93		5.2	0.8	67	NEW BRITAIN REGION	
17	20	17	38.8?	32.44	N	35.37	E	10	G		0.3	6	DEAD SEA REGION	
17	20	18	14.8	43.350	N	5.433	E	10	G		1.3	27	NEAR SOUTH COAST OF FRANCE. MD 3.1 (STR).	
17	21	09	55.4?	10.39	N	59.17	W	10	G		0.4	10	NORTH ATLANTIC OCEAN	
17	22	39	54.2	37.815	N	122.598	W	12				8	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).	
17	23	31	19.8	30.474	N	57.955	E	33	N	4.4	0.9	11	IRAN	
18	00	09	51.1	41.810	N	21.722	E	10	G		1.4	7	YUGOSLAVIA. MD 2.8 (ATH). ML 2.5 (SKO). Felt (II) at Sveti Nikole.	
18	01	00	49.3	32.404	N	35.459	E	10	G		0.2	9	DEAD SEA REGION	
18	01	25	27.5	38.231	N	21.836	E	10	G		0.8	10	GREECE. MD 3.0 (ATH).	
18	02	14	39.9	39.363	N	27.729	E	10	G		0.5	6	TURKEY	
18	03	46	16.4	38.923	N	23.679	E	10	G		0.8	15	GREECE. ML 2.9 (ATH).	
18	03	57	50.1?	51.63	N	16.32	E	10	G		0.5	8	POLAND. ML 3.5 (VKA), 3.0 (KBA).	
18	04	40	48.7	18.047	S	178.499	W	576	*	5.2	1.1	70	FILIPIN ISLANDS REGION	
18	05	54	43.2	37.530	N	118.430	W	8				8	CALIFORNIA-NEVADA BORDER REGION. <REN>. MD 3.1 (REN).	
18	07	14	16.2	41.473	N	24.639	E	10	G		1.2	18	GREECE-BULGARIA BORDER REGION. MD 3.1 (ATH).	
18	08	02	27.3	54.983	N	160.081	W	57			0.7	18	ALASKA PENINSULA	
18	11	03	58.0	56.886	N	142.907	W	10	G			20	GULF OF ALASKA. <AGS-P>.	
18	13	42	13.4	42.138	N	24.762	E	10	G		1.1	5	BULGARIA	
a	18	13	53	07.7	21.532	S	178.114	W	367	4.9	1.1	146	FILIPIN ISLANDS REGION	
18	13	54	57.7	40.404	N	29.130	E	10	G		1.3	7	TURKEY	
18	14	17	35.9	54.975	N	160.129	W	41	*		0.4	11	ALASKA PENINSULA	
18	14	24	17.0?	36.41	S	72.20	W	10	G		1.1	7	NEAR COAST OF CENTRAL CHILE	
18	15	35	39.3	46.261	N	12.914	E	10	G		1.4	6	NORTHERN ITALY. MD 2.2 (TRI).	
18	15	45	39.4	32.565	N	93.820	E	33	N	4.5	1.4	22	TIBET	
18	16	15	59.9	61.748	N	150.885	W	63				26	SOUTHERN ALASKA. <AGS-P>.	
18	16	26	11.7	60.763	N	149.564	W	39				36	KENAI PENINSULA, ALASKA. <AGS-P>. ML 3.3 (PMR).	
18	17	04	02.8	39.632	N	26.193	E	10	G		1.0	8	TURKEY	
a	18	17	32	11.6	7.025	S	74.598	W	147	D	5.4	0.9	298	PERU-BRAZIL BORDER REGION
18	17	58	48.3	0.559	S	136.841	E	33	N	5.3	1.0	36	WEST IRIAN REGION	
a	18	18	22	47.6	30.179	N	100.215	E	35	*	5.0	1.5	143	SICHUAN PROVINCE, CHINA
18	19	30	03.7	32.495	N	93.839	E	33	N	4.5	0.9	21	TIBET	
18	20	28	09.7	52.328	N	171.073	W	33	N	4.5	0.9	16	FOX ISLANDS, ALEUTIAN ISLANDS	
18	21	19	10.0	13.287	S	130.570	E	10	G		0.5	5	NORTHERN TERRITORY, AUSTRALIA	
18	22	16	24.6	54.859	N	159.819	W	53	*	4.7	0.9	19	SOUTH OF ALASKA	
18	22	27	28.9	38.792	N	21.250	E	10	G		1.1	10	GREECE	

18	23 38 54.67	5.87 S	149.13 E	33 N	4.3	1.2	7	NEW BRITAIN REGION. ML 4.4 (PMG).
19	01 42 05.6	43.370 N	5.440 E	10 G		1.2	26	NEAR SOUTH COAST OF FRANCE. MD 2.9 (STR).
19	01 43 52.1	22.305 N	121.738 E	46 *	4.9	1.2	53	TAIWAN REGION
19	03 17 48.1	4.010 S	105.707 W	10 G	5.4 5.8	1.3	67	NORTHERN EASTER I. CORDILLERA. Ms 5.9 (BRK).
19	03 31 03.7	44.261 N	129.089 W	10 G	4.3	0.5	44	OFF COAST OF OREGON
19	04 41 32.7	4.963 S	129.747 E	10	4.2	1.0	12	BANDA SEA
19	05 02 18.7	34.895 N	25.911 E	10 G		1.3	7	CRETE
19	05 22 31.4	40.786 N	30.108 E	10 G		0.4	5	TURKEY
19	06 53 28.8	33.920 N	118.630 W	12	5.2 4.8		174	SOUTHERN CALIFORNIA. <PAS-P>. ML 5.0 (PAS), 5.2 (BRK). Several people injured, some broken windows and many items knocked from store shelves in the Malibu-Santa Monica-Redondo Beach area. Slight damage (VI) at Hollywood, Lancaster, Los Angeles, Malibu and Monterey Park. Felt in Kern, Orange, Los Angeles, San Bernardino, San Diego, Santa Barbara, Riverside and Ventura Counties.
19	06 59 37.2	33.900 N	118.620 W	12			9	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
19	07 00 53.2	33.920 N	118.620 W	12			10	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
19	07 02 47.3	33.910 N	118.640 W	11			11	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
19	07 13 27.3	43.151 N	19.369 E	10 G		0.7	5	YUGOSLAVIA. MD 2.4 (TTG).
19	07 44 21.9	33.910 N	118.630 W	11			14	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
19	07 47 02.0	39.000 N	29.907 E	10 G		1.5	7	TURKEY
19	07 47 12.0	33.917 N	118.622 W	10 G		0.5	7	SOUTHERN CALIFORNIA
19	07 55 18.1	33.929 N	118.657 W	10 G		0.4	5	SOUTHERN CALIFORNIA
19	07 57 59.9	33.890 N	118.645 W	10 G		0.5	5	SOUTHERN CALIFORNIA
19	08 10 05.6	33.920 N	118.620 W	12			17	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
19	08 15 20.6	33.822 N	118.637 W	10 G		0.4	9	SOUTHERN CALIFORNIA
19	09 05 06.4	43.319 N	17.176 E	10 G		0.8	9	YUGOSLAVIA. ML 2.6 (TTG).
19	10 25 08.5	33.920 N	118.610 W	11			22	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
19	10 43 40.7	11.543 S	117.372 E	33 N	4.8	1.1	9	SOUTH OF SUMBAWA ISLAND
19	10 45 50.9	33.923 N	118.622 W	10 G		0.3	5	SOUTHERN CALIFORNIA
19	10 50 22.2	33.847 N	118.657 W	10 G		0.4	5	SOUTHERN CALIFORNIA
19	11 42 37.7	36.811 N	70.789 E	33 N	4.2	1.3	13	HINDU KUSH REGION. Felt (II) at Khorog, USSR.
19	11 52 53.8	29.844 N	94.809 E	33 N	4.5	1.4	13	INDIA-CHINA BORDER REGION
19	12 21 42.2	47.568 N	121.904 W	3			44	WASHINGTON. <SEA>. ML 2.5 (SEA). Felt (III) at Snoqualmie. Also felt in the Carnation, Fall City, Preston and Tiger Mountain areas.
19	12 34 12.6	47.569 N	121.900 W	3			50	WASHINGTON. <SEA>. ML 2.7 (SEA). Felt (III) at Snoqualmie. Also felt in the Carnation, Fall City, Preston and Tiger Mountain areas.
19	12 46 39.8	44.74 N	28.17 E	10 G		1.5	5	ROMANIA
19	13 37 03.7	28.50 N	84.18 E	30 *		0.6	6	NEPAL
19	13 42 23.4	7.576 S	128.829 E	158 ?	3.8	1.5	8	BANDA SEA
19	13 53 41.6	5.767 S	149.595 E	23 *	4.5	1.6	16	NEW BRITAIN REGION
19	14 16 22.3	58.17 N	6.40 E	0 G		0.5	5	SOUTHERN NORWAY. MD 2.4 (BER). Probable explosion.
19	14 43 33.6	10.97 N	62.35 W	123 ?		1.3	15	NEAR COAST OF VENEZUELA
19	14 48 01.1	33.920 N	118.620 W	11			13	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
19	17 05 29.6	51.566 N	175.197 W	33 N	4.8	1.1	43	ANDREANOF ISLANDS, ALEUTIAN IS.
19	17 12 33.3	42.310 N	13.398 E	13 *		0.7	6	CENTRAL ITALY. MD 2.2 (SSO).
19	17 28 17.8	38.124 N	39.585 E	10 G	4.3	0.9	15	TURKEY
19	18 03 07.5	17.434 N	119.739 E	33 N	4.6	0.9	8	PHILIPPINE ISLANDS REGION
19	18 30 47.7	6.172 S	133.824 E	33 N	4.1	1.0	7	AROE ISLANDS REGION
19	19 52 25.3	30.913 S	116.911 E	10 G		0.4	5	WESTERN AUSTRALIA
19	20 35 41.1	18.848 S	67.210 W	236	4.6	1.1	89	BOLIVIA
19	21 34 13.0	30.382 N	131.070 E	61 *	4.6	1.1	18	KYUSHU, JAPAN
19	21 36 38.4	48.071 N	70.960 W	30			7	SOUTHERN QUEBEC. <OTT-P>. mbLg 3.9 (OTT), 3.9 (NEIS). Felt in the Chicoutimi area.
19	22 01 57.9	33.920 N	118.640 W	12			58	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.8 (PAS). Felt (V) at Conogo Park; (IV) at Inglewood, Lomito, Pacific Palisades and Venice; (III) at Gardeno, Harbor City, Hawthorne, Huntington Park, Long Beach, Los Angeles, Malibu, Redondo Beach, Santa Monica and Westchester.
19	22 09 41.7	33.920 N	118.640 W	12			38	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS). Felt in the Los Angeles area.
19	22 32 16.2	38.852 N	22.989 E	10 G		0.4	9	GREECE. ML 2.8 (ATH).
19	23 54 42.3	39.002 N	142.620 E	33 N		1.5	7	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Miyoko.
20	01 37 15.0	6.072 S	102.519 E	33 N	4.7 3.7	1.1	15	SOUTHWEST OF SUMATERA
20	01 55 18.0	10.297 S	74.885 W	129 D	5.1	0.8	160	PERU
20	02 03 54.6	41.906 S	79.930 E	10 G	5.3 6.1	1.4	40	MID-INDIAN RISE
20	02 15 58.2	41.670 S	80.159 E	10 G	5.4 5.9	1.3	71	MID-INDIAN RISE
20	03 25 22.0	33.910 N	118.620 W	11			10	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
20	03 32 15.9	43.412 N	5.431 E	10 G		1.1	20	NEAR SOUTH COAST OF FRANCE. MD 2.8 (STR).
20	07 13 35.2	6.213 S	130.255 E	127 ?	3.4	1.0	10	BANDA SEA
20	07 29 52.6	43.476 N	142.913 E	27	4.2	0.9	9	HOKKAIDO, JAPAN REGION
20	09 09 02.6	34.05 N	24.30 E	10 G		1.4	5	CRETE. MD 3.7 (ATH).
20	09 33 45.6	57.843 N	8.385 E	10 G		1.2	19	DENMARK. ML 4.2 (NAO), 3.9 (UPP). Felt.
20	11 50 41.3	39.298 N	119.649 W	0			10	NEVADA. <REN>. MD 2.5 (REN). Felt at Virginio City.
20	12 10 41.5	39.288 N	119.672 W	1			21	NEVADA. <REN>. MD 3.1 (REN). Felt at Virginio City.
20	12 32 55.9	13.625 N	144.946 E	119	4.9	1.1	71	MARIANA ISLANDS. Felt (III) on Guam.
20	13 37 42.5	3.197 S	132.661 E	33 N	2.9	1.0	8	WEST IRIAN REGION
20	14 14 01.3	44.393 N	7.382 E	10 G		0.6	43	NORTHERN ITALY. ML 3.6 (GEN), 3.1 (LDG).
20	14 34 16.3	8.041 S	128.188 E	33 N		0.3	6	TIMOR SEA
20	15 31 27.8	7.91 S	158.88 E	112 *	4.5	0.9	13	SOLOMON ISLANDS
20	15 45 07.4	44.582 N	7.391 E	10 G		0.1	5	NORTHERN ITALY. ML 2.4 (GEN).
20	15 47 15.5	33.88 N	135.33 E	33 N		1.4	5	NEAR S COAST OF SOUTHERN HONSHU. Felt (III JMA) at Wokoyama.
20	17 26 38.8	11.544 S	166.134 E	74 *	5.3	1.2	120	SANTA CRUZ ISLANDS
20	17 41 37.8	35.678 S	144.335 E	10 G		1.5	6	NEW SOUTH WALES, AUSTRALIA. ML 3.4 (BFD), 3.2 (CMS), 3.0 (TOO).
20	18 31 34.0	40.392 N	21.402 E	10 G		0.7	12	GREECE. MD 3.6 (ATH).
20	19 22 56.0	7.152 N	82.474 W	24			13	SOUTH OF PANAMA. <HDC>. MD 4.3 (HDC).
20	20 48 53.8	36.150 N	120.208 W	10			10	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).

20	20 51 06.8*	35.832 N	23.042 E	10 G	3.9	1.3	9	CRETE. ML 3.3 (ATH).
20	20 51 29.7	43.391 N	5.430 E	10 G		1.0	22	NEAR SOUTH COAST OF FRANCE. MD 2.7 (STR).
20	21 25 33.3&	60.337 N	152.305 W	84			28	SOUTHERN ALASKA. <AGS-P>.
20	23 38 54.6	32.975 S	70.918 W	33 N		1.1	9	CHILE-ARGENTINA BORDER REGION
21	01 14 19.8?	40.31 N	27.49 E	10 G		0.3	4	TURKEY
21	01 33 42.7&	59.858 N	153.465 W	127			36	SOUTHERN ALASKA. <AGS-P>.
21	02 26 19.6&	35.130 N	118.660 W	11			26	CENTRAL CALIFORNIA. <PAS-P>. ML 3.5 (PAS). Felt in the Bakersfield area.
a 21	02 52 20.3	38.147 N	26.243 W	10 G	5.4 5.1	0.8	287	AZORES ISLANDS. Felt (IV) an Sao Miguel; (III) an Sao Jarge, Terceira, Santa Maria and Pica; (II) an Faial.
21	03 13 05.4	42.008 N	20.228 E	10 G		1.0	26	YUGOSLAVIA. MD 3.0 (TTG), ML 3.0 (SKO).
21	03 47 02.4	41.269 N	22.620 E	10 G		0.9	8	YUGOSLAVIA. ML 2.4 (SKO). Felt (III) at Valandova.
21	03 57 44.7?	3.73 S	130.14 E	33 N	4.1	1.4	7	CERAM
21	06 26 29.6	47.528 N	7.250 E	10 G		0.4	6	SWITZERLAND. ML 2.1 (LDG).
21	06 54 57.7*	31.585 S	69.705 W	132 ?		0.8	12	SAN JUAN PROVINCE, ARGENTINA
21	07 07 00.1?	3.39 S	128.97 E	112 ?	4.4	0.9	13	CERAM
21	07 09 11.7	42.497 N	16.735 E	10 G		1.4	12	ADRIATIC SEA. ML 3.0 (KBA).
21	08 12 42.0*	21.203 S	69.530 W	184 ?		0.8	6	NORTHERN CHILE
21	08 19 14.7	44.400 N	7.352 E	10 G		0.6	11	NORTHERN ITALY. ML 2.6 (GEN), 2.2 (LDG).
21	08 25 33.3	7.538 N	82.002 W	10		0.8	22	SOUTH OF PANAMA. MD 4.2 (HDC).
21	08 28 07.5	40.002 N	23.359 E	10 G		1.1	16	GREECE. ML 3.2 (ATH).
21	08 51 33.4*	39.865 N	24.041 E	10 G		0.8	12	AEGEAN SEA
21	09 11 47.6	29.530 N	131.455 E	33 N	4.5	0.7	25	RYUKYU ISLANDS REGION
21	10 56 32.3?	39.78 N	21.69 E	10 G		1.2	8	GREECE
21	13 49 55.8*	6.280 S	149.779 E	60 *	4.4 3.5	0.8	18	NEW BRITAIN REGION
21	13 55 17.6	29.501 N	131.472 E	33 N	4.7	1.1	40	RYUKYU ISLANDS REGION
21	13 57 19.4	29.498 N	131.520 E	30 D	4.9	1.3	64	RYUKYU ISLANDS REGION
21	13 59 45.7?	29.85 N	131.37 E	33 N	4.8	0.5	11	RYUKYU ISLANDS REGION
21	14 05 41.3	46.274 N	0.846 E	10 G		1.3	16	FRANCE. ML 2.9 (LDG).
a 21	14 06 12.2	29.511 N	131.512 E	33 D	5.4 5.5	1.0	243	RYUKYU ISLANDS REGION
21	14 13 55.6	29.564 N	131.525 E	31 D	5.1	0.9	73	RYUKYU ISLANDS REGION
21	14 19 15.8*	29.501 N	131.561 E	33 N	4.6	0.7	24	RYUKYU ISLANDS REGION
21	14 20 40.7?	29.68 N	131.42 E	33 N	4.3	0.8	11	RYUKYU ISLANDS REGION
21	14 30 17.2	46.319 N	153.850 E	39 D	4.8	0.9	61	KURIL ISLANDS
21	14 37 08.6*	29.510 N	131.490 E	33 N	4.5	1.0	29	RYUKYU ISLANDS REGION
21	14 42 57.7	29.527 N	131.635 E	33 N	4.7	0.8	32	RYUKYU ISLANDS REGION
21	15 15 00.4	29.492 N	131.470 E	29 D	4.9	1.1	62	RYUKYU ISLANDS REGION
21	16 12 51.6	46.546 N	6.401 E	10 G		1.2	21	SWITZERLAND. ML 2.8 (LDG).
21	16 19 02.8*	29.768 N	50.638 E	33 N		0.5	5	SOUTHERN IRAN
21	16 22 19.5	38.819 N	142.755 E	10 G	4.5	1.4	16	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Ofunata and (I JMA) at Miyako.
21	17 02 36.1	29.464 N	131.464 E	33 N	4.5	1.0	36	RYUKYU ISLANDS REGION
a 21	17 37 37.5	29.513 N	131.466 E	32 D	5.2	1.2	119	RYUKYU ISLANDS REGION
21	17 39 29.1*	43.091 N	17.613 E	10 G		1.2	6	YUGOSLAVIA. MD 2.8 (TTG).
21	17 53 27.1	29.553 N	131.522 E	31 D	4.7	0.9	40	RYUKYU ISLANDS REGION
21	17 57 15.2	40.110 N	142.570 E	55	4.8	1.0	52	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Miyako and Morioka; (I JMA) at Ofunata.
21	18 34 42.9&	62.389 N	149.952 W	64			5	CENTRAL ALASKA. <AGS-P>.
21	19 30 16.7&	37.476 N	118.843 W	7			17	CALIFORNIA-NEVADA BORDER REGION. <REN>. MD 3.7 (REN).
21	19 45 46.2%	30.903 S	117.170 E	10 G		0.5	7	WESTERN AUSTRALIA
21	19 48 22.3*	29.552 N	131.449 E	33 D	4.6	1.2	36	RYUKYU ISLANDS REGION
21	20 27 33.7*	43.513 N	142.953 E	33 N		0.9	6	HOKKAIDO, JAPAN REGION
21	20 28 57.8?	3.23 S	130.74 E	74 ?	4.1	1.5	8	CERAM
a 21	20 42 38.2	29.469 N	131.470 E	33 D	5.4 5.0	1.1	195	RYUKYU ISLANDS REGION
21	20 42 59.8	40.024 N	27.782 E	10 G		1.1	10	TURKEY
21	20 53 30.0	29.466 N	131.446 E	32 D	5.0	1.2	78	RYUKYU ISLANDS REGION
a 21	21 14 32.4	17.933 S	173.023 W	15 D	5.5 5.2	1.2	115	TONGA ISLANDS
21	22 09 37.2?	7.91 S	129.20 E	164 ?	4.4	1.3	8	BANDA SEA
21	22 09 55.6?	42.26 N	13.65 E	10 G		0.1	4	CENTRAL ITALY. MD 2.3 (SSO).
22	00 12 49.5	41.983 N	20.561 E	10 G		1.2	10	ALBANIA. ML 2.9 (SKO), 2.6 (TTG).
22	01 01 31.8	38.177 N	22.989 E	10 G		0.4	15	GREECE. ML 3.0 (ATH).
22	01 14 00.6	29.581 N	131.525 E	34 D	5.0 4.8	1.2	91	RYUKYU ISLANDS REGION
22	01 21 08.8*	29.374 N	131.617 E	33 N	4.5	1.0	16	RYUKYU ISLANDS REGION
22	02 30 40.7*	29.676 N	131.415 E	33 N	4.5	0.7	13	RYUKYU ISLANDS REGION
22	02 32 40.0*	6.865 S	129.492 E	161 *	4.9	1.3	24	BANDA SEA
22	03 17 38.0?	16.15 N	93.38 W	177 ?		1.2	7	CHIAPAS, MEXICO
22	03 32 02.2?	18.61 N	67.50 W	33 N		0.6	6	MONA PASSAGE
22	03 57 06.6	49.924 N	78.831 E	0 G	6.1 4.6	0.9	491	EASTERN KAZAKH SSR
22	04 42 56.5?	42.36 N	16.83 E	10 G		0.4	4	ADRIATIC SEA
22	05 19 30.0*	37.153 N	71.511 E	114 ?	4.2	1.5	12	AFGHANISTAN-USSR BORDER REGION
22	05 40 35.6	38.407 N	22.311 E	10 G		0.9	20	GREECE. MD 3.3 (ATH).
22	06 34 51.0*	41.608 N	20.125 E	10 G		1.2	9	ALBANIA. ML 2.8 (SKO).
22	07 11 53.5&	60.086 N	152.700 W	88			24	SOUTHERN ALASKA. <AGS-P>.
22	09 03 16.9&	62.128 N	148.075 W	44			37	CENTRAL ALASKA. <AGS-P>. ML 3.1 (PMR).
22	09 09 54.1?	16.34 N	61.14 W	33 N		0.1	4	LEEWARD ISLANDS. ML 2.3 (FDF).
22	09 30 56.0?	40.97 N	27.29 E	10 G		0.2	4	TURKEY
22	09 46 28.3?	39.33 N	21.51 E	10 G		0.8	8	GREECE
22	11 11 15.3&	61.412 N	150.958 W	64			33	SOUTHERN ALASKA. <AGS-P>.
22	11 24 35.3*	44.503 N	6.733 E	10 G		0.5	8	FRANCE. ML 2.7 (GEN).
22	11 58 33.7	44.540 N	6.862 E	10 G		0.6	47	FRANCE. ML 3.2 (GEN), 3.0 (LDG).
22	14 35 11.8?	35.48 N	21.55 E	33 N		1.3	8	MEDITERRANEAN SEA. ML 4.0 (ATH).
22	16 19 33.5*	7.526 S	128.406 E	166	4.7	1.1	22	BANDA SEA
22	17 01 13.3?	15.41 N	119.97 E	58 ?	4.2	0.3	5	LUZON, PHILIPPINE ISLANDS
22	17 21 49.0	44.555 N	6.877 E	10 G		0.4	36	FRANCE. ML 3.0 (GEN), 2.7 (LDG).
22	17 29 45.4	27.917 N	139.830 E	529	4.7	0.9	50	BONIN ISLANDS REGION. Felt (I JMA) an Chichi-shima.
22	18 43 29.5*	24.799 N	122.019 E	5 G	4.1	1.1	10	TAIWAN REGION
22	19 15 22.3?	26.08 N	110.35 W	10 G	4.4	1.5	11	GULF OF CALIFORNIA
22	19 16 52.3&	46.416 N	121.273 W	3			63	WASHINGTON. <SEA>. CL 2.7 (SEA).
22	19 34 16.5%	44.523 N	6.755 E	10 G		0.3	8	FRANCE. ML 2.7 (GEN).
22	19 41 10.3	24.743 N	94.210 E	78 *	4.0	1.4	15	BURMA-INDIA BORDER REGION
22	20 21 52.2%	38.206 N	1.857 W	10 G		0.6	5	SPAIN. MG 2.9 (MDD).
22	20 31 05.6%	44.484 N	6.592 E	10 G		0.7	8	FRANCE. ML 2.6 (GEN).
22	20 34 01.1*	5.960 S	102.455 E	33 N	4.8 4.2	1.2	16	SOUTHERN SUMATERA

22	20 59 09.6	40.500 N	125.600 W	5 G			6	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.1 (BRK)
22	21 02 17.6	44.529 N	6.790 E	10 G		0.2	7	FRANCE. ML 2.8 (GEN).
22	22 04 18.5	40.14 N	29.26 E	10 G		1.6	5	TURKEY
a 22	22 20 17.9	41.066 N	144.282 E	25 G	6.0 6.3	0.8	473	HOKKAIDO, JAPAN REGION. Ms 5.8 (BRK), 5.7 (PAS). Felt (III JMA) at Hiroo, Urakawa and Obihiro; (II JMA) at Tomakomai; (I JMA) at Nemuro and Asahikawa. Depth from broadband displacement seismograms.
22	22 39 00.6	44.84 N	9.74 E	10 G		0.2	4	NORTHERN ITALY
22	22 48 37.7	41.840 N	144.269 E	33 N	5.0	1.0	85	HOKKAIDO, JAPAN REGION
22	23 02 07.1	38.465 N	68.694 E	33 N	5.3	0.9	205	TAJIK SSR. Two hundred seventy-four people killed, many injured, extensive damage (VII) and mudslides in the Gissar area. Nearly all the casualties were caused by mudslides which buried Sharora and two nearby villages. Felt (VI) at Gulkhani and Sarkishti; (V) at Dushanbe and Tursunzade; (IV) at Denau and Nurek.
22	23 24 14.8	41.725 N	144.487 E	41 ?	4.7	0.9	25	HOKKAIDO, JAPAN REGION
22	23 55 13.1	18.299 N	94.123 E	33 N	5.2	0.9	8	BURMA
23	00 53 59.1	41.635 N	144.459 E	39 *	4.5	0.8	16	HOKKAIDO, JAPAN REGION
23	01 00 37.2	60.090 N	152.824 W	96			9	SOUTHERN ALASKA. <AGS-P>.
23	02 28 27.0	43.033 N	13.493 E	10 G		0.6	5	CENTRAL ITALY. MD 3.0 (SSO).
23	02 29 05.5	43.041 N	13.549 E	10 G		1.3	10	CENTRAL ITALY. MD 3.0 (SSO).
23	02 59 18.9	44.510 N	6.738 E	10 G		0.3	5	FRANCE. ML 2.5 (GEN).
23	03 06 20.7	18.215 N	96.040 E	33 N	4.4	0.9	13	BURMA
23	04 23 45.3	62.288 N	152.053 W	110			7	CENTRAL ALASKA. <AGS-P>.
23	05 35 29.6	43.535 N	15.816 E	28		1.1	19	ADRIATIC SEA. ML 3.4 (KBA), 3.3 (ZAG). MD 3.4 (TRI). Felt (IV) in the Primosten area.
23	05 54 57.4	44.543 N	6.870 E	10 G		0.5	35	FRANCE. ML 3.0 (GEN), 2.8 (LDG).
23	06 19 11.5	36.186 N	31.274 E	10 G		1.1	7	TURKEY
23	06 52 06.3	63.050 N	149.230 W	81			6	CENTRAL ALASKA. <AGS-P>.
a 23	07 36 57.9	5.609 S	102.795 E	39 D	5.4 5.2	1.1	77	SOUTHERN SUMATERA
23	08 11 01.2	50.781 N	19.265 E	10 G		1.4	6	POLAND. ML 3.0 (VKA), 3.4 (KBA).
23	08 20 38.8	16.32 S	28.38 E	10 G		0.2	4	ZAMBIA. MG 2.9 (BUL).
23	08 22 53.5	37.079 N	15.532 E	28 *		1.1	9	SICILY
23	08 44 25.6	41.47 N	144.66 E	33 N	3.7	1.4	8	HOKKAIDO, JAPAN REGION
23	09 27 21.3	38.793 N	21.071 E	10 G		1.1	7	GREECE. ML 3.6 (ATH).
23	10 23 22.9	44.094 N	10.631 E	20		1.0	26	NORTHERN ITALY. MD 3.3 (TRI), 2.9 (FIR). ML 3.2 (LDG).
23	10 24 08.1	39.332 N	28.271 E	10 G		0.9	8	TURKEY
23	10 36 51.4	15.438 N	94.794 W	61 *		0.6	8	NEAR COAST OF OAXACA, MEXICO
23	10 51 33.8	36.115 N	140.122 E	67 ?		0.8	9	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Kumagaya and Utsunomiya.
a 23	11 17 49.0	5.608 S	151.788 E	38	5.3 4.8	0.9	92	NEW BRITAIN REGION
23	12 17 19.3	38.431 N	27.747 E	10 G		0.8	8	TURKEY
23	14 06 27.1	61.949 N	4.504 E	33	5.2 4.9	1.0	135	SOUTHERN NORWAY. ML 5.2 (NAO). Felt strongly in the epicentral area.
23	14 08 32.0	44.543 N	6.836 E	5		0.4	28	FRANCE. ML 3.0 (GEN), 2.8 (LDG).
23	14 13 35.9	22.509 S	176.300 W	33 N	5.3	1.0	17	SOUTH OF FIJI ISLANDS
23	14 29 13.4	33.970 N	116.290 W	3			7	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
23	14 42 46.7	42.772 N	19.150 E	10 G		0.4	7	YUGOSLAVIA. MD 2.3 (TTG).
23	16 24 29.1	15.989 N	120.931 E	33 N	4.3	1.4	6	LUZON, PHILIPPINE ISLANDS
23	16 40 29.9	61.841 N	4.863 E	10 G		1.2	10	SOUTHERN NORWAY. MD 2.8 (BER).
23	17 18 59.1	50.99 N	179.18 E	33 N	4.8	1.4	14	RAT ISLANDS, ALEUTIAN ISLANDS
23	17 20 22.8	39.125 N	28.168 E	10 G		1.0	6	TURKEY
23	17 24 25.2	18.061 N	68.374 W	101 *	4.5	0.9	35	MONA PASSAGE. Felt at Mayaguez, Puerto Rico.
23	17 34 41.2	26.864 N	110.064 W	10 G	3.9	1.0	10	GULF OF CALIFORNIA
23	19 01 44.5	5.596 S	151.846 E	47 *	4.4	1.2	9	NEW BRITAIN REGION
23	19 07 07.9	25.309 N	124.276 E	33 N	4.6	1.0	12	NORTHEAST OF TAIWAN
23	19 34 40.7	46.383 N	13.547 E	5 G		1.1	15	AUSTRIA. ML 2.3 (KBA), 3.1 (VKA). MD 2.7 (TRI), 2.9 (LJU).
23	21 25 00.1	42.263 N	13.589 E	10 G		0.7	11	CENTRAL ITALY
23	21 38 09.5	61.565 N	5.169 E	33 N		1.6	9	SOUTHERN NORWAY. MD 2.8 (BER).
23	22 11 31.8	37.402 N	21.216 E	38 ?		1.2	16	SOUTHERN GREECE. ML 3.4 (ATH).
23	23 34 45.8	29.355 S	71.716 W	33 N		1.2	14	NEAR COAST OF CENTRAL CHILE
a 24	04 00 29.6	54.763 S	26.660 W	33 N	5.4 5.1	0.8	71	SOUTH SANDWICH ISLANDS REGION
24	04 37 16.9	49.871 N	153.742 E	33 N	4.7	0.6	27	KURIL ISLANDS
a 24	04 49 12.6	27.327 N	128.362 E	68	5.3	0.9	95	RYUKYU ISLANDS. Felt (II JMA) at Naze and (I JMA) at Naha.
24	04 58 14.1	10.84 S	128.79 E	168 ?	4.6	0.6	6	TIMOR SEA
24	05 06 27.8	36.432 N	71.076 E	112 ?	4.3	0.7	13	AFGHANISTAN-USSR BORDER REGION
24	05 28 49.2	3.11 S	130.86 E	33 N	4.6	1.5	7	CERAM
24	05 47 08.2	44.56 S	78.56 W	10 G	4.6	1.3	14	OFF COAST OF SOUTHERN CHILE
24	07 21 25.0	40.332 N	123.522 W	21			14	NORTHERN CALIFORNIA. <BRK>. ML 3.1 (BRK). Felt (IV) at Miranda and (III) at Garberville, Phillipsville and Whitethorn.
24	08 03 43.0	42.370 N	20.109 E	10 G		0.8	9	YUGOSLAVIA. MD 2.5 (TTG).
24	08 34 42.6	28.923 N	142.451 E	37 D	4.9 4.5	1.0	68	BONIN ISLANDS REGION
24	08 37 04.5	44.395 N	7.315 E	10 G		0.4	11	NORTHERN ITALY. ML 2.5 (GEN).
24	09 08 23.5	46.876 N	15.204 E	10 G		0.9	7	YUGOSLAVIA. ML 2.9 (VKA), 2.6 (KBA). MD 2.9 (LJU), 2.8 (TRI). Felt (IV) in the Celje area.
24	09 50 17.3	42.301 N	20.279 E	10 G		0.8	7	YUGOSLAVIA. MD 2.5 (TTG).
24	09 56 09.9	40.656 N	15.716 E	10 G		0.4	4	SOUTHERN ITALY
24	09 59 16.4	39.07 N	27.65 E	10 G		0.3	6	TURKEY
24	10 07 33.2	32.51 S	71.93 W	10 G		0.9	9	NEAR COAST OF CENTRAL CHILE
24	10 32 03.2	22.881 N	99.611 E	33 N	4.5	1.1	12	BURMA-CHINA BORDER REGION. ML 4.3 (BJI).
24	10 34 54.3	32.788 S	70.454 W	33 N		1.4	6	CHILE-ARGENTINA BORDER REGION
24	10 52 41.0	44.470 N	6.660 E	10 G		0.4	7	FRANCE. ML 2.1 (GEN).
24	11 48 47.1	39.311 N	28.724 E	10 G		0.3	5	TURKEY
24	13 58 35.7	59.882 N	153.386 W	130			18	SOUTHERN ALASKA. <AGS-P>.
24	14 39 01.6	11.715 S	165.984 E	83 *	4.4	0.7	13	SANTA CRUZ ISLANDS
24	16 16 33.2	44.775 N	114.018 W	5 G		0.7	9	WESTERN IDAHO. ML 3.5 (BUT).
24	16 19 53.6	39.36 N	26.11 E	10 G		1.2	5	TURKEY
24	16 24 14.2	0.380 S	122.595 E	93 ?	4.4	1.3	13	MINAHASSA PENINSULA
24	18 57 39.8	31.445 N	35.685 E	10 G		0.4	6	DEAD SEA REGION
24	19 32 51.3	15.930 N	60.753 W	15 *		1.0	11	LEEWARD ISLANDS. ML 3.2 (FDF).

24	19 51 15.6	13.324 N	89.510 W	74	4.6	1.1	34	EL SALVADOR. Felt (III) at San Salvador.
24	19 55 58.57	35.10 N	30.95 E	10 G		1.6	5	EASTERN MEDITERRANEAN SEA
a 24	20 03 39.0	42.226 N	142.691 E	50	5.6 5.4	0.9	388	HOKKAIDO, JAPAN REGION. Minor damage (IV JMA) at Urakawa. Felt (III JMA) at Hirao, Obihiro, Iwamizawa and Tomakomai; (II JMA) at Kushiro, Sapporo and Muroran. Also felt (III JMA) at Hachinahe, (II JMA) at Miyako and Morioka and (I JMA) at Aomori, Honshu.
24	20 23 58.2*	42.257 N	143.047 E	52 *	4.4	1.1	19	HOKKAIDO, JAPAN REGION
24	20 26 37.37	50.38 N	18.85 E	10 G		0.8	5	POLAND. ML 3.4 (KRA).
24	21 15 27.3*	41.426 N	20.046 E	10 G		1.4	11	ALBANIA. ML 3.3 (SKO), 2.8 (TTG).
24	21 27 59.3*	41.544 N	20.254 E	10 G		1.1	6	ALBANIA. ML 2.5 (TTG).
24	22 53 57.0	43.406 N	5.438 E	10 G		0.8	17	NEAR SOUTH COAST OF FRANCE. MD 2.9 (STR).
24	23 24 24.4	8.568 N	82.831 W	31	4.7	0.8	28	PANAMA-COSTA RICA BORDER REGION. MD 4.7 (HDC). Minor damage (V) at Canoas, Costa Rica. Felt (V) at David, Panama; (III) at Perez Zeledon and in the Central Valley, Costa Rica.
24	23 26 34.87	35.35 N	21.57 E	33 N		1.1	6	MEDITERRANEAN SEA. ML 3.4 (ATH).
25	00 07 25.8*	41.460 N	20.088 E	10 G		1.1	9	ALBANIA. ML 3.0 (SKO). MD 3.1 (TTG).
25	01 33 06.77	47.46 N	152.34 E	33 N	4.8	0.2	9	KURIL ISLANDS
25	01 49 49.2*	36.262 N	29.500 E	10 G		0.7	5	TURKEY
25	01 55 40.5	43.982 N	8.607 E	10 G		1.0	28	CORSICA. ML 3.1 (GEN), 2.9 (LDG).
25	02 16 00.9	43.088 N	13.323 E	10 G		0.8	6	CENTRAL ITALY. MD 2.2 (SSO).
25	02 41 39.6	38.094 N	73.544 E	133 *	4.5	1.2	18	TAJIK-XINJIANG BORDER REGION
25	03 16 57.7	44.562 N	6.891 E	10 G		0.7	54	FRANCE. ML 3.1 (LDG), 3.2 (GEN). MD 2.7 (STR).
25	03 50 58.17	25.18 S	175.52 W	33 N	5.1 4.7	1.4	10	SOUTH OF TONGA ISLANDS
25	04 25 20.27	50.29 N	18.96 E	10 G		0.2	4	POLAND. ML 2.9 (KRA).
25	05 14 53.87	21.34 S	67.16 W	223 *		1.1	7	CHILE-BOLIVIA BORDER REGION
25	05 59 42.6*	44.515 N	6.771 E	10 G		0.5	6	FRANCE. ML 2.0 (GEN).
25	06 51 15.3	22.725 N	121.691 E	10	4.3	1.1	26	TAIWAN REGION
25	07 03 25.8*	63.540 N	150.054 W	147			16	CENTRAL ALASKA. <AGS-P>.
25	07 05 09.6*	6.001 S	149.002 E	72 ?	4.3	1.3	7	NEW BRITAIN REGION
25	07 12 47.57	23.98 S	69.94 W	33 N		1.4	4	NORTHERN CHILE. Felt (III) at Antofagasta.
25	07 18 10.17	9.24 S	120.40 E	218 ?	4.8	0.9	10	SUMBA ISLAND REGION
25	08 35 03.8*	43.415 N	5.434 E	10 G		0.6	13	NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).
25	09 30 56.9*	38.459 N	118.328 W	7			31	CALIFORNIA-NEVADA BORDER REGION. <REN>. MD 3.5 (REN).
25	10 03 48.8*	40.055 N	28.193 E	10 G		1.1	5	TURKEY
25	10 14 33.4	27.985 S	26.734 E	5 G	5.5 4.4	0.8	157	REPUBLIC OF SOUTH AFRICA. Minor damage in the Welkom area. Also felt by people in high-rise buildings at Durban.
25	10 18 36.9	41.796 N	144.290 E	24 ?	4.9 4.7	1.1	68	HOKKAIDO, JAPAN REGION
25	11 08 33.1*	32.990 N	131.397 E	120 ?		0.6	8	KYUSHU, JAPAN
25	12 17 37.3	44.554 N	6.882 E	10 G		0.4	35	FRANCE. ML 3.0 (GEN), 2.8 (LDG).
25	12 22 44.4*	44.53 N	6.77 E	10 G		0.6	5	FRANCE. ML 1.9 (GEN).
25	12 59 42.3	61.551 N	150.100 W	10 G		1.0	8	SOUTHERN ALASKA
25	14 39 28.4*	27.33 S	176.32 W	64 ?	4.6 4.0	0.9	10	KERMADEC ISLANDS REGION
25	14 57 19.5*	4.768 S	68.502 E	10 G	4.7	1.0	19	CHAGOS ARCHIPELAGO REGION
25	15 11 19.97	44.55 N	6.83 E	10 G		0.4	4	FRANCE. ML 2.1 (GEN).
25	16 07 53.77	44.53 N	6.75 E	10 G		0.8	4	FRANCE. ML 2.2 (GEN).
25	16 51 16.5*	63.782 N	149.073 W	127			13	CENTRAL ALASKA. <AGS-P>.
25	17 04 12.6*	46.680 N	121.686 W	4			52	WASHINGTON. <SEA>. CL 2.7 (SEA).
25	17 48 57.5*	36.589 N	138.244 E	10 G		0.5	5	HONSHU, JAPAN. MG 1.8 (JMA). Felt (I JMA) at Matsushiro.
25	19 09 31.7	42.156 N	13.636 E	10 G		0.8	12	CENTRAL ITALY. MD 3.3 (SSO).
25	21 28 49.5	43.391 N	5.417 E	10 G		0.6	22	NEAR SOUTH COAST OF FRANCE. MD 3.0 (STR).
25	22 47 33.8*	10.671 N	60.910 W	33 N		0.3	5	TRINIDAD
25	23 03 36.97	44.52 N	6.74 E	10 G		0.8	4	FRANCE. ML 2.1 (GEN).
26	01 17 00.77	5.70 S	147.24 E	228 ?	4.6	1.5	7	EAST PAPUA NEW GUINEA REGION
26	02 22 19.1	43.491 N	143.046 E	9		0.9	9	HOKKAIDO, JAPAN REGION
26	03 12 24.7	41.438 N	20.021 E	10 G		0.9	11	ALBANIA. ML 3.1 (SKO), 3.0 (TTG).
26	03 50 19.9	18.204 S	178.731 W	620 D	5.4	0.9	150	FIJI ISLANDS REGION
26	06 59 11.4*	58.775 N	143.051 W	10 G	4.5		32	GULF OF ALASKA. <AGS-P>. ML 4.1 (PMR).
26	07 02 49.87	26.49 S	179.32 W	487 ?	4.3	1.0	22	SOUTH OF FIJI ISLANDS
26	08 27 01.5*	46.347 N	153.851 E	33 N	4.8	0.8	31	KURIL ISLANDS
26	09 13 21.47	20.72 S	173.69 E	33 N	4.4	1.4	10	VANUATU ISLANDS REGION
26	09 16 38.17	17.93 S	178.96 W	599 ?	5.2	1.5	22	FIJI ISLANDS REGION
26	10 08 59.4	51.023 N	5.812 E	10 G		1.0	16	NETHERLANDS. ML 2.7 (BNS), 3.3 (LDG).
26	10 15 01.27	3.85 N	96.64 E	93 ?	4.3	0.4	5	NORTHERN SUMATERA
26	10 26 01.87	43.18 N	146.88 E	33 N	4.5	1.3	6	KURIL ISLANDS
26	10 42 56.1	47.022 N	16.989 E	10 G		0.9	28	AUSTRIA. ML 3.7 (VKA), 3.6 (KBA), 3.4 (ZAG). Felt in Ajka, Vas and Zala Counties, Hungary.
26	11 10 16.77	44.72 N	6.85 E	10 G		0.1	4	FRANCE. ML 2.2 (GEN).
a 26*	13 55 01.6	47.520 N	154.331 E	28 D	5.6 5.6	0.8	307	KURIL ISLANDS
26	14 40 02.27	44.55 N	6.84 E	10 G		0.5	4	FRANCE. ML 2.2 (GEN).
26	15 11 53.27	31.47 S	68.63 W	116 ?		0.3	5	SAN JUAN PROVINCE, ARGENTINA
26	15 15 16.2	40.165 N	19.540 E	60	4.3	1.1	83	ALBANIA. MD 4.3 (ATH). Felt (IV) at Dhermi, Himare, Dukat and Oepara and (III) at Vlore.
26	15 24 10.8*	60.178 N	153.023 W	123			25	SOUTHERN ALASKA. <AGS-P>.
26	16 26 50.0*	60.014 N	151.789 W	49			33	KENAI PENINSULA, ALASKA. <AGS-P>. ML 3.5 (PMR).
26	17 19 40.5*	9.895 S	119.029 E	33 N	4.1	0.9	8	SUMBA ISLAND REGION
26	17 37 57.5	47.584 N	6.971 E	10 G		1.4	9	FRANCE. ML 2.5 (LDG).
26	18 17 48.47	46.36 N	3.76 E	10 G		0.5	5	FRANCE. ML 1.6 (LDG).
26	18 22 29.5*	31.752 N	67.178 E	33 N	4.2	0.4	7	AFGHANISTAN
26	18 38 52.9	35.367 N	118.715 W	5 G		1.5	9	CENTRAL CALIFORNIA. ML 3.0 (NEIS).
26	19 48 16.3*	38.569 N	22.235 E	10 G		1.0	7	GREECE. MD 3.2 (ATH).
26	21 17 26.3*	2.369 N	126.754 E	104 ?	4.9	0.9	20	MOLUCCA PASSAGE
26	21 18 15.7	44.580 N	7.284 E	10 G		0.6	13	NORTHERN ITALY. ML 2.5 (GEN), 2.1 (LDG).
26	22 59 20.8*	36.162 N	21.810 E	33 N		1.2	12	SOUTHERN GREECE. ML 3.7 (ATH).
26	23 16 52.2*	52.795 N	170.728 W	33 N	4.7	0.9	17	FOX ISLANDS, ALEUTIAN ISLANDS
26	23 58 06.97	34.69 S	179.41 W	143 ?	4.7	1.0	16	SOUTH OF KERMADEC ISLANDS
27	00 19 10.5	39.999 N	27.833 E	10 G		1.1	12	TURKEY
27	00 47 27.9*	36.305 N	71.083 E	65 ?	4.7	1.6	9	AFGHANISTAN-USSR BORDER REGION
27	00 56 48.4	39.115 N	99.584 W	5 G		0.3	8	KANSAS. mbLg 2 6 (TUL). Felt at Palca.
27	00 59 20.2*	39.976 N	27.840 E	10 G		0.5	8	TURKEY

27	03 55 04.4	47.026 N	16.941 E	22	4.4	1.2	140	AUSTRIA. ML 4.6 (VIE), 4.3 (ZAG). MD 4.6 (KBA). Minor damage in Ajka, Vas and Zala Counties, Hungary.
27	06 23 52.8	61.170 S	153.625 E	10 G	4.6	0.8	14	BALLENY ISLANDS REGION
27	06 34 25.5	44.091 N	148.235 E	90 *	4.8	0.8	67	KURIL ISLANDS. Felt (I JMA) at Nemuro, Hokkaido.
27	06 54 53.0	15.58 N	97.11 W	33 N		1.5	5	NEAR COAST OF OAXACA, MEXICO
a	08 34 51.1	56.202 N	164.375 E	28 D	5.4 6.2	1.1	258	KOMANDORSKY ISLANDS REGION. Ms 6.3 (BRK), 5.8 (PAS).
27	08 58 14.3	43.403 N	5.431 E	10 G		0.9	15	NEAR SOUTH COAST OF FRANCE. MD 2.8 (STR).
27	09 08 47.3	5.144 S	145.444 E	116 *	4.2	1.1	11	EAST PAPUA NEW GUINEA REGION
27	09 20 13.5	62.329 N	148.832 W	40			22	CENTRAL ALASKA. <AGS-P>.
27	09 48 36.0	40.420 N	29.251 E	22	4.1	1.1	39	TURKEY. MD 3.8 (ATH). Felt at Istanbul.
27	10 27 57.7	47.130 N	17.018 E	10 G		1.3	12	HUNGARY. ML 3.1 (VKA), 2.8 (KBA).
27	10 37 54.6	39.10 N	27.65 E	10 G		1.3	4	TURKEY
27	11 01 44.9	40.365 N	29.273 E	10 G		0.7	10	TURKEY
27	11 03 30.7	30.988 N	78.655 E	33 N	3.7	1.1	7	NORTHERN INDIA. ML 4.1 (NDI).
27	12 47 58.5	46.040 N	118.700 W	10			17	WASHINGTON. <SEA>. CL 2.8 (SEA).
27	13 01 26.6	63.124 N	150.813 W	112 ?		0.9	10	CENTRAL ALASKA
27	14 28 11.1	33.180 N	27.907 E	54 *	3.9	1.0	14	EASTERN MEDITERRANEAN SEA
a	14 29 25.5	12.165 N	143.762 E	22	5.2 4.4	1.1	90	SOUTH OF MARIANA ISLANDS
27	14 39 05.7	15.11 N	57.72 E	10 G	4.8	1.3	13	ARABIAN SEA
27	14 44 03.8	12.347 N	143.699 E	17	5.1	1.1	48	SOUTH OF MARIANA ISLANDS
27	16 08 20.9	41.395 N	20.059 E	10 G		1.2	8	ALBANIA. ML 2.9 (TTG).
27	16 14 48.2	25.621 N	95.214 E	62 ?	4.3	0.8	11	BURMA-INDIA BORDER REGION
27	17 14 39.4	28.89 N	131.26 E	33 N	4.6	0.3	8	RYUKYU ISLANDS REGION
27	17 39 06.6	37.92 N	20.90 E	10 G		1.6	5	IONIAN SEA. MD 3.3 (ATH).
27	18 41 22.0	37.962 N	27.675 E	10 G		1.2	13	TURKEY. MD 3.5 (ATH).
27	18 57 39.7	39.627 N	26.193 E	10 G		1.3	7	TURKEY. MD 2.9 (ATH).
27	20 44 23.6	40.662 N	15.559 E	10 G		0.8	5	SOUTHERN ITALY
27	20 52 24.5	51.91 N	16.93 E	10 G		0.5	9	POLAND. ML 3.7 (VKA), 3.4 (KBA).
27	21 26 02.9	33.947 N	118.588 W	5 G		0.3	5	SOUTHERN CALIFORNIA. ML 3.1 (PAS). Felt in the Malibu area.
27	22 03 30.6	42.91 N	12.97 E	10 G		0.3	4	CENTRAL ITALY
27	22 52 26.6	16.98 N	62.40 W	33 N		0.7	4	LEEWARD ISLANDS
27	23 13 13.8	30.596 N	70.267 E	33 N	4.7	1.0	26	PAKISTAN
27	23 45 19.6	38.292 N	77.964 E	33 N		1.3	7	SOUTHERN XINJIANG, CHINA
27	23 48 57.3	36.327 N	4.768 W	10 G		1.4	6	STRAIT OF GIBRALTAR. MG 2.7 (MDD).
28	01 48 32.1	25.63 S	175.15 W	33 N	5.0 4.5	1.4	9	SOUTH OF TONGA ISLANDS
28	03 16 44.0	14.411 N	59.300 W	33 N		1.0	14	WINDWARD ISLANDS. ML 3.9 (FDF).
28	03 21 05.0	14.27 N	59.47 W	33 N		0.4	9	WINDWARD ISLANDS. ML 3.5 (FDF).
28	04 14 19.8	33.33 S	72.88 W	33 N		0.4	9	OFF COAST OF CENTRAL CHILE
28	04 39 21.2	39.775 N	26.553 E	10 G		0.9	5	TURKEY
28	05 27 16.0	40.017 N	23.909 E	10 G		1.2	24	GREECE. MD 3.5 (ATH).
28	07 00 48.1	33.655 S	70.659 W	33 N		1.5	8	CHILE-ARGENTINA BORDER REGION
a	07 26 55.4	33.257 N	141.484 E	53 D	5.3	1.2	114	OFF EAST COAST OF HONSHU, JAPAN
28	07 35 42.8	36.348 N	141.094 E	33 *	4.6	1.5	14	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Mito, (II JMA) at Utsunomiya and (I JMA) at Shirakawa.
28	09 25 31.1	19.852 S	70.409 W	117 ?		0.9	6	NEAR COAST OF NORTHERN CHILE
28	09 44 53.5	33.247 S	70.211 W	10 G	4.6	1.1	19	CHILE-ARGENTINA BORDER REGION
28	10 09 08.0	3.537 S	149.026 E	33 N	5.2	1.2	12	BISMARCK SEA
28	10 16 39.2	3.498 S	149.115 E	39 *	5.0	1.1	28	BISMARCK SEA
28	11 12 43.4	3.460 S	148.898 E	33 N	4.8	1.1	12	BISMARCK SEA
28	11 14 16.4	5.66 S	152.00 E	33 N	5.2	0.8	8	NEW BRITAIN REGION
28	11 56 38.9	33.079 S	69.039 W	10 G		0.7	11	CHILE-ARGENTINA BORDER REGION
28	12 03 29.3	3.379 S	149.362 E	33 N	4.8	0.9	11	BISMARCK SEA
28	12 25 32.6	58.986 N	153.856 W	104			32	KODIAK ISLAND REGION. <AGS-P>.
28	12 33 41.1	39.23 N	27.76 E	10 G		1.2	4	TURKEY
28	12 42 37.8	17.540 N	61.865 W	33 N		0.2	9	LEEWARD ISLANDS. ML 3.2 (FDF).
28	14 00 50.0	45.12 N	13.76 E	10 G		1.2	8	NORTHERN ITALY. MD 2.2 (TRI). ML 1.9 (KBA).
28	14 21 15.1	3.04 S	130.11 E	33 N	4.8	1.0	6	CERAM
28	15 28 39.5	41.943 N	20.093 E	13		1.1	61	ALBANIA. MD 3.6 (TTG).
28	15 34 42.9	6.295 S	104.808 E	82 *	4.8	0.9	29	SUNDA STRAIT
28	15 51 42.3	25.850 S	178.349 E	660 *	4.9	0.9	47	SOUTH OF FIJI ISLANDS
28	16 12 53.9	41.954 N	20.151 E	6		0.8	47	ALBANIA. MD 3.4 (TTG).
28	16 26 08.2	37.767 N	2.566 W	10 G		0.3	6	SPAIN. MG 2.6 (MDD). Felt (III) in the Galera area.
28	16 45 39.3	52.264 N	115.176 W	5 G			14	ALBERTA PROVINCE, CANADA. <PGC-P>. ML 3.4 (PGC).
28	16 59 12.9	59.435 N	153.027 W	88			30	SOUTHERN ALASKA. <AGS-P>.
28	17 15 07.4	60.262 N	152.678 W	101			27	SOUTHERN ALASKA. <AGS-P>.
28	18 31 58.2	40.138 N	28.273 E	10 G		1.1	8	TURKEY
28	19 33 13.2	61.280 N	150.686 W	50			29	SOUTHERN ALASKA. <AGS-P>.
28	19 49 42.6	45.199 N	7.707 E	10 G		0.4	6	NORTHERN ITALY. ML 2.4 (GEN).
a	19 54 39.1	10.796 S	166.009 E	113 *	4.9	0.7	65	SANTA CRUZ ISLANDS
28	21 27 53.8	9.10 N	121.74 E	33 N	4.9	1.4	11	SULU SEA
28	23 32 19.0	2.774 S	101.602 E	104 *	4.6	0.8	17	SOUTHERN SUMATERA
29	00 20 36.2	12.843 N	44.802 W	10 G	4.4 3.8	0.8	9	NORTH ATLANTIC RIDGE
29	01 37 18.5	6.914 N	72.883 W	135 ?	4.7	0.9	28	NORTHERN COLOMBIA
29	02 30 19.6	33.010 N	117.840 W	6 G			9	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
29	02 43 11.5	47.38 N	1.29 W	10 G		0.8	5	FRANCE. ML 2.4 (LDG).
29	02 55 36.4	38.540 N	27.682 E	7		1.0	8	TURKEY
29	03 27 01.9	10.450 N	63.899 W	55 *		0.8	14	NEAR COAST OF VENEZUELA
29	03 35 40.1	46.027 N	6.964 E	10 G		0.6	7	SWITZERLAND. ML 2.5 (LDG).
29	05 03 18.5	52.05 N	17.17 E	10 G		0.6	9	POLAND. ML 3.3 (VKA), 2.9 (KBA).
29	05 07 15.3	35.221 N	104.093 W	7 G			20	NEW MEXICO. <SNM>. MD 3.4 (SNM).
29	07 05 05.9	29.898 N	131.271 E	27 ?	4.4	1.0	34	RYUKYU ISLANDS REGION
29	07 17 48.3	40.993 N	140.058 E	163 *	4.5	0.8	40	HONSHU, JAPAN
29	07 30 32.1	37.664 N	15.291 E	10 G		1.0	12	SICILY. One person injured and minor damage in the Mt. Etna region.
29	08 27 35.4	40.382 N	29.220 E	10 G		0.6	8	TURKEY
29	09 38 36.2	21.09 S	68.03 W	33 N		1.1	5	CHILE-BOLIVIA BORDER REGION
29	09 49 10.8	39.084 N	27.644 E	10 G		0.5	5	TURKEY
29	12 29 20.7	40.364 N	126.817 W	10 G	4.3	1.0	13	OFF COAST OF NORTHERN CALIFORNIA
29	12 55 04.5	31.33 S	68.56 W	118 ?		0.5	5	SAN JUAN PROVINCE, ARGENTINA
29	13 23 14.8	29.326 N	113.896 E	33 N		1.6	6	EASTERN CHINA. ML 4.1 (BJI).
29	13 29 54.1	14.38 N	59.45 W	18 *		0.3	8	WINDWARD ISLANDS. ML 3.6 (FDF).
29	14 59 03.0	13.572 N	120.337 E	33 N	4.8	1.0	15	MINDORO, PHILIPPINE ISLANDS

29	15	20	22.2	43.228 N	0.343 W	10 G	1.3	16	PYRENEES. ML 3.5 (LDG). Felt (IV) in the Ossau Valley and (III) at Louvie Juzon and Lourdes, France.
29	15	26	24.3	37.756 N	19.830 E	26 4.1	1.0	23	IONIAN SEA. ML 4.0 (ATH).
29	16	38	18.0	59.438 N	5.952 E	10 G 4.8	0.9	80	SOUTHERN NORWAY. ML 4.6 (NAO). Felt.
a 29	17	34	48.8	44.558 N	148.746 E	50 D 5.2	0.8	195	KURIL ISLANDS. Felt (I JMA) at Urakawa, Hokkaido.
29	18	01	22.0	34.897 N	136.415 E	5 G	0.7	12	SOUTHERN HONSHU, JAPAN. MG 4.0 (JMA). Felt (II JMA) at Nagoya.
29	18	54	52.3%	40.371 N	29.232 E	10 G	1.1	6	TURKEY
29	19	14	18.3?	11.15 N	86.92 W	33 N	0.6	9	NEAR COAST OF NICARAGUA
29	19	45	07.5	22.845 N	98.329 E	33 N	0.8	9	BURMA-CHINA BORDER REGION
29	20	33	28.7%	39.331 N	29.297 E	10 G	1.5	8	TURKEY
29	21	40	07.8*	43.795 N	20.463 E	10 G	1.3	7	YUGOSLAVIA. MD 2.2 (TTG).
29	22	41	50.4	37.793 N	2.534 W	10 G	1.3	18	SPAIN. MG 3.7 (MDD). Felt (IV) in the Galera area.
29	23	15	59.3%	39.147 N	27.781 E	10 G	0.7	5	TURKEY
29	23	22	15.8?	31.49 N	35.61 E	10 G	0.7	6	DEAD SEA REGION
29	23	53	05.5*	7.013 S	129.749 E	133 * 4.5	1.3	18	BANDA SEA
30	00	52	29.7*	10.761 N	86.936 W	33 N 4.2	0.8	13	OFF COAST OF COSTA RICA
30	01	00	15.3%	59.656 N	152.660 W	84		22	SOUTHERN ALASKA. <AGS-P>.
30	02	28	04.4%	62.496 N	148.186 W	45		31	CENTRAL ALASKA. <AGS-P>. ML 3.3 (PMR).
30	03	51	02.4?	47.54 N	154.40 E	33 N 4.4	0.5	9	KURIL ISLANDS
30	04	03	07.7*	23.127 S	67.095 W	333 *	1.1	11	CHILE-ARGENTINA BORDER REGION
a 30	04	06	22.7%	38.824 N	111.614 W	24 5.0 4.8	149	149	UTAH. <SLC-P>. ML 5.4 (SLC). Slight damage (VI) at Aurara, Emery, Ferron, Koosharem, Salina, Sterling and Wales. Felt (V) at Axtell, Bicknell, Centerfield, Chester, Clawson, Cleveland, Elmo, Elsinore, Ephraim, Fairview, Fillmore, Glenwood, Hanksville, Hiawatha, Hinkley, Huntington, Junction, Loa, Lyman, Montic, Scipia, Sigurd, Spring City, Teasdale and Wellington. Felt strongly in much of Utah. Also felt in northern Arizona, western Colorado and southwestern Wyoming.
30	04	40	25.3	4.207 S	151.733 E	242 4.9	0.8	29	NEW BRITAIN REGION
30	05	48	49.6%	32.403 S	117.130 E	10 G	0.7	5	WESTERN AUSTRALIA
30	06	20	35.5	14.636 S	167.200 E	227 * 4.9	1.0	78	VANUATU ISLANDS
30	06	24	40.3?	29.37 S	71.15 W	33 N	0.7	7	NEAR COAST OF CENTRAL CHILE
30	06	27	08.5*	28.260 S	68.126 W	107 ?	1.3	12	LA RIOJA PROVINCE, ARGENTINA
30	07	45	44.5	7.882 N	72.070 W	40 5.4 4.5	0.8	241	NORTHERN COLOMBIA. Felt strongly in the states of Merida, Tachiro, Trujillo and Zulia, Venezuela.
30	07	48	30.4?	48.05 N	153.69 E	33 N 4.9	0.3	6	KURIL ISLANDS
30	08	38	41.4	30.809 S	71.307 W	96 * 4.8	0.9	18	NEAR COAST OF CENTRAL CHILE
30	09	26	14.6*	29.509 N	131.586 E	29 * 4.7	1.0	27	RYUKYU ISLANDS REGION
30	11	01	31.7%	63.607 N	149.684 W	131 4.8	43	43	CENTRAL ALASKA. <AGS-P>. Felt (III) at Palmer, Skwentna, Trapper Creek, Wasilla and Willow.
30	11	47	30.9%	45.928 N	111.568 W	0	18	18	MONTANA. <BUT>. CL 3.8 (BUT). Felt (IV) at Three Forks and (III) at Harrison, Manhattan and Willow Creek. Also felt sharply at Trident.
30	12	01	39.1*	34.346 N	139.117 E	10	0.8	13	NEAR S. COAST OF HONSHU, JAPAN. MG 3.9 (JMA). Felt (III JMA) on Nii-jima and (I JMA) on Oshima.
30	12	13	07.7*	9.365 S	119.143 E	33 N	1.2	6	SUMBA ISLAND REGION
30	12	33	00.7?	4.06 S	129.62 E	135 ? 4.9	0.4	7	BANDA SEA
30	13	03	36.5%	59.478 N	141.664 W	20		8	SOUTHEASTERN ALASKA. <AGS-P>.
30	13	22	12.4	6.950 S	129.514 E	167 * 4.8	1.2	26	BANDA SEA
30	13	35	20.5	6.860 S	155.541 E	69 4.3	0.7	14	SOLOMON ISLANDS. Felt (II) at Arawa, Bougainville.
30	13	41	08.6%	15.063 N	61.113 W	33 N	1.4	8	LEEWARD ISLANDS. ML 3.2 (FDF).
30	14	13	58.1?	58.06 N	6.30 E	0 G	0.6	6	SOUTHERN NORWAY. MD 2.4 (BER). Probable explosion.
30	16	09	28.0?	51.00 N	176.94 W	33 N 4.7	1.6	13	ANDREANOF ISLANDS, ALEUTIAN IS. ML 3.8 (PMR).
30	16	20	40.1?	46.70 N	153.48 E	33 N 4.7	0.7	8	KURIL ISLANDS
30	16	36	33.6	39.652 N	18.736 E	10 G	1.3	27	SOUTHERN ITALY. MD 3.8 (ATH). ML 3.5 (TTG).
30	17	12	41.0*	27.335 S	179.808 W	458 ? 4.8	1.0	38	KERMADEC ISLANDS REGION
30	17	52	21.1	3.115 N	123.196 E	495 * 4.6	1.0	27	CELEBES SEA
30	18	29	41.3%	33.880 N	118.470 W	3	8	8	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS). Felt in the Los Angeles area.
30	19	04	19.7*	44.362 N	7.336 E	10 G	0.5	5	NORTHERN ITALY. ML 2.0 (GEN).
30	20	15	27.1*	0.721 S	100.491 E	85 * 4.6	0.4	9	SOUTHERN SUMATRA
30	20	17	31.6%	37.554 N	118.462 W	11		8	CALIFORNIA-NEVADA BORDER REGION. <REN>. MD 2.9 (REN).
30	21	01	18.8*	60.463 S	152.893 E	10 G 4.5	1.1	12	WEST OF MACQUARIE ISLAND
30	21	01	59.8?	34.04 S	70.61 W	91 ?	0.2	10	CHILE-ARGENTINA BORDER REGION
30	21	33	06.7?	56.02 N	164.23 E	33 N 4.9	0.5	9	KOMANDORSKY ISLANDS REGION
30	22	34	46.4?	10.35 N	60.35 W	10 G	0.9	4	TRINIDAD
30	23	45	59.6?	37.59 N	1.65 W	10 G	1.1	4	SPAIN. MG 2.4 (MDD).
31	00	38	33.0%	35.100 N	119.090 W	29	30	30	CENTRAL CALIFORNIA. <PAS-P>. ML 3.4 (PAS), 3.5 (BRK).
a 31	00	46	18.6	6.142 S	149.005 E	60 * 5.4	1.2	77	NEW BRITAIN REGION
31	02	01	39.0?	5.92 S	149.09 E	33 N 4.7	1.5	5	NEW BRITAIN REGION
31	02	49	10.4	14.891 S	66.577 E	10 G 5.0	0.6	43	MID-INDIAN RISE
31	03	12	01.8*	24.545 N	124.359 E	60 ? 4.6	1.2	14	SOUTHWESTERN RYUKYU ISLANDS
31	03	31	02.3	4.944 S	152.729 E	55 * 4.6	1.1	24	NEW BRITAIN REGION
31	04	02	38.1?	6.56 S	147.54 E	33 N 4.5	1.4	5	EAST PAPUA NEW GUINEA REGION
31	04	56	37.7%	18.273 N	67.133 W	33 N	0.8	5	MONA PASSAGE
31	06	40	47.4%	59.979 N	141.506 W	12	29	29	SOUTHEASTERN ALASKA. <AGS-P>. ML 4.0 (PMR). Felt (IV) at Icy Bay.
a 31	07	08	29.7	14.645 S	66.461 E	10 G 5.4 5.2	0.8	169	MID-INDIAN RISE
31	07	39	59.7*	30.005 N	51.605 E	10 G 4.3	1.3	12	IRAN. Felt at Mamasani.
31	09	40	21.0%	48.117 N	0.655 W	10 G	1.0	7	FRANCE. ML 3.3 (LDG).
31	10	58	03.5%	39.133 N	27.562 E	10 G	1.3	5	TURKEY
31	11	05	17.0*	9.568 S	119.365 E	33 N 4.0	1.4	12	SUMBA ISLAND REGION
31	11	26	34.2*	16.886 N	147.091 E	33 N 4.6	0.9	15	MARIANA ISLANDS REGION
31	12	29	55.8*	20.830 S	169.754 E	113 * 4.8	1.0	45	VANUATU ISLANDS
31	13	17	34.3%	39.127 N	27.626 E	10 G	1.1	5	TURKEY
31	13	59	23.2%	61.390 N	147.514 W	17		35	SOUTHERN ALASKA. <AGS-P>. ML 3.3 (PMR).
31	14	15	21.8%	39.260 N	27.723 E	10 G	1.4	6	TURKEY
31	15	18	09.0	36.596 N	25.815 E	15 4.3	1.0	24	DODECANESE ISLANDS. ML 3.9 (ATH).
31	15	22	24.7?	43.40 N	5.46 E	10 G	0.7	6	NEAR SOUTH COAST OF FRANCE. ML 2.7 (STR).
31	16	21	29.0*	12.976 S	167.033 E	227 * 4.4	0.9	31	SANTA CRUZ ISLANDS
31	16	40	28.2	7.961 S	115.355 E	229 * 4.7	1.0	47	BALI SEA

0 31	17 39 24.1	22.178 N	107.292 W	10 G.	5.2 4.8	1.1	111	OFF COAST OF CENTRAL MEXICO. Ms 4.9 (BRK).
31	18 22 39.7	34.170 N	116.820 W	11			25	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS). Felt at Big Bear Lake and San Bernardino.
31	18 42 21.5	7.167 S	131.401 E	68 ?	4.3	1.3	13	TANIMBAR ISLANDS REGION
31	19 20 08.6	38.046 N	118.773 W	12			6	CALIFORNIA-NEVADA BORDER REGION. <REN>. MD 2.8 (REN).
31	21 31 38.2	3.038 S	130.956 E	33 N	4.2	1.3	13	CERAM
31	21 38 06.7	7.020 S	105.940 E	53 *	4.8	1.2	23	JAVA
31	22 14 32.9	6.56 S	148.14 E	62 *	4.4	1.0	10	NEW BRITAIN REGION
31	23 23 13.4	33.964 S	70.127 W	127 *	4.7	0.9	21	CHILE-ARGENTINA BORDER REGION
31	23 51 34.4	1.940 S	138.185 E	33 N	4.5	0.6	7	NEAR N. COAST OF WEST IRIAN

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

02 00 00 39.18 18.173S 178.412W 635km 5.2mb (29 obs.) FIJI ISLANDS REGION CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 9S, 18C Centroid Location: Origin Time 00:00:47.0 0.9 Lat 18.02S 0.08 Lon 178.53W 0.07 Dep 649.3 4.1 Half-duration 1.9 Principal Axes: Scale 10**17 Nm T Val= 1.54 Plg=10 Azm=345 N 0.06 23 79 P -1.60 65 232 Best Double Couple:Mo=1.6*10**17 NP1:Strike= 49 Dip=40 Slip=-127 NP2: 274 59 -63	MOMENT TENSOR SOLUTION Dep 16 No. of sta: 9 Principal Axes: Scale 10**17 Nm T Val= 7.87 Plg=27 Azm=237 N 0.16 31 344 P -8.03 47 114 Best Double Couple:Mo=7.9*10**17 NP1:Strike=279 Dip=34 Slip=-159 NP2: 171 79 -58 CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 9S, 22C Centroid Location: Origin Time 04:41:13.9 0.5 Lat 29.20N 0.04 Lon 130.99E 0.06 Dep 23.9 2.8 Half-duration 3.1 Principal Axes: Scale 10**17 Nm T Val= 5.63 Plg=11 Azm=283 N -0.12 8 15 P -5.51 76 142 Best Double Couple:Mo=5.6*10**17 NP1:Strike= 3 Dip=35 Slip=-105 NP2: 201 56 -80	Best Double Couple:Mo=1.1*10**17 NP1:Strike=346 Dip=39 Slip= 47 NP2: 217 63 119 06 19 04 06.33 46.768N 153.929E 48km 5.7mb (73 obs.) 5.5Msz (14 obs.) KURIL ISLANDS CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 12S, 28C Centroid Location: Origin Time 19:04: 5.5 0.5 Lat 46.73N 0.05 Lon 154.55E 0.07 Dep 15.0 BDY Half-duration 3.0 Principal Axes: Scale 10**17 Nm T Val= 5.32 Plg=78 Azm= 25 N 0.44 12 206 P -5.76 0 116 Best Double Couple:Mo=5.5*10**17 NP1:Strike=195 Dip=46 Slip= 74 NP2: 38 46 106
02 01 52 08.04 18.589S 174.559W 108km 6.1mb (53 obs.) TONGA ISLANDS FAULT PLANE SOLUTION: P-Waves NP1:Strike=245 Dip=72 Slip= -90 NP2: 65 18 -90 Principal Axes: T Plg=27 Azm=335 P 63 155 Comment: The focal mechanism is poorly controlled and corresponds to normal faulting. The preferred fault plane is NP1. RADIATED ENERGY No. of sta: 4 Focal mech. M Energy 1.1±0.4*10**13 Nm MOMENT TENSOR SOLUTION Dep 122 No. of sta: 11 Principal Axes: Scale 10**18 Nm T Val= 1.98 Plg=21 Azm=325 N 0.01 1 235 P -1.99 69 141 Best Double Couple:Mo=2.0*10**18 NP1:Strike= 5B Dip=24 Slip= -87 NP2: 234 66 -91 CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 15S, 35C Centroid Location: Origin Time 01:52:14.5 0.3 Lat 18.49S 0.03 Lon 174.39W 0.03 Dep 127.9 1.2 Half-duration 4.6 Principal Axes: Scale 10**18 Nm T Val= 1.97 Plg=29 Azm=338 N 0.09 9 243 P -2.06 59 138 Best Double Couple:Mo=2.0*10**18 NP1:Strike= 92 Dip=18 Slip= -60 NP2: 241 74 -99	03 16 52 19.22 35.626N 11.630E 10km 5.0mb (37 obs.) 4.7Msz (2 obs.) TUNISIA CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 9S, 13C Centroid Location: Origin Time 16:52:24.4 2.1 Lat 35.79N 0.17 Lon 11.80E 0.18 Dep 15.0 FIX Half-duration 1.5 Principal Axes: Scale 10**16 Nm T Val= 6.03 Plg= 0 Azm=202 N -1.18 90 180 P -4.85 0 112 Best Double Couple:Mo=5.4*10**16 NP1:Strike=247 Dip=90 Slip= 180 NP2: 337 90 0	06 19 08 27.37 36.399N 141.751E 43km 5.4mb (30 obs.) 5.8Msz (5 obs.) NEAR EAST COAST OF HONSHU, JAPAN CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 7S, 13C Centroid Location: Origin Time 19:08:25.8 1.0 Lat 36.37N FIX;Lon 141.80E FIX Dep 15.0 BDY Half-duration 2.6 Principal Axes: Scale 10**17 Nm T Val= 3.65 Plg=56 Azm=278 N 0.45 9 22 P -4.09 32 118 Best Double Couple:Mo=3.9*10**17 NP1:Strike=239 Dip=15 Slip= 128 NP2: 20 78 81
03 04 41 12.07 29.487N 131.433E 40km 5.8mb (89 obs.) 5.6Msz (7 obs.) RYUKYU ISLANDS REGION FAULT PLANE SOLUTION: P-Waves NP1:Strike=175 Dip=77 Slip= -90 NP2: 355 13 -90 Principal Axes: T Plg=32 Azm=265 P 58 85 Comment: The focal mechanism is poorly controlled and corresponds to normal faulting. The preferred fault plane is NP1. RADIATED ENERGY No. of sta: 3 Focal mech. F Energy 1.1±0.6*10**13 Nm	05 14 02 02.44 7.395S 128.881E 143km 5.1mb (20 obs.) BANDA SEA CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 9S, 18C Centroid Location: Origin Time 14:02: 5.9 2.6 Lat 7.55S 0.20 Lon 128.63E 0.17 Dep 150.8 3.6 Half-duration 1.5 Principal Axes: Scale 10**16 Nm T Val= 5.90 Plg=71 Azm=115 N -0.12 18 280 P -5.78 4 12 Best Double Couple:Mo=5.8*10**16 NP1:Strike=121 Dip=44 Slip= 117 NP2: 265 52 66	06 23 19 58.13 65.46 S 179.99 W 10km 5.1mb (1 obs.) 5.2Msz (2 obs.) SOUTH PACIFIC CORDILLERA CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 13S, 27C Centroid Location: Origin Time 23:20: 6.8 0.4 Lat 65.52S 0.05 Lon 179.94W 0.09 Dep 15.0 FIX Half-duration 2.7 Principal Axes: Scale 10**17 Nm T Val= 5.24 Plg= 0 Azm=187 N -0.95 90 180 P -4.29 0 97 Best Double Couple:Mo=4.8*10**17 NP1:Strike=232 Dip=90 Slip= 180 NP2: 322 90 0
	06 04 02 48.76 20.084N 121.405E 48km 5.0mb (31 obs.) 4.4Msz (4 obs.) PHILIPPINE ISLANDS REGION CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 6S, 15C Centroid Location: Origin Time 04:02:47.8 0.8 Lat 19.85N 0.11 Lon 121.00E 0.16 Dep 52.5 9.4 Half-duration 1.9 Principal Axes: Scale 10**16 Nm T Val= 11.31 Plg=61 Azm=172 N -0.49 26 23 P -10.83 13 286	07 07 26 11.46 23.258S 68.410W 122km 5.5mb (29 obs.) NORTHERN CHILE CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 13S, 25C Centroid Location: Origin Time 07:26:17.0 0.4 Lat 23.20S 0.04 Lon 68.51W 0.05 Dep 151.8 1.6 Half-duration 2.3 Principal Axes: Scale 10**17 Nm T Val= 3.19 Plg= 7 Azm= 41 N -0.83 32 307 P -2.36 57 142 Best Double Couple:Mo=2.8*10**17 NP1:Strike=162 Dip=47 Slip= -44 NP2: 285 59 -127

08 19 57 06.01 51.435N 174.880W 33km
5.7mb (79 obs.) 5.5Msz (20 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 29C
Centroid Location:
Origin Time 19:57:10.7 0.3
Lat 52.06N 0.04 Lon 174.97W 0.05
Dep 15.0 BDY Half-duration 3.7
Principal Axes:
Scale 10**17 Nm
T Val= 11.93 Plg=58 Azm=332
N 0.80 2 239
P -12.73 32 148
Best Double Couple:Mo=1.2*10**18
NP1:Strike=230 Dip=13 Slip= 81
NP2: 59 77 92

08 20 26 25.15 51.432N 174.799W 33km
5.1mb (49 obs.) 5.6Msz (2 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 21C
Centroid Location:
Origin Time 20:26:28.0 1.1
Lat 52.07N 0.13 Lon 174.84W 0.18
Dep 15.0 FIX Half-duration 1.8
Principal Axes:
Scale 10**17 Nm
T Val= 1.70 Plg=57 Azm=337
N -0.01 5 240
P -1.69 33 147
Best Double Couple:Mo=1.7*10**17
NP1:Strike=219 Dip=13 Slip= 69
NP2: 61 78 95

08 22 37 30.95 51.393N 174.758W 33km
5.6mb (70 obs.) 5.4Msz (21 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 24C
Centroid Location:
Origin Time 22:37:35.4 0.5
Lat 51.92N 0.06 Lon 174.61W 0.06
Dep 15.0 BDY Half-duration 2.8
Principal Axes:
Scale 10**17 Nm
T Val= 4.67 Plg=65 Azm=355
N 0.77 9 244
P -5.45 23 150
Best Double Couple:Mo=5.1*10**17
NP1:Strike=222 Dip=23 Slip= 66
NP2: 68 69 100

09 03 15 17.30 34.055N 138.893E 10km
5.1mb (20 obs.)
NEAR S. COAST OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 6S, 13C
Centroid Location:
Origin Time 03:15:15.3 1.4
Lat 34.42N 0.14 Lon 138.75E 0.16
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 4.35 Plg= 6 Azm=283
N 0.67 53 21
P -5.03 36 189
Best Double Couple:Mo=4.7*10**16
NP1:Strike=332 Dip=60 Slip=157
NP2: 230 70 -32

09 11 16 57.25 51.370N 174.765W 33km
5.2mb (52 obs.) 4.9Msz (7 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 21C
Centroid Location:
Origin Time 11:16:57.7 0.7
Lat 51.63N 0.07 Lon 175.06W 0.14
Dep 15.0 FIX Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 11.99 Plg=52 Azm=313
N -1.13 15 63
P -10.86 34 163
Best Double Couple:Mo=1.1*10**17
NP1:Strike=300 Dip=18 Slip= 148

NP2: 60 81 75
09 13 42 36.43 46.986N 153.479E 14km
6.0mb (63 obs.) 6.4Msz (23 obs.)
KURIL ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 37 Dip=82 Slip= 90
NP2: 217 8 90
Principal Axes:
T Plg=53 Azm=307
P 37 127
Comment: The focal mechanism is
poorly controlled and
corresponds to reverse
faulting. The preferred fault
plane is NP2.

RADIATED ENERGY
No. of sta: 6 Focal mech. F
Energy 9.3±2.5*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 12 No. of sta: 16
Principal Axes:
Scale 10**18 Nm
T Val= 5.63 Plg=48 Azm=328
N 0.06 38 180
P -5.69 16 77
Best Double Couple:Mo=5.7*10**18
NP1:Strike=126 Dip=44 Slip= 28
NP2: 15 71 131
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 29C M.W.: 11S, 25C
Centroid Location:
Origin Time 13:42:44.4 0.1
Lat 46.81N 0.01 Lon 154.05E 0.02
Dep 18.9 0.6 Half-duration 7.0
Principal Axes:
Scale 10**18 Nm
T Val= 5.69 Plg=80 Azm=331
N -0.09 4 215
P -5.60 9 124
Best Double Couple:Mo=5.6*10**18
NP1:Strike=209 Dip=36 Slip= 83
NP2: 38 54 95

10 05 55 01.45 3.162S 130.556E 47km
5.9mb (54 obs.) 6.5Msz (27 obs.)
CERAM
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=305 Dip=83 Slip= 90
NP2: 125 7 90
Principal Axes:
T Plg=52 Azm=215
P 38 35
Comment: The focal mechanism is
poorly controlled and
corresponds to reverse
faulting. The preferred fault
plane is NP2.

RADIATED ENERGY
No. of sta: 7 Focal mech. C
Energy 1.6±0.4*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 30 No. of sta: 13
Principal Axes:
Scale 10**18 Nm
T Val= 9.59 Plg=50 Azm=236
N 0.06 11 133
P -9.65 38 34
Best Double Couple:Mo=9.6*10**18
NP1:Strike= 75 Dip=13 Slip= 32
NP2: 314 83 101
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 42C M.W.: 13S, 28C
Centroid Location:
Origin Time 05:55: 4.1 0.2
Lat 2.97S 0.02 Lon 130.27E 0.02
Dep 28.7 0.9 Half-duration 7.8
Principal Axes:
Scale 10**18 Nm
T Val= 11.52 Plg=59 Azm=219
N 0.22 0 309
P -11.74 31 39
Best Double Couple:Mo=1.2*10**19
NP1:Strike=129 Dip=14 Slip= 90
NP2: 309 76 90

11 12 23 32.67 44.595N 129.720W 10km
4.8mb (17 obs.) 4.4Msz (1 obs.)
OFF COAST OF OREGON
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN

L.P.B.: 10S, 18C
Centroid Location:
Origin Time 12:23:32.8 1.2
Lat 44.45N 0.21 Lon 130.55W 0.13
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 5.66 Plg= 3 Azm=236
N -2.29 6 145
P -3.37 83 349
Best Double Couple:Mo=4.5*10**16
NP1:Strike=332 Dip=43 Slip= -81
NP2: 140 48 -98

11 13 30 07.53 46.486N 153.810E 33km
5.4mb (44 obs.) 5.1Msz (5 obs.)
KURIL ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 20C
Centroid Location:
Origin Time 13:30:10.9 0.4
Lat 46.81N 0.04 Lon 153.54E 0.07
Dep 15.0 FIX Half-duration 2.1
Principal Axes:
Scale 10**17 Nm
T Val= 1.97 Plg=69 Azm=320
N -0.02 7 211
P -1.95 20 118
Best Double Couple:Mo=2.0*10**17
NP1:Strike=196 Dip=26 Slip= 73
NP2: 34 65 98

11 22 28 03.60 12.602N 87.749W 81km
5.0mb (6 obs.)
NEAR COAST OF NICARAGUA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 17C
Centroid Location:
Origin Time 22:28: 9.2 1.9
Lat 12.46N 0.14 Lon 88.09W 0.14
Dep 62.9 7.1 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 6.76 Plg=31 Azm=116
N 2.12 55 325
P -8.88 14 214
Best Double Couple:Mo=7.8*10**16
NP1:Strike=259 Dip=58 Slip= 14
NP2: 162 78 147

12 02 55 35.91 46.467N 153.631E 33km
5.6mb (69 obs.) 4.9Msz (4 obs.)
KURIL ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 26C
Centroid Location:
Origin Time 02:55:36.3 0.8
Lat 46.35N 0.08 Lon 153.75E 0.10
Dep 15.0 FIX Half-duration 1.8
Principal Axes:
Scale 10**17 Nm
T Val= 1.17 Plg=73 Azm=305
N 0.26 4 201
P -1.42 16 110
Best Double Couple:Mo=1.3*10**17
NP1:Strike=194 Dip=29 Slip= 82
NP2: 23 61 95

12 06 28 34.82 59.459S 25.847W 33km
5.2mb (10 obs.)
SOUTH SANDWICH ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 20C
Centroid Location:
Origin Time 06:28:42.3 0.7
Lat 59.78S 0.15 Lon 25.60W 0.36
Dep 15.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Val= 11.04 Plg=43 Azm=116
N -1.05 15 12
P -9.99 43 267
Best Double Couple:Mo=1.1*10**17
NP1:Strike=281 Dip=15 Slip= -1
NP2: 12 90 -105

12 19 47 41.00 46.789N 153.896E 33km
5.6mb (63 obs.) 6.0Msz (19 obs.)
KURIL ISLANDS

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 36C
 Centroid Location:
 Origin Time 19:47:43.5 0.3
 Lat 47.00N 0.03 Lon 154.45E 0.04
 Dep 24.6 1.8 Half-duration 4.2
 Principal Axes:
 Scale 10**18 Nm
 T Val= 1.57 Plg=71 Azm= 9
 N 0.21 17 211
 P -1.78 7 119
 Best Double Couple:Mo=1.7*10**18
 NP1:Strike=191 Dip=41 Slip= 63
 NP2: 44 54 112

13 03 42 09.39 26.891S 176.395W 33km
 5.4mb (5 obs.)
 SOUTH OF FIJI ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 22C
 Centroid Location:
 Origin Time 03:42:16.6 1.0
 Lat 26.79S 0.10 Lon 176.57W 0.11
 Dep 15.0 FIX Half-duration 1.5
 Principal Axes:
 Scale 10**16 Nm
 T Val= 9.98 Plg=62 Azm=267
 N -2.53 2 0
 P -7.46 28 91
 Best Double Couple:Mo=8.7*10**16
 NP1:Strike=186 Dip=18 Slip= 96
 NP2: 0 73 88

13 08 11 32.25 6.761S 155.355E 74km
 5.5mb (21 obs.)
 SOLOMON ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 8S, 18C
 Centroid Location:
 Origin Time 08:11:36.1 0.5
 Lat 6.84S 0.06 Lon 155.14E 0.05
 Dep 25.9 3.7 Half-duration 2.3
 Principal Axes:
 Scale 10**17 Nm
 T Val= 2.89 Plg=53 Azm= 66
 N 0.35 10 323
 P -3.24 35 225
 Best Double Couple:Mo=3.1*10**17
 NP1:Strike=275 Dip=14 Slip= 41
 NP2: 144 81 100

13 15 59 53.43 15.368S 167.455E 138km
 5.3mb (16 obs.)
 VANUATU ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 10S, 21C
 Centroid Location:
 Origin Time 15:59:57.0 0.7
 Lat 15.24S 0.05 Lon 167.00E 0.06
 Dep 115.1 2.9 Half-duration 2.0
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.39 Plg=67 Azm=148
 N 0.31 18 12
 P -1.71 15 277
 Best Double Couple:Mo=1.6*10**17
 NP1:Strike=343 Dip=34 Slip= 57
 NP2: 201 62 110

13 18 01 56.59 46.477N 153.673E 33km
 5.7mb (67 obs.) 5.6Msz (15 obs.)
 KURIL ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 25C
 Centroid Location:
 Origin Time 18:01:58.3 0.3
 Lat 46.56N 0.03 Lon 154.22E 0.05
 Dep 15.0 BDY Half-duration 3.4
 Principal Axes:
 Scale 10**17 Nm
 T Val= 7.45 Plg=86 Azm=244
 N 0.59 3 30
 P -8.04 2 120
 Best Double Couple:Mo=7.7*10**17
 NP1:Strike=213 Dip=43 Slip= 95
 NP2: 27 47 86

5.6mb (27 obs.) 5.1Msz (5 obs.)
 TONGA ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 27C
 Centroid Location:
 Origin Time 00:50:42.9 0.4
 Lat 15.28S 0.06 Lon 173.61W 0.06
 Dep 33.0 FIX Half-duration 2.0
 Principal Axes:
 Scale 10**17 Nm
 T Val= 2.79 Plg=44 Azm=198
 N 0.17 13 301
 P -2.95 43 43
 Best Double Couple:Mo=2.9*10**17
 NP1:Strike=207 Dip=13 Slip= 177
 NP2: 300 89 77

14 04 21 12.09 46.410N 153.871E 39km
 5.3mb (49 obs.) 4.9Msz (5 obs.)
 KURIL ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 22C
 Centroid Location:
 Origin Time 04:21:12.5 0.6
 Lat 46.79N 0.06 Lon 154.42E 0.09
 Dep 15.0 BDY Half-duration 1.7
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.27 Plg=70 Azm= 61
 N -0.02 18 210
 P -1.26 10 303
 Best Double Couple:Mo=1.3*10**17
 NP1:Strike= 53 Dip=38 Slip= 119
 NP2: 198 57 69

15 01 27 46.35 31.733S 71.813W 50km
 5.2mb (24 obs.) 4.4Msz (1 obs.)
 NEAR COAST OF CENTRAL CHILE
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 21C
 Centroid Location:
 Origin Time 01:27:52.0 0.6
 Lat 31.69S FIX;Lon 71.72W FIX
 Dep 15.0 FIX Half-duration 1.5
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.66 Plg=54 Azm= 38
 N -0.13 4 134
 P -1.53 36 226
 Best Double Couple:Mo=1.6*10**17
 NP1:Strike=336 Dip=10 Slip= 113
 NP2: 133 81 86

16 07 24 21.06 41.438N 142.007E 76km
 5.2mb (53 obs.)
 HOKKAIDO, JAPAN REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 8S, 16C
 Centroid Location:
 Origin Time 07:24:21.9 1.2
 Lat 41.94N 0.15 Lon 141.69E 0.15
 Dep 51.211.6 Half-duration 1.5
 Principal Axes:
 Scale 10**16 Nm
 T Val= 5.09 Plg=68 Azm=274
 N -0.16 2 7
 P -4.92 22 98
 Best Double Couple:Mo=5.0*10**16
 NP1:Strike=191 Dip=23 Slip= 94
 NP2: 7 67 88

17 00 35 23.18 6.151S 148.947E 32km
 5.9mb (32 obs.) 6.4Msz (33 obs.)
 NEW BRITAIN REGION
 FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=135 Dip=70 Slip= 90
 NP2: 315 20 90
 Principal Axes:
 T Plg=65 Azm= 45
 P 25 225
 Comment: The focal mechanism is moderately well controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
 RADIATED ENERGY
 No. of sta: 6 Focal mech. F
 Energy 4.3±1.2*10**13 Nm
 MOMENT TENSOR SOLUTION

Dep 29 No. of sta: 10
 Principal Axes:
 Scale 10**18 Nm
 T Val= 5.25 Plg=60 Azm= 35
 N 0.03 1 303
 P -5.28 30 212
 Best Double Couple:Mo=5.3*10**18
 NP1:Strike=298 Dip=15 Slip= 86
 NP2: 123 75 91
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 40C M.W.: 14S, 36C
 Centroid Location:
 Origin Time 00:35:34.2 0.2
 Lat 6.28S 0.01 Lon 148.99E 0.01
 Dep 36.0 BDY Half-duration 6.3
 Principal Axes:
 Scale 10**18 Nm
 T Val= 4.88 Plg=68 Azm= 56
 N 0.31 15 285
 P -5.20 16 191
 Best Double Couple:Mo=5.0*10**18
 NP1:Strike=260 Dip=32 Slip= 61
 NP2: 113 63 107

17 11 20 43.54 5.468N 79.195W 10km
 5.0mb (17 obs.) 4.3Msz (2 obs.)
 SOUTH OF PANAMA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 27C
 Centroid Location:
 Origin Time 11:20:51.0 1.3
 Lat 5.93N 0.10 Lon 79.01W 0.09
 Dep 15.0 FIX Half-duration 1.5
 Principal Axes:
 Scale 10**16 Nm
 T Val= 5.71 Plg= 0 Azm=139
 N -0.56 90 180
 P -5.15 0 49
 Best Double Couple:Mo=5.4*10**16
 NP1:Strike=184 Dip=90 Slip= 180
 NP2: 274 90 0

18 13 53 07.75 21.532S 178.114W 367km
 4.9mb (28 obs.)
 FIJI ISLANDS REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 9S, 18C
 Centroid Location:
 Origin Time 13:53:17.6 1.0
 Lat 21.75S 0.15 Lon 178.25W 0.09
 Dep 425.5 4.6 Half-duration 1.5
 Principal Axes:
 Scale 10**16 Nm
 T Val= 6.47 Plg= 9 Azm=246
 N 0.08 18 153
 P -6.56 70 0
 Best Double Couple:Mo=6.5*10**16
 NP1:Strike=356 Dip=40 Slip= -60
 NP2: 140 56 -112

18 17 32 11.62 7.025S 74.598W 147km
 5.4mb (78 obs.)
 PERU-BRAZIL BORDER REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 24C
 Centroid Location:
 Origin Time 17:32:12.1 1.0
 Lat 7.34S 0.07 Lon 74.25W 0.08
 Dep 148.1 2.2 Half-duration 1.8
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.44 Plg= 2 Azm=299
 N -0.14 19 30
 P -1.30 71 205
 Best Double Couple:Mo=1.4*10**17
 NP1:Strike= 10 Dip=47 Slip=-117
 NP2: 227 50 -64

18 18 22 47.63 30.179N 100.215E 35km
 5.0mb (47 obs.)
 SICHUAN PROVINCE, CHINA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 9S, 17C
 Centroid Location:
 Origin Time 18:22:53.9 0.6
 Lat 29.88N 0.10 Lon 100.13E 0.19
 Dep 15.0 FIX Half-duration 1.6
 Principal Axes:

Scale 10**16 Nm
T Val= 6.92 Plg=15 Azm=347
N 1.54 46 240
P -8.46 40 90
Best Double Couple:Mo=7.7*10**16
NP1:Strike=120 Dip=50 Slip=-20
NP2: 223 75 -138

19 03 17 48.15 4.010S 105.707W 10km
5.4mb (20 obs.) 5.8Msz (11 obs.)
NORTHERN EASTER I. CORDILLERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 19S, 44C
Centroid Location:
Origin Time 03:17:54.7 0.3
Lat 4.59S 0.03 Lon 105.96W 0.03
Dep 15.0 FIX Half-duration 3.7
Principal Axes:
Scale 10**18 Nm
T Val= 1.12 Plg= 9 Azm=322
N 0.00 74 200
P -1.11 14 54
Best Double Couple:Mo=1.1*10**18
NP1:Strike= 97 Dip=74 Slip= -4
NP2: 188 87 -164

20 02 03 54.69 41.906S 79.930E 10km
5.3mb (7 obs.) 6.1Msz (4 obs.)
MID-INDIAN RISE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 36C
Centroid Location:
Origin Time 02:04: 2.4 0.3
Lat 41.69S 0.04 Lon 79.46E 0.05
Dep 15.0 FIX Half-duration 3.2
Principal Axes:
Scale 10**17 Nm
T Val= 7.62 Plg= 1 Azm=191
N 0.02 71 286
P -7.64 19 101
Best Double Couple:Mo=7.6*10**17
NP1:Strike=238 Dip=76 Slip=-168
NP2: 144 78 -15

20 02 15 58.24 41.670S 80.159E 10km
5.4mb (17 obs.) 5.9Msz (6 obs.)
MID-INDIAN RISE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 26C
Centroid Location:
Origin Time 02:16: 5.7 0.9
Lat 41.41S 0.11 Lon 80.41E 0.08
Dep 15.0 FIX Half-duration 3.2
Principal Axes:
Scale 10**17 Nm
T Val= 7.71 Plg= 0 Azm=182
N -0.75 90 180
P -6.97 0 92
Best Double Couple:Mo=7.3*10**17
NP1:Strike=227 Dip=90 Slip= 180
NP2: 317 90 0

20 17 26 38.83 11.544S 166.134E 74km
5.3mb (23 obs.)
SANTA CRUZ ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 29C
Centroid Location:
Origin Time 17:26:41.8 0.3
Lat 11.44S 0.03 Lon 165.72E 0.03
Dep 58.0 1.7 Half-duration 2.9
Principal Axes:
Scale 10**17 Nm
T Val= 4.71 Plg=80 Azm=279
N 0.83 3 172
P -5.55 9 82
Best Double Couple:Mo=5.1*10**17
NP1:Strike=168 Dip=36 Slip= 85
NP2: 354 54 94

21 02 52 20.37 38.147N 26.243W 10km
5.4mb (69 obs.) 5.1Msz (7 obs.)
AZORES ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 27C
Centroid Location:
Origin Time 02:52:25.2 0.5
Lat 37.92N 0.04 Lon 25.92W 0.06

Dep 15.0 FIX Half-duration 2.5
Principal Axes:
Scale 10**17 Nm
T Val= 3.56 Plg= 5 Azm= 39
N -0.23 2 309
P -3.33 85 195
Best Double Couple:Mo=3.4*10**17
NP1:Strike=131 Dip=41 Slip= -87
NP2: 307 50 -93

21 14 06 12.29 29.511N 131.512E 33km
5.4mb (64 obs.) 5.5Msz (2 obs.)
RYUKYU ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 20C
Centroid Location:
Origin Time 14:06:14.4 0.5
Lat 29.34N 0.06 Lon 131.11E 0.07
Dep 24.2 3.9 Half-duration 2.1
Principal Axes:
Scale 10**17 Nm
T Val= 1.96 Plg=11 Azm=286
N -0.20 19 192
P -1.76 68 44
Best Double Couple:Mo=1.9*10**17
NP1:Strike= 38 Dip=38 Slip= -59
NP2: 180 58 -112

21 17 37 37.50 29.513N 131.466E 32km
5.2mb (29 obs.)
RYUKYU ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 15C
Centroid Location:
Origin Time 17:37:39.5 1.1
Lat 29.20N 0.11 Lon 131.24E 0.15
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 6.54 Plg=16 Azm=292
N -0.32 18 28
P -6.23 65 163
Best Double Couple:Mo=6.4*10**16
NP1:Strike=357 Dip=33 Slip=-125
NP2: 217 64 -70

21 20 42 38.24 29.469N 131.470E 33km
5.4mb (44 obs.) 5.0Msz (2 obs.)
RYUKYU ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 21C
Centroid Location:
Origin Time 20:42:41.0 0.5
Lat 29.16N 0.07 Lon 130.92E 0.09
Dep 18.4 4.3 Half-duration 1.8
Principal Axes:
Scale 10**16 Nm
T Val= 10.77 Plg=31 Azm=310
N 0.74 4 42
P -11.51 58 139
Best Double Couple:Mo=1.1*10**17
NP1:Strike= 27 Dip=14 Slip=-106
NP2: 223 77 -86

21 21 14 32.45 17.933S 173.023W 15km
5.5mb (25 obs.) 5.2Msz (4 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 33C
Centroid Location:
Origin Time 21:14:38.2 0.4
Lat 18.12S 0.04 Lon 172.69W 0.04
Dep 15.0 FIX Half-duration 2.7
Principal Axes:
Scale 10**17 Nm
T Val= 3.49 Plg=75 Azm=296
N 0.27 2 198
P -3.76 15 108
Best Double Couple:Mo=3.6*10**17
NP1:Strike=195 Dip=30 Slip= 86
NP2: 19 60 92

22 22 20 17.97 41.806N 144.282E 25km
6.0mb (80 obs.) 6.3Msz (27 obs.)
HOKKAIDO, JAPAN REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 32 Dip=85 Slip= 90
NP2: 212 5 90
Principal Axes:

T Plg=50 Azm=302
P 40 122
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. M
Energy 4.1±0.9*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 21 No. of sta: 15
Principal Axes:
Scale 10**18 Nm
T Val= 2.05 Plg=51 Azm=277
N 0.34 17 29
P -2.39 34 131
Best Double Couple:Mo=2.2*10**18
NP1:Strike=269 Dip=19 Slip= 152
NP2: 26 81 73
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 33C M.W.: 10S, 16C
Centroid Location:
Origin Time 22:20:23.2 0.2
Lat 41.58N 0.02 Lon 144.26E 0.03
Dep 27.7 1.4 Half-duration 4.6
Principal Axes:
Scale 10**18 Nm
T Val= 2.05 Plg=56 Azm=268
N -0.05 15 21
P -2.00 30 120
Best Double Couple:Mo=2.0*10**18
NP1:Strike=248 Dip=20 Slip= 139
NP2: 17 77 75

23 07 36 57.92 5.609S 102.795E 39km
5.4mb (13 obs.) 5.2Msz (12 obs.)
SOUTHERN SUMATERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 24C
Centroid Location:
Origin Time 07:37: 2.5 1.1
Lat 6.14S 0.08 Lon 102.95E 0.12
Dep 15.0 FIX Half-duration 1.8
Principal Axes:
Scale 10**16 Nm
T Val= 10.14 Plg=64 Azm=327
N 1.84 18 97
P -11.98 19 194
Best Double Couple:Mo=1.1*10**17
NP1:Strike=310 Dip=31 Slip= 127
NP2: 89 66 71

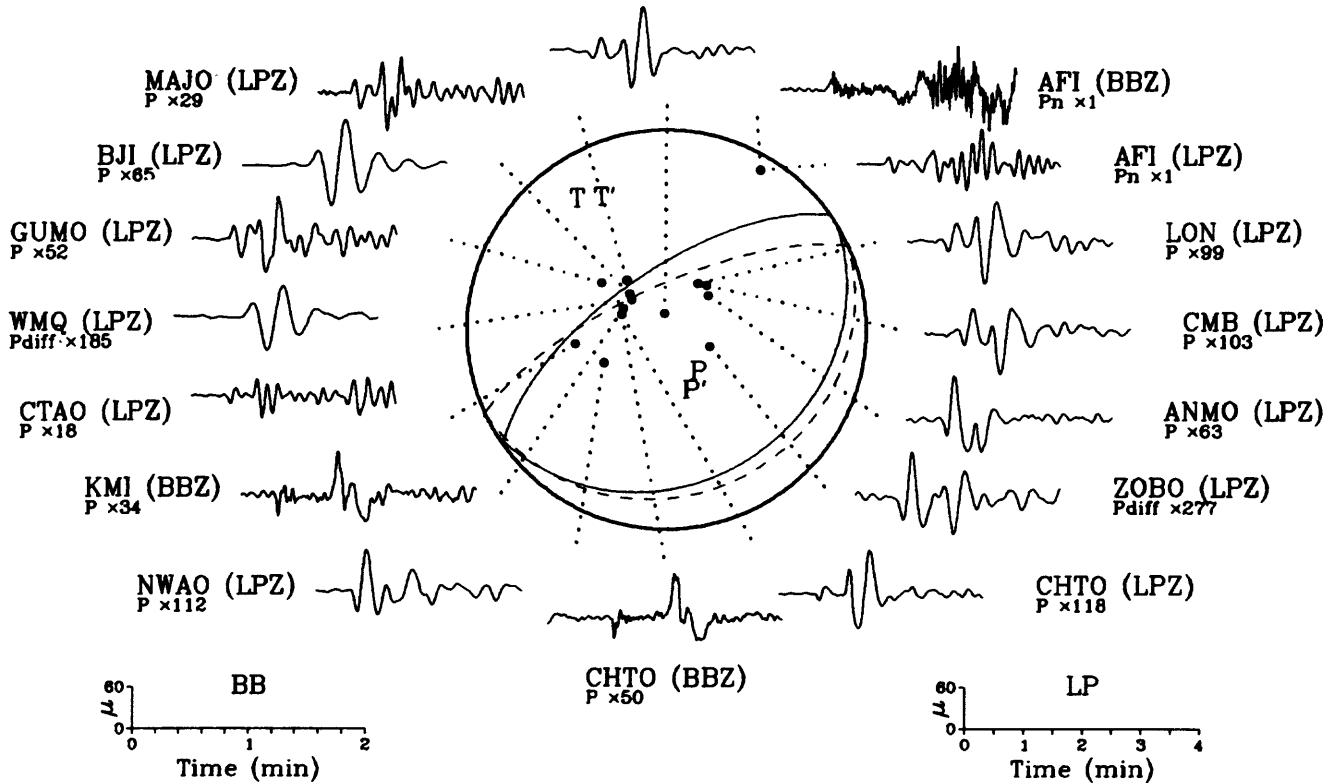
23 11 17 49.01 5.608S 151.788E 38km
5.3mb (19 obs.) 4.8Msz (3 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 27C
Centroid Location:
Origin Time 11:17:55.4 0.8
Lat 5.67S 0.08 Lon 152.16E 0.06
Dep 15.0 FIX Half-duration 1.8
Principal Axes:
Scale 10**16 Nm
T Val= 14.02 Plg=67 Azm=325
N 2.74 2 61
P -16.76 23 152
Best Double Couple:Mo=1.5*10**17
NP1:Strike=247 Dip=22 Slip= 96
NP2: 60 68 87

24 04 00 29.63 54.763S 26.660W 33km
5.4mb (10 obs.) 5.1Msz (2 obs.)
SOUTH SANDWICH ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 23C
Centroid Location:
Origin Time 04:00:31.9 0.6
Lat 55.12S 0.06 Lon 26.47W 0.17
Dep 15.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**17 Nm
T Val= 1.43 Plg=23 Azm=353
N -0.36 12 258
P -1.06 64 141
Best Double Couple:Mo=1.2*10**17
NP1:Strike=106 Dip=25 Slip= -59
NP2: 253 69 -103

24 04 49 12.61 27.327N 128.362E 68km 5.3mb (30 obs.) RYUKYU ISLANDS CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 9S, 15C Centroid Location: Origin Time 04:49:18.1 1.2 Lat 26.92N 0.13 Lon 128.79E 0.14 Dep 39.7 8.7 Half-duration 1.5 Principal Axes: Scale 10**16 Nm T Val= 6.27 Plg=53 Azm= 16 N -0.62 37 204 P -5.65 4 111 Best Double Couple:Mo=6.0*10**16 NP1:Strike=168 Dip=52 Slip= 41 NP2: 50 59 134	27 14 29 25.53 12.165N 143.762E 22km 5.2mb (26 obs.) 4.4Msz (3 obs.) SOUTH OF MARIANA ISLANDS CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 10S, 21C Centroid Location: Origin Time 14:29:31.7 0.9 Lat 12.11N 0.09 Lon 143.54E 0.08 Dep 15.0 FIX Half-duration 1.6 Principal Axes: Scale 10**16 Nm T Val= 6.87 Plg= 8 Azm= 66 N 0.83 34 331 P -7.70 55 168 Best Double Couple:Mo=7.3*10**16 NP1:Strike=189 Dip=47 Slip= -41 NP2: 309 61 -129	30 04 06 22.78 38.824N 111.614W 24km 5.0mb (25 obs.) 4.8Msz (2 obs.) UTAH CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 9S, 18C Centroid Location: Origin Time 04:06:32.7 1.0 Lat 39.29N 0.10 Lon 112.09W 0.08 Dep 24.0 FIX Half-duration 1.9 Principal Axes: Scale 10**16 Nm T Val= 11.76 Plg= 0 Azm=250 N -1.00 90 180 P -10.76 0 160 Best Double Couple:Mo=1.1*10**17 NP1:Strike=295 Dip=90 Slip= 180 NP2: 25 90 0
24 20 03 39.00 42.226N 142.691E 50km 5.6mb (77 obs.) 5.4Msz (12 obs.) HOKKAIDO, JAPAN REGION CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 11S, 24C Centroid Location: Origin Time 20:03:39.9 0.3 Lat 42.47N 0.03 Lon 142.01E 0.05 Dep 55.5 2.6 Half-duration 2.2 Principal Axes: Scale 10**17 Nm T Val= 2.03 Plg=60 Azm=105 N 0.22 28 305 P -2.25 8 210 Best Double Couple:Mo=2.1*10**17 NP1:Strike=271 Dip=44 Slip= 47 NP2: 143 59 124	28 07 26 55.46 33.257N 141.484E 53km 5.3mb (35 obs.) OFF EAST COAST OF HONSHU, JAPAN CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 11S, 24C Centroid Location: Origin Time 07:26:54.4 0.4 Lat 33.01N 0.05 Lon 141.86E 0.05 Dep 15.0 FIX Half-duration 2.3 Principal Axes: Scale 10**17 Nm T Val= 3.09 Plg=65 Azm=239 N 0.02 14 3 P -3.11 20 98 Best Double Couple:Mo=3.1*10**17 NP1:Strike=212 Dip=28 Slip= 122 NP2: 356 66 74	31 00 46 18.61 6.142S 149.005E 60km 5.4mb (15 obs.) NEW BRITAIN REGION CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 13S, 28C Centroid Location: Origin Time 00:46:22.6 0.5 Lat 6.37S 0.04 Lon 149.11E 0.05 Dep 37.6 3.3 Half-duration 2.2 Principal Axes: Scale 10**17 Nm T Val= 2.12 Plg=83 Azm= 25 N 0.40 2 278 P -2.52 6 187 Best Double Couple:Mo=2.3*10**17 NP1:Strike=275 Dip=39 Slip= 87 NP2: 99 52 93
26 13 55 01.63 47.520N 154.331E 28km 5.6mb (72 obs.) 5.6Msz (17 obs.) KURIL ISLANDS CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 14S, 30C Centroid Location: Origin Time 13:55: 8.0 0.4 Lat 47.66N 0.03 Lon 154.08E 0.05 Dep 37.8 2.1 Half-duration 3.2 Principal Axes: Scale 10**17 Nm T Val= 6.42 Plg=72 Azm=237 N 1.45 14 19 P -7.86 10 112 Best Double Couple:Mo=7.1*10**17 NP1:Strike=219 Dip=37 Slip= 114 NP2: 10 57 73	28 19 54 39.19 10.796S 166.009E 113km 4.9mb (10 obs.) SANTA CRUZ ISLANDS CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 11S, 19C Centroid Location: Origin Time 19:54:43.1 1.2 Lat 10.49S 0.10 Lon 165.23E 0.11 Dep 88.8 6.2 Half-duration 1.5 Principal Axes: Scale 10**16 Nm T Val= 6.66 Plg=57 Azm= 37 N -0.49 25 174 P -6.17 20 274 Best Double Couple:Mo=6.4*10**16 NP1:Strike= 39 Dip=34 Slip= 140 NP2: 164 69 63	31 07 08 29.77 14.645S 66.461E 10km 5.4mb (49 obs.) 5.2Msz (6 obs.) MID-INDIAN RISE CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 10S, 23C Centroid Location: Origin Time 07:08:28.3 2.4 Lat 14.77S 0.11 Lon 65.67E 0.20 Dep 15.0 FIX Half-duration 1.6 Principal Axes: Scale 10**16 Nm T Val= 8.38 Plg=64 Azm= 46 N 1.09 4 145 P -9.47 26 237 Best Double Couple:Mo=8.9*10**16 NP1:Strike=337 Dip=20 Slip= 102 NP2: 144 71 86
27 08 34 51.14 56.202N 164.375E 28km 5.4mb (53 obs.) 6.2Msz (29 obs.) KOMANDORSKY ISLANDS REGION CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 15S, 40C M.W.: 13S, 26C Centroid Location: Origin Time 08:34:56.7 0.1 Lat 56.54N 0.02 Lon 164.05E 0.02 Dep 23.5 1.3 Half-duration 5.3 Principal Axes: Scale 10**18 Nm T Val= 2.92 Plg= 4 Azm= 71 N -0.41 79 323 P -2.51 10 162 Best Double Couple:Mo=2.7*10**18 NP1:Strike=206 Dip=80 Slip= -5 NP2: 297 85 -170	29 17 34 48.81 44.558N 148.746E 50km 5.2mb (59 obs.) KURIL ISLANDS CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 11S, 21C Centroid Location: Origin Time 17:34:48.3 1.2 Lat 44.54N 0.13 Lon 148.81E 0.16 Dep 38.5 8.4 Half-duration 1.5 Principal Axes: Scale 10**16 Nm T Val= 4.93 Plg=75 Azm=201 N -1.09 15 2 P -3.84 5 94 Best Double Couple:Mo=4.4*10**16 NP1:Strike=199 Dip=42 Slip= 112 NP2: 350 51 71	31 17 39 24.10 22.178N 107.292W 10km 5.2mb (25 obs.) 4.8Msz (1 obs.) OFF COAST OF CENTRAL MEXICO CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 12S, 27C Centroid Location: Origin Time 17:39:28.1 0.8 Lat 22.26N 0.09 Lon 107.50W 0.08 Dep 15.0 FIX Half-duration 1.7 Principal Axes: Scale 10**17 Nm T Val= 1.21 Plg=16 Azm=233 N -0.12 73 29 P -1.10 6 141 Best Double Couple:Mo=1.2*10**17 NP1:Strike=276 Dip=74 Slip= 173 NP2: 8 84 16

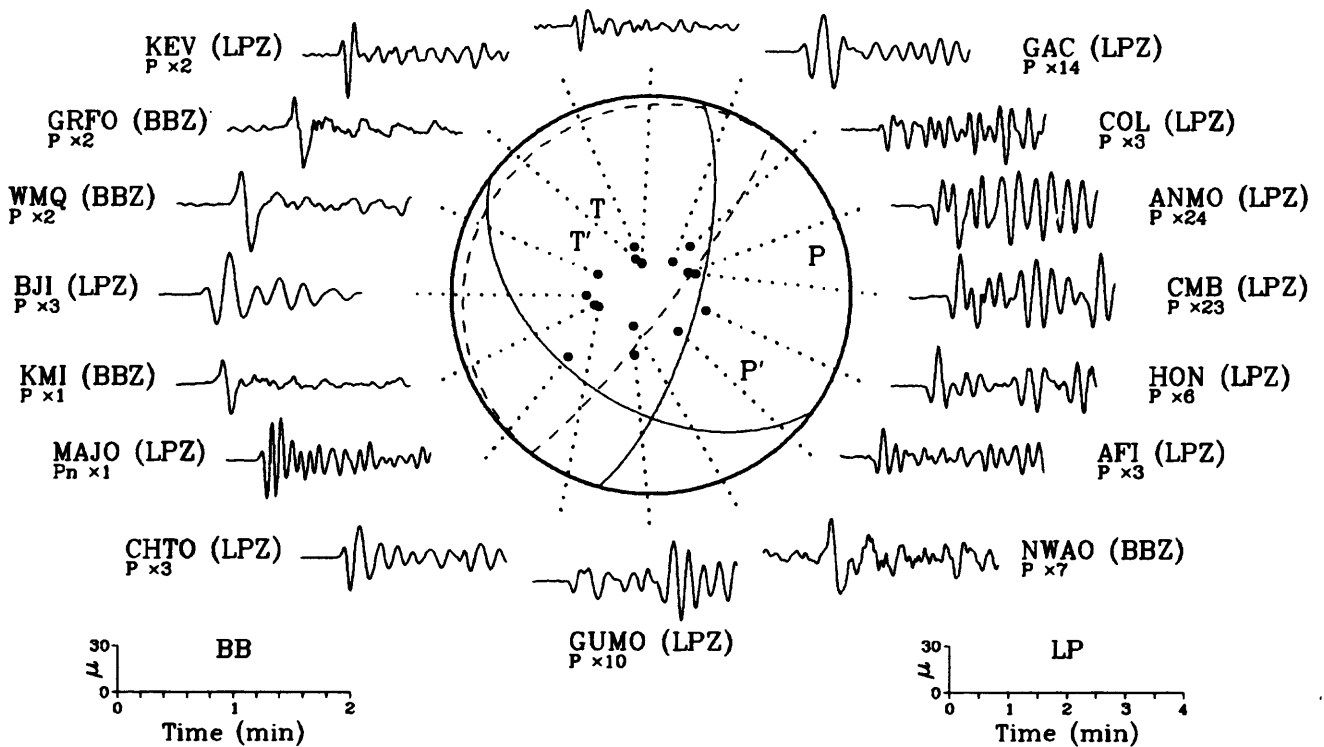
02 January 1989 01:52:08.04
Tonga Islands

GRFO (LPZ)
PKPdif x39



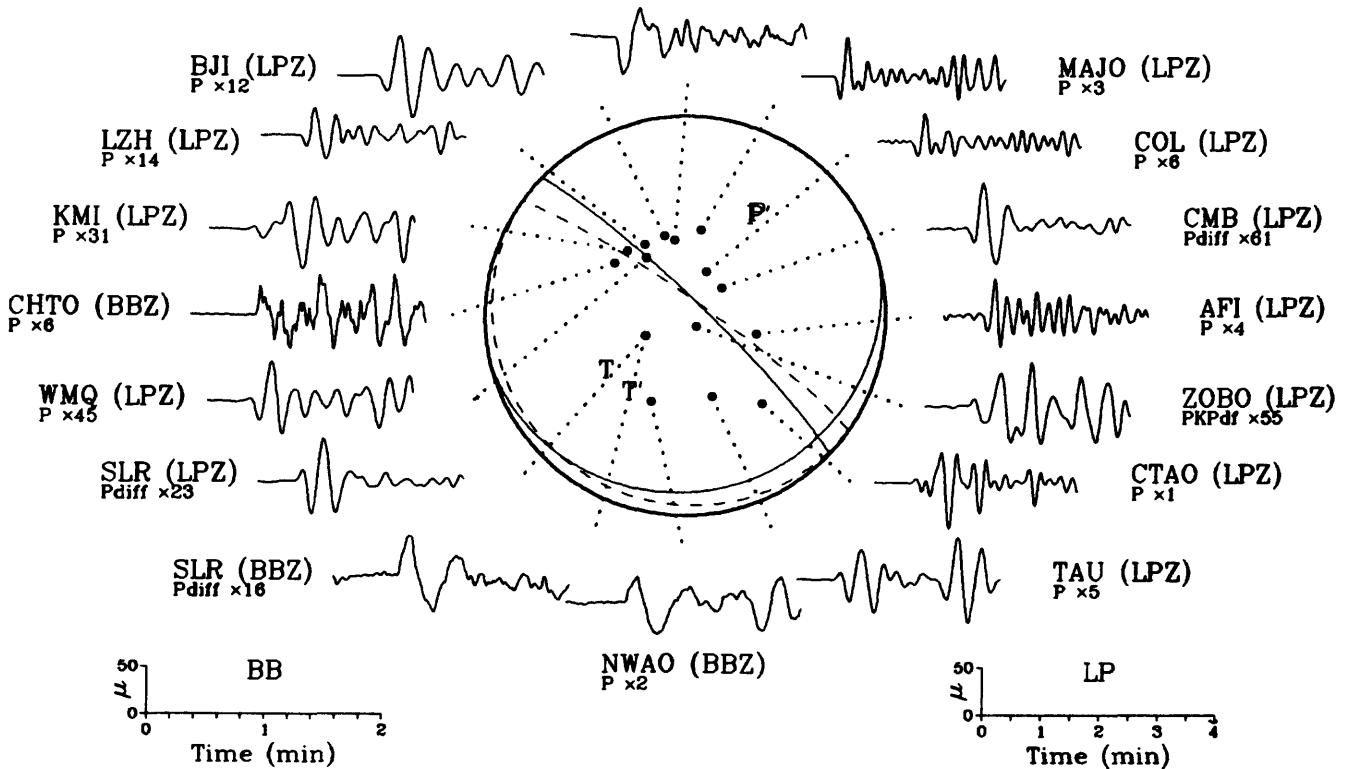
09 January 1989 13:42:36.43
Kuril Islands

TOL (LPZ)
P x3



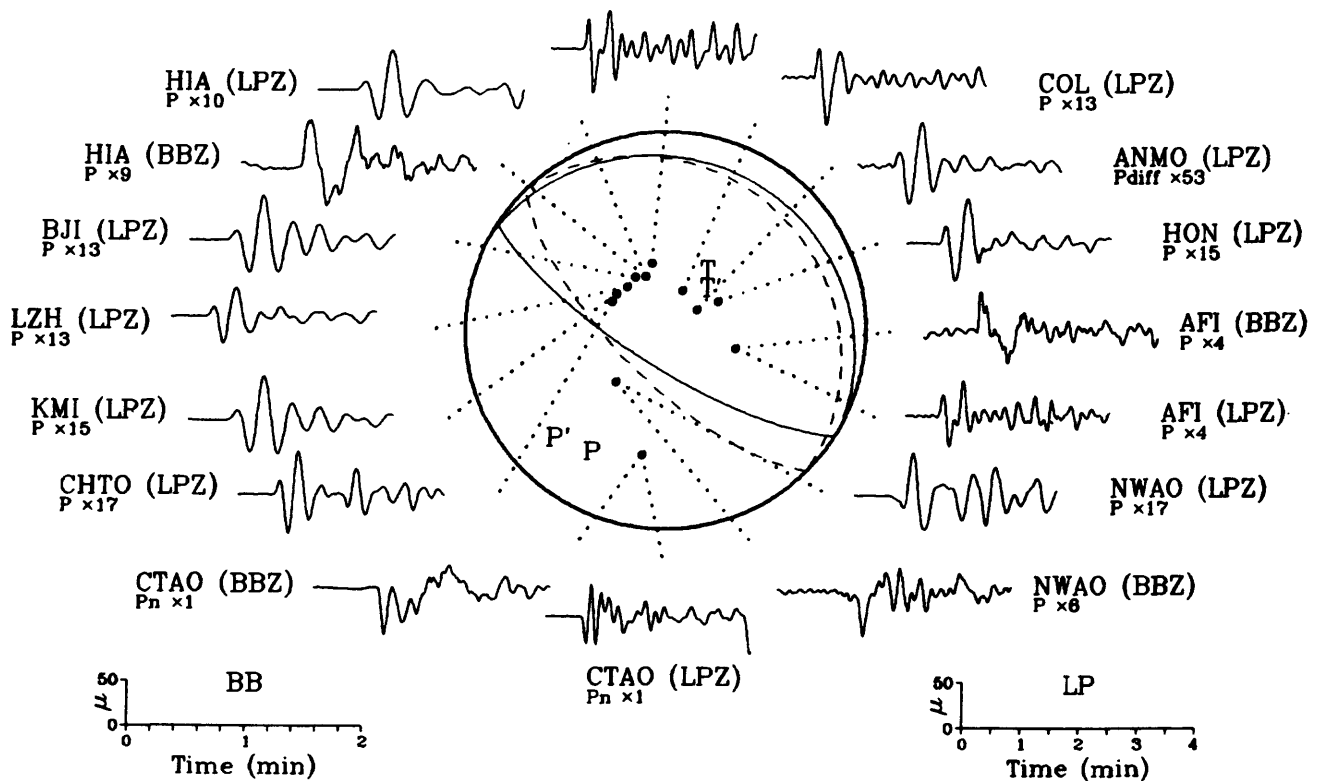
10 January 1989 05:55:01.45

Ceram

HIA (BBZ)
P x4

17 January 1989 00:35:23.18

New Britain Region

MAJO (LPZ)
P x6

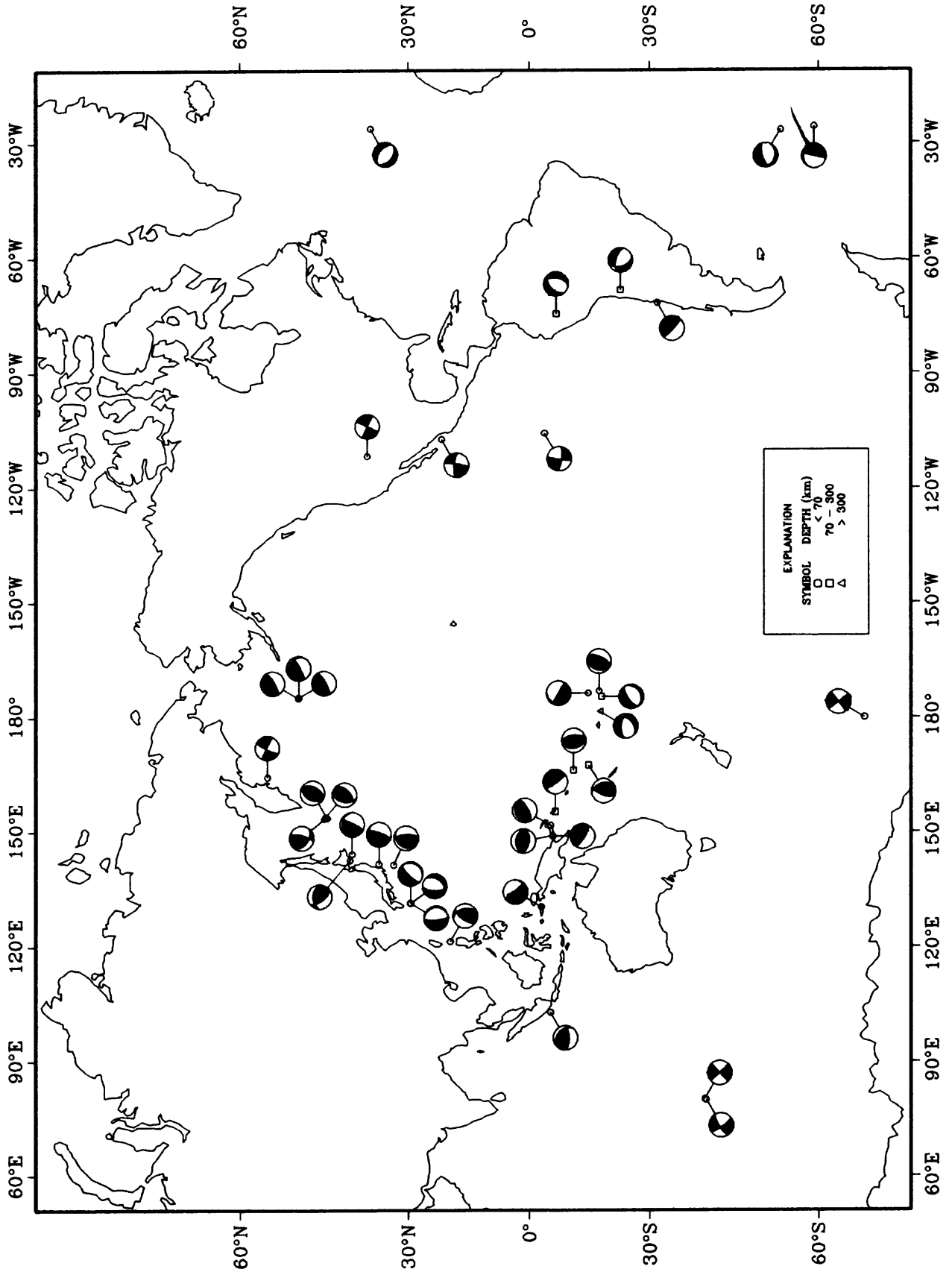
SIGNIFICANT EARTHQUAKES OF THE WORLD: 1988

Earthquakes of magnitude 6.5 or greater or ones that caused fatalities, injuries or substantial damage.
BRK--Berkeley PAS--Pasadena.

DATE	ORIGIN TIME UTC - HR MN SEC	GEOGRAPHIC COORDINATES LAT LONG	DEPTH	MAGNITUDES GS MB Msz	SD	NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
JAN 03	21 32 25.3	38.111 N 106.336 E	14 D	5.5	1.0	185	NORTHERN CHINA. ML 5.7 (BJI). Approximately 60 people injured, more than 10,000 houses collapsed or damaged and 16 farm animals killed in the Lingwu area. Sandblows also occurred in the area.
JAN 05	06 41 16.9	26.807 S 26.639 E	5 G	5.2	1.1	21	REPUBLIC OF SOUTH AFRICA. At least 8 people killed at the Vool Reefs gold mine.
JAN 09	01 02 46.7	41.246 N 19.630 E	24 D	5.3 5.8	1.3	323	ALBANIA. ML 5.5 (TTG), 5.1 (ATH). Some people injured and 188 buildings damaged (VII) in the Tirana area. Felt throughout Albania. Felt (VI) in the Ulcinj-Bar area; (V) in the Petrovac-Katar-Titograd area and in western Macedonia; (IV) in northern Montenegro and southern Serbia, Yugoslavia.
JAN 12	07 29 27.9	28.827 S 177.423 W	15 D	6.1 6.4	1.1	373	KERMADEC ISLANDS REGION. Ms 6.7 (BRK). Felt on Rooul.
JAN 19	07 30 31.8	24.710 S 70.568 W	33 N	6.3 6.7	1.3	296	NEAR COAST OF NORTHERN CHILE. Ms 6.4 (BRK). Felt (V) at Antofagasta and Taltal; (IV) at Colama, Chanaral and Copiapo; (III) at Tacapilla.
JAN 22	00 35 58.0	19.847 S 133.803 E	5 G	6.1 6.3	1.0	270	NORTHERN TERRITORY, AUSTRALIA. Ms 6.4 (BRK). Damage in the Tennant Creek area.
JAN 22	03 57 25.2	19.798 S 133.910 E	5 G	6.1 6.4	1.0	309	NORTHERN TERRITORY, AUSTRALIA. Ms 6.6 (BRK). Damage in the Tennant Creek area.
JAN 22	12 04 57.8	19.829 S 133.882 E	5 G	6.5 6.7	1.1	344	NORTHERN TERRITORY, AUSTRALIA. Ms 6.9 (BRK). Damage in the Tennant Creek area. Felt over two-thirds of Australia. According to preliminary reports from the Australian Bureau of Mineral Resources, Geology and Geophysics, two fault scarps about 8 km. apart striking approximately east-southeast were observed in the epicentral area. The southernmost scarp was about 15 km. long with a maximum throw of about one meter.
FEB 05	14 01 02.7	24.753 S 70.433 W	37 D	6.2 6.7	1.1	313	NEAR COAST OF NORTHERN CHILE. Ms 6.7 (PAS), 6.6 (BRK). Minor damage (VI) in the Taltal area; felt (VI) at Antofagasta; (V) at Mejillones, Colama, Copiapo and Chanaral; (III) at Caldera. Also felt at La Serena. A tsunami with a maximum amplitude of 12 cm. peak to trough was recorded at Caldera.
FEB 06	14 50 45.2	24.688 N 91.570 E	33 N	5.8 5.8	1.2	309	INDIA-BANGLADESH BORDER REGION. Two people killed, at least 100 injured and damage in the Sylhet, Bangladesh area. Felt throughout Bangladesh. Felt strongly in the Tripura-Assam, India area. Also felt at Guwahati and Shillong, India.
FEB 11	15 25 55.6	34.080 N 118.050 W	12	4.8		54	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.7 (PAS), 4.8 (BRK). One person died from a heart attack. Some minor injuries and damage (VI) in the Whittier area. Felt (V) at Alhambra, Arcadio, Azusa, Baldwin Park, Bell Gardens, Commerce, Downey, Fullerton, Glendale, Inglewood, La Mirada, La Puente, Los Angeles, Maywood, Montebello, Norwalk, Pasadena, San Gabriel and Vernon. Felt strongly in much of southern California.
FEB 24	03 52 03.2	13.477 N 124.616 E	25 D	6.0 7.0	1.0	453	LUZON, PHILIPPINE ISLANDS. Ms 7.1 (BRK), 6.9 (PAS). Slight damage (VI RF) at Virac. Felt (V RF) in the Naga-Legaspi-Catbalogan area and (III RF) at Cebu and Manila.
FEB 26	06 17 31.5	37.319 S 47.989 E	10 G	6.1 6.7	1.1	375	ATLANTIC-INDIAN RISE
FEB 29	05 31 41.4	55.149 N 167.430 E	33 N	6.1 6.8	1.1	446	KOMANDORSKY ISLANDS REGION. Ms 6.6 (PAS), 6.5 (BRK).
MAR 06	22 35 38.1	56.953 N 143.032 W	10 G	6.8 7.6		759	GULF OF ALASKA. <AGS-P>. ML 7.4 (PMR), Ms 7.5 (BRK). Felt (V) at Anchorage, Cordova, Glennallen, Gustavus, Homer, Juneau, Metlakatla, Pelican, Port Graham, Sitka and Valdez. Also felt (V) in some sections of Whitehorse, Yukon Territory, Canada. Felt (IV) at Kodiak, (III) at Craig and Ketchikan and (II) at King Salmon. Estimated 5,000 dollars damage caused to the ships "Exxon North Slope," "Exxon Boston" and "Exxon New Orleans" located at 57° 38' North, 142° 45' West. Tsunami generated with wave heights (peak to trough) 30 cm. at Yakutat, 12 cm. at Sitka and 8 cm. at Kodiak.
MAR 10	06 17 23.3	10.402 N 60.587 W	56 D	6.2 6.4	1.1	458	TRINIDAD. Ms 6.6 (BRK), 6.3 (PAS). Slight damage (VI) on Trinidad. Felt strongly throughout Trinidad, on offshore oil platforms and in northeastern Venezuela. Also felt in Guyana and on Tobago, Martinique, Grenada and St. Vincent. Felt as far away as Caracas, Venezuela.

DATE	ORIGIN TIME UTC HR MN SEC	GEOGRAPHIC COORDINATES LAT LONG	DEPTH	MAGNITUDES GS MB Msz	SD	NO STA USED	REGION	CONTRIBUTED MAGNITUDES	AND COMMENTS
MAR 17	20 34 29.2	35.633 N 139.619 E	103	5.4	1 1	325	NEAR S. COAST OF HONSHU, JAPAN.		Ten people injured in the Tokyo area. Slight damage (IV JMA) at Chiba, Kowaguchi-ko, Kumagaya, Tateyama and Utsunomiya. Felt (III JMA) in the Onahama-Choshi-Ajiro-Kofu area and on Oshima and Miyake-jima. Felt (I JMA) from Hikone to Miyako and an Machijo-jima.
MAR 30	02 12 42.8	30.890 N 50.194 E	33	5.4 5.7	1.1	306	IRAN.		Twenty-four people injured, at least 700 houses damaged and landslides in the Deh Dasht area.
APR 08	23 13 24.1	3.409 S 145.697 E	32 D	5.6 6.4	1.3	121	NEAR N COAST OF PAPUA NEW GUINEA.		Ms 6.7 (BRK), 6.3 (PAS). Two events about 4.5 seconds apart.
APR 12	23 19 55.5	17.192 S 72.305 W	33 G	6.1 7.0	1.2	353	NEAR COAST OF PERU.		Ms 6.9 (BRK), 6.5 (PAS). Felt (IV) at Arequipo. Also felt in the Ica area. Felt (III) at Arica and Iquique, Chile.
MAY 04	18 53 33.5	35.974 N 114.995 W	0 G		0.6	19	CALIFORNIA-NEVADA BORDER REGION.		ML 3.0 (PAS). Explosion at a fuel plant at Henderson, Nevada. Two people killed and 250 injured at Henderson.
MAY 04	18 57 34.8	36.021 N 115.067 W	0 G		0.3	29	CALIFORNIA-NEVADA BORDER REGION.		ML 3.5 (PAS). Explosion at a fuel plant at Henderson, Nevada.
MAY 09	16 23 59.7	18.090 N 76.500 W	10 G	4.5 4.0	1.0	20	JAMAICA REGION.		Three people injured and slight damage (VI) in the Kingston-Linstead-lower St Andrew area. Felt widely on Jamaica.
MAY 30	21 11 11.3	7.501 S 128.325 E	86 G	6.5	1.1	410	BANDA SEA.		Felt strongly in northern Australia.
JUN 18	22 49 42.3	26.856 N 110.996 W	10 G	5.9 7.0	1.2	290	GULF OF CALIFORNIA.		Felt at Caborca, Ciudad Obregon, Guaymas and Navajoa, Mexico.
JUN 19	20 19 52.6	12.376 N 121.067 E	17 D	5.6 6.4	1.4	172	MINDORO, PHILIPPINE ISLANDS.		Two people killed, 4 injured and damage (VII RF) in the San Jose area. Felt (VI RF) at Calapan. Also felt (II RF) at Legaspi, Luzon.
JUL 03	05 20 39.7*	25.109 N 121.542 E	21 *	4.7	1 3	10	TAIWAN.		Eleven people injured by rockslides. Felt in northern Taiwan.
JUL 05	20 32 07.2	5.964 S 148.780 E	53 G	6.0 6.8	1 0	112	NEW BRITAIN REGION.		Ms 6.4 (PAS), 6.3 (BRK). Seven water tanks and 4 bush houses destroyed (V) in the Kandrian area. A tsunami was generated, but caused no damage, in the Arawe Islands area. Felt (V) at Kimbe and (IV) at Robaul. Felt (IVI) at Popandetta and (III) at Lae, New Guinea.
JUL 20	23 15 36.6	23.902 N 121.598 E	51 G	5.8 5.7	1.1	344	TAIWAN.		Ms 5.4 (BRK). One person killed and one injured. Landslides damaged a major highway between Hua-lien and Su-huo. Felt throughout most of Taiwan.
JUL 23	14 25 36.7	22.127 S 174.900 E	19 G	5.9 6.4	1.0	279	LOYALTY ISLANDS REGION.		Ms 6.6 (BRK), 6.0 (PAS).
JUL 23	15 17 08.1	6.526 S 152.779 E	17 G	6.7 6.7	0.9	402	NEW BRITAIN REGION.		Ms 6.8 (BRK), 6.5 (PAS). Felt (IV) at Robaul. Also felt (IV) at Arawa and Panguna, Bougainville.
JUL 25	06 46 06.6	6.081 S 133.667 E	20 G	6.5 6.7	1.0	419	AROE ISLANDS REGION.		Ms 6.9 (BRK), 6.7 (PAS). Felt at Darwin, Australia. Two events about 5 seconds apart.
AUG 06	00 36 24.6	25.149 N 95.127 E	91 G	6.8 7.2	1.1	654	BURMA-INDIA BORDER REGION.		Ms 7.3 (BRK). Three people killed, 12 injured and considerable damage and landslides in the Gauhati-Sibsagar-Imphal area, India. Subsidence of about 20 centimeters occurred in the Gauhati area, India. About 30 people injured and some damage in Bangladesh. Two people killed and about 30 missing when a possible seiche on the Jamuna River at Aricha, Bangladesh caused a ferry boat to capsize. Same damage in the Hamalin area, Burma. Felt throughout Bangladesh and northeastern India, including Calcutta. Also felt in parts of northwestern Burma and at Kathmandu, Nepal.
AUG 10	04 38 26.1	10.366 S 160.819 E	34 G	6.1 7.4	1.5	255	SOLOMON ISLANDS.		Ms 7.4 (BRK), 7.1 (PAS). One person killed and about 100 homes washed away in 13 villages along the southwestern coast of San Cristobal where a tsunami flooded 50-100 meters inland. Felt widely on Guadalcanal, San Cristobal, Malaita and neighboring islands. Seventeen cm tsunami (peak to trough) recorded at Maniara, Guadalcanal. Two events about 10 seconds apart.
AUG 10	06 38 42.8	10.199 S 160.855 E	40 D	5.8 6.6	1 1	209	SOLOMON ISLANDS.		Felt on Guadalcanal and San Cristobal.
AUG 11	16 04 45.6	29.974 N 51.679 E	33 N	5.7 6.1	1.3	288	SOUTHERN IRAN.		One person killed, several injured and more than 2,000 houses damaged in the Mamasani area. Felt at Bushehr, Nurabad and Shiraz.
AUG 14	17 53 09.7	27.260 S 71.092 W	33 G	5.7 6.5	1.0	308	NEAR COAST OF NORTHERN CHILE.		Ms 6.5 (BRK), 6.1 (PAS). Felt (VI) at Caldera and Atacama, (V) at Copiapo, (IV) at Freirina and Valparaiso, (III) at Santiago and (II) at Linares.

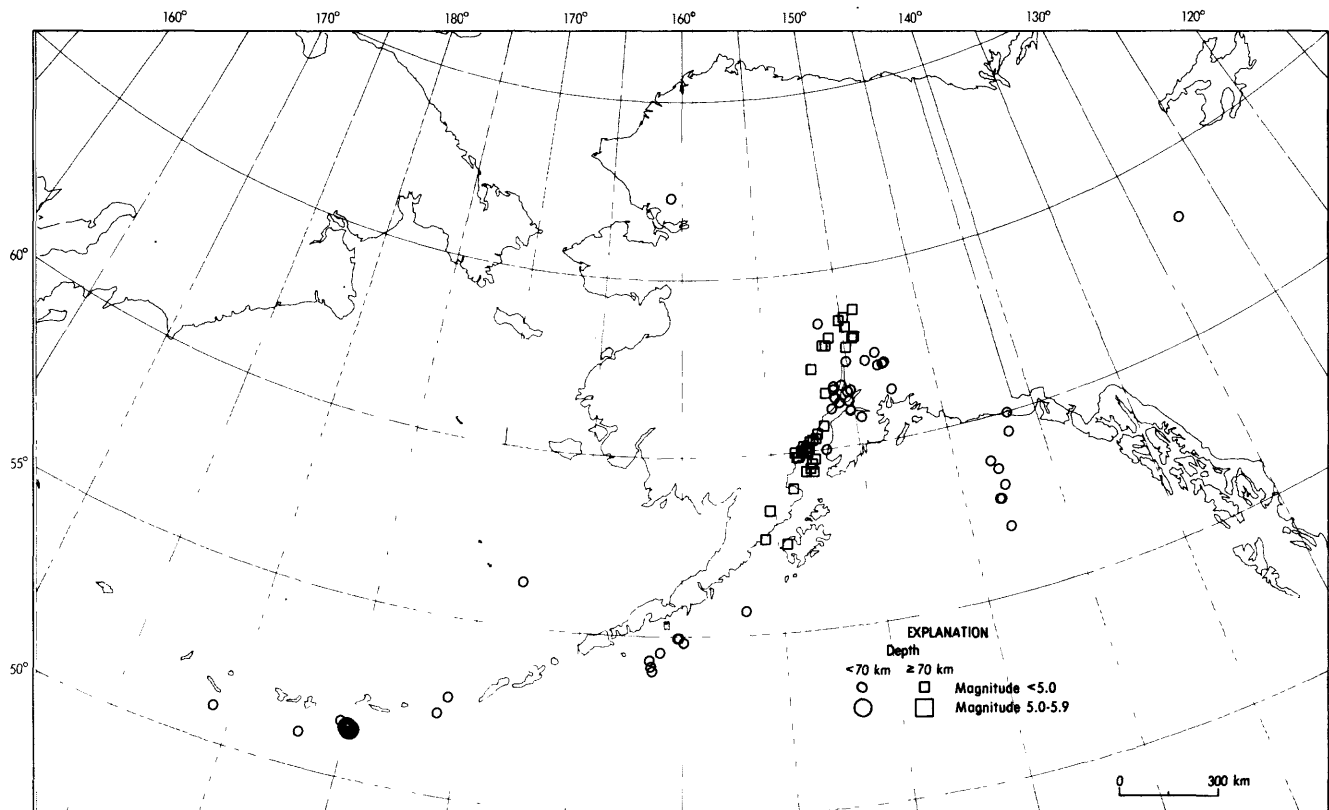
Earthquake Focal Mechanisms for January 1989



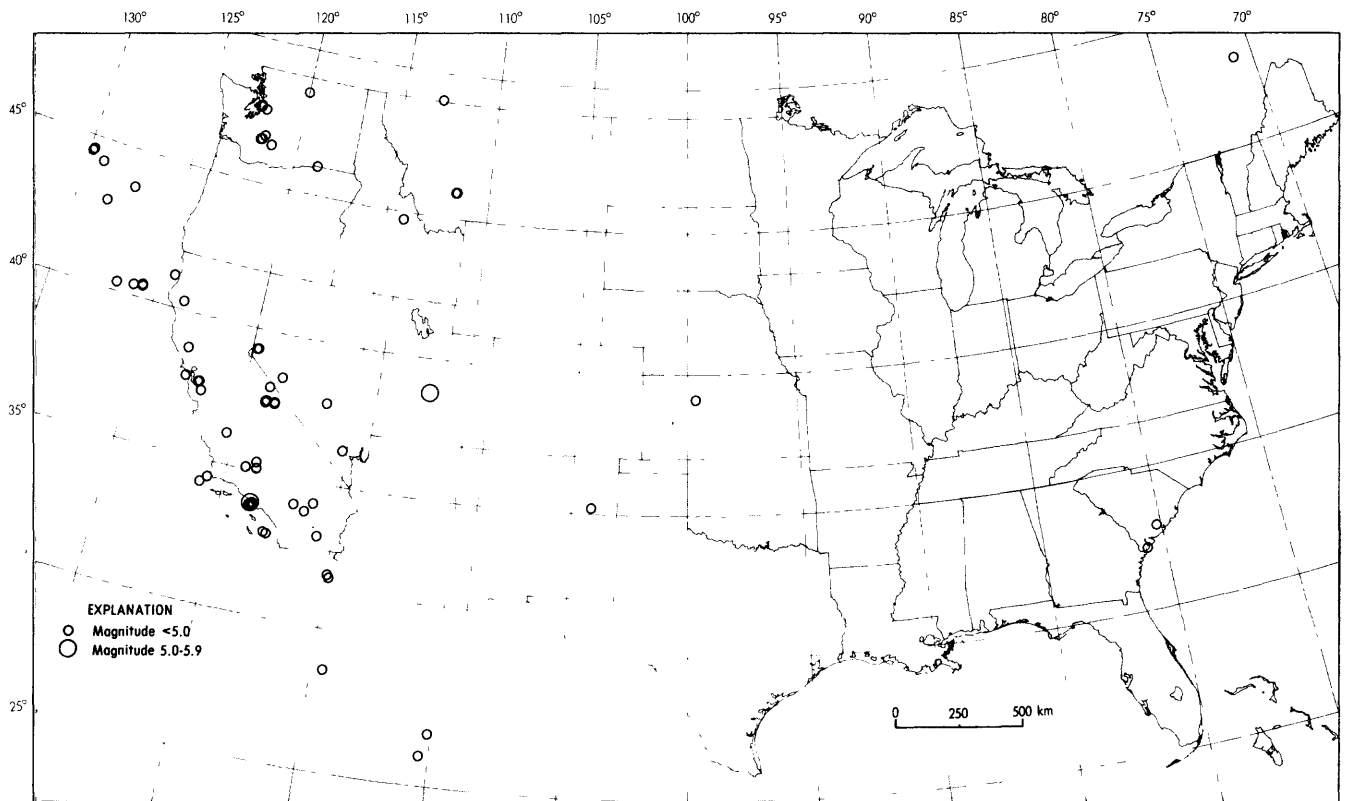
DATE	ORIGIN TIME UTC HR MN SEC	GEOGRAPHIC COORDINATES LAT LONG	DEPTH	MAGNITUDES SD GS MB Msz	NO. STA USED	REGION. CONTRIBUTED MAGNITUDES AND COMMENTS
AUG 20	23 09 09.5	26.755 N 86.616 E	57 G	6.4 6.6 1.1	555	NEPAL-INDIA BORDER REGION. Ms 6.8 (BRK), 6.5 (PAS). Seven hundred twenty-one people killed, 6,553 injured and 64,470 buildings damaged in eastern Nepal, including the Kathmandu Valley. Maximum intensity VIII. Liquefaction observed in a 5,500 sq. km area of southern Nepal. At least 277 people killed, thousands injured and extensive damage in northern Bihar, India, particularly in the Darbhanga-Madhubani-Saharsa area. Damage in the Gangtok area, Sikkim and in the Darjiling area, India. Felt in large parts of northern India from Delhi to the Burma border and in much of Bangladesh.
SEP 02	07 26 23.6	49.886 N 18.489 E	10 G		1.0 11	CZECHOSLOVAKIA. ML 3.8 (GRF), 3.0 (VKA), 2.9 (KRA). Three miners killed and 4 injured at Orlova.
SEP 06	00 42 33.77	6.06 S 146.23 E	0 G		0.1 4	EAST PAPUA NEW GUINEA REGION. ML 4.3 (PMG). About 74 people killed and many houses destroyed by a massive landslide near Karapit. The P-waves recorded from this event appear to have been generated by the landslide itself.
SEP 25	20 52 14.7	37.180 N 71.811 E	11 D	5.5 5 0 1.1	249	AFGHANISTAN-USSR BORDER REGION. Several hundred houses, some schools, hospitals and other facilities were damaged (VI) in the Roshkala-Khorag area, USSR. Felt (IV) at Ishkashim and Boldzhuan; (III) at Dushanbe, Ragon, Chorsady, Komarou and Dzherina, USSR.
OCT 08	04 46 24.5	18.771 S 172.415 W	35 G	6.6 6.8 1.0	500	TONGA ISLANDS REGION. Ms 6.8 (BRK), 6.5 (PAS). Felt (IV) throughout Samoa. Felt on Raoul Island, Kermadec Islands. Two events about 6 seconds apart.
OCT 10	18 20 25.0	28.644 S 177.553 W	28 G	6.5 6 0 1.0	411	KERMADEC ISLANDS REGION. Ms 6.0 (BRK). Felt on Raoul Island.
OCT 16	12 34 05.6	37.938 N 20.932 E	25	5.5 5 8 1.4	380	IONIAN SEA. ML 5.5 (ATH). Twenty five people injured and extensive damage in the Killini-Vartholomian area, Greece. Damage and landslides on Zakynthos. Also felt in Aitolia-Akarnania Province and in the Athens area.
OCT 31	10 12 58.4	36.443 N 2.759 E	12	5.4 5 6 1.2	271	ALGERIA. Fifty-seven people injured, 200 left homeless and considerable damage in the Blida area. Felt in the Medea-Algiers area.
NOV 03	14 47 10.7	13.881 N 90.450 W	69 D	5.6 1.1	334	NEAR COAST OF GUATEMALA. Ms 6.0 (BRK), 6.0 (PAS). Five people killed, some injured and about 100 buildings damaged (VI) in southern Guatemala. Landslides occurred at Polin and in the San Vicente Pocoyo area. Damage to roads in Chimaltenango Department. Felt (V) at San Salvador, El Salvador. Felt strongly at Tapochula, (IV) at Mexico City and also felt in parts of Oaxaca and Veracruz, Mexico. Felt in parts of Honduras and at Managua, Nicaragua.
NOV 06	13 03 19.3	22.789 N 99.611 E	18 G	6.1 7.3 1.6	397	BURMA-CHINA BORDER REGION. Ms 7.0 (BRK), 6.9 (PAS). Seven hundred thirty people killed, 3,900 injured, 267,000 homeless, 29 reservoirs severely damaged and 67 percent of the public buildings destroyed in the Loncong-Menglion area, China. About 3.2 million people in China were affected by the quake. Several highways were cut or covered by mudslides and damage occurred in large parts of southwestern Yunnan Province, China. Felt strongly throughout Yunnan Province. A number of aftershocks were felt throughout the province. Damage in the Chiang Rai area, Thailand. Also felt at Loshio, Burma and Bangkok, Thailand. Three events about 9 seconds apart.
NOV 06	13 15 43.3	23.181 N 99.439 E	10 G	6.4 1.0	318	BURMA-CHINA BORDER REGION. Damage and casualties included in the event of 06 November 1303 UTC. Felt at Lashio, Burma and Bangkok, Thailand.
NOV 07	03 50 00.8	22.239 S 175.018 E	22 D	5.7 6.7 1.1	211	SOUTH OF FIJI ISLANDS. Ms 6.8 (BRK), 6.5 (PAS).
NOV 10	01 17 49.4	21.230 N 108.545 E	10 G	4.6 1.1	24	EASTERN CHINA. Seventy-one people injured and damage in the Qinzhou-Fangcheng area. Felt strongly at Nanning. Also felt at Wuzhou and Guangzhou.
NOV 14	02 15 39.1	3.527 S 150.120 E	33 N	5.9, 6.6 1.4	131	NEW IRELAND REGION. Ms 6.6 (BRK), 6.5 (PAS). Felt (V) at Kavieng. Felt (III) at Rabaul, New Britain.
NOV 17	06 55 46.0	12.399 N 124.537 E	19 G	6.0 6.6 1.5	288	SAMAR, PHILIPPINE ISLANDS. Ms 6.4 (BRK). Twenty nine people injured and damage (VI RF) at Catarman. Felt (V RF) at Cotbologan and (IV RF) in southeastern Luzon and on Masbate. Two events about 3 seconds apart.
NOV 18	19 38 54.6	6.125 S 149.785 E	61 G	5.8 6.4 1.3	252	NEW BRITAIN REGION. Ms 6.8 (BRK), 6.4 (PAS). Felt (III) at Rabaul.
NOV 25	23 46 04.54	48.117 N 71.183 W	29	5.9 5.8	534	SOUTHERN QUEBEC. <OTT>. Ms 5.7 (BRK). Damage in the Chicoutimi-La Boie area and in the Quebec City area. Maximum intensity VII. Landslides reported in the La Tuque area. Felt in Canada from southern Ontario to Nova Scotia and western Labrador. Felt (V) in parts of Maine, Vermont, New Hampshire and New York. Felt in the New England States and in parts of Indiana, Michigan, New Jersey, New York, Ohio, Pennsylvania, Wisconsin and as far south as Washington, D.C.

DATE	ORIGIN TIME UTC HR MN SEC	GEOGRAPHIC COORDINATES LAT LONG		DEPTH	MAGNITUDES SD GS MB Msz		NO STA USED	REGION. CONTRIBUTED MAGNITUDES AND COMMENTS
NOV 27	04 17 56.2	22.749 N	99.852 E	16 *	5.0 5.1	1.0	108	BURMA-CHINA BORDER REGION. One person injured and additional damage in southwestern Yunnan Province, China.
NOV 30	08 13 29.7	22.773 N	99.844 E	15 D	5.6 6.0	1.1	246	BURMA-CHINA BORDER REGION. Several people injured and substantial additional damage in southwestern Yunnan Province, China. Felt at Kunming, China.
DEC 03	11 38 26.4	34.150 N	118.130 W	13 G	4.4 4.2		61	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.9 (PAS), 5.0 (BRK) Pasadena area. Also slight damage (VI) at Bell Gardens, Los Angeles, Los Nietos, Norwalk and Pico Rivera. Felt (V) at Arcadia, Artesia, Azusa, Bell, Bellflower, Burbank, Cedarpines Park, Chatsworth, Dana Point, Downey, Glendale, Hawthorne, Huntington Beach, Hawaiian Gardens, Inglewood, La Canada, La Habra, Lynwood, Maywood, Montebello, Mount Wilson, Ontario, Palmdale, San Dimas, San Gabriel, Sierra Madre, South El Monte, Sun Valley, Torrance, Tujunga, Walnut and Whittier. Felt throughout much of southern California.
DEC 06	13 20 41.0	29.948 N	51.652 E	10 G	5.5 5.7	1.3	304	SOUTHERN IRAN. Seven people injured and damage to more than 21 villages in the Momasoni area. Also felt at Shiraz and Bushehr.
DEC 07	07 41 24.2	40.987 N	44.185 E	5 G	6.2 6.8	1.3	530	TURKEY-USSR BORDER REGION. Ms 7.0 (BRK), 6.9 (PAS). At least 25,000 people killed, 19,000 injured and 500,000 homeless in the Leninakan-Spitak-Kiravakan area of northern Armenia, USSR. More than 20 towns and 342 villages were affected and 58 of them were completely destroyed. Damage totalled 16.2 billion dollars. Damage (X) at Spitak and (IX) at Leninakan, Kiravakan and Stepanavan. Surface faulting 10 kilometers in length and with a maximum throw of 1.5 meters occurred. Power transmission lines were severely damaged and landslides buried railroad tracks in the epicentral area. Damage occurred in the Kelbadzhar area, Azerbaijan, USSR. Felt (VII) at Tabatskuri and Barzhami; (VI) at Bagdonavka, Tbilisi and Yerevan; (V) at Goris; (IV) at Makhachkala and Groznyy; (III) at Sheki and Shemakha, USSR. Four people killed and damage in the Tuzluca-Kagizman-Kars area, Turkey. Felt in the Tabriz-Orumiyyeh area, Iran. Two events about 3 seconds apart.
DEC 07	07 45 44.8	40.974 N	44.246 E	10 G	5 9	1.3	91	TURKEY-USSR BORDER REGION. Additional damage and casualties.

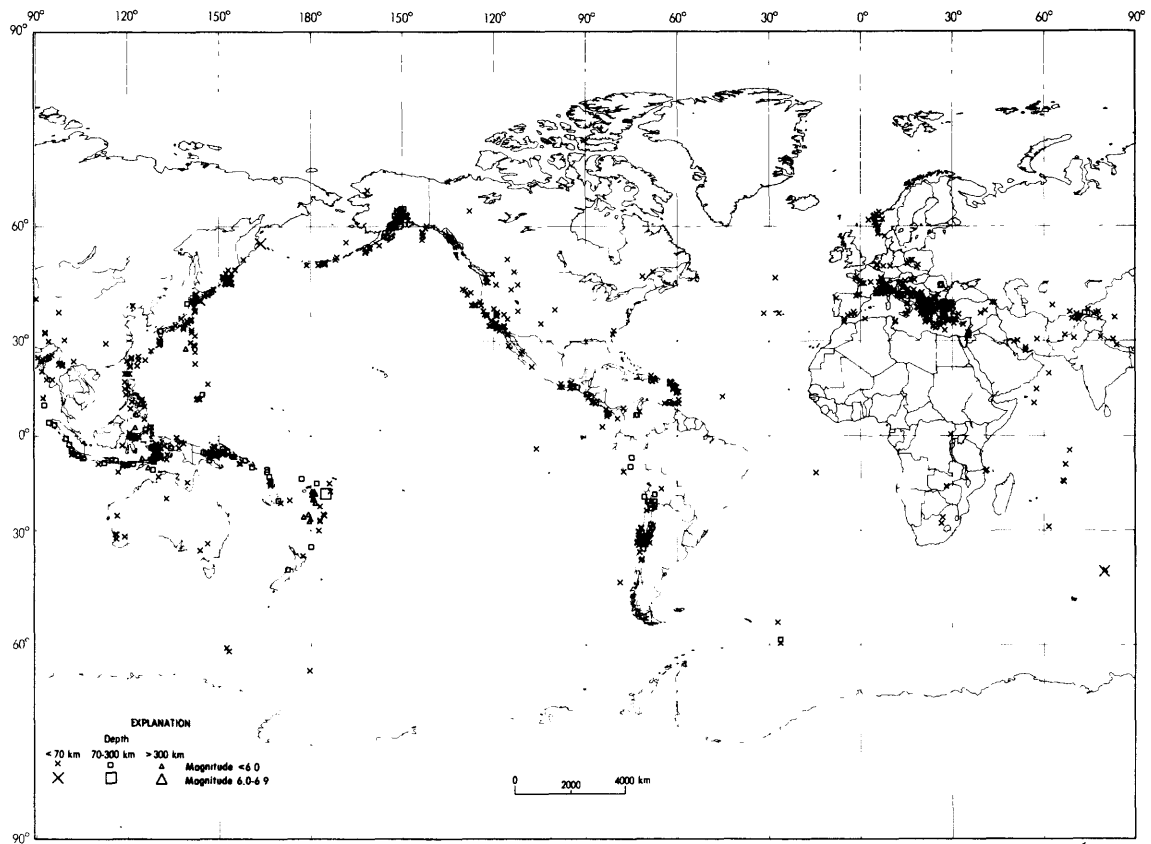
Compiled by Waverly J. Person



Earthquake epicenters in Alaska and adjacent regions for January, 1989 (C. Stover).



Earthquake epicenters in the conterminous United States and adjacent regions for January, 1989 (C. Stover).



Earthquakes located in January, 1989 (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

- AGS Alaska Seismic Project, U.S. Geological Survey, Menlo Park, California.
 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.
 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).
 GS U.S. Geological Survey, Menlo Park, California.
 HDC Observatorio Vulcanologico y Sismologico 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.
 NEIS U.S. Geological Survey, National Earthquake Information Service, Golden, Colorado.
 OTT Earth Physics Branch, Ottawa, Canada.
 PAL Columbia University, Lamont-Doherty Geological Observatory, Palisades, New York.
 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.
 Ramon 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). Addenda 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 - Cancani-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. 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 Bootwright (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.

Harvey, 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. 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 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.

M_L 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.

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 indicated by LP will be from the long-period channel at the designated station. Each LP waveform will be comprised of approximately one-half minute of noise followed by three minutes of signal. Time and amplitude are referenced to a set of axes shown in the lower right hand corner 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 s), 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. Other data types are indicated by IP (intermediate-period channel), SP (short-period channel), and BB (broad-band displacement). As these types of data have a different pass-band than LP data, different time and amplitude scales than those used for LP data will generally be needed. These scales will be shown in the lower left hand corner of each plot. As with the LP waveforms, the absolute amplitudes of the other data types may be recovered from the amplitude scale and the scale factor. For IP data, the absolute amplitude is referenced to 10 seconds. For SP data, the absolute amplitude is referenced to the dominant period of the pass-band (1 s). BB data are directly proportional to displacement from 0.01 Hz to at least 2 Hz. In addition, each component will be identified by a direction indicator (ie. 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 IP 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 the U.S.G.S. Global Digital Seismograph Network (GDSN) and from data contributed by other organizations for distribution on either the Network Day Tapes or Event Tapes. 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

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.

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 Q 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 unfiltered 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 "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 M84C (Woodhouse and Dziewonski, 1984).

1. DATA USED; currently both GDSN and IDA 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 10^{19} 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 FIX. If the depth is fixed to be consistent with waveform matching of reconstructed broad-band body waves, 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. MOMENT TENSOR. The scale factor (e.g., 10^{20} Nm) is the number by which all subsequent entries related to values of the moment should be multiplied. For the moment tensor we give components in a spherical coordinate system: $MRR = M_{rr}$; $MTT = M_{\theta\theta}$; $MFF = M_{\phi\phi}$; $MRT = M_{r\theta}$; $MRF = M_{r\phi}$; $MTF = M_{\theta\phi}$. In another frequently used notation: $MRR = M_{zz}$; $MTT = M_{xx}$; $MFF = M_{yy}$; $MRT = M_{xz}$; $MRF = -M_{yz}$; $MTF = -M_{xy}$ (see Aki and Richards, 1980, p. 118). The solutions are constrained to have $MRR + MTT + MFF = 0$. The values following the entries for the elements of the moment tensor and centroid co-ordinates are standard errors, calculated under the usual assumption of uncorrelated errors in the data. The lateral heterogeneity of the Earth, however, clearly leads to systematic errors, and so the errors listed probably underestimate the true error in the solution.
4. PRINCIPAL AXES; rotation of the moment tensor 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 the azimuths of the axes.
5. BEST DOUBLE COUPLE. If the eigenvalue (T) is σ_1 and (P) is $-\sigma_3$, then the scalar seismic moment is defined as $M_0 = 1/2(\sigma_1 + \sigma_3)$. 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 (Knapoff 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, δ, λ , respectively.

A. M. Dziewonski, J. Durek, G. Ekstrom, J. H. Woodhouse and G. Zwart, Department of Geological 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., 1980, Determination of earthquake source parameters from waveform data for studies of global and regional seismicity: *Journal of Geophysical Research*, v. 86, p. 2825-2852.

Knapoff, 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.

Woodhouse, J. H. and Dziewonski, A. M., 1984, Mapping the upper mantle: Three dimensional modelling of earth structure by inversion of seismic waveforms: *Journal of Geophysical Research*, v. 89, p. 5953-5986.

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 $\log M_0 = 16.74 + 1.22 \log(CD\Delta)$, where C is the maximum peak-to-peak amplitude in mm, D 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^{10} -7 dyne-cm).
2. Beginning with November, 1988, seismic moments for selected events have been contributed by the Laboratoire de Geophysique, Papeete, French Polynesia (PPT). These moments are computed from the mantle Rayleigh wave using the method of Talandier, Reymond and Okal (1987).
- Talandier, J., Reymond, 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

FEBRUARY 1989

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 14 18.5	45.986 N 2.867 E	10 G			1.0	17 FRANCE. ML 2.9 (LDG). MD 2.1 (STR).
	01	01 22 44.3*	39.776 N 27.837 E	10 G			1.0	9 TURKEY
	01	01 45 49.1	44.507 N 9.536 E	10 G			1.0	13 NORTHERN ITALY
	01	01 54 13.2	44.952 N 20.707 E	10 G			1.4	27 YUGOSLAVIA. ML 3.4 (TTG), 3.3 (VKA). Felt at Pancevo and Beograd.
	01	01 56 18.1*	39.624 N 142.259 E	67	4.5		1.0	20 NEAR EAST COAST OF HONSHU, JAPAN. Felt (11 JMA) at Miyako and Ofunato.
	01	02 17 41.5*	44.814 N 6.849 E	10 G			0.4	6 FRANCE. ML 2.1 (GEN).
	01	02 35 59.1*	19.673 S 68.740 W	165 *			1.2	7 CHILE-BOLIVIA BORDER REGION
	01	03 34 15.8	24.382 S 67.588 W	181	4.7		1.1	26 CHILE-ARGENTINA BORDER REGION
	01	03 46 09.3*	38.296 N 28.854 E	10 G			1.3	6 TURKEY
	01	05 10 48.8*	51.468 N 179.997 E	33 N	4.7		1.0	15 RAT ISLANDS, ALEUTIAN ISLANDS
	01	05 51 13.2*	19.65 N 108.54 W	10 G	3.7		1.1	14 REVILLA GIGEDO ISLANDS REGION
	01	06 31 43.3*	7.425 S 147.038 E	33 N	4.3		1.0	7 EAST PAPUA NEW GUINEA REGION. ML 4.1 (PMG).
a	01	10 22 41.5	31.561 N 140.155 E	119	5.5		0.9	320 SOUTH OF HONSHU, JAPAN. Felt (1 JMA) at Tateyama.
	01	11 00 17.3*	60.208 N 152.722 W	115	4.1			55 SOUTHERN ALASKA. <AGS-P>.
	01	11 01 23.2*	44.540 N 8.428 E	10 G			0.1	5 NORTHERN ITALY. ML 2.1 (GEN).
	01	11 22 00.0*	36.040 N 117.790 W	0				13 CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.0 (PAS).
	01	12 32 37.7*	60.267 N 152.614 W	108				49 SOUTHERN ALASKA. <AGS-P>.
	01	13 15 53.8*	39.095 N 27.621 E	10 G			0.9	5 TURKEY
	01	15 05 53.8	43.372 N 5.423 E	10 G			0.7	14 NEAR SOUTH COAST OF FRANCE. MD 3.0 (STR).
	01	15 25 58.8*	60.338 N 152.854 W	119				26 SOUTHERN ALASKA. <AGS-P>.
	01	15 36 35.4*	43.975 N 126.334 W	10 G			0.6	23 OFF COAST OF OREGON
	01	17 33 26.1*	5.47 S 154.55 E	33 N	4.3		0.8	6 SOLOMON ISLANDS
	01	19 10 46.8*	17.185 N 61.935 W	28			0.5	8 LEEWARD ISLANDS. ML 2.8 (FDF).
	01	19 34 55.3	33.039 N 132.578 E	53 *	4.3		1.0	15 SHIKOKU, JAPAN
	01	19 50 45.9	22.894 N 120.606 E	12	4.2		1.5	27 TAIWAN
	01	21 45 31.0*	42.72 N 18.07 E	10 G			0.6	6 YUGOSLAVIA. MD 2.3 (TTG).
	01	22 22 06.4	22.941 N 120.587 E	10 G	4.2		1.5	21 TAIWAN
	01	22 28 00.0*	40.150 N 29.278 E	10 G			0.9	12 TURKEY
	01	22 48 20.1*	11.047 N 61.738 W	33 N			0.6	5 WINDWARD ISLANDS
	01	23 18 48.9*	45.72 N 14.20 E	10 G			1.1	4 YUGOSLAVIA. ML 1.7 (LJU).
	01	23 42 02.8*	37.65 N 3.31 W	5 G			1.2	4 SPAIN. MG 2.4 (MDD).
	02	00 19 22.9*	19.45 S 174.36 W	33 N	4.7		1.0	7 TONGA ISLANDS
	02	00 54 27.0*	26.375 S 27.228 E	5 G			1.2	6 REPUBLIC OF SOUTH AFRICA. MG 3.6 (BUL).
	02	02 15 32.6*	19.231 S 169.110 E	267	4.0		0.9	28 VANUATU ISLANDS
	02	02 18 57.1*	11.59 N 124.85 E	33 N	4.8		0.5	7 LEYTE, PHILIPPINE ISLANDS
	02	03 43 16.2	31.144 S 117.254 E	10 G			0.3	6 WESTERN AUSTRALIA
	02	04 51 54.4*	33.940 N 118.860 W	8				27 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.8 (PAS). Felt (111) at Agoura, Burbank, Canoga Park, Culver City, Duarte, Hawthorne, Lakewood, Lomita, Reseda, Santa Monica, Simi Valley and Whittier.
	02	05 17 49.2*	33.940 N 118.820 W	5 G			0.8	5 SOUTHERN CALIFORNIA. ML 3.0 (NEIS).
	02	06 52 33.2	4.971 S 143.281 E	118 *	5.0		0.7	27 PAPUA NEW GUINEA
	02	06 57 31.4*	17.602 N 60.748 W	33 N			0.5	10 LEEWARD ISLANDS. ML 3.7 (FDF).
	02	07 05 21.2	17.646 N 60.666 W	33 N			0.7	10 LEEWARD ISLANDS. ML 3.4 (FDF).
	02	07 14 32.8	31.144 S 117.270 E	10 G			0.2	7 WESTERN AUSTRALIA
	02	09 05 56.2*	44.104 N 8.096 E	10 G			0.5	5 NORTHERN ITALY. ML 2.0 (GEN).
	02	09 40 23.7*	44.034 N 7.921 E	10 G			0.2	5 NORTHERN ITALY. ML 2.1 (GEN).
	02	09 52 32.3*	21.051 S 68.210 W	155 *	4.8		0.6	11 CHILE-BOLIVIA BORDER REGION
	02	10 55 10.1*	33.380 S 71.796 W	33 N			0.3	10 NEAR COAST OF CENTRAL CHILE
	02	15 30 14.6*	9.42 S 127.14 E	210 ?	3.7		1.5	6 TIMOR SEA
	02	15 40 46.4*	45.930 N 57.540 W	18 G				19 NORTH ATLANTIC OCEAN. <OTT-P>. mbLg 3.9 (NEIS).
	02	17 27 01.3*	44.60 N 148.51 E	33 N	4.6		1.4	14 KURIL ISLANDS
	02	18 12 11.7*	33.69 S 69.31 W	10 G			0.8	9 CHILE-ARGENTINA BORDER REGION
	02	18 24 06.8*	36.380 N 21.109 E	73 ?	3.8		1.2	22 SOUTHERN GREECE
	02	19 00 23.8*	59.852 N 153.382 W	119				41 SOUTHERN ALASKA. <AGS-P>.
	02	19 17 13.9*	46.867 N 1.505 E	14			0.6	10 FRANCE. ML 2.2 (LDG).

02	22 24 41.3*	17.641 N	60.768 W	26 *	0.6	12	LEEWARD ISLANDS. ML 3.7 (FDF).
02	23 08 06.5*	40.253 N	20.381 E	10 G	1.2	8	GREECE-ALBANIA BORDER REGION
03	00 45 54.5	17.787 S	178.549 W	546 D 5.2	0.9	105	FIJI ISLANDS REGION
03	01 00 55.4?	17.73 N	60.60 W	33 N	0.8	15	LEEWARD ISLANDS. ML 3.6 (FDF).
03	01 16 41.2	17.649 N	60.729 W	30	0.3	16	LEEWARD ISLANDS. ML 3.8 (FDF).
03	03 39 34.4	3.425 S	130.882 E	48 ? 5.0	1.3	31	CERAM
03	04 15 17.5*	38.167 N	112.496 W	1	0.4	17	UTAH. <SLC-P>. MD 3.1 (SLC). Felt (III) at Beaver.
03	05 19 10.1?	32.43 S	71.77 W	21	0.8	8	NEAR COAST OF CENTRAL CHILE
03	05 54 37.4*	18.538 N	145.968 E	120 * 5.0	0.8	29	MARIANA ISLANDS
03	06 14 40.6?	24.92 N	121.75 E	33 N 4.4	1.5	5	TAIWAN
03	06 38 09.0*	40.205 N	28.984 E	10 G	0.3	7	TURKEY
03	06 42 32.1*	14.166 N	120.934 E	151 ? 4.9	1.2	13	LUZON, PHILIPPINE ISLANDS
03	06 52 08.3*	34.920 N	119.240 W	14	0.6	14	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
03	07 43 09.2*	37.837 N	122.590 W	7	0.9	9	CENTRAL CALIFORNIA. <BRK>. ML 2.0 (BRK). Felt at Muir Beach.
03	07 54 42.1?	51.59 N	16.22 E	10 G	0.6	6	POLAND. ML 3.3 (VKA), 3.1 (KBA).
03	08 33 49.2*	36.296 N	70.766 E	207 ? 4.4	0.5	14	HINDU KUSH REGION
03	08 46 28.6	40.716 N	19.755 E	10 G	1.2	11	ALBANIA. MG 2.6 (TIR).
03	09 27 51.6?	51.74 N	16.39 E	10 G	0.4	8	POLAND. ML 3.8 (VKA), 3.6 (KBA).
03	13 05 12.5	11.753 N	61.186 W	78 4.7	1.1	85	WINDWARD ISLANDS. Felt at Kingstown, St. Vincent.
03	13 14 33.1*	57.637 N	155.420 W	75	0.7	33	ALASKA PENINSULA. <AGS-P>.
03	13 32 03.4	42.473 N	24.259 E	10 G	0.7	9	BULGARIA
03	13 43 16.4	24.024 S	66.882 W	191 4.8	1.0	53	SALTA PROVINCE, ARGENTINA
03	13 57 36.9*	39.257 N	27.760 E	10 G	0.7	5	TURKEY
03	14 04 45.8*	39.015 N	111.499 W	1	0.8	7	UTAH. <SLC-P>. ML 3.0 (SLC).
03	14 10 04.2*	14.743 S	66.587 E	10 G 4.7	0.8	26	MID-INDIAN RISE
03	14 37 20.0	37.910 N	112.428 E	10 G 4.2	1.3	16	NORTHEASTERN CHINA. ML 4.1 (BJI).
03	14 39 59.0	64.647 N	17.514 W	10 G 4.1	0.7	23	ICELAND
03	15 18 25.4	64.583 N	17.381 W	10 G 5.3 4.9	1.1	250	ICELAND
03	16 03 01.6*	7.722 S	147.540 E	67 ? 4.0	1.2	7	EAST PAPUA NEW GUINEA REGION
03	16 33 39.2*	36.829 N	12.979 W	10 G	0.7	14	NORTH ATLANTIC OCEAN
03	16 44 02.0?	9.48 S	118.65 E	33 N 3.5	1.4	5	SUMBAWA ISLAND REGION
03	17 49 58.6	30.231 N	89.958 E	10 G 5.5 5.2	1.3	225	TIBET
03	18 08 21.2*	39.744 N	110.897 W	0	1.2	6	UTAH. <SLC-P>. ML 3.0 (SLC). Felt (IV) at Kenilworth.
03	18 19 46.7*	61.993 N	6.367 E	10 G	1.1	46	SOUTHERN NORWAY. MD 2.4 (BER).
03	18 21 50.8	20.475 N	61.386 E	10 G 4.5	0.9	7	ARABIAN SEA
03	18 22 08.9*	48.008 N	6.374 E	10 G	1.0	99	FRANCE. ML 2.4 (LDG).
03	18 44 32.6	20.215 S	178.617 W	575 * 5.2	1.2	20	FIJI ISLANDS REGION
03	18 46 49.7*	25.098 N	124.568 E	33 N 4.3	0.9	12	NORTHEAST OF TAIWAN
03	20 34 08.7*	28.705 N	130.463 E	33 N 4.7	0.3	5	RYUKYU ISLANDS
03	20 34 21.9*	43.099 N	13.018 E	10 G	1.3	17	CENTRAL ITALY. MD 2.5 (SSO).
03	22 10 01.6	30.263 N	90.003 E	10 G 4.2	1.5	18	TIBET
03	22 10 50.5*	24.061 N	121.660 E	29 4.8	1.1	29	TAIWAN
03	23 07 29.7	37.725 N	20.964 E	10 G 3.9	0.9	33	IONIAN SEA. ML 3.5 (ATH).
03	23 17 28.9	5.527 S	154.321 E	115 5.2	0.4	4	SOLOMON ISLANDS
03	23 21 43.7?	51.40 N	16.09 E	10 G	1.2	19	POLAND. ML 3.2 (VKA), 2.9 (KBA).
03	23 36 27.5?	28.47 N	140.34 E	33 N 5.1	1.0	10	BONIN ISLANDS REGION
03	23 48 46.7*	33.180 N	115.600 W	1	0.7	13	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS). Felt (III) at Calipatria.
04	01 23 20.9*	7.252 N	82.147 W	10 G	1.8	5	SOUTH OF PANAMA
04	02 33 19.1*	31.642 S	68.546 W	33 N	1.1	9	SAN JUAN PROVINCE, ARGENTINA
04	04 51 37.6?	6.42 S	147.80 E	78 *	1.0	110	EAST PAPUA NEW GUINEA REGION
04	06 52 55.7	45.646 N	143.083 E	331 D 4.9	1.1	5	HOKKAIDO, JAPAN REGION. Felt (I JMA) at Kushiro. Also felt (I JMA) at Hachinohe, Honshu.
04	07 00 45.5*	37.698 N	3.574 W	5 G	1.5	15	SPAIN. MG 2.6 (MDD).
04	07 15 55.9*	30.178 N	90.122 E	10 G 4.2	1.2	8	TIBET
04	08 17 08.0*	56.167 N	154.502 W	33 N 4.4	0.6	14	KODIAK ISLAND REGION. ML 4.6 (PMR).
04	09 05 16.6*	61.476 N	150.245 W	44	1.2	41	SOUTHERN ALASKA. <AGS-P>. ML 3.0 (PMR).
04	09 33 39.2?	51.22 N	19.81 E	10 G	0.8	106	POLAND. ML 2.7 (KRA).
04	09 44 53.2	24.155 N	123.305 E	54 5.1	0.8	106	SOUTHWESTERN RYUKYU ISLANDS. Felt (I JMA) on Ishigaki-shima.
04	09 45 01.8*	43.429 N	13.011 E	10 G	0.8	5	CENTRAL ITALY
04	10 44 59.9*	39.119 N	27.632 E	10 G	0.5	5	TURKEY
04	10 56 51.2	37.297 N	141.154 E	68 5.2	0.9	173	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Mito, Onahama, Fukushima, Shirakawa and Utsunomiya; (II JMA) at Sendai, Ishinomaki, Ofunato, Kumagaya and Yokohama; (I JMA) at Yamagata, Maebashi, Miyako, Morioka and Tokyo.
04	12 12 58.9	12.730 N	124.477 E	105 * 4.9	1.1	42	SAMAR, PHILIPPINE ISLANDS
04	12 18 50.2*	39.258 N	27.766 E	10 G	0.7	5	TURKEY
04	12 26 58.1	36.835 N	113.000 W	5 G	0.6	14	WESTERN ARIZONA. ML 3.2 (NEIS).
04	13 42 58.5	30.707 S	71.962 W	33 N	0.6	13	NEAR COAST OF CENTRAL CHILE
04	13 46 08.0	30.144 N	90.115 E	10 G 3.8	0.8	18	TIBET
04	14 19 08.0	47.070 N	0.912 W	21	1.0	23	FRANCE. ML 3.9 (LDG). MD 3.7 (DOU).
04	14 23 39.4	19.416 S	179.587 W	451 * 5.3	0.9	123	FIJI ISLANDS REGION
04	15 28 06.2*	42.619 N	23.546 E	10 G	1.3	6	BULGARIA
04	15 51 52.3	0.082 N	16.658 W	10 G 5.6 5.4	1.1	257	NORTH OF ASCENSION ISLAND
04	16 30 16.2?	23.22 N	122.09 E	10 G	0.5	5	TAIWAN REGION
04	17 00 02.5	1.087 S	13.610 W	10 G 5.2	0.9	138	NORTH OF ASCENSION ISLAND
04	17 02 02.1*	60.052 N	152.732 W	99	1.6	16	SOUTHERN ALASKA. <AGS-P>.
04	17 14 44.1*	34.907 N	139.353 E	10 G	1.3	9	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) on Oshima and (I JMA) at Ajira.
04	18 29 54.0	17.420 N	120.315 E	33 N 3.7	1.1	14	LUZON, PHILIPPINE ISLANDS
04	18 32 13.0	7.957 N	72.054 W	46 4.7	0.8	69	NORTHERN COLOMBIA
04	18 32 42.2?	34.15 N	135.22 E	10 G	0.2	4	NEAR S. COAST OF SOUTHERN HONSHU. Felt (I JMA) at Wakayama.
04	18 33 39.8*	61.806 N	149.606 W	40	0.3	39	SOUTHERN ALASKA. <AGS-P>. ML 3.1 (PMR).
04	18 43 09.3*	4.942 N	82.641 W	10 G 4.4	1.1	17	SOUTH OF PANAMA
04	18 55 18.2	18.902 N	64.405 W	34 4.9	0.8	65	VIRGIN ISLANDS. ML 5.0 (FDF).
04	19 21 32.2*	44.925 N	20.553 E	10 G	1.2	7	YUGOSLAVIA. MG 3.2 (BEO). Felt at Beograd.
04	19 24 07.4	5.862 N	82.697 W	10 G 5.8 5.9	1.2	318	SOUTH OF PANAMA. Ms 5.9 (BRK), 5.8 (PAS). Mo=5*10**18 Nm (PPT).
04	20 00 55.6*	45.115 N	6.512 E	10 G	0.6	6	FRANCE. ML 2.4 (GEN).

04	20 26 46.3	5.548 S	147.238 E	182	5.1	0.8	30	EAST PAPUA NEW GUINEA REGION
04	21 35 57.97	44.44 N	7.32 E	10 G		0.5	6	NORTHERN ITALY. MD 1.8 (STR).
04	21 37 59.3	44.392 N	7.326 E	18		0.9	39	NORTHERN ITALY. ML 3.3 (GEN), 3.2 (LDG).
a 04	22 10 38.9	4.625 S	153.066 E	52 G	6.1	0.9	368	NEW IRELAND REGION. Felt (V) at Rabaul, New Britain. Depth from broadband displacement seismograms.
05	00 16 18.3	34.903 N	25.889 E	10 G		1.4	10	CRETE. MD 3.9 (ATH).
05	01 00 49.8	40.743 N	19.951 E	10 G		1.3	5	ALBANIA
05	01 05 25.77	7.31 S	129.67 E	143 ?	4.1	1.4	11	BANDA SEA
05	01 24 14.77	44.39 N	6.76 E	10 G		0.3	6	FRANCE. MD 2.1 (STR).
05	01 25 16.3	44.280 N	6.769 E	7		0.3	20	FRANCE. ML 3.0 (GEN), 2.9 (LDG).
05	01 59 10.0	34.851 N	84.912 E	33 N		0.8	7	TIBET
a 05	01 59 48.6	33.385 N	140.811 E	60 D	5.6	1.1	308	SOUTH OF HONSHU, JAPAN. Felt (III JMA) on Hachijo-jima; (II JMA) on Miyake-jima and (I JMA) at Tokyo, Yokohama and Tateyama.
05	02 06 05.57	44.10 N	6.62 E	10 G		0.3	6	FRANCE. MD 1.0 (STR).
05	02 08 02.9	44.178 N	6.414 E	10 G		0.7	16	FRANCE. ML 2.8 (LDG), 2.8 (GEN).
05	02 10 04.37	12.16 S	122.03 E	33 N		0.9	7	SOUTH OF TIMOR
05	02 21 59.47	44.37 N	7.34 E	10 G		0.5	4	NORTHERN ITALY. ML 1.8 (GEN).
05	03 10 00.8	44.807 N	7.211 E	10 G		0.9	18	NORTHERN ITALY. ML 2.6 (GEN), 2.5 (LDG).
05	04 42 57.4	8.563 N	82.852 W	5 G		0.9	10	PANAMA-COSTA RICA BORDER REGION
05	05 18 47.8	49.429 N	155.802 E	33 N	4.9	0.6	56	KURIL ISLANDS
05	06 12 23.9	40.287 N	121.485 W	14			11	NORTHERN CALIFORNIA. <BRK>. ML 3.1 (BRK). Felt at Lassen Volcanic National Park.
05	08 37 44.4	33.201 N	92.778 W	5 G			8	ARKANSAS. <TEIC>. MD 2.4 (TEIC). Felt in parts of southeastern El Dorado.
05	09 25 29.1	19.247 N	64.231 W	33 N		0.7	16	VIRGIN ISLANDS. ML 4.4 (FDF). Felt at San Juan, Puerto Rico.
05	10 43 35.7	30.049 N	90.113 E	10 G	3.9	1.3	15	TIBET
05	12 09 53.4	39.141 N	27.628 E	10 G		0.7	5	TURKEY
05	13 55 20.4	17.230 S	70.181 W	132	5.1	1.0	96	NEAR COAST OF PERU
05	15 35 12.3	10.905 N	61.455 W	33 N		0.5	6	TRINIDAD
05	15 46 15.67	11.76 S	118.19 E	33 N	4.4	1.4	5	SOUTH OF SUMBAWA ISLAND
05	16 59 44.4	44.955 N	6.690 E	10 G		0.2	6	FRANCE. ML 1.9 (GEN).
05	17 22 09.7	40.377 N	29.192 E	10 G		1.0	10	TURKEY
05	18 11 21.07	10.37 S	118.88 E	33 N	4.3	1.3	9	SOUTH OF SUMBAWA ISLAND
05	18 32 54.8	4.560 N	118.089 E	24	3.7	0.5	8	KALIMANTAN
05	18 53 33.67	6.51 S	149.54 E	33 N	3.8	1.1	6	NEW BRITAIN REGION
05	20 21 53.2	7.329 S	121.626 E	507	5.0	0.8	27	FLORES SEA
05	21 10 35.0	35.405 N	30.962 E	10 G		1.1	8	EASTERN MEDITERRANEAN SEA
05	21 11 09.97	44.97 N	6.75 E	10 G		0.6	4	FRANCE. ML 2.2 (GEN).
05	21 51 12.6	32.490 N	114.630 W	0 G			2	W. ARIZ. - MEXICO BORDER REGION. <PAS-P>. ML 3.2 (PAS).
05	22 05 15.9	32.400 N	114.600 W	6 G			2	W. ARIZ. - MEXICO BORDER REGION. <PAS-P>. ML 3.2 (PAS).
05	22 24 33.0	35.412 N	136.762 E	10 G		0.6	13	SOUTHERN HONSHU, JAPAN. MG 3.8 (JMA). Felt (III JMA) at Gifu; (I JMA) at Nagaya and Tsu.
05	22 38 58.6	16.191 N	61.151 W	33 N		0.7	6	LEEWARD ISLANDS. ML 2.2 (FDF).
05	22 53 04.1	39.320 N	72.032 E	33 N	4.1	1.1	5	KIRGHIZ SSR
05	22 58 30.47	44.96 N	6.70 E	10 G		0.2	4	FRANCE. ML 2.2 (GEN).
05	23 25 17.67	5.28 N	82.74 W	10 G		0.3	18	SOUTH OF PANAMA
05	23 34 53.2	14.572 N	92.085 W	71	3.8	1.3	21	NEAR COAST OF CHIAPAS, MEXICO
06	00 15 11.7	44.312 N	6.835 E	10 G		0.7	12	FRANCE. ML 2.7 (GEN).
06	00 40 40.1	2.833 S	129.995 E	40	5.1 4.0	1.2	31	CERAM
06	00 49 10.97	21.00 N	108.19 W	10 G	4.2	1.5	10	REVILLA GIGEDO ISLANDS REGION
06	01 25 52.7	48.418 N	122.214 W	0			34	WASHINGTON. <SEA>. ML 3.8 (SEA). Felt (V) at Cleorlake and (IV) at Arlington, Mount Vernon and Sedro Woolley.
06	02 50 47.5	37.286 N	20.438 E	30		0.7	16	IONIAN SEA
06	03 10 52.1	39.341 N	26.010 E	10 G		0.7	16	TURKEY. MD 3.4 (ATH).
06	03 18 32.77	17.99 N	65.53 W	10 G		0.1	5	PUERTO RICO REGION
06	03 27 43.37	29.44 S	71.70 W	33 N		0.6	8	NEAR COAST OF CENTRAL CHILE
06	04 46 30.7	34.884 N	26.801 E	10 G		1.4	6	CRETE
06	05 00 48.37	43.47 N	6.14 E	10 G		1.2	12	NEAR SOUTH COAST OF FRANCE
06	05 10 48.3	42.280 N	142.367 E	10 G	4.8	1.1	35	HOKKAIDO, JAPAN REGION. Felt (II JMA) at Hiroo.
06	05 30 56.7	41.622 N	142.797 E	33 N		1.1	6	HOKKAIDO, JAPAN REGION. MG 4.5 (JMA). Felt (II JMA) at Urakawa.
06	06 32 07.9	42.535 N	144.430 E	75	4.5	0.9	17	HOKKAIDO, JAPAN REGION. Felt (I JMA) at Nemuro.
06	08 05 53.2	30.736 N	50.058 E	33 N	4.6	0.9	37	IRAN
06	09 15 23.2	40.592 N	27.451 E	10 G		0.8	6	TURKEY
06	09 19 00.9	48.412 N	122.218 W	0			15	WASHINGTON. <SEA>. CL 1.8 (SEA).
06	09 29 47.1	29.464 S	71.303 W	33 N		1.3	17	NEAR COAST OF CENTRAL CHILE
06	09 34 42.3	11.805 N	61.027 W	30		0.6	12	WINDWARD ISLANDS. MG 3.8 (FDF).
06	09 57 43.2	17.065 N	62.210 W	10 G		0.3	7	LEEWARD ISLANDS. ML 2.7 (FDF).
06	10 49 00.0	37.512 N	121.687 W	6			14	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).
06	11 37 35.9	39.171 N	24.521 E	7	4.2	0.9	45	AEGEAN SEA. ML 3.9 (ATH).
06	12 05 52.6	1.369 S	123.678 E	98	4.3	1.3	10	SULAWESI
06	12 27 12.6	45.281 N	23.984 E	10 G		1.4	5	ROMANIA
06	13 09 05.1	30.052 N	90.124 E	10 G	3.8	1.4	13	TIBET
06	13 28 20.5	39.134 N	27.647 E	10 G		1.1	5	TURKEY
06	13 33 18.7	38.312 N	30.829 E	10 G		0.5	5	TURKEY
06	14 01 08.6	41.075 N	28.561 E	10 G		1.0	8	TURKEY
06	14 35 29.4	30.336 N	90.190 E	10 G		1.1	8	TIBET
06	15 25 24.6	42.043 N	137.403 E	290	4.5	0.9	69	EASTERN SEA OF JAPAN
06	16 55 32.7	42.897 N	18.769 E	10 G		0.6	6	YUGOSLAVIA. MD 2.4 (TTG).
06	18 07 28.27	32.98 S	72.40 W	33 N		0.9	8	OFF COAST OF CENTRAL CHILE
06	19 25 14.67	41.74 N	24.79 E	10 G		0.8	5	GREECE-BULGARIA BORDER REGION
06	19 55 04.8	5.201 N	125.968 E	48	4.9 4.3	1.0	48	MINDANAO, PHILIPPINE ISLANDS
06	20 03 07.67	38.04 N	23.52 E	33 N		0.2	4	GREECE. ML 3.0 (ATH).
06	22 23 19.5	57.557 N	154.203 W	4	4.9		75	KODIAK ISLAND REGION. <AGS-P>. ML 4.4 (PMR). Felt (IV) at Korluk.
06	23 01 54.4	36.827 N	31.211 E	103		0.6	17	TURKEY
06	23 36 22.6	52.991 S	10.040 E	10 G	4.3	1.0	10	SOUTHWEST OF AFRICA
07	00 37 44.7	36.297 N	1.775 E	10 G		0.6	12	ALGERIA
07	02 03 04.47	21.33 N	108.15 W	10 G	4.1	1.1	10	REVILLA GIGEDO ISLANDS REGION
07	02 04 25.8	5.007 S	134.171 E	33 N	5.1	1.3	59	AROE ISLANDS REGION
a 07	04 03 00.2	22.087 S	67.223 W	180 D	5.4	0.8	158	CHILE-BOLIVIA BORDER REGION

07	04	10	01.3?	44.49	N	7.03	E	10	G	0.1	6	NORTHERN ITALY. MD 2.1 (STR).		
07	05	09	49.1	42.379	N	18.906	E	10	G	1.0	11	YUGOSLAVIA. MD 2.4 (TTG).		
07	06	32	32.3+	36.668	N	12.799	E	67	*	0.9	19	MEDITERRANEAN SEA		
07	06	39	59.7	44.908	N	15.144	E	10	G	0.7	13	YUGOSLAVIA. ML 3.1 (ZAG), 2.8 (KBA). MD 3.3 (LJU).		
07	07	14	39.4?	17.46	N	99.37	W	33	N	1.4	7	GUERRERO, MEXICO		
07	07	51	52.5+	51.318	N	177.986	E	33	N	4.6	1.0	23	RAT ISLANDS, ALEUTIAN ISLANDS. ML 4.5 (PMR).	
07	09	13	09.6	51.297	N	177.895	E	33	N	4.7	0.9	31	RAT ISLANDS, ALEUTIAN ISLANDS. ML 4.6 (PMR).	
07	09	52	48.7	41.938	N	20.107	E	10	G	1.4	5	ALBANIA		
07	11	49	09.4?	39.002	N	111.492	W	4			8	UTAH. <SLC-P>. MD 3.2 (SLC).		
a	07	12	41	44.2+	27.313	S	177.146	W	167	*	4.9	1.1	53	KERMADEC ISLANDS REGION
a	07	13	35	27.5	23.728	S	179.885	E	563	D	5.2	0.9	140	SOUTH OF FIJI ISLANDS
07	14	07	35.1	39.662	N	19.666	E	10	G	1.4	15	GREECE-ALBANIA BORDER REGION. MD 3.4 (ATH).		
a	07	15	08	59.0	3.381	S	148.809	E	38	*	4.9 5.2	1.4	48	BISMARCK SEA
07	16	21	03.5?	11.24	N	61.92	W	33	N	1.2	5	WINDWARD ISLANDS		
07	17	34	38.9	34.106	N	26.313	E	10	G	0.8	11	CRETE. MD 3.9 (ATH).		
07	18	38	06.0+	39.356	N	20.181	E	5	G	1.4	9	GREECE-ALBANIA BORDER REGION. MD 2.9 (ATH).		
07	19	51	16.3+	45.898	N	154.489	E	33	N	4.8	1.4	42	KURIL ISLANDS REGION	
07	19	52	59.8?	40.671	N	29.691	E	10	G	0.9	8	TURKEY		
07	22	22	46.7?	34.386	N	96.831	W	5	G		9	OKLAHOMA. <TUL>. mbLg 2.0 (TUL).		
07	23	15	44.3	41.989	N	20.462	E	10	G	0.9	20	ALBANIA. ML 3.0 (SKO), 2.8 (TTG).		
07	23	52	20.7?	20.91	S	68.50	W	106	?	1.5	5	CHILE-BOLIVIA BORDER REGION		
08	02	21	13.7?	31.41	S	68.57	W	95	?	1.3	13	SAN JUAN PROVINCE, ARGENTINA		
08	03	01	43.3+	6.266	S	149.090	E	58	?	4.3	1.3	6	NEW BRITAIN REGION	
08	04	03	38.0?	17.47	S	177.72	W	432	?	4.7	1.2	16	FIJI ISLANDS REGION	
08	04	54	53.9	19.832	S	133.625	E	10	G	4.4	1.0	12	NORTHERN TERRITORY, AUSTRALIA. ML 4.1 (QIS).	
08	06	00	11.4?	43.429	N	5.426	E	10			0.7	14	NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).	
08	07	28	40.7?	41.130	N	29.233	E	10	G		0.8	8	TURKEY	
08	09	18	40.4?	47.192	N	4.435	E	10	G		0.9	9	FRANCE. ML 2.8 (LDG).	
08	09	28	14.5+	14.043	N	120.038	E	60	*	4.4	1.2	18	LUZON, PHILIPPINE ISLANDS	
08	09	41	42.1?	22.34	S	169.44	E	156	?	4.1	1.0	18	LOYALTY ISLANDS REGION	
08	10	46	19.1?	34.23	N	135.25	E	10	G		0.3	4	NEAR S. COAST OF SOUTHERN HONSHU. MG 2.3 (JMA). Felt (I JMA) at Wakayama.	
08	11	34	25.2+	1.561	S	77.422	W	194	*	4.5	0.8	17	ECUADOR	
08	12	44	18.8+	41.598	N	22.299	E	10	G		1.8	5	YUGOSLAVIA. ML 1.9 (SKO).	
08	12	45	55.9+	13.288	N	50.751	E	10	G	4.4	1.4	10	EASTERN GULF OF ADEN	
08	13	38	44.7?	61.458	N	142.890	W	66				23	SOUTHERN ALASKA. <AGS-P>.	
08	14	10	00.8?	58.181	N	153.425	W	65				27	KODIAK ISLAND REGION. <AGS-P>.	
08	14	20	07.4?	49.07	N	6.89	E	10	G		0.8	5	GERMANY. MD 2.2 (STR).	
08	15	19	49.1?	52.08	N	170.84	W	33	N	4.5	0.9	7	FOX ISLANDS, ALEUTIAN ISLANDS	
08	15	23	25.5+	6.798	S	129.049	E	213	*	4.6	1.0	14	BANDA SEA	
08	15	53	24.3+	8.484	S	68.014	E	10	G	4.5	0.9	18	CHAGOS ARCHIPELAGO REGION	
08	16	04	28.6	6.947	S	154.602	E	47	*	5.0	0.9	23	SOLOMON ISLANDS	
08	16	29	52.0?	37.418	N	121.747	W	6				12	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK). Felt at San Jase.	
08	17	06	47.8?	40.392	N	127.280	W	5	G	4.1		23	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 4.1 (BRK).	
08	18	10	07.5+	11.601	S	120.436	E	33	N	4.2	0.7	6	SOUTH OF SUMBA ISLAND	
08	19	58	45.6	6.958	S	154.505	E	34		4.9	0.7	32	SOLOMON ISLANDS	
08	20	55	14.1	62.990	N	149.415	W	73	?		1.3	11	CENTRAL ALASKA	
08	21	35	39.4	43.381	N	5.431	E	10	G		0.9	18	NEAR SOUTH COAST OF FRANCE. MD 2.8 (STR).	
08	23	34	03.1?	59.802	N	153.268	W	121				38	SOUTHERN ALASKA. <AGS-P>.	
a	08	23	46	41.4	55.623	S	26.795	W	24	D	5.5 5.6	1.1	95	SOUTH SANDWICH ISLANDS REGION
09	01	14	17.0	39.385	N	0.363	E	10	G		1.0	12	SPAIN. MG 3.2 (MDD).	
a	09	02	06	39.4+	55.748	S	26.818	W	26	D	5.3 5.0	1.2	37	SOUTH SANDWICH ISLANDS REGION
09	02	15	53.1+	55.795	S	26.527	W	20	D	5.3 5.7	0.8	23	SOUTH SANDWICH ISLANDS REGION	
09	02	26	31.2+	41.782	N	22.645	E	10	G		1.2	5	YUGOSLAVIA. ML 1.8 (SKO).	
09	02	30	58.7+	51.237	N	15.726	E	10	G		1.5	12	POLAND. ML 3.9 (VKA), 3.6 (KBA).	
a	09	04	21	22.8	52.035	N	169.899	W	33	N	5.1 4.8	0.9	116	FOX ISLANDS, ALEUTIAN ISLANDS. ML 5.1 (PMR).
09	05	15	45.8	42.685	N	101.898	W	5	G		0.9	21	NEBRASKA. mbLg 3.8 (NEIS). Felt (V) at Merriman; (IV) at Cady and Rushville; (III) at Ashby, Bingham, Croakston, Gardan, Hay Springs, Kilgore, Mullen, Nenzel, Valentine and White Clay; (II) at Sparks and Thedford. Also felt (IV) at Manderson and (III) at Allen, Batesland and Martin, South Dakota.	
09	07	02	54.5?	46.347	N	3.778	E	10	G		0.7	10	FRANCE. ML 2.7 (LDG).	
09	08	58	32.8?	40.355	N	30.678	E	10	G		1.0	6	TURKEY	
09	10	19	19.7?	42.382	N	8.513	W	5	G		0.5	5	SPAIN. MG 3.0 (MDD). Felt (III) in the Pantevedra area.	
09	10	43	50.0	45.551	N	26.428	E	150	?		0.9	20	ROMANIA	
09	10	54	31.6+	45.010	N	6.481	E	10	G		0.5	9	FRANCE. ML 2.2 (GEN).	
09	12	26	32.1+	38.929	N	143.006	E	10	G	4.4	1.1	13	OFF EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Yamagata.	
09	13	11	23.2	43.400	N	5.428	E	10	G		1.0	19	NEAR SOUTH COAST OF FRANCE. MD 2.9 (STR).	
09	13	28	06.4?	60.114	N	4.829	E	10	G		1.1	5	SOUTHERN NORWAY. MD 2.1 (BER).	
09	13	38	19.8	23.215	N	123.384	E	8		4.8	1.0	54	SOUTHWESTERN RYUKYU ISLANDS	
09	15	25	24.1	39.025	N	27.674	E	10			1.3	22	TURKEY. MD 3.8 (ATH).	
09	15	29	44.4+	41.372	N	141.990	E	113	?	4.4	1.0	17	HOKKAIDO, JAPAN REGION	
09	17	55	06.8?	61.795	N	149.584	W	41				28	SOUTHERN ALASKA. <AGS-P>.	
09	18	43	44.1?	40.24	N	125.58	W	10	G		0.7	6	OFF COAST OF NORTHERN CALIFORNIA. ML 3.2 (BRK).	
a	09	18	58	26.7	41.997	S	88.081	E	22	D	5.2 5.3	1.0	48	SOUTHEAST INDIAN RISE
09	19	16	41.9	0.501	N	122.264	E	108	*	4.7	0.9	30	MINAHASSA PENINSULA	
09	20	57	12.2?	61.020	N	152.386	W	111				28	SOUTHERN ALASKA. <AGS-P>.	
09	21	13	19.5+	33.746	S	179.349	W	82	?	4.7	1.0	15	SOUTH OF KERMADEC ISLANDS	
09	21	55	52.1	7.536	N	126.703	E	98		4.7	0.9	54	MINDANAO, PHILIPPINE ISLANDS	
09	22	31	24.4+	38.053	N	106.309	E	10	G	3.2	1.2	8	NORTHERN CHINA. ML 4.0 (BJI).	
a	09	22	49	02.1	22.611	S	66.086	W	247		5.2	1.0	120	JUJUY PROVINCE, ARGENTINA
09	23	22	07.6	39.826	N	120.772	W	5	G		0.7	8	NORTHERN CALIFORNIA. ML 2.4 (BRK).	
09	23	49	16.1	8.548	S	29.836	E	35	D	5.2	0.9	127	LAKE TANGANYIKA REGION	
10	00	36	49.3	26.019	N	99.523	E	10	G	4.4	1.5	34	YUNNAN PROVINCE, CHINA. ML 4.3 (BJI).	
10	01	04	24.0?	50.065	N	64.655	W	18	G			23	EASTERN QUEBEC. <OTT-P>. mbLg 4.4 (OTT). Felt (IV) at Riviere-St.-Jean and Mingan; (III) at Port-Cartier, Sept-Iles and Port-Menier.	
10	01	17	25.3?	59.282	N	152.005	W	54				27	SOUTHERN ALASKA. <AGS-P>.	
10	01	28	57.8+	51.190	N	15.678	E	5	G		1.2	9	POLAND. ML 3.5 (VKA), 3.4 (KBA).	
10	03	56	19.9?	33.000	N	117.860	W	6	G			16	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).	

10	04 25 25.7*	35.259 N	27.027 E	10 G	0.9	5	DODECANESE ISLANDS. MD 3.8 (ATH).
10	04 31 04.2	44.439 N	7.274 E	10 G	0.9	20	NORTHERN ITALY. ML 2.9 (LDG). 2.8 (GEN).
10	04 53 28.7	40.278 N	25.650 E	10 G	1.1	24	AEGEAN SEA. MD 3.7 (ATH).
10	06 30 06.3&	37.448 N	121.782 W	7		13	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).
10	06 45 09.1	16.994 N	62.239 W	10 G	0.8	8	LEEWARD ISLANDS. ML 3.1 (FDF).
10	07 43 58.6*	20.334 S	177.743 W	512 * 4.9	0.9	23	FIJI ISLANDS REGION
10	08 26 07.6*	51.148 N	176.168 W	33 N 4.9	1.1	20	ANDREANOF ISLANDS, ALEUTIAN IS.
10	09 23 24.7%	60.474 N	5.364 E	0 G	0.5	5	SOUTHERN NORWAY. MD 2.0 (BER). Probable explosion.
10	09 25 35.1	41.321 N	15.692 E	10 G	1.2	6	SOUTHERN ITALY
10	10 12 07.8?	3.68 N	91.21 W	10 G 4.6 3.6	0.8	14	EAST CENTRAL PACIFIC OCEAN
f 10	11 15 24.6	2.305 N	126.760 E	44 G 6.2 6.8	1.3	376	MOLUCCA PASSAGE. Ms 6.6 (BRK), 6.4 (PAS). Ma=4*10**19 Nm (PPT). Felt at Manado and Bitung, Sulawesi. Depth from broadband displacement seismograms.
10	11 26 07.0*	2.247 N	126.776 E	33 N 5.3	0.9	18	MOLUCCA PASSAGE
10	11 33 55.4	37.732 N	15.091 E	10 G	1.2	12	SICILY. ML 2.9 (ROM).
10	11 36 26.4	2.319 N	126.571 E	33 N 5.4	1.1	62	MOLUCCA PASSAGE
10	11 37 15.3	2.443 N	126.566 E	33 N 5.4	1.0	64	MOLUCCA PASSAGE
10	11 38 05.0*	2.244 N	126.580 E	33 N 5.4	1.0	15	MOLUCCA PASSAGE
10	11 47 37.0	2.438 N	126.529 E	33 N 5.3	1.3	49	MOLUCCA PASSAGE
10	11 58 13.8	2.157 N	126.564 E	33 N 5.2	1.0	24	MOLUCCA PASSAGE
10	12 07 43.8	2.398 N	126.628 E	42 * 5.3	1.1	125	MOLUCCA PASSAGE
10	12 12 05.2	2.254 N	126.598 E	47 5.6	1.1	127	MOLUCCA PASSAGE
10	12 16 48.0	2.455 N	126.637 E	33 N 5.5	1.1	112	MOLUCCA PASSAGE
10	12 27 44.3	2.376 N	126.648 E	33 N 5.2	0.8	56	MOLUCCA PASSAGE
10	12 56 16.7*	2.360 N	126.937 E	33 N 4.7	0.4	14	MOLUCCA PASSAGE
10	12 59 30.5	2.429 N	126.700 E	33 N 5.6	1.1	184	MOLUCCA PASSAGE
10	13 33 53.4	2.167 N	126.578 E	33 N 5.2	1.2	73	MOLUCCA PASSAGE
10	13 41 52.2	2.206 N	126.590 E	33 N 4.9	0.9	48	MOLUCCA PASSAGE
10	14 06 29.7	2.367 N	126.563 E	40 * 5.3	1.1	141	MOLUCCA PASSAGE
10	14 11 26.1%	40.266 N	28.910 E	10 G	1.3	8	TURKEY
10	14 16 54.9*	2.439 N	126.617 E	33 N 4.4	1.0	15	MOLUCCA PASSAGE
10	14 17 24.2	40.430 N	21.254 E	9	1.1	26	GREECE. ML 3.2 (TTG), 3.2 (TIR).
10	14 21 38.9	2.405 N	126.663 E	33 N 5.2	0.9	44	MOLUCCA PASSAGE
10	14 31 52.5	2.357 N	126.558 E	33 N 4.8	0.7	21	MOLUCCA PASSAGE
10	14 45 33.5*	2.471 N	126.681 E	33 N 4.5	0.6	16	MOLUCCA PASSAGE
10	14 52 59.1&	61.615 N	149.556 W	32		38	SOUTHERN ALASKA. <AGS-P>. ML 3.0 (PMR).
10	15 04 25.6?	1.36 N	125.19 E	33 N 4.6	1.3	9	MOLUCCA PASSAGE
o 10	15 22 59.3?	13.16 S	166.90 E	192 ? 4.7	1.1	15	VANUATU ISLANDS
10	15 23 55.9	2.464 N	126.689 E	38 5.5 4.6	1.0	166	MOLUCCA PASSAGE
10	15 39 35.2*	2.416 N	126.571 E	33 N 4.9	1.2	24	MOLUCCA PASSAGE
10	15 49 51.2	9.627 S	113.218 E	33 N 4.8	1.1	20	SOUTH OF JAVA
10	15 55 14.8?	37.72 N	1.56 W	5 G	0.3	4	SPAIN. MG 2.4 (MDD).
10	15 56 32.6*	2.390 N	126.547 E	33 N 4.7	0.7	19	MOLUCCA PASSAGE
10	16 05 40.0*	2.440 N	126.588 E	33 N 4.8	1.1	22	MOLUCCA PASSAGE
10	16 10 05.5*	45.624 N	15.582 E	10 G	0.8	6	YUGOSLAVIA. ML 2.3 (KBA). MD 3.1 (LJU).
10	16 13 50.1?	1.72 N	125.77 E	33 N 4.5	1.3	15	MOLUCCA PASSAGE
10	16 30 40.5	2.465 N	126.663 E	33 N 5.1	1.1	56	MOLUCCA PASSAGE
o 10	16 59 20.5	6.317 N	92.269 E	42 D 5.3 5.3	1.1	210	NICOBAR ISLANDS REGION
10	17 47 39.0*	54.368 N	142.823 E	33 N 4.7	1.4	28	SAKHALIN ISLAND
10	17 55 11.3?	10.82 N	62.85 W	33 N	0.4	9	NEAR COAST OF VENEZUELA. MG 4.2 (FDF).
10	18 30 43.4*	2.361 N	126.632 E	33 N 4.8	1.0	26	MOLUCCA PASSAGE
10	18 51 12.9	39.715 N	26.361 E	10 G	0.9	8	TURKEY
10	19 31 01.4&	62.302 N	151.327 W	89		17	CENTRAL ALASKA. <AGS-P>.
o 10	19 56 54.0	2.445 N	126.612 E	33 N 5.5	1.1	136	MOLUCCA PASSAGE
10	20 06 00.0&	37.077 N	116.001 W	0 5.2		198	SOUTHERN NEVADA. <DOE>. ML 5.2 (BRK). 37' 04' 36.42" N., 116' 00' 02.21" W., Surface Elev. 1293 m., Depth of Burial 500 m., Shot Time 200600.055, "TEXARKANA," Nevada Test Site (Dept. of Energy).
10	20 08 48.0	42.805 N	13.188 E	10 G	0.6	18	CENTRAL ITALY. MD 2.9 (SSO).
10	20 15 44.2*	45.098 N	6.482 E	10 G	0.4	12	FRANCE. ML 2.8 (GEN).
o 10	20 29 43.1	2.396 N	126.653 E	33 N 5.3 4.4	1.2	135	MOLUCCA PASSAGE
10	20 41 42.8	44.845 N	7.289 E	20	1.1	39	NORTHERN ITALY. ML 3.1 (GEN), 3.0 (LDG). MD 2.3 (STR).
10	21 39 45.8	2.317 N	126.565 E	33 N 5.1	1.0	63	MOLUCCA PASSAGE
10	22 26 40.4*	34.598 N	22.981 E	33 N 4.6	1.2	20	MEDITERRANEAN SEA. ML 3.5 (ATH).
10	22 30 15.9	2.386 N	126.664 E	33 N 4.9	1.0	35	MOLUCCA PASSAGE
10	22 33 32.0*	27.831 N	66.483 E	33 N 4.1	1.1	16	PAKISTAN
10	23 20 20.4?	45.43 N	147.30 E	33 N 4.9	1.1	10	KURIL ISLANDS
10	23 39 49.6?	10.43 N	62.06 W	30 *	1.0	9	NEAR COAST OF VENEZUELA. MG 4.3 (FDF).
o 10	23 42 29.5	21.556 N	108.245 W	10 G 5.1 4.8	1.1	82	REVILLA GIGEDO ISLANDS REGION. Ms 4.8 (BRK).
11	00 01 08.0	10.312 S	119.262 E	33 N 4.6	0.8	11	SUMBA ISLAND REGION
11	00 05 22.2*	10.267 S	119.389 E	33 N	1.0	8	SUMBA ISLAND REGION
11	00 13 45.2?	22.00 S	172.77 E	33 N 4.9	1.1	8	LOYALTY ISLANDS REGION
11	00 27 20.2*	2.366 N	126.461 E	33 N 4.4	0.8	13	MOLUCCA PASSAGE
11	00 52 23.4*	6.837 N	73.004 W	164 * 4.4	0.8	28	NORTHERN COLOMBIA
11	01 07 43.1	32.872 S	71.375 W	33 N	1.1	14	NEAR COAST OF CENTRAL CHILE
11	01 08 37.7	2.449 N	126.884 E	33 N 4.8	0.6	13	MOLUCCA PASSAGE
11	01 19 40.4	45.202 N	7.486 E	10 G	0.8	17	NORTHERN ITALY. ML 2.7 (GEN), 2.3 (LDG).
11	01 35 30.4	2.372 N	126.608 E	60 * 5.3	1.2	88	MOLUCCA PASSAGE
11	01 40 38.2	64.457 N	153.425 W	14 4.1	1.3	16	CENTRAL ALASKA. ML 4.3 (PMR).
o 11	01 57 06.8	2.384 N	126.603 E	66 5.2	1.3	128	MOLUCCA PASSAGE
11	02 01 06.8*	39.449 N	18.959 E	10 G	1.2	13	SOUTHERN ITALY. MG 3.0 (TIR).
11	02 15 22.0%	42.338 N	19.255 E	10 G	1.0	5	YUGOSLAVIA. MD 2.2 (TTG).
11	02 33 37.0	5.846 S	153.282 E	36 * 4.8	0.9	23	NEW IRELAND REGION
11	02 42 13.4*	2.140 N	126.859 E	33 N 4.5	0.9	9	MOLUCCA PASSAGE
11	02 46 12.1	47.970 N	16.986 E	19	1.2	31	AUSTRIA. ML 3.9 (KBA). Felt (VI) at Halbturm. Felt (IV) at Bratislava, Czechoslovakia. Also felt at Rusavce and Samarin, Czechoslovakia.
11	02 50 04.2*	39.736 N	26.311 E	10 G	1.1	8	TURKEY
11	03 43 18.4%	39.046 N	28.639 E	10 G	1.5	8	TURKEY
o 11	04 05 20.7	2.442 N	126.685 E	33 N 5.2 4.1	1.2	91	MOLUCCA PASSAGE
11	04 48 12.1	44.223 N	6.405 E	10 G	0.5	12	FRANCE. ML 2.6 (GEN), 2.6 (LDG).
11	08 06 36.3&	59.962 N	153.618 W	150		39	SOUTHERN ALASKA. <AGS-P>.
11	08 13 48.1	45.728 N	7.789 E	10 G	0.2	8	NORTHERN ITALY. ML 2.9 (GEN).

11	10	01	42.6*	6.043 S	103.290 E	33 N	4.9	1.1	24	SOUTHWEST OF SUMATERA
11	10	28	21.4*	39.901 N	25.700 E	10 G		0.9	5	AEGEAN SEA
11	10	36	35.9*	39.679 N	25.936 E	10 G		0.7	5	AEGEAN SEA
11	11	32	52.3	44.286 N	6.786 E	10 G		0.3	23	FRANCE. ML 2.9 (GEN), 2.8 (LDG).
11	11	56	20.1*	4.835 N	95.420 E	33 N	4.7	1.1	21	NORTHERN SUMATERA
11	12	49	40.3	7.931 N	72.214 W	33 N	4.4	0.9	14	NORTHERN COLOMBIA
11	12	59	48.5*	36.598 N	71.263 E	33 N	4.1	0.9	12	AFGHANISTAN-USSR BORDER REGION
11	13	26	07.3*	36.371 N	139.959 E	33 N		0.5	7	HONSHU, JAPAN
11	14	53	17.1*	58.164 N	151.378 W	79			36	KODIAK ISLAND REGION. <AGS-P>.
11	14	59	45.4	44.523 N	8.844 E	10 G		1.0	18	NORTHERN ITALY. ML 2.9 (LDG), 2.8 (GEN).
11	15	23	07.0*	7.262 S	128.490 E	76	4.1	0.6	14	BANDA SEA
a 11	15	44	25.5	15.806 S	167.657 E	148 *	5.6	1.1	156	VANUATU ISLANDS
11	16	20	47.3	44.224 N	6.346 E	10 G		0.7	23	FRANCE. ML 2.8 (LDG).
11	16	34	19.7*	62.358 N	151.170 W	93			40	CENTRAL ALASKA. <AGS-P>.
11	16	34	33.0*	59.997 N	6.576 E	10 G		1.1	6	SOUTHERN NORWAY. MD 2.1 (BER).
11	17	48	50.9*	16.85 N	100.52 W	33 N		0.6	5	NEAR COAST OF GUERRERO, MEXICO
11	17	52	19.1*	38.438 N	30.615 E	10 G		0.6	5	TURKEY
11	18	31	11.8	2.983 S	145.386 E	33 N	5.0 4.4	1.2	25	ADMIRALTY ISLANDS REGION
11	18	44	16.5*	2.403 N	126.823 E	33 N	4.4	0.6	14	MOLUCCA PASSAGE
11	19	40	07.7*	2.367 N	126.582 E	33 N	4.4	1.0	15	MOLUCCA PASSAGE
11	20	51	21.9	43.146 N	0.213 E	10 G		0.8	12	FRANCE. ML 3.5 (LDG). Felt (III) at Arreau and Aragnouet.
11	20	57	19.3*	37.033 N	5.267 W	10 G		0.3	5	SPAIN. MG 3.0 (MDD).
12	00	48	32.9	44.232 N	6.290 E	10 G		0.8	27	FRANCE. ML 3.0 (LDG).
12	02	20	05.3	42.761 N	18.624 E	10 G		1.3	24	YUGOSLAVIA. MD 2.7 (TTG).
12	02	51	34.2*	40.648 N	27.397 E	10 G		0.3	5	TURKEY
12	03	52	02.3	44.230 N	6.346 E	11		0.8	65	FRANCE. ML 3.8 (LDG). MD 3.6 (STR).
12	04	15	06.8	49.925 N	78.740 E	0 G	5.9 4.6	0.9	452	EASTERN KAZAKH SSR
12	04	22	26.8*	33.55 S	72.46 W	18		0.4	8	OFF COAST OF CENTRAL CHILE
12	05	57	05.2	2.357 N	126.634 E	33 N	4.6	0.9	44	MOLUCCA PASSAGE
12	06	00	10.6	2.245 N	126.752 E	33 N	4.6	1.4	34	MOLUCCA PASSAGE
12	06	47	13.2*	38.822 N	122.775 W	5			14	NORTHERN CALIFORNIA. <BRK>. ML 3.8 (BRK). Mo=2.0*10**14 Nm (BRK). Felt (V) at Loch Lomond and (III) at St. Helena. Also felt at Geyserville.
o 12	07	55	47.5	26.216 N	96.866 E	33 N	5.0 4.4	1.2	116	BURMA
12	08	15	18.0	2.198 S	138.377 E	33 N	5.1 4.3	0.7	29	WEST IRIAN
12	08	42	53.1	57.379 N	33.452 W	10 G	4.7	0.9	59	NORTH ATLANTIC OCEAN
12	08	50	18.7	57.398 N	33.239 W	10 G	4.6	0.8	43	NORTH ATLANTIC OCEAN
12	10	05	18.1*	57.232 N	33.207 W	10 G	4.4	0.8	20	NORTH ATLANTIC OCEAN
12	10	12	01.7	57.295 N	33.323 W	10 G	4.9	1.0	107	NORTH ATLANTIC OCEAN
12	10	15	36.9	63.975 N	148.943 W	136 ?		0.6	8	CENTRAL ALASKA
12	10	20	21.4*	15.793 S	167.673 E	218 *	4.7	1.1	34	VANUATU ISLANDS
a 12	11	05	53.7	57.292 N	33.535 W	10 G	5.2 5.2	1.4	148	NORTH ATLANTIC OCEAN
12	11	11	37.9*	59.922 N	153.107 W	114			17	SOUTHERN ALASKA. <AGS-P>.
12	11	18	39.9	21.462 S	178.840 W	539 *	5.1	1.0	135	FIJI ISLANDS REGION
12	12	02	19.0	36.391 N	2.648 E	10 G	4.4	1.3	122	ALGERIA
12	12	13	32.5*	39.136 N	27.680 E	10 G		1.0	5	TURKEY
12	13	25	47.0	57.335 N	33.301 W	10 G	4.6	0.7	28	NORTH ATLANTIC OCEAN
a 12	14	26	47.6	19.694 N	74.361 W	60 D	5.2	0.9	179	CUBA REGION. Minor damage in the Santiago de Cuba-Maisi-Guantonamo area.
12	16	24	37.0	7.342 S	128.529 E	140 *	4.8	1.1	37	BANDA SEA
12	16	50	04.8	42.372 N	126.748 W	10 G	4.1	0.7	38	OFF COAST OF OREGON
12	17	53	18.9*	42.99 N	16.22 E	10 G		1.5	10	ADRIATIC SEA. ML 2.3 (KBA).
12	19	49	05.8*	37.833 N	122.602 W	7			12	CENTRAL CALIFORNIA. <BRK>. ML 3.1 (BRK). Mo=5.4*10**13 Nm (BRK). Felt (III) at San Francisco.
12	19	49	50.4*	37.847 N	122.602 W	5			9	CENTRAL CALIFORNIA. <BRK>. ML 2.9 (BRK). Mo=3.7*10**13 Nm (BRK).
12	19	50	35.4*	37.838 N	122.603 W	6			10	CENTRAL CALIFORNIA. <BRK>. ML 2.7 (BRK). Mo=2.5*10**13 Nm (BRK).
o 12	20	03	16.7	2.742 N	79.727 W	33 N	5.0 4.1	1.2	89	SOUTH OF PANAMA
12	21	11	31.6*	18.606 N	65.952 W	10 G		0.6	6	PUERTO RICO REGION
12	22	35	45.2*	24.11 S	64.84 W	31 *		1.4	6	SALTA PROVINCE, ARGENTINA
12	23	44	55.4*	30.041 N	89.958 E	33 N	3.5	1.4	11	TIBET
12	23	49	17.0	50.995 N	84.172 E	33 N	4.6	1.0	62	CENTRAL USSR
13	00	08	36.6*	6.86 S	129.45 E	215 ?		0.5	5	BANDA SEA
13	00	35	11.3	44.820 N	14.650 E	10 G		1.2	104	ADRIATIC SEA. ML 4.2 (LDG), 4.1 (ZAG), 4.0 (KBA). Felt (VI) in the Senj area, Yugoslavia. Also felt on Krk and Rab.
13	01	41	57.2*	38.285 N	20.764 E	10 G		1.1	6	GREECE. MD 3.0 (ATH).
13	02	02	12.5	1.312 N	127.365 E	122 *	5.2	1.0	82	HALMAHERA
13	02	09	46.7	17.516 N	62.020 W	41		0.5	23	LEEWARD ISLANDS. MD 4.1 (TRN). Felt (III) on Antigua. Also felt on St. Bortholomey.
13	02	14	31.6*	62.464 N	149.482 W	58			38	CENTRAL ALASKA. <AGS-P>.
13	02	15	33.2*	38.336 N	76.648 E	33 N	4.4	1.4	12	SOUTHERN XINJIANG, CHINA
13	02	55	49.5*	54.296 N	166.287 W	33 N	4.9	0.7	14	FOX ISLANDS, ALEUTIAN ISLANDS
13	04	09	33.3	8.766 S	106.075 E	33 N	4.8 3.7	1.1	55	SOUTH OF JAVA
13	06	00	28.6*	37.843 N	122.605 W	6			15	CENTRAL CALIFORNIA. <BRK>. ML 3.0 (BRK). Mo=1.2*10**14 Nm (BRK). Felt (III) at San Rafael. Also felt at San Francisco and in southern Marin County.
13	06	41	41.1*	37.743 N	122.130 W	5			18	CENTRAL CALIFORNIA. <BRK>. ML 3.1 (BRK). Mo=2.2*10**14 Nm (BRK). Felt (IV) at Oakland. Also felt at San Rafael and in southern Marin County.
13	07	03	54.1*	6.26 S	155.24 E	89 ?	4.3	1.6	10	SOLOMON ISLANDS. Felt (III) at Arawa, Bougainville.
13	08	01	41.9*	37.838 N	122.603 W	8			11	CENTRAL CALIFORNIA. <BRK>. ML 3.6 (BRK). Mo=3.1*10**14 Nm (BRK). Felt at El Cerrito, Inverness, Muir Woods, Son Francisco and San Rafael.
a 13	08	06	55.8	7.957 N	38.092 W	10 G	5.4 5.3	1.2	167	CENTRAL MID-ATLANTIC RIDGE
13	08	43	28.2	14.107 N	124.279 E	33 N	4.8 4.5	1.0	33	LUZON, PHILIPPINE ISLANDS
13	09	11	16.3*	38.865 N	26.691 E	10 G		1.0	5	AEGEAN SEA
13	10	19	09.8*	38.97 N	57.31 E	33 N	4.7	0.8	5	IRAN-USSR BORDER REGION
13	10	24	34.0*	60.608 N	6.271 E	10 G		0.9	7	SOUTHERN NORWAY. MD 2.1 (BER).
13	10	59	29.3*	60.605 N	6.174 E	10 G		0.9	5	SOUTHERN NORWAY. MD 2.1 (BER).
a 13	11	25	41.0	2.352 N	126.716 E	33 N	5.2 4.6	1.0	87	MOLUCCA PASSAGE

13	11 27 54.8	41.685 N	19.443 E	10 G	0.9	14	ALBANIA. MD 2.5 (TTG).
a 13	12 15 20.0	4.987 N	126.915 E	88	5.7	1.0	243 TALAUD ISLANDS
13	12 58 18.7*	26.199 S	179.457 E	532 ?	4.7	1.2	39 SOUTH OF FIJI ISLANDS
13	13 16 57.9%	43.412 N	5.464 E	10 G	0.6	7	NEAR SOUTH COAST OF FRANCE. MD 2.8 (STR).
13	14 04 58.9	43.144 N	26.752 E	10 G	0.3	6	BULGARIA
13	14 05 44.4	38.331 N	21.879 E	10 G	1.4	11	GREECE. ML 3.1 (ATH).
13	14 09 10.9	30.528 S	116.866 E	10 G	1.5	8	WESTERN AUSTRALIA
13	14 17 15.7*	57.914 S	25.714 W	33 N	5.2	1.2	41 SOUTH SANDWICH ISLANDS REGION
13	14 23 02.3*	27.536 N	54.351 E	33 N	4.5	1.2	16 SOUTHERN IRAN
a 13	14 51 24.6	57.449 N	33.177 W	10 G	5.2 5.2	1.0	184 NORTH ATLANTIC OCEAN. Ms 5.4 (BRK).
13	14 58 19.4%	40.400 N	125.088 W	7		17	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.4 (BRK).
a 13	15 14 47.6	57.443 N	33.251 W	10 G	5.2 5.2	1.1	177 NORTH ATLANTIC OCEAN
13	15 47 00.4*	23.779 N	44.811 W	10 G	4.8	1.1	11 NORTH ATLANTIC RIDGE
13	15 51 06.3	9.377 N	123.334 E	55 *	4.8 4.5	1.4	38 NEGROS, PHILIPPINE ISLANDS
13	16 27 34.1*	57.484 N	33.148 W	10 G	4.7	0.8	20 NORTH ATLANTIC OCEAN
13	16 57 10.5?	25.85 S	177.60 W	278 ?	4.5	1.3	19 SOUTH OF FIJI ISLANDS
13	17 17 51.9*	51.211 N	15.909 E	10 G		0.5	6 POLAND. ML 3.3 (VKA), 3.1 (KBA).
13	17 22 08.9*	20.522 S	135.963 E	5 G		0.3	5 NORTHERN TERRITORY, AUSTRALIA
13	17 30 26.8*	20.279 S	70.440 W	33 N		0.6	6 NEAR COAST OF NORTHERN CHILE
13	17 32 48.1	45.895 N	1.443 W	10 G		0.8	23 FRANCE. ML 4.0 (LDG).
13	17 46 24.7*	33.211 N	141.179 E	33 N	4.3	1.0	11 OFF EAST COAST OF HONSHU, JAPAN
13	18 08 04.6%	16.086 N	61.335 W	33 N		1.1	10 LEEWARD ISLANDS. ML 2.8 (FDF).
13	19 03 23.7*	51.640 N	6.788 E	10 G		0.4	6 GERMANY
13	19 30 48.9?	51.38 N	176.04 W	33 N	4.3	0.9	7 ANDREANOF ISLANDS, ALEUTIAN IS.
13	19 53 27.9	43.133 N	13.442 E	10 G		0.8	8 CENTRAL ITALY. MD 2.7 (SSO).
13	20 24 01.8*	4.265 N	117.843 E	33 *	4.4	1.0	17 KALIMANTAN
13	20 55 07.4?	32.56 N	131.08 E	168 ?		0.3	7 KYUSHU, JAPAN
13	20 56 07.7%	61.098 N	131.252 W	18		7	SOUTHERN YUKON TERRITORY, CANADA. <PGC-P>. ML 4.2 (PGC).
13	21 19 41.6%	58.790 N	154.575 W	119		37	ALASKA PENINSULA. <AGS-P>.
13	21 34 07.4*	38.816 N	142.432 E	39 *	5.1	1.2	33 NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Miyako; (I JMA) at Ofunato and Mariaka.
13	22 33 36.3?	46.11 N	1.24 W	10 G		1.0	6 FRANCE. ML 2.6 (LDG).
13	22 57 32.4	2.903 S	140.671 E	44 *	5.0 3.8	1.0	51 NEAR N. COAST OF WEST IRIAN. Felt at Jayapura.
13	23 13 03.9*	19.258 S	169.079 E	161 *	4.9	1.0	27 VANUATU ISLANDS
a 13	23 43 46.4	25.616 N	142.536 E	30	5.5 5.2	1.1	165 VOLCANO ISLANDS REGION. Ms 5.8 (BRK). Felt (I JMA) on Chichi-shima.
13	23 58 19.3	1.331 S	127.442 E	59 *	5.0	1.3	42 MALMAHERA
14	00 46 59.9	45.922 N	1.456 W	10 G		1.0	24 FRANCE. ML 4.0 (LDG). Felt (III) at Dolus-d'Oleran.
a 14	01 11 28.9*	64.877 S	177.146 E	10 G	5.0 4.7	1.2	16 BALLENY ISLANDS REGION
14	02 24 24.4?	6.18 S	131.43 E	33 N	4.1	0.8	5 TANIMBAR ISLANDS REGION
14	03 59 24.1	25.588 N	142.477 E	77 ?	5.0	1.1	67 VOLCANO ISLANDS REGION
14	04 03 07.4?	10.57 S	124.39 E	33 N		0.3	6 TIMOR
14	04 56 23.8%	37.833 N	122.598 W	7		13	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK). Mo=8.7*10**12 Nm (BRK).
14	05 36 12.3*	16.893 N	62.356 W	33 N		1.1	9 LEEWARD ISLANDS. ML 3.3 (FDF).
f 14	06 20 21.3	10.447 S	161.372 E	32 G	6.0 6.4	1.1	272 SOLOMON ISLANDS. Ms 6.4 (PAS), 6.2 (BRK). Mo=5*10**18 Nm (PPT). Felt (IV) at Honiara, Guadalcanal. Two events about 2 seconds apart. Depth from broadband displacement seismograms, based on second event.
14	07 11 26.7*	38.849 N	20.577 E	10 G		1.3	7 GREECE. MD 3.2 (ATH).
14	07 56 00.7?	15.08 N	98.45 W	33 N		1.3	6 OFF COAST OF GUERRERO, MEXICO
14	08 02 57.9?	16.01 N	98.39 W	33 N	3.6	1.5	7 NEAR COAST OF GUERRERO, MEXICO
14	08 18 29.7%	60.989 N	152.274 W	4		30	SOUTHERN ALASKA. <AGS-P>. ML 3.4 (PMR).
14	10 37 36.0*	10.581 N	61.919 W	27		0.5	8 TRINIDAD
14	11 30 40.0*	50.975 S	71.767 W	98 *		0.5	14 NEAR COAST OF CENTRAL CHILE
a 14	13 05 39.2*	17.422 S	167.426 E	33 N	4.8 4.9	1.5	80 VANUATU ISLANDS
14	13 17 34.4*	17.530 S	167.332 E	33 N	4.9	1.5	65 VANUATU ISLANDS
14	13 25 59.9*	56.784 N	153.259 W	33 N		1.0	31 KODIAK ISLAND REGION. ML 4.5 (PMR).
14	13 58 59.7*	17.588 S	167.678 E	33 N	4.7 4.8	1.5	25 VANUATU ISLANDS
14	14 17 54.7%	43.357 N	143.042 E	33 N		0.8	7 HOKKAIDO, JAPAN REGION
a 14	14 53 06.2*	17.452 S	167.310 E	33 N	4.8 5.1	1.4	72 VANUATU ISLANDS
14	14 57 41.5	43.545 N	13.009 E	10 G		0.6	12 CENTRAL ITALY. MD 2.8 (SSO).
14	15 04 52.2*	36.314 N	76.758 E	33 N	4.7	0.6	10 KASHMIR-XINJIANG BORDER REGION
14	15 43 54.6%	35.040 N	119.160 W	14		27	CENTRAL CALIFORNIA. <PAS-P>. ML 3.9 (PAS), 4.2 (BRK). Felt (III) at Shafter and Simi Valley. Felt (II) at Mettler.
a 14	17 10 47.3	17.511 S	167.579 E	13 *	4.9 4.9	1.5	71 VANUATU ISLANDS
14	18 22 28.5	43.118 N	102.567 E	33 N	4.8	1.0	28 MONGOLIA
14	19 57 00.9%	48.392 N	118.746 W	10		16	WASHINGTON. <SEA>. CL 2.9 (SEA).
14	20 19 19.6*	14.813 N	93.663 W	76 *	3.9	1.0	18 NEAR COAST OF CHIAPAS, MEXICO
14	20 44 15.8%	61.163 N	3.553 E	10 G		0.9	8 NORWEGIAN SEA. MD 2.8 (BER).
14	21 41 10.5%	48.429 N	122.228 W	1	3.6	43	WASHINGTON. <SEA>. ML 4.2 (SEA). Minor damage at Big Lake Elementary School. Felt (V) at Arlington, Clearlake and Lyman; (IV) at Mount Vernon; (III) at Silvana and (II) at Baw. Also felt at Burlington and Sedra Waalley.
14	22 25 41.4*	7.034 N	72.885 W	142 ?	4.6	1.2	13 NORTHERN COLOMBIA
14	22 48 13.8*	17.921 S	167.899 E	33 N	4.8	1.2	27 VANUATU ISLANDS
14	23 46 05.7%	40.547 N	124.843 W	5		6	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.3 (BRK).
15	00 04 04.0%	36.999 N	3.988 W	10 G		0.4	14 STRAIT OF GIBRALTAR. MG 3.4 (MDD). Felt (III) in the Alhama de Granada area.
15	00 05 35.8	42.006 N	142.511 E	70	4.9	0.9	88 HOKKAIDO, JAPAN REGION. Felt (III JMA) at Urukawa and (I JMA) at Hirao and Tamakamai.
15	00 15 12.3?	32.67 S	69.02 W	33 N		1.2	6 MENDOZA PROVINCE, ARGENTINA
15	00 57 17.5*	42.656 N	143.598 E	25 *		1.4	8 HOKKAIDO, JAPAN REGION. Felt (I JMA) at Hirao and Obihira.
15	01 05 56.4%	62.017 N	124.311 W	10 G		8	NORTHWEST TERRITORIES, CANADA. <PGC>. mbLg 3.3 (PGC).
15	01 11 29.7%	48.417 N	122.218 W	0		17	WASHINGTON. <SEA>. CL 2.4 (SEA). Felt in the Mount Vernon and Big Lake areas.
15	01 23 31.9	42.542 N	84.584 E	33 N	4.3	0.9	18 NORTHERN XINJIANG, CHINA
15	01 54 06.5%	37.009 N	3.985 W	10 G		0.6	7 SPAIN. MG 2.8 (MDD).
15	02 15 38.4	40.809 N	28.038 E	10 G		0.7	12 TURKEY

15	03	27	57.2	8.073 S	117.435 E	214 *	4.8	1.1	31	SUMBABA ISLAND REGION
15	03	32	46.5&	59.966 N	140.625 W	0			33	SOUTHEASTERN ALASKA. <AGS-P>. ML 4.0 (PMR), 3.9 (PGC).
15	04	01	15.2	39.058 N	29.744 E	10 G	4.4	1.1	97	TURKEY. MD 4.1 (ATH). Felt in the Kutahya area.
15	04	19	39.9&	62.079 N	148.810 W	40			34	CENTRAL ALASKA. <AGS-P>.
15	04	33	05.5	38.190 N	141.694 E	65	4.8	1.0	40	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Ishinomaki, Ofunato and Sendai; (I JMA) at Fukushima, Morioka and Miyaka.
15	05	31	35.8	39.304 N	117.340 W	5 G		0.4	14	NEVADA. ML 3.1 (NEIS). MD 3.6 (REN). Felt (III) at Austin.
15	05	50	20.1*	6.438 S	127.860 E	33 N	4.8	1.2	15	BANDA SEA
15	06	09	00.8	42.875 N	12.724 E	10 G		0.5	8	CENTRAL ITALY. MD 2.9 (SSO).
15	06	53	16.1%	40.406 N	23.211 E	10 G		1.0	6	GREECE
15	10	04	11.0*	39.478 N	25.309 E	10 G		1.1	6	AEGEAN SEA
15	10	05	16.3	59.250 S	25.623 W	33 N	5.2	0.7	29	SOUTH SANDWICH ISLANDS REGION
15	10	10	08.4	37.290 N	50.304 E	53 *	4.6	1.2	23	CASPIAN SEA
15	10	28	44.0	2.481 N	126.589 E	33 N	5.0	0.9	42	MOLUCCA PASSAGE
15	10	46	09.2*	5.829 N	77.742 W	33 N	4.9 3.5	1.5	23	NEAR WEST COAST OF COLOMBIA
15	12	14	24.3	40.674 N	29.888 E	10 G		0.8	9	TURKEY. Felt at Izmit.
15	13	50	41.4&	33.020 N	115.830 W	2			17	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
15	14	00	29.8	31.383 S	69.215 W	124		1.0	22	SAN JUAN PROVINCE, ARGENTINA. Felt (II) at San Juan.
15	17	52	37.8*	27.494 N	34.492 E	10 G		0.9	11	RED SEA
15	18	09	24.7&	60.580 N	151.704 W	69			32	KENAI PENINSULA, ALASKA. <AGS-P>.
15	19	35	38.9?	59.75 N	5.77 E	10 G		1.7	5	SOUTHERN NORWAY. MD 1.9 (BER).
15	19	58	13.1?	38.44 N	7.90 W	10 G		0.8	5	PORTUGAL. MG 2.9 (MDD).
15	20	55	44.9	44.356 N	7.315 E	10 G		0.3	16	NORTHERN ITALY. ML 2.7 (GEN), 2.7 (LDG).
15	21	00	36.7?	6.21 S	150.40 E	33 N		1.3	5	NEW BRITAIN REGION. ML 4.4 (PMG).
15	21	30	57.8%	15.424 N	61.064 W	10 G		1.1	6	LEEWARD ISLANDS. ML 2.6 (FDF).
15	21	55	54.3	41.641 N	21.581 E	15		1.1	7	YUGOSLAVIA. ML 2.6 (SKO).
15	23	39	19.6&	57.372 N	142.859 W	10 G			24	GULF OF ALASKA. <AGS-P>.
16	00	01	40.5?	37.57 N	142.11 E	33 N	4.5	0.9	8	OFF EAST COAST OF HONSHU, JAPAN
16	01	15	05.9	9.919 N	126.286 E	33 N	5.1	1.0	33	MINDANAO, PHILIPPINE ISLANDS
16	02	44	56.6&	36.753 N	120.482 W	5			12	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).
16	05	00	05.7%	10.688 N	60.891 W	10 G		1.0	6	TRINIDAD
16	05	17	29.1*	21.699 S	173.963 W	33 N	5.0	1.0	46	TONGA ISLANDS
16	05	48	58.1&	57.251 N	142.922 W	10 G	4.5		64	GULF OF ALASKA. <AGS-P>. ML 4.2 (PMR).
16	06	57	46.4	29.239 S	178.560 W	199	4.9	1.1	91	KERMADEC ISLANDS
16	07	06	03.6&	58.343 N	155.823 W	100			15	ALASKA PENINSULA. <AGS-P>.
16	09	57	00.2%	39.085 N	27.634 E	10 G		0.3	6	TURKEY
16	09	57	58.7	5.857 N	125.800 E	123	5.3	1.1	101	MINDANAO, PHILIPPINE ISLANDS
16	10	29	17.8%	39.261 N	27.716 E	10 G		0.5	7	TURKEY
16	11	10	19.1*	7.288 S	130.088 E	70 ?	4.7	1.1	10	TANIMBAR ISLANDS REGION
16	12	07	07.3?	7.36 S	130.60 E	33 N	4.1	0.5	5	TANIMBAR ISLANDS REGION
16	12	24	50.1	43.386 N	5.405 E	10 G		0.8	12	NEAR SOUTH COAST OF FRANCE. MD 2.7 (STR).
16	12	30	58.2*	42.899 N	24.852 E	10 G		1.3	7	BULGARIA
16	12	51	09.2%	40.608 N	27.575 E	10 G		0.3	6	TURKEY
16	13	23	35.8	24.346 S	179.859 E	509 *	4.8	0.8	88	SOUTH OF FIJI ISLANDS
16	13	51	12.0&	34.010 N	117.740 W	3			14	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS). Felt (III) at La Habra. Felt in parts of Los Angeles and San Bernardino Counties.
16	14	30	45.3*	40.497 N	142.117 E	33 N	4.8	0.9	12	NEAR EAST COAST OF HONSHU, JAPAN
16	15	02	09.8*	37.464 N	30.707 E	21 *		0.6	6	TURKEY
16	15	21	45.0	7.741 S	127.397 E	63 ?	4.5		10	BANDA SEA
16	15	34	00.0?	54.04 N	171.44 W	33 N	4.5	1.6	7	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.7 (PMR).
16	16	03	30.8*	36.519 N	21.627 E	10 G		1.1	5	SOUTHERN GREECE. ML 3.5 (ATH).
o 16	16	36	52.1	56.404 S	121.964 W	10 G	5.4 6.0	1.4	141	EASTER ISLAND CORDILLERA. Ms 6.0 (BRK). Mo=5*10**18 Nm (PPT).
16	18	41	29.2?	38.12 N	23.05 E	10 G		1.2	4	GREECE. ML 2.6 (ATH).
16	19	17	07.7&	33.170 N	115.600 W	1			11	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
16	19	27	04.9	37.682 N	15.180 E	10 G		0.2	8	SICILY
a 16	19	42	45.9	2.568 N	126.635 E	56 *	5.1 4.5	1.2	76	MOLUCCA PASSAGE
16	20	26	00.3	2.724 N	126.796 E	33 N	4.8	1.0	21	MOLUCCA PASSAGE
16	20	59	30.7&	48.427 N	122.221 W	0			15	WASHINGTON. <SEA>. CL 2.3 (SEA). Felt in the Mount Vernon area.
16	21	01	38.0?	5.80 S	128.96 E	158 ?	4.3	0.9	5	BANDA SEA
16	21	12	11.6&	48.427 N	122.226 W	0			24	WASHINGTON. <SEA>. CL 2.8 (SEA). Felt at Mount Vernon.
o 16	21	50	37.8	45.313 N	151.805 E	96 D	5.6	0.8	431	KURIL ISLANDS. Felt (III) at Kurilsk.
16	23	16	15.5	37.675 N	21.257 E	44	4.2	1.0	68	SOUTHERN GREECE
16	23	29	32.5	2.571 N	126.525 E	33 N	4.9	1.0	54	MOLUCCA PASSAGE
16	23	30	03.4?	37.53 N	21.11 E	10 G		0.8	5	SOUTHERN GREECE. ML 3.3 (ATH).
o 17	00	39	08.2*	1.821 N	95.037 W	10 G	4.7 4.8	0.7	22	GALAPAGOS ISLANDS REGION
o 17	01	14	00.1	35.926 N	21.584 E	33 N		1.2	27	MEDITERRANEAN SEA. ML 4.1 (ATH).
o 17	01	14	27.8	0.455 N	126.345 E	39	5.3 5.1	1.0	131	MOLUCCA PASSAGE
17	01	18	51.2?	46.13 N	1.41 E	10 G		1.5	5	FRANCE. ML 2.7 (LDG).
17	01	28	56.3*	0.546 N	125.966 E	33 N	4.4	0.8	6	MOLUCCA PASSAGE
17	02	24	05.7	38.676 N	22.634 E	41	4.3	1.2	81	GREECE. MD 4.1 (ATH).
17	02	33	19.9	38.741 N	22.711 E	10 G		0.8	13	GREECE. ML 3.0 (ATH).
17	02	40	46.2*	35.735 N	22.292 E	10 G		1.2	13	MEDITERRANEAN SEA. MD 3.8 (ATH).
17	03	28	55.6*	38.092 N	21.754 E	33 N		0.8	6	GREECE. MD 2.9 (ATH).
o 17	04	01	06.9	49.868 N	78.079 E	0 G	5.0	0.9	124	EASTERN KAZAKH SSR
o 17	05	01	43.4	21.857 S	176.372 W	141 D	5.4	1.1	117	FIJI ISLANDS REGION
17	05	51	49.2	46.403 N	12.672 E	10 G		0.9	7	NORTHERN ITALY. ML 1.7 (KBA).
17	06	10	26.6	35.134 N	119.116 W	5 G		0.7	14	CENTRAL CALIFORNIA. ML 3.0 (NEIS).
17	07	38	07.8	57.814 N	138.174 W	10 G	4.7	1.0	70	OFF COAST OF SOUTHEASTERN ALASKA. ML 4.7 (PMR). Felt (IV) at Pelican.
17	07	46	10.0?	27.21 N	140.08 E	421 *	4.5	0.4	8	BONIN ISLANDS REGION
17	09	21	03.2%	39.109 N	27.588 E	10 G		0.6	5	TURKEY
17	09	30	24.9&	38.500 N	122.255 W	4			6	NORTHERN CALIFORNIA. <BRK>. ML 2.6 (BRK).
17	09	52	03.0	43.421 N	5.421 E	10 G		0.7	16	NEAR SOUTH COAST OF FRANCE. MD 2.8 (STR).
17	10	43	12.8%	60.573 N	4.720 E	10 G		1.1	5	SOUTHERN NORWAY. MD 1.6 (BER).
17	12	07	03.3?	40.27 N	124.94 W	10 G		0.3	7	NEAR COAST OF NORTHERN CALIF. ML 3.1 (BRK).
17	12	31	36.8%	41.073 N	28.461 E	10 G		0.4	7	TURKEY
17	13	24	09.9*	31.612 S	69.527 W	33 N		1.2	5	SAN JUAN PROVINCE, ARGENTINA
17	13	43	26.6	22.175 S	68.410 W	122 D	4.7	1.3	38	NORTHERN CHILE

	17	13 56 10.0	43.415 N	5.422 E	10 G	0.6	15	NEAR SOUTH COAST OF FRANCE. MD 3.0 (STR).	
	17	14 16 32.5*	14.914 S	121.129 E	33 N	0.9	7	NORTHWEST OF AUSTRALIA	
	17	14 17 58.9%	36.684 N	141.646 E	10 G	0.8	9	NEAR EAST COAST OF HONSHU, JAPAN	
a	17	15 12 52.6	17.492 S	72.590 W	46	5.2 5.3	1.2	81	NEAR COAST OF PERU. Felt (II) at Arequipa.
	17	15 13 06.6	44.331 N	7.295 E	10 G	0.5	10	NORTHERN ITALY. ML 2.5 (GEN).	
	17	17 27 48.2%	43.743 N	0.206 W	10 G	0.4	10	PYRENEES. ML 3.3 (LDG).	
	17	17 42 50.4*	7.365 S	106.460 E	33 N	4.7	1.0	12	JAVA
	17	18 38 28.8*	32.852 S	71.500 W	12		0.9	13	NEAR COAST OF CENTRAL CHILE
	17	20 04 59.7	44.950 N	6.941 E	10 G		0.7	20	FRANCE. ML 2.8 (GEN), 2.7 (LDG).
	17	21 26 03.3*	40.949 N	21.344 E	22 *		0.6	6	GREECE
	17	22 46 25.9	36.056 N	27.294 E	10 G		0.7	7	DODECANESE ISLANDS. MD 3.5 (ATH).
	17	23 21 32.1	43.519 N	11.144 E	10 G		0.7	8	CENTRAL ITALY. MD 2.7 (ROM).
	17	23 24 31.0	43.470 N	11.124 E	10 G		0.4	9	CENTRAL ITALY. MD 3.0 (ROM). Felt at Barberina di Val d'Elso.
	17	23 48 07.9?	37.63 N	20.85 E	10 G		1.5	7	IONIAN SEA. ML 3.2 (ATH).
	18	00 19 51.6?	31.66 N	35.30 E	10 G		0.5	5	DEAD SEA REGION
	18	00 32 32.2%	60.034 N	153.462 W	154			30	SOUTHERN ALASKA. <AGS-P>.
a	18	00 49 41.2	2.424 N	126.814 E	33 N	5.1 4.9	1.0	70	MOLUCCA PASSAGE
	18	00 58 24.0	33.122 S	70.143 W	124 *		0.7	20	CHILE-ARGENTINA BORDER REGION
	18	00 59 24.6*	2.460 N	127.000 E	33 N	4.6	1.3	12	MOLUCCA PASSAGE
	18	01 11 16.4	2.512 N	126.961 E	33 N	4.9	1.2	29	MOLUCCA PASSAGE
	18	02 42 40.3*	31.872 S	178.470 W	33 N		1.3	23	KERMADEC ISLANDS REGION
	18	03 51 54.3	43.142 N	10.988 E	10 G		0.2	6	CENTRAL ITALY
	18	03 57 42.7*	2.451 N	126.541 E	33 N	4.3	0.7	10	MOLUCCA PASSAGE
	18	04 15 27.7*	2.501 N	127.090 E	33 N	4.2	1.4	11	MOLUCCA PASSAGE
	18	06 27 13.6*	2.626 N	126.822 E	33 N	4.7	1.5	18	MOLUCCA PASSAGE
	18	07 17 04.8%	34.010 N	117.740 W	3	3.8		26	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.3 (PAS). Felt (IV) at Mira Loma, Ontario, Riverside and San Bernardino. Felt in parts of Riverside and San Bernardino Counties.
	18	07 21 49.3	44.790 N	7.295 E	10 G		0.8	17	NORTHERN ITALY. ML 2.7 (GEN), 2.5 (LDG).
	18	09 13 32.0	37.674 N	15.102 E	10 G		0.7	8	SICILY
	18	09 20 14.2*	20.363 S	177.755 W	510 ?	4.8	0.8	57	FIJI ISLANDS REGION
	18	10 12 01.7?	6.02 S	146.95 E	179 ?	4.3	0.8	6	EAST PAPUA NEW GUINEA REGION
	18	10 47 41.4%	41.135 N	28.469 E	10 G		0.6	8	TURKEY
	18	10 50 17.1	16.102 N	61.221 W	10 G		0.8	7	LEEWARD ISLANDS. ML 2.3 (FDF).
a	18	11 01 45.7	7.617 N	94.121 E	33 N	5.3 5.0	1.5	178	NICOBAR ISLANDS REGION
	18	11 12 13.5*	31.276 S	69.331 W	33 N		1.4	12	SAN JUAN PROVINCE, ARGENTINA
	18	11 21 34.4?	7.36 S	129.61 E	86 ?	4.3	1.6	9	BANDA SEA
	18	11 56 54.7%	40.656 N	22.681 E	10 G		0.2	5	GREECE
	18	12 01 06.7	42.783 N	12.487 E	10 G		0.8	35	CENTRAL ITALY. MD 3.6 (TRI).
	18	12 40 48.7%	39.107 N	27.638 E	10 G		0.4	6	TURKEY
	18	12 41 17.8?	19.73 N	66.43 W	10 G		0.3	6	PUERTO RICO REGION
a	18	13 13 34.0*	9.836 N	57.899 E	10 G	5.2	1.4	29	CARLSBERG RIDGE
a	18	13 16 56.9	9.824 N	57.904 E	10 G	4.8 4.9	1.3	39	CARLSBERG RIDGE
	18	13 42 23.0*	11.496 N	86.514 W	33 N		0.4	15	NEAR COAST OF NICARAGUA
	18	13 59 28.9*	7.789 N	94.239 E	33 N	3.9	1.4	8	NICOBAR ISLANDS REGION
	18	14 02 45.0%	39.226 N	117.333 W	10 G			9	NEVADA. <REN>. MD 3.3 (REN).
	18	14 12 12.7*	16.583 N	95.383 W	75 *	4.5	1.3	26	OAXACA, MEXICO
	18	16 40 40.8?	55.76 S	29.81 W	33 N	5.1	1.5	14	SOUTH SANDWICH ISLANDS REGION
	18	17 08 38.5	7.072 S	146.997 E	22	4.9 4.5	1.3	54	EAST PAPUA NEW GUINEA REGION
	18	18 29 57.1	51.055 N	176.253 W	33 N	4.6	1.0	51	ANDREANOF ISLANDS, ALEUTIAN IS.
	18	19 38 46.4	51.588 N	16.144 E	10 G		0.7	22	POLAND. ML 4.3 (VKA).
	18	21 10 30.7*	7.381 N	77.823 W	33 N	4.4	1.5	19	PANAMA-COLOMBIA BORDER REGION
	18	21 26 43.2*	11.734 S	117.480 E	33 N	4.6	1.2	8	SOUTH OF SUMBAWA ISLAND
	18	21 58 05.8*	53.196 N	159.198 E	33 N	4.6	0.9	13	NEAR EAST COAST OF KAMCHATKA
	18	22 05 45.3	33.171 N	132.308 E	10 G		1.4	7	SHIKOKU, JAPAN. Felt (I JMA) at Uwajima.
	18	22 16 37.2	43.765 N	13.101 E	10 G		0.8	22	CENTRAL ITALY. MD 3.2 (SSO), 3.2 (TRI).
	18	22 28 32.0*	6.967 S	155.502 E	80 *	4.2	0.9	12	SOLOMON ISLANDS
	18	23 09 55.2*	43.796 N	13.122 E	10 G		0.3	5	CENTRAL ITALY
	18	23 28 44.4*	33.946 S	71.014 W	33 N		0.9	8	NEAR COAST OF CENTRAL CHILE
	18	23 46 57.4	34.838 N	30.425 E	10 G		0.9	16	EASTERN MEDITERRANEAN SEA
	19	00 22 02.2%	61.014 N	151.430 W	65			33	SOUTHERN ALASKA. <AGS-P>.
	19	00 23 38.3*	45.645 N	14.070 E	10 G		1.0	5	YUGOSLAVIA. MD 2.1 (TRI).
	19	01 02 29.7*	2.398 N	126.831 E	33 N	4.7	1.3	16	MOLUCCA PASSAGE
	19	01 11 54.2%	61.826 N	150.124 W	43			41	SOUTHERN ALASKA. <AGS-P>.
a	19	01 45 56.8	7.604 N	94.029 E	22 D	5.2 4.8	1.2	136	NICOBAR ISLANDS REGION
	19	01 50 45.2	40.225 N	21.816 E	10 G		1.4	39	GREECE. ML 3.7 (ATH).
	19	01 50 52.7*	2.363 N	127.024 E	33 N		1.1	8	MOLUCCA PASSAGE
	19	02 34 01.0%	59.995 N	6.536 E	10 G		0.4	5	SOUTHERN NORWAY. MD 1.8 (BER).
	19	02 51 07.2*	30.471 N	69.035 E	33 N	4.3	1.0	7	PAKISTAN
	19	03 36 38.6	34.677 N	24.198 E	18 *	4.2	1.3	88	CRETE. ML 3.9 (ATH).
	19	03 42 55.6*	39.977 N	20.487 E	10 G		1.4	7	GREECE-ALBANIA BORDER REGION
	19	04 23 44.6	7.887 S	73.966 W	48 D	5.2	1.2	81	PERU-BRAZIL BORDER REGION
	19	04 32 01.6	38.909 N	142.554 E	33 N		1.3	9	NEAR EAST COAST OF HONSHU, JAPAN
	19	04 58 23.9	34.595 N	136.477 E	53	4.8 4.1	0.9	79	SOUTHERN HONSHU, JAPAN. Felt (III JMA) at Gifu, Nara, Tsu and Owase; (II JMA) at Hikone, Kyoto, Osaka and Nagoya; (I JMA) at Kobe and Hamamatsu. Also felt (I JMA) at Sumato, Shikoku.
	19	08 21 04.5	43.059 N	13.616 E	10 G		1.0	17	CENTRAL ITALY. MD 3.4 (TRI), 3.0 (SSO).
	19	08 26 50.6*	43.019 N	13.501 E	10 G		0.6	5	CENTRAL ITALY. MD 2.4 (SSO).
	19	08 36 28.0%	39.233 N	27.801 E	24 *		0.4	6	TURKEY
	19	08 50 49.1	48.045 N	148.081 E	339 *	4.6	1.0	64	NORTHWEST OF KURIL ISLANDS
	19	08 52 31.5	40.244 N	21.877 E	10 G		1.0	33	GREECE. MD 3.7 (ATH).
	19	10 22 46.7%	46.894 N	0.441 E	10 G		1.4	16	FRANCE. ML 3.0 (LDG).
a	19	10 39 03.4	2.014 S	138.921 E	33 N	5.5 4.6	1.0	144	WEST IRIAN
	19	10 39 38.9	42.870 N	12.882 E	10 G		0.3	6	CENTRAL ITALY. MD 2.5 (SSO).
	19	11 23 21.2	21.845 S	68.546 W	145 *	4.4	1.1	28	CHILE-BOLIVIA BORDER REGION
	19	11 45 26.5*	25.660 N	142.487 E	33 N	4.8	1.0	23	VOLCANO ISLANDS REGION
	19	12 00 41.8%	39.309 N	115.939 W	10 G			13	NEVADA. <REN>. MD 3.4 (REN).
a	19	12 27 09.9	35.964 N	139.788 E	60	5.5	1.1	287	NEAR S. COAST OF HONSHU, JAPAN. One person killed and one injured. Felt (IV JMA) at Tokyo, Utsunomiya and Mito; (III JMA) at Kumagaya, Choshi, Yokohama and Tateyama; (II JMA) at Shirakawa, Maebashi and

o 19	12 49 09.9	14.894 S	167.171 E	101 D	5.6	1.1	249	Kawaguchi-ka; (I JMA) at Ofunata.
19	13 22 15.7*	2.815 S	138.754 E	33 N	4.6	0.7	8	VANUATU ISLANDS
19	13 27 38.5%	39.119 N	27.324 E	10 G		0.7	6	WEST IRIAN
19	13 47 34.8*	56.307 S	26.776 W	33 N	4.9	1.0	8	TURKEY
19	14 12 32.2?	32.62 N	26.45 E	10 G		0.7	5	SOUTH SANDWICH ISLANDS REGION
o 19	14 28 46.5	37.009 N	28.226 E	10 G	4.7	1.5	182	EASTERN MEDITERRANEAN SEA
								TURKEY. ML 4.9 (CSS). MD 4.5 (ATH), 4.5 (HLW). Felt at
								Mugla and Denizli.
19	15 33 19.9	36.872 N	27.662 E	10 G		1.0	15	DODECANESE ISLANDS
19	17 10 41.4	42.743 N	13.027 E	11		0.8	20	CENTRAL ITALY. MD 3.4 (TRI), 3.0 (SSO).
19	17 42 49.1*	40.111 N	21.764 E	10 G		0.7	6	GREECE. ML 2.3 (THE).
19	17 48 27.4*	8.850 S	105.959 E	33 N	4.9	1.4	20	SOUTH OF JAVA
o 19	17 55 48.5	39.219 S	46.076 E	10 G	5.2 5.2	0.9	44	ATLANTIC-INDIAN RISE
19	21 40 35.5	40.999 N	27.900 E	10 G		1.5	17	TURKEY. MD 3.2 (ATH).
19	21 43 28.0	8.308 S	116.116 E	172	4.4	1.0	21	SUMBAWA ISLAND REGION
19	22 26 24.3*	32.143 S	72.090 W	46 *	4.8	0.9	21	OFF COAST OF CENTRAL CHILE
19	22 55 38.8%	37.677 N	141.775 E	33 N		0.6	8	NEAR EAST COAST OF HONSHU, JAPAN
19	23 47 05.8%	59.774 N	153.410 W	132		1.7	17	SOUTHERN ALASKA. <AGS-P>.
20	00 54 05.2	38.799 N	22.761 E	10 G		0.4	10	GREECE. ML 2.9 (ATH), 2.3 (THE).
20	02 05 42.0*	36.205 N	70.759 E	61 ?	4.7	0.8	13	HINDU KUSH REGION
20	03 25 35.0	38.932 N	3.079 W	10 G		1.0	14	SPAIN. MG 3.8 (MDD). Felt (IV) in the Alhambra area.
20	04 44 15.8*	56.478 N	156.379 W	33 N		1.6	6	ALASKA PENINSULA. ML 3.5 (PMR).
20	05 03 55.2	39.062 N	28.688 E	10 G		1.0	15	TURKEY
20	05 13 56.7*	2.569 N	127.163 E	33 N	4.1	0.5	6	MOLUCCA PASSAGE
20	06 11 31.6	4.667 S	102.788 E	92	4.8	1.0	40	SOUTHERN SUMATERA
20	06 36 19.1?	55.06 N	157.02 W	33 N		1.6	6	ALASKA PENINSULA. ML 3.4 (PMR).
20	07 48 02.1	38.797 N	142.779 E	10 G	4.7	1.2	25	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at
								Ofunata.
20	08 06 41.6	26.816 S	26.714 E	5 G		1.3	10	REPUBLIC OF SOUTH AFRICA. MG 3.6 (BUL).
20	09 20 11.1*	4.788 N	98.593 E	33 N	4.4	1.1	9	NORTHERN SUMATERA
20	10 02 16.2%	41.168 N	28.859 E	10 G		0.6	8	TURKEY
20	11 16 40.0	31.228 N	97.959 E	33 N	4.5 4.2	1.4	28	TIBET
20	11 55 50.2	43.416 N	5.421 E	10 G		0.7	13	NEAR SOUTH COAST OF FRANCE. MD 2.7 (STR).
20	11 59 18.0%	35.324 N	96.464 W	5 G			7	OKLAHOMA. <TUL>. MD 2.1 (TUL).
20	13 34 40.4*	17.674 S	177.478 W	409 *	4.7	0.7	22	FIJI ISLANDS REGION
20	13 44 53.3%	62.131 N	152.220 W	115			22	CENTRAL ALASKA. <AGS-P>.
20	13 45 12.4	41.070 N	28.529 E	10 G		0.6	8	TURKEY
20	14 14 38.2?	58.20 N	6.41 E	10 G		0.7	5	SOUTHERN NORWAY. MD 2.5 (BER).
20	15 29 19.7%	60.148 N	152.821 W	108			17	SOUTHERN ALASKA. <AGS-P>.
20	15 57 31.1	3.215 S	130.169 E	55 *	4.7	1.1	23	CERAM
20	16 37 31.1*	29.220 N	67.659 E	33 N	4.4	1.5	12	PAKISTAN
20	16 49 19.8%	59.288 N	153.506 W	91			21	SOUTHERN ALASKA. <AGS-P>.
20	17 28 27.6%	47.407 N	1.107 W	10 G		1.2	8	FRANCE. ML 2.8 (LDG).
20	19 33 58.4%	32.120 N	114.990 W	6 G			2	W. ARIZ. - MEXICO BORDER REGION. <PAS-P>. ML 3.2 (PAS).
20	20 00 47.3*	27.867 N	130.912 E	33 N	4.2	1.1	17	RYUKYU ISLANDS
20	20 01 52.1	37.077 N	27.938 E	10 G		1.0	10	TURKEY
20	20 14 14.0	31.429 S	68.653 W	10 G		1.0	11	SAN JUAN PROVINCE, ARGENTINA. Felt (III) at San Juan.
20	20 52 25.3	43.230 N	5.005 W	10 G		0.8	27	SPAIN. ML 3.9 (LDG). MG 3.9 (MDD). Felt (IV) in the
								Picas de Europa area.
20	23 34 58.2?	39.18 N	28.77 E	10 G		0.7	5	TURKEY
21	00 03 41.6*	34.660 N	26.036 E	10 G		1.4	5	CRETE. MD 4.0 (ATH).
21	00 54 44.4	39.316 N	27.687 E	10 G		1.3	10	TURKEY. MD 3.0 (ATH).
21	00 57 44.0%	47.495 N	7.579 E	10 G		0.1	5	SWITZERLAND. ML 2.2 (LDG).
21	01 31 03.2%	36.963 N	4.306 W	10 G		0.8	5	STRAIT OF GIBRALTAR
21	01 38 45.4	33.849 N	132.373 E	63	4.0	0.7	17	SHIKOKU, JAPAN. Felt (I JMA) at Kochi and Matsuyama.
21	02 48 36.1	42.075 N	24.954 E	10 G		1.0	13	BULGARIA. ML 2.8 (THE).
21	02 54 04.4*	65.448 N	28.257 E	10 G		1.1	7	FINLAND. MD 3.5 (BER).
21	03 03 47.1	33.406 N	132.359 E	33 N		0.5	6	SHIKOKU, JAPAN. MG 3.4 (JMA). Felt (I JMA) at Uwajima.
21	04 05 42.4?	32.35 S	71.70 W	28 *		0.4	10	NEAR COAST OF CENTRAL CHILE
21	04 22 47.8%	44.642 N	6.835 E	10 G		0.3	7	FRANCE. ML 2.3 (GEN).
21	04 30 02.0%	40.793 N	27.506 E	10 G		0.3	6	TURKEY
21	04 36 03.9?	43.05 N	12.97 E	10 G		0.4	4	CENTRAL ITALY. MD 2.0 (SSO).
21	05 06 42.8%	42.199 N	142.760 E	33 N		0.9	6	HOKKAIDO, JAPAN REGION. MG 2.9 (JMA). Felt (I JMA) at
								Urakawa.
21	05 50 45.6%	43.654 N	2.118 E	10 G		0.8	6	FRANCE. ML 2.3 (LDG).
21	06 48 21.6%	47.324 N	122.460 W	16			53	WASHINGTON. <SEA>. CL 3.0 (SEA). Felt (IV) at Dockton
								and (III) at Keyport and Puyallup. Also felt at Burien,
								Enumclaw, Fife, Federal Way, Port Orchard, Renton,
								Skyway, Tacoma and on Vashon Island.
21	08 32 46.9	43.952 N	12.569 E	10 G		0.8	8	CENTRAL ITALY
21	08 55 26.9	41.372 N	29.289 E	10 G		0.4	9	TURKEY
21	08 56 49.0%	41.390 N	29.309 E	10 G		0.1	5	TURKEY
21	09 00 02.4%	41.370 N	29.240 E	10 G		1.0	7	TURKEY
21	09 19 22.6	24.084 N	123.631 E	54	4.5	1.1	35	SOUTHWESTERN RYUKYU ISLANDS. Felt (I JMA) on
								Ishigaki-shima.
21	09 36 35.4%	39.252 N	27.716 E	10 G		0.6	5	TURKEY
21	10 40 36.9?	52.64 N	157.20 E	33 N	4.3	1.2	13	KAMCHATKA
21	10 55 26.7*	24.831 N	122.641 E	10 G		1.3	6	TAIWAN REGION
21	12 29 46.6*	42.833 N	23.548 E	10 G		1.4	8	BULGARIA. ML 2.6 (THE).
21	12 59 03.5?	40.77 N	30.42 E	10 G		0.9	5	TURKEY
21	13 00 11.9?	51.44 N	178.35 W	33 N	3.9	0.3	4	ANDREANOF ISLANDS, ALEUTIAN IS. Felt (III) on Adak.
21	13 04 15.1	39.223 N	27.805 E	10 G		0.4	7	TURKEY
21	13 15 45.2%	26.195 S	28.135 E	5 G		1.5	5	REPUBLIC OF SOUTH AFRICA
21	13 16 28.3	31.308 S	67.183 W	49	4.9	0.9	49	SAN JUAN PROVINCE, ARGENTINA. Felt (III) at San Juan.
21	13 19 53.2*	41.537 N	23.179 E	10 G		0.6	6	GREECE-BULGARIA BORDER REGION. ML 2.5 (THE).
21	13 29 08.5*	42.325 N	24.135 E	10 G		0.6	7	BULGARIA. MG 3.0 (THE).
21	13 39 27.6%	32.101 S	117.206 E	10 G		0.9	5	WESTERN AUSTRALIA
21	13 42 26.2?	43.03 N	13.03 E	10 G		0.1	4	CENTRAL ITALY
21	13 54 02.0%	39.719 N	28.755 E	10 G		0.7	10	TURKEY
21	14 09 42.5	35.597 N	80.592 E	33 N	4.5 4.0	1.1	31	KASHMIR-TIBET BORDER REGION
21	14 33 35.3	11.922 N	61.532 W	100	4.4	1.0	28	WINDWARD ISLANDS
21	16 17 08.2%	40.639 N	22.951 E	5 G		0.8	5	GREECE. ML 2.0 (THE).
21	16 50 13.5	43.436 N	5.438 E	10 G		0.6	17	NEAR SOUTH COAST OF FRANCE. MD 2.9 (STR).

21	16 52 53.7	4.608 S	138.823 E	33 N	4.9	1.2	15	WEST IRIAN
21	19 35 26.6	48.122 N	153.303 E	116 *	4.9	0.8	140	KURIL ISLANDS
21	19 38 27.67	38.12 N	23.12 E	10 G		0.8	4	GREECE. ML 2.4 (ATH).
21	19 43 57.9*	36.415 N	66.661 E	33 N	4.5 4.3	1.1	17	HINDU KUSH REGION
21	19 53 50.0*	14.629 N	145.955 E	169 *	4.8	0.8	19	MARIANA ISLANDS
21	20 30 48.07	9.89 S	160.25 E	70 *	4.2	0.6	8	SOLOMON ISLANDS
21	20 55 27.8*	37.498 S	50.877 E	10 G	5.1	1.1	40	ATLANTIC-INDIAN RISE
21	22 00 51.6%	39.970 N	23.243 E	10 G		0.5	6	AEGEAN SEA
21	22 08 54.7	44.462 S	78.766 W	26 D	5.6 5.3	1.0	159	OFF COAST OF SOUTHERN CHILE
21	22 36 37.18	46.747 N	119.432 W	0			27	WASHINGTON. <SEA>. CL 2.9 (SEA).
21	22 44 02.5*	40.207 N	25.713 E	10 G		1.5	5	AEGEAN SEA. MD 2.8 (ATH).
21	23 35 59.07	43.17 N	13.03 E	10 G		0.5	4	CENTRAL ITALY. MD 2.2 (SSO).
21	23 36 50.2	47.510 N	8.771 E	33 N		1.1	44	SWITZERLAND. ML 3.0 (GRF), 3.5 (LDG), 3.6 (KBA), 4.0 (VKA).
21	23 51 26.8*	42.761 N	145.919 E	51 *	4.1	0.6	7	HOKKAIDO, JAPAN REGION. Felt (II JMA) at Nemuro.
22	00 00 47.9%	37.723 N	1.518 W	10 G		0.2	6	SPAIN. MG 3.0 (MDD). Felt (III) in the Tatana area.
22	00 16 43.9%	40.661 N	23.429 E	10 G		0.6	6	GREECE. ML 2.0 (THE).
22	02 09 34.4*	7.892 N	82.760 W	33 N		0.6	17	SOUTH OF PANAMA. MD 4.3 (HDC).
22	02 55 18.2*	50.611 N	19.078 E	10 G		1.5	7	POLAND. ML 3.5 (KRA), 3.2 (VKA), 3.5 (KBA).
22	03 48 59.8*	42.068 N	139.515 E	33 N	4.8	0.4	9	HOKKAIDO, JAPAN REGION
22	04 19 53.28	36.907 N	121.363 W	6			17	CENTRAL CALIFORNIA. <BRK>. ML 2.9 (BRK). Small foreshock 1.9 seconds earlier.
22	05 03 32.9*	42.862 N	12.878 E	10 G		0.2	5	CENTRAL ITALY
22	05 35 12.1	40.552 N	20.763 E	10 G		1.0	6	GREECE-ALBANIA BORDER REGION
22	05 54 25.9*	5.994 S	127.925 E	407 *	4.7	0.9	16	BANDA SEA
22	06 24 59.0	37.311 N	120.133 W	5 G		0.6	9	CENTRAL CALIFORNIA. ML 2.6 (BRK).
22	06 42 45.3	32.462 N	137.992 E	341	5.0	1.0	135	SOUTH OF HONSHU, JAPAN
22	07 02 13.1	42.864 N	12.862 E	10 G		1.1	7	CENTRAL ITALY. MD 2.9 (SSO).
22	07 09 02.2	44.670 N	9.958 E	12		0.8	50	NORTHERN ITALY. MD 3.4 (FIR), 3.5 (TRI). ML 3.3 (KBA), 3.4 (LDG).
22	07 55 02.37	43.23 N	18.83 E	10 G		1.0	5	YUGOSLAVIA. MD 2.4 (TTG).
22	08 25 20.6*	9.573 S	117.268 E	33 N	4.6	1.2	11	SUMBAWA ISLAND REGION
22	08 26 27.88	61.347 N	150.307 W	47			41	SOUTHERN ALASKA. <AGS-P>. ML 3.3 (PMR). Felt (III) at Anchorage.
22	08 33 06.1*	43.092 N	41.427 E	33 N	4.2	1.1	16	WESTERN CAUCASUS
22	08 52 49.6*	40.005 N	24.351 E	10 G		0.5	9	AEGEAN SEA. ML 2.7 (THE).
22	09 01 47.3%	40.362 N	23.351 E	10 G		0.9	5	GREECE. ML 1.4 (THE).
22	09 08 01.4%	44.612 N	9.967 E	10 G		0.6	7	NORTHERN ITALY
22	09 28 45.0%	11.099 N	61.872 W	27 *		0.6	7	WINDWARD ISLANDS
22	09 28 59.08	39.256 N	117.401 W	4			5	NEVADA. <REN>. MD 2.9 (REN).
22	09 49 44.68	39.230 N	117.338 W	0			5	NEVADA. <REN>. MD 3.5 (REN).
22	10 06 01.9	42.365 N	18.845 E	10 G		0.7	11	YUGOSLAVIA. MD 2.5 (TTG).
22	10 25 45.2	56.152 N	153.642 W	33 N	5.7 5.8	0.9	373	KODIAK ISLAND REGION. ML 5.8 (PMR). Ms 5.9 (BRK), 5.5 (PAS). Mo=6+10+17 Nm (PPT).
22	11 01 06.6	43.429 N	12.968 E	10 G		0.3	6	CENTRAL ITALY
22	11 09 44.2%	60.632 N	6.237 E	10 G		0.5	6	SOUTHERN NORWAY. MD 2.2 (BER).
22	11 56 18.0	40.992 N	141.969 E	71	4.8	1.0	27	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Hachinohe.
22	12 32 06.7	51.249 N	15.746 E	10 G		1.2	19	POLAND. ML 4.4 (GRF), 4.1 (VKA), 3.7 (KBA).
22	12 44 12.1	32.397 S	68.954 W	56	4.8	1.3	35	MENDOZA PROVINCE, ARGENTINA. Felt (III) in Mendoza Province. Felt (III) at San Juan.
22	13 24 58.07	42.55 N	12.61 E	10 G		0.2	4	CENTRAL ITALY
22	14 52 45.8*	51.165 N	176.059 W	33 N	4.8	0.9	8	ANDREANOF ISLANDS, ALEUTIAN IS.
22	15 02 26.67	44.14 N	2.34 E	10 G		1.0	5	FRANCE. ML 2.7 (LDG).
22	15 17 10.27	10.95 N	61.88 W	33 N		0.9	5	TRINIDAD
22	15 31 26.7*	27.450 N	57.662 E	33 N	4.2	1.9	18	SOUTHERN IRAN
22	15 42 39.1*	34.701 N	25.921 E	10 G		1.1	5	CRETE. MD 4.0 (ATH).
22	16 00 15.5*	14.621 N	93.950 W	49 *	4.6	0.8	11	NEAR COAST OF CHIAPAS, MEXICO
22	19 04 36.2*	25.991 N	98.941 E	46 *	4.7	1.1	24	BURMA-CHINA BORDER REGION
22	20 34 15.1%	39.305 N	28.943 E	10 G		1.0	10	TURKEY
22	21 17 03.1	5.522 S	131.468 E	48 *	4.7	1.4	28	BANDA SEA
22	21 17 41.37	40.28 N	28.92 E	10 G		0.3	4	TURKEY
22	21 24 14.3*	28.755 N	139.197 E	456 *	4.3	0.2	11	BONIN ISLANDS REGION
22	21 24 33.5	43.401 N	5.428 E	10 G		0.7	16	NEAR SOUTH COAST OF FRANCE. MD 2.7 (STR).
23	00 25 44.2*	15.975 N	93.913 W	114 *		1.0	14	NEAR COAST OF CHIAPAS, MEXICO
23	00 43 55.78	35.212 N	95.862 W	5 G			5	OKLAHOMA. <TUL>. MD 1.4 (TUL).
23	01 31 29.9	34.034 N	26.139 E	60 *	3.6	0.9	24	CRETE. MD 4.2 (ATH).
23	01 48 32.2*	30.258 S	177.724 W	33 N	4.7	0.9	28	KERMADEC ISLANDS. Felt (III) on Raoul Island.
23	02 09 02.77	7.92 S	129.31 E	145 ?	4.7	1.4	12	BANDA SEA
23	02 43 36.47	15.75 S	177.80 W	459 ?	4.0	1.4	8	FIJI ISLANDS REGION
23	03 05 38.7	3.076 N	78.591 W	19	4.9	1.2	75	SOUTH OF PANAMA
23	03 34 53.3*	11.202 N	141.792 E	33 N	4.0 4.4	1.4	13	WEST CAROLINE ISLANDS
23	05 33 17.88	60.035 N	152.766 W	97			31	SOUTHERN ALASKA. <AGS-P>.
23	05 51 11.4	14.771 S	167.300 E	155 D	5.4	1.1	214	VANUATU ISLANDS
23	06 03 36.9*	38.592 N	20.199 E	10 G		1.0	9	GREECE. MD 3.2 (ATH).
23	06 26 00.77	6.59 N	94.63 E	33 N	3.7	1.5	6	NICOBAR ISLANDS REGION
23	06 50 19.3*	27.984 S	25.937 E	5 G		1.3	8	REPUBLIC OF SOUTH AFRICA
23	07 07 38.9*	11.455 N	141.942 E	47 *	4.6 4.3	0.9	18	WEST CAROLINE ISLANDS
23	07 52 58.47	22.76 N	121.02 E	10 G		0.3	5	TAIWAN REGION
23	10 01 10.7%	41.110 N	28.482 E	10 G		0.6	5	TURKEY
23	10 31 23.7*	21.704 S	169.777 E	33 N		1.1	15	LOYALTY ISLANDS REGION
23	10 57 58.1	39.212 N	122.348 W	5 G		0.7	10	NORTHERN CALIFORNIA. ML 2.7 (BRK).
23	11 08 22.8*	4.854 S	103.106 E	75 *	4.9	0.6	13	SOUTHERN SUMATRA
23	11 27 58.3*	24.269 N	123.255 E	10 G	4.5	1.0	7	SOUTHWESTERN RYUKYU ISLANDS
23	12 40 33.0*	21.913 S	169.899 E	26 D	4.8 5.1	1.4	36	LOYALTY ISLANDS REGION
23	13 07 44.1%	39.254 N	27.723 E	10 G		0.5	5	TURKEY
23	13 11 18.4*	47.343 N	16.815 E	10 G		1.3	7	AUSTRIA. ML 3.1 (VKA), 2.9 (KBA).
23	13 50 51.07	34.54 S	72.48 W	10 G		0.4	8	NEAR COAST OF CENTRAL CHILE
23	14 32 01.37	44.96 N	28.50 E	10 G		1.2	5	ROMANIA
23	15 37 12.3%	43.416 N	5.468 E	10 G		0.6	7	NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).
23	16 38 49.2*	19.465 N	64.345 W	33 N		0.7	15	VIRGIN ISLANDS
23	17 27 56.5%	39.270 N	27.711 E	10 G		1.3	6	TURKEY
23	17 52 46.0%	40.000 N	26.800 E	10 G		0.0	5	TURKEY

23	19 16 44.5	46.488 N	153.682 E	33 N	4.9	0.8	59	KURIL ISLANDS
23	19 16 52.3*	36.380 N	71.284 E	62 ?	4.1	0.6	8	AFGHANISTAN-USSR BORDER REGION
23	19 58 25.0?	52.15 N	4.20 W	10 G		0.4	7	UNITED KINGDOM
23	20 37 07.6	1.186 S	126.879 E	39 *	4.8	1.4	29	MOLUCCA SEA
23	20 40 35.2?	17.67 S	178.60 W	539 *	5.5	1.3	23	FIJI ISLANDS REGION
23	20 43 56.4	1.116 S	126.974 E	40 *	4.7 4.3	1.1	29	MOLUCCA SEA
23	21 21 14.6*	5.828 N	126.715 E	171 ?	4.8	0.9	17	MINDANAO, PHILIPPINE ISLANDS
23	21 23 21.9&	37.473 N	118.837 W	2			9	CALIFORNIA-NEVADA BORDER REGION. <REN>. MD 3.0 (REN).
23	22 00 57.8%	40.729 N	109.360 E	10 G		1.0	7	NORTHERN CHINA. ML 4.1 (BJI).
23	23 34 08.3%	40.575 N	23.563 E	10 G		0.9	7	GREECE. ML 2.0 (THE).
23	23 55 35.0%	37.726 N	15.108 E	10 G		0.9	7	SICILY
24	00 19 07.6%	16.067 N	61.215 W	10 G		0.3	5	LEEWARD ISLANDS. ML 2.1 (FDF).
24	00 25 03.6?	34.03 S	72.24 W	10 G		0.2	9	NEAR COAST OF CENTRAL CHILE
24	00 32 37.3%	17.868 N	99.577 W	33 N		0.7	8	GUERRERO, MEXICO
a 24	00 40 35.1	37.731 N	29.347 E	19	5.0 4.6	1.3	259	TURKEY. ML 4.9 (ATH). Slight damage in the Denizli area.
24	00 46 52.4*	37.738 N	29.397 E	10 G		1.4	7	TURKEY
24	00 49 02.3?	37.50 N	29.11 E	10 G		0.8	4	TURKEY
24	01 06 47.6%	37.684 N	29.407 E	10 G		0.8	5	TURKEY
24	01 10 32.4%	32.045 N	35.912 E	10 G		1.5	6	DEAD SEA REGION
24	01 11 47.5%	37.618 N	29.259 E	10 G		0.5	5	TURKEY
24	01 12 59.5%	37.690 N	29.257 E	10 G		0.5	7	TURKEY
24	01 13 02.1?	13.77 N	59.99 W	33 N		0.3	6	WINDWARD ISLANDS. MG 3.0 (FDF).
24	01 17 44.7	37.721 N	29.255 E	27	4.4	1.1	84	TURKEY. ML 4.3 (ATH). Felt at Denizli.
24	01 19 12.5?	47.18 N	152.69 E	33 N	4.8	1.0	9	KURIL ISLANDS
24	01 59 41.3	37.764 N	29.356 E	10 G		1.1	10	TURKEY
24	01 59 54.5	24.057 S	66.558 W	204	4.8	1.1	63	SALTA PROVINCE, ARGENTINA
24	02 02 54.3	40.784 N	19.887 E	10 G		1.4	12	ALBANIA. ML 2.4 (SKO).
24	02 25 28.1%	37.762 N	29.260 E	10 G		1.0	5	TURKEY
24	02 59 41.0	37.816 N	29.304 E	10 G		1.2	16	TURKEY
24	03 05 12.1?	23.63 N	123.55 E	33 N	4.0	0.8	6	SOUTHWESTERN RYUKYU ISLANDS
24	04 55 21.6&	60.158 N	150.919 W	65			44	KENAI PENINSULA, ALASKA. <AGS-P>.
24	05 06 20.5%	37.726 N	29.326 E	10 G		1.3	6	TURKEY
24	05 35 37.9*	1.166 N	97.363 E	53 ?	4.5	1.0	23	NORTHERN SUMATERA
24	06 16 51.8	16.043 N	61.246 W	10 G		0.9	19	LEEWARD ISLANDS. ML 3.1 (FDF).
24	06 54 55.0?	51.14 N	175.00 E	33 N	4.7	1.1	21	NEAR ISLANDS, ALEUTIAN ISLANDS
24	07 11 21.0&	47.468 N	115.798 W	0 G			5	MONTANA. <SPEC>. MD 2.8 (BUT). Rockburst in the Lucky Friday mine near Mullan, Idaho. Salutation held to Lucky Friday mine coordinates.
a 24	07 22 18.5?	37.81 N	29.34 E	10 G		0.7	4	TURKEY
a 24	07 33 48.9	14.159 N	124.360 E	24 D	5.2 4.8	1.0	135	LUZON, PHILIPPINE ISLANDS
24	08 46 58.7%	40.548 N	109.443 E	10 G		0.3	5	NORTHERN CHINA. ML 3.6 (BJI).
24	08 48 36.0	42.944 N	13.006 E	10 G		1.0	7	CENTRAL ITALY
24	09 04 37.8?	39.16 N	27.62 E	10 G		0.8	4	TURKEY
24	09 41 59.5	50.613 N	129.564 W	10 G	4.3	1.1	39	VANCOUVER ISLAND REGION
24	09 49 10.2%	37.782 N	29.676 E	10 G		0.9	6	TURKEY
24	10 03 54.3%	39.120 N	27.627 E	10 G		0.7	6	TURKEY
24	10 34 36.8%	60.631 N	6.230 E	10 G		0.4	5	SOUTHERN NORWAY. MD 2.0 (BER).
24	10 54 28.5*	4.402 S	134.905 E	33 N	4.5	1.1	13	WEST IRIAN REGION
24	11 35 44.9%	37.735 N	29.355 E	10 G		1.4	6	TURKEY
24	11 46 02.3	9.460 S	159.004 E	70 *	4.7	1.2	39	SOLOMON ISLANDS
24	12 12 32.1	23.452 N	143.277 E	43 D	4.8 4.2	0.9	75	VOLCANO ISLANDS REGION
24	12 30 11.6	37.729 N	29.286 E	26	4.4	1.1	91	TURKEY. ML 4.6 (ATH). Felt at Denizli.
a 24	12 36 59.8	38.287 S	71.151 W	33 N	5.3 4.7	1.0	72	S. CHILE-ARGENTINA BORDER REGION. Felt (V) at Malalcahuella and (II) at Temuco, Chile.
24	13 21 55.6	37.786 N	29.317 E	10 G		1.4	11	TURKEY
24	13 38 48.7	3.153 N	96.255 E	58 *	5.0	0.9	84	NORTHERN SUMATERA
24	14 07 15.5*	3.415 S	127.349 E	74 ?	4.5	0.5	10	CERAM
24	15 16 23.5?	22.09 N	119.85 E	10 G		0.2	4	TAIWAN REGION
24	15 24 24.0	37.788 N	29.348 E	10 G		1.3	16	TURKEY
24	15 52 33.3&	33.070 N	117.930 W	6 G			6	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
24	16 07 31.1?	21.02 S	67.16 W	200 *		1.6	9	CHILE-BOLIVIA BORDER REGION
24	16 15 00.0&	37.128 N	116.122 W	0	4.4		64	SOUTHERN NEVADA. <DOE>. ML 4.5 (BRK). 37' 07' 42.55" N., 116' 07' 19.05" W., Surface Elev. 1379 m., Depth of Burial 400 m., Shot Time 161500.081, "KAWICH," Nevada Test Site (Dept of Energy).
24	16 42 34.3?	27.83 S	176.62 W	10 G	5.3	1.4	9	KERMADEC ISLANDS REGION
24	16 48 23.7%	42.354 N	2.478 E	10 G		0.5	9	PYRENEES. ML 3.3 (LDG).
24	16 49 39.9?	23.97 N	33.14 E	10 G		1.0	5	ARAB REPUBLIC OF EGYPT
24	17 18 50.1?	8.64 S	129.93 E	236 ?	4.2	0.9	8	TIMOR SEA
24	17 52 18.2%	37.740 N	29.307 E	10 G		0.9	5	TURKEY
24	18 24 52.7*	47.876 S	31.786 E	10 G	4.8 4.7	1.1	17	SOUTH OF AFRICA
24	18 43 52.1?	37.78 N	29.21 E	10 G		1.0	4	TURKEY
24	19 02 44.3&	59.139 N	144.908 W	10 G	4.3		55	GULF OF ALASKA. <AGS-P>. ML 4.3 (PMR).
24	20 08 48.5%	39.224 N	28.849 E	10 G		0.4	6	TURKEY
24	20 22 07.9	46.901 N	0.317 E	17		1.1	16	FRANCE. ML 3.4 (LDG).
24	20 31 16.7	2.339 N	126.631 E	33 N	4.7	0.8	20	MOLUCCA PASSAGE
24	20 46 42.9%	40.813 N	27.971 E	10 G		0.6	6	TURKEY
24	21 10 12.8	42.924 N	12.853 E	10 G		1.3	10	CENTRAL ITALY
24	21 16 22.4?	37.75 N	29.05 E	10 G		1.2	4	TURKEY
24	22 06 54.4%	37.730 N	29.206 E	10 G		1.2	5	TURKEY
24	22 26 03.6*	29.499 S	179.146 W	343 ?	4.8	1.0	52	KERMADEC ISLANDS REGION
24	22 40 13.7*	32.228 S	68.085 W	124 ?		0.6	16	MENDOZA PROVINCE, ARGENTINA
24	23 01 21.2	39.042 N	29.716 E	10 G		1.0	26	TURKEY
24	23 15 22.4	42.877 N	12.876 E	10 G		0.7	13	CENTRAL ITALY. MD 2.8 (SSO).
24	23 53 37.1*	2.913 N	126.349 E	33 N	4.7	1.0	21	MOLUCCA PASSAGE
25	01 00 19.0&	33.930 N	118.630 W	11			21	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.7 (PAS). Felt (V) at Santa Monica; (IV) at Hawthorne, Lawndale, Redondo Beach and Venice; (III) at Calabasas, Gardena, Harbor City, Inglewood, La Verne, Lomita, Manhattan Beach, Pacific Palisades and Torrance.
25	01 06 43.1	37.719 N	29.265 E	10 G		0.8	8	TURKEY
25	01 21 52.5*	41.198 N	20.150 E	10 G		0.1	5	ALBANIA. ML 2.4 (SKO).

25	01 30 17.4	56.291 N	153.398 W	33 N	4.9	1.3	37	KODIAK ISLAND REGION. ML 4.7 (PMR).
25	01 46 27.9*	48.763 N	154.917 E	33 N	4.8	1.3	18	KURIL ISLANDS
25	02 06 00.7*	47.688 N	154.158 E	33 N	4.8	0.8	46	KURIL ISLANDS
25	02 32 28.8*	3.55 S	130.01 E	33 N	4.7	1.4	8	CERAM
25	02 55 16.9*	43.613 N	0.561 W	10 G		1.0	21	PYRENEES. ML 3.6 (LDG). Felt (V) in the Lacq oilfield, France.
25	03 41 41.9?	3.32 S	130.72 E	33 N	3.7	1.6	5	CERAM
25	04 42 18.2	1.933 N	127.990 E	32 ?	5.1	1.2	45	HALMAHERA
25	04 50 31.1?	30.42 N	51.36 E	33 N		1.1	6	IRAN
25	05 41 42.9	45.232 N	14.809 E	10 G		1.2	7	YUGOSLAVIA. MD 2.7 (TRI), 2.8 (LJU).
25	05 41 52.5	36.287 N	70.788 E	33 N	4.8	0.8	10	HINDU KUSH REGION
25	05 43 58.6*	37.134 N	27.856 E	10 G		1.0	6	TURKEY
25	06 10 49.8*	48.014 N	8.157 E	10 G		1.1	6	GERMANY
25	06 58 04.2	36.098 N	70.614 E	110 *	4.5	1.3	18	HINDU KUSH REGION
25	07 51 08.7*	45.465 N	26.662 E	33 N		0.6	5	ROMANIA
25	11 12 38.2*	15.411 N	61.626 W	145 ?		0.3	15	LEEWARD ISLANDS
f 25	11 26 35.4	29.915 S	177.885 W	31 G	6.1 6.7	1.1	353	KERMADEC ISLANDS. Ms 6.6 (BRK), 6.3 (PAS). Mo=1.3*10**19 Nm (PPT). Felt (V) on Raoul Island. Depth from broadband displacement seismograms.
25	12 03 14.3*	29.681 S	177.862 W	51 D	5.4	1.2	50	KERMADEC ISLANDS. Felt (III) on Raoul Island.
25	13 00 51.6*	40.255 N	25.944 E	10 G		1.2	8	AEGEAN SEA
25	13 04 39.6*	37.615 N	122.002 W	7			11	CENTRAL CALIFORNIA. <BRK>. ML 2.4 (BRK). Felt at Fremont and Newark.
25	13 38 05.2?	37.79 N	29.27 E	10 G		0.8	4	TURKEY
25	13 39 44.5*	37.680 N	29.268 E	10 G		1.2	6	TURKEY
25	13 56 11.5?	23.75 N	121.92 E	33 N		1.0	5	TAIWAN
25	14 01 28.5	30.179 S	177.848 W	52 D	5.2	0.9	47	KERMADEC ISLANDS
25	15 08 26.7	40.712 N	23.318 E	10 G		1.1	18	GREECE. MD 2.9 (ATH). ML 2.5 (SKO).
25	15 22 18.8	31.986 S	68.167 W	119	4.4	0.9	26	SAN JUAN PROVINCE, ARGENTINA
25	15 30 12.3?	40.73 N	23.34 E	10 G		0.4	4	GREECE. ML 2.3 (THE).
25	15 40 33.6*	40.699 N	23.387 E	10 G		0.7	8	GREECE. ML 2.7 (THE).
25	15 40 50.7*	17.723 S	35.401 E	10 G	4.6	1.0	9	MOZAMBIQUE
25	15 43 51.7	47.789 N	22.481 E	10 G		1.0	23	ROMANIA
25	15 51 31.0*	34.116 N	135.135 E	10 G		0.4	5	NEAR S. COAST OF SOUTHERN HONSHU. MG 3.3 (JMA). Felt (II JMA) at Wakayama.
25	16 14 28.2*	16.080 N	61.266 W	33 N		0.4	5	LEEWARD ISLANDS. ML 2.0 (FDF).
25	20 11 13.5*	37.389 N	28.735 E	10 G		0.4	5	TURKEY
25	20 17 59.1*	2.219 N	126.742 E	76 ?	4.3	1.0	11	MOLUCCA PASSAGE
25	20 40 08.4*	18.417 N	96.227 E	10 G		1.3	5	BURMA
25	20 45 27.3	62.675 N	149.781 W	10 G		0.5	9	CENTRAL ALASKA. ML 3.7 (PMR).
25	20 48 18.2?	16.27 N	98.01 W	33 N	4.6	1.1	5	NEAR COAST OF GUERRERO, MEXICO
25	20 48 24.7	41.090 N	19.778 E	10 G		1.2	11	ALBANIA. ML 2.0 (SKO).
25	20 50 41.2*	17.804 N	66.602 W	33 N		0.1	6	PUERTO RICO REGION
25	21 19 01.6?	31.83 N	36.44 E	10 G		1.0	7	DEAD SEA REGION
25	21 19 16.8*	59.157 N	153.675 W	96			34	SOUTHERN ALASKA. <AGS-P>.
25	21 50 19.0	8.034 S	117.448 E	21 *	4.2	0.8	11	SUMBAWA ISLAND REGION
25	22 19 03.5?	29.58 S	71.86 W	33 N		0.8	9	NEAR COAST OF CENTRAL CHILE
25	22 24 54.2	46.847 N	112.516 W	5 G		0.5	10	MONTANA. ML 3.2 (BUT).
25	23 07 42.1	14.181 N	124.400 E	26 D	5.0 4.6	0.9	41	LUZON, PHILIPPINE ISLANDS
25	23 23 50.8	46.055 N	14.749 E	10 G		0.8	9	YUGOSLAVIA. MD 2.4 (LJU). Felt (IV) at Kresnice.
26	00 09 30.3*	40.869 N	28.174 E	10 G		1.2	9	TURKEY
26	00 46 58.2*	56.950 N	161.784 E	33 N	4.8	0.9	10	NEAR EAST COAST OF KAMCHATKA
26	01 44 15.4	40.033 N	24.335 E	10 G		1.1	9	AEGEAN SEA
26	01 50 40.2	7.302 S	108.006 E	161	4.9	1.1	53	JAVA
26	02 50 11.5	45.164 N	26.987 E	20		0.9	21	ROMANIA
26	03 18 39.7*	59.545 N	152.921 W	91			32	SOUTHERN ALASKA. <AGS-P>.
26	03 26 31.2	37.196 N	20.800 E	10 G	4.8	1.1	23	IONIAN SEA. ML 3.9 (ATH).
26	03 43 53.2*	37.715 N	29.258 E	10 G		1.1	6	TURKEY
26	03 47 43.7	45.169 N	26.984 E	17 *		1.1	12	ROMANIA
26	04 20 00.8	41.454 N	23.592 E	10 G		1.2	12	GREECE-BULGARIA BORDER REGION. ML 2.5 (THE).
26	04 30 49.4*	39.211 N	28.821 E	10 G		0.8	6	TURKEY
26	04 38 28.1*	45.129 N	27.080 E	10 G		0.2	5	ROMANIA
26	05 34 42.3*	59.012 S	25.555 W	33 N	5.4	1.1	38	SOUTH SANDWICH ISLANDS REGION
26	05 51 59.8	35.514 N	25.516 E	66 ?		1.1	12	CRETE
26	05 58 40.9	14.448 N	146.970 E	54 D	5.0	0.8	71	MARIANA ISLANDS
26	10 12 29.2	4.852 S	76.748 W	33 N	4.8	1.0	53	NORTHERN PERU
26	10 13 43.6	44.592 N	18.518 E	10 G		1.4	9	YUGOSLAVIA. MG 3.6 (BEO).
26	11 08 49.4*	35.467 S	71.006 W	89 *	4.4	0.9	30	CENTRAL CHILE
26	11 52 54.1*	0.202 S	123.652 E	154 *	3.8	0.6	11	MINAHASSA PENINSULA
a 26	12 21 11.2	9.673 N	84.184 W	23	4.6 4.8	1.1	96	COSTA RICA. MD 4.7 (SJR), 4.4 (HDC). Minor damage (VII) and some landslides in the Guaitil-San Marcos area. Felt (V) at San Jose, in the Central Valley and along the Pacific coast between Herradura and Quepas.
26	12 25 02.3	9.646 N	84.225 W	11		0.6	20	COSTA RICA. MD 3.1 (SJR), 3.4 (HDC). Felt (III) at San Marcos, San Pablo and Guaitil. Also felt at San Jose, Heredia and Cartago.
26	12 27 38.1	39.136 N	24.518 E	10 G		0.7	25	AEGEAN SEA. ML 3.4 (ATH).
26	12 31 08.8?	0.86 S	150.35 E	33 N	3.9	1.2	5	NEW IRELAND REGION
26	12 39 35.0	46.470 N	13.186 E	10 G		1.0	15	AUSTRIA. MD 2.9 (KBA), 2.6 (TRI), 3.0 (LJU).
26	12 56 06.9*	2.225 N	127.931 E	69 ?	5.3	1.1	41	MOLUCCA PASSAGE
26	14 39 17.3	9.662 N	84.218 W	11		0.5	22	COSTA RICA. MD 3.9 (SJR), 3.9 (HDC). Felt (IV) at San Marcos, San Pablo and Guaitil; (III) in the Central Valley. Also felt at San Jose, Heredia and Cartago.
26	14 41 31.7?	39.89 N	20.40 E	10 G		1.2	7	GREECE-ALBANIA BORDER REGION
26	15 17 03.6*	46.797 N	0.907 E	10 G		0.7	5	FRANCE. ML 2.3 (LDG).
26	15 56 14.5	34.140 N	26.199 E	44 *	4.4	1.4	39	CRETE. MD 4.0 (ATH).
26	17 02 29.3	2.213 N	126.588 E	88 *	5.1	0.9	51	MOLUCCA PASSAGE
26	18 39 35.6	39.130 N	24.558 E	10 G		0.4	9	AEGEAN SEA. ML 3.1 (ATH).
26	19 36 17.6?	39.98 N	23.86 E	10 G		0.4	5	AEGEAN SEA. ML 2.3 (THE).
a 26	20 59 25.4	23.838 S	177.340 W	26 D	5.3	1.0	63	SOUTH OF FIJI ISLANDS
26	22 06 22.7	39.137 N	24.481 E	10 G		0.8	22	AEGEAN SEA. ML 3.5 (ATH).
26	22 14 04.5	39.124 N	24.549 E	10 G		0.5	7	AEGEAN SEA. ML 3.0 (ATH).
26	22 45 14.6	39.092 N	24.541 E	10 G		0.8	8	AEGEAN SEA. ML 3.1 (ATH).

26	23 54 36.9	39.155 N	24.506 E	10	4.7	1.0	90	AEGEAN SEA. ML 4.3 (ATH). Felt on Skiros.
27	00 20 55.4	39.145 N	24.568 E	8	4.0	1.0	38	AEGEAN SEA. ML 3.8 (ATH), 3.7 (THE).
27	00 35 19.1?	23.35 S	66.78 W	251 *		0.7	8	JUJUY PROVINCE, ARGENTINA
27	00 46 26.3	39.146 N	24.528 E	10 G		0.9	13	AEGEAN SEA. ML 3.2 (ATH).
27	01 09 42.4*	24.147 S	66.889 W	200 *	4.5	1.2	15	SALTA PROVINCE, ARGENTINA
27	02 07 18.1*	16.244 N	60.600 W	10 G		0.4	11	LEEWARD ISLANDS. ML 2.8 (FDF).
27	07 45 46.9%	23.090 N	121.368 E	10 G		0.2	5	TAIWAN
27	07 57 49.3%	36.357 N	140.157 E	58 *		0.7	9	NEAR EAST COAST OF HONSHU, JAPAN. MG 3.7 (JMA). Felt (II JMA) at Mito and (I JMA) at Utsunomiya.
27	08 21 37.4?	42.78 N	18.77 E	10 G		1.6	4	YUGOSLAVIA. MD 2.2 (TTG).
27	11 12 38.9	40.068 N	27.815 E	10 G		0.6	10	TURKEY
27	11 17 01.1?	32.72 N	141.02 E	33 N		1.1	5	SOUTH OF HONSHU, JAPAN. MG 3.4 (JMA). Felt (I JMA) on Hachijo-jima.
27	12 18 11.1%	36.226 N	140.131 E	48 ?		0.6	7	NEAR EAST COAST OF HONSHU, JAPAN
27	13 59 45.0%	60.186 N	152.956 W	119			25	SOUTHERN ALASKA. <AGS-P>.
27	14 48 01.1?	54.60 N	161.89 W	33 N		1.2	8	ALASKA PENINSULA. ML 3.5 (PMR).
27	14 58 46.9%	58.144 N	155.312 W	114			38	ALASKA PENINSULA. <AGS-P>.
27	15 13 08.0%	38.827 N	111.616 W	24			20	UTAH. <SLC-P>. ML 4.2 (SLC). Felt (V) at Goshen; (IV) at Aurora, Clawson and Ferron; (III) at Axtell, Centerfield, Emery, Fayette, Glenwood, Koosharem, Manti, Mayfield, Redmond, Salina and Sterling.
27	17 09 13.4	4.370 S	135.550 E	33 N	3.9	0.8	13	WEST IRIAN REGION
27	19 03 09.4%	37.596 N	118.886 W	4			24	CALIFORNIA-NEVADA BORDER REGION. <REN>. MD 3.5 (REN). ML 3.4 (BRK). Felt in the Mammoth Lakes, California area.
27	19 06 52.6?	39.28 N	27.74 E	10 G		0.3	4	TURKEY
27	19 19 22.4?	31.36 S	68.80 W	78 ?		0.5	5	SAN JUAN PROVINCE, ARGENTINA
27	19 58 15.6	35.714 N	140.237 E	72	4.8	0.9	57	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Yokohama and (I JMA) at Ajiro, Mito, Kawaguchi-ko, Tateyama, Tokyo and Utsunomiya.
27	20 27 08.8	43.408 N	5.445 E	10 G		0.6	9	NEAR SOUTH COAST OF FRANCE. MD 3.0 (STR).
27	20 49 14.0	40.442 N	28.474 E	10 G		0.7	10	TURKEY
27	21 07 31.7*	17.666 S	69.786 W	144 D	4.9	1.6	24	PERU-BOLIVIA BORDER REGION
27	23 25 21.1?	12.35 S	122.56 E	33 N	4.1	1.3	6	SOUTH OF TIMOR
f 27	23 39 10.8	2.301 N	128.009 E	54	5.8 6.0	1.2	183	HALMAHERA. Ms 6.2 (BRK). At least six schools and a number of houses damaged in the Galela area. Two events about 2.5 seconds apart, observed on broadband displacement seismograms.
27	23 46 22.3	6.897 N	72.804 W	141	4.9	1.0	33	NORTHERN COLOMBIA
28	00 04 11.7?	31.84 N	36.57 E	10 G		1.1	6	DEAD SEA REGION
28	00 26 41.1	27.139 N	92.644 E	45 *	4.6	1.1	44	INDIA-CHINA BORDER REGION. Felt in the Gouhati area, India.
28	00 42 05.9?	14.95 S	24.49 E	10 G		0.9	7	ZAMBIA. MG 3.6 (BUL).
a 28	00 51 27.1	2.288 N	127.916 E	56	5.7 5.2	1.1	166	MOLUCCA PASSAGE
28	01 25 34.2	2.259 N	127.992 E	58	5.3	1.1	109	MOLUCCA PASSAGE
28	04 49 11.9*	2.101 N	127.846 E	103 ?	4.8	0.9	22	MOLUCCA PASSAGE
28	05 10 34.7*	2.062 N	127.926 E	64 ?	5.0	0.8	20	MOLUCCA PASSAGE
28	05 38 15.9?	12.58 N	60.56 W	33 N		0.2	6	WINDWARD ISLANDS
a 28	05 50 31.6	2.257 N	127.934 E	53 *	5.2 4.4	1.2	75	MOLUCCA PASSAGE
28	06 07 11.5	2.294 N	127.954 E	62 *	5.0	0.9	47	MOLUCCA PASSAGE
28	06 07 30.8	23.217 S	70.628 W	33 N	4.7	1.4	28	NEAR COAST OF NORTHERN CHILE
28	07 12 46.0?	31.01 N	41.50 W	10 G	4.9	1.0	11	NORTH ATLANTIC RIDGE
28	09 05 29.9	43.463 N	5.436 E	10 G		0.9	12	NEAR SOUTH COAST OF FRANCE. MD 3.2 (STR).
28	10 33 52.8*	44.405 N	8.133 E	10 G		0.7	13	NORTHERN ITALY. ML 2.8 (LDG).
28	10 53 07.4%	60.635 N	6.241 E	10 G		1.0	6	SOUTHERN NORWAY. MD 1.9 (BER).
28	11 31 58.3	46.278 N	13.000 E	10 G		1.4	19	NORTHERN ITALY. MD 3.2 (LJU), 2.9 (TRI). ML 2.9 (KBA).
28	12 07 57.8%	38.520 N	14.578 E	10 G		0.7	5	SICILY
28	12 14 22.8%	38.550 N	14.590 E	10 G		0.5	9	SICILY
28	12 16 28.3	49.162 N	128.914 W	10 G	4.4	0.9	38	VANCOUVER ISLAND REGION
28	12 20 16.2	10.286 S	161.514 E	81 D	4.8	1.1	38	SOLOMON ISLANDS
28	12 23 57.2*	23.921 S	177.237 W	33 N	4.6	1.4	10	SOUTH OF FIJI ISLANDS
a 28	13 01 57.6	23.113 S	61.465 W	569 D	5.6	1.1	319	PARAGUAY
28	13 29 05.7%	36.793 N	121.290 W	8			15	CENTRAL CALIFORNIA. <BRK>. ML 3.0 (BRK).
28	13 33 08.0%	60.530 N	152.788 W	112			22	SOUTHERN ALASKA. <AGS-P>.
o 28	13 48 57.0	7.624 S	127.399 E	196	5.0	0.9	74	BANDA SEA
28	14 44 30.9?	38.97 N	27.35 E	10 G		1.1	4	TURKEY
28	16 31 00.9	26.191 N	130.514 E	33 N	4.7	1.1	33	RYUKYU ISLANDS REGION
28	17 15 12.9%	37.724 N	15.006 E	10 G		0.7	11	SICILY
28	17 25 53.4*	34.271 N	139.232 E	136 ?	4.1	1.0	26	NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) on Miyake-jima. Also felt at Yokohama, Tateyama and on Oshima.
28	17 31 50.8	33.643 N	87.092 W	0 G		1.0	9	ALABAMA. mblg 3.5 (NEIS). Mine Collapse.
28	18 33 47.7	2.533 S	140.859 E	55	4.9	1.0	30	NEAR N. COAST OF WEST IRIAN
28	19 38 19.4%	39.659 N	26.252 E	10 G		1.2	6	TURKEY
28	20 27 04.6	40.449 N	29.211 E	10 G		0.9	12	TURKEY
28	21 00 09.1%	59.818 N	153.250 W	120			33	SOUTHERN ALASKA. <AGS-P>.
28	21 02 58.0*	24.076 N	123.694 E	33 N	4.3	1.0	10	SOUTHWESTERN RYUKYU ISLANDS
28	21 34 58.4?	37.78 N	29.17 E	10 G		0.9	4	TURKEY
28	21 45 27.8*	1.967 N	126.549 E	79 ?	5.0	1.6	23	MOLUCCA PASSAGE
o 28	21 57 49.7*	11.342 S	166.241 E	52 *	5.2	1.1	39	SANTA CRUZ ISLANDS
28	22 12 52.5%	37.643 N	15.041 E	10 G		0.5	5	SICILY
28	22 16 03.7	43.380 N	12.809 E	10 *		0.6	8	CENTRAL ITALY
28	22 39 48.0?	2.52 S	139.59 E	33 N	5.0	1.4	12	NEAR N. COAST OF WEST IRIAN
28	23 09 27.9	43.384 N	12.780 E	10 G		0.9	6	CENTRAL ITALY
28	23 33 47.5*	51.412 N	175.109 W	33 N	4.5	1.0	16	ANDREANOF ISLANDS, ALEUTIAN IS. Felt (III) on Adak.
28	23 52 58.7?	33.40 S	70.70 W	77 ?		0.1	6	CHILE-ARGENTINA BORDER REGION
28	23 53 17.9	43.383 N	12.798 E	10 G		0.6	6	CENTRAL ITALY
28	23 56 00.6?	21.16 N	97.17 E	10 G		0.5	4	BURMA

ADDITIONAL SOURCE PARAMETERS

01 10 22 41.59 31.561N 140.155E 119km
5.5mb (85 obs.)
SOUTH OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 21C
Centroid Location:
Origin Time 10:22:42.2 0.4
Lat 31.62N 0.04 Lon 140.11E 0.07
Dep 88.4 6.0 Half-duration 1.8
Principal Axes:
Scale 10¹⁷ Nm
T Val= 1.29 Plg=53 Azm= 72
N 0.13 11 176
P -1.42 34 274
Best Double Couple: Mo=1.4¹⁰ 17
NP1: Strike= 43 Dip=14 Slip= 138
NP2: 175 80 79

03 00 45 54.50 17.787S 178.549W 546km
5.2mb (27 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 19C
Centroid Location:
Origin Time 00:46: 1.3 1.1
Lat 18.27S 0.12 Lon 178.76W 0.09
Dep 572.0 5.3 Half-duration 1.8
Principal Axes:
Scale 10¹⁷ Nm
T Val= 1.26 Plg=35 Azm= 83
N -0.15 18 186
P -1.11 50 299
Best Double Couple: Mo=1.2¹⁰ 17
NP1: Strike=121 Dip=20 Slip=-156
NP2: 9 82 -71

03 15 18 25.47 64.583N 17.381W 10km
5.3mb (58 obs.) 4.9Msz (3 obs.)
ICELAND
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 21C
Centroid Location:
Origin Time 15:18:29.0 1.5
Lat 64.56N 0.16 Lon 17.26W 0.30
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10¹⁶ Nm
T Val= 5.52 Plg=82 Azm=180
N -0.85 1 276
P -4.47 7 6
Best Double Couple: Mo=4.9¹⁰ 16
NP1: Strike= 97 Dip=38 Slip= 91
NP2: 276 52 89

03 17 49 58.63 30.231N 89.958E 10km
5.5mb (75 obs.) 5.2Msz (3 obs.)
TIBET
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 24C
Centroid Location:
Origin Time 17:50:10.0 0.6
Lat 29.74N 0.08 Lon 90.13E 0.06
Dep 15.0 FIX Half-duration 2.1
Principal Axes:
Scale 10¹⁷ Nm
T Val= 1.96 Plg= 3 Azm= 87
N -0.82 74 345
P -1.13 16 178
Best Double Couple: Mo=1.5¹⁰ 17
NP1: Strike=221 Dip=77 Slip= -9
NP2: 313 82 -166

03 18 44 32.64 20.215S 178.617W 575km
5.2mb (24 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 23C
Centroid Location:
Origin Time 18:44:44.0 0.8
Lat 20.00S 0.07 Lon 179.18W 0.06
Dep 614.7 3.9 Half-duration 2.1
Principal Axes:
Scale 10¹⁷ Nm
T Val= 2.05 Plg=34 Azm=137
N 0.27 18 239

P -2.32 51 352
Best Double Couple: Mo=2.2¹⁰ 17
NP1: Strike=178 Dip=20 Slip=-152
NP2: 62 81 -72

04 10 56 51.27 37.297N 141.154E 68km
5.2mb (48 obs.)
NEAR EAST COAST OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 16C
Centroid Location:
Origin Time 10:56:51.9 0.9
Lat 37.51N 0.11 Lon 140.99E 0.10
Dep 39.1 7.8 Half-duration 1.5
Principal Axes:
Scale 10¹⁶ Nm
T Val= 5.94 Plg=68 Azm=136
N 0.40 11 17
P -6.34 18 283
Best Double Couple: Mo=6.1¹⁰ 16
NP1: Strike=356 Dip=28 Slip= 66
NP2: 202 64 102

04 14 23 39.46 19.416S 179.587W 451km
5.3mb (26 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 27C
Centroid Location:
Origin Time 14:23:51.5 0.4
Lat 19.64S 0.04 Lon 179.88W 0.03
Dep 508.7 2.0 Half-duration 3.1
Principal Axes:
Scale 10¹⁷ Nm
T Val= 6.35 Plg=19 Azm= 54
N -0.25 70 252
P -6.11 6 146
Best Double Couple: Mo=6.2¹⁰ 17
NP1: Strike=192 Dip=73 Slip= 9
NP2: 99 81 163

04 15 51 52.33 0.082N 16.658W 10km
5.6mb (51 obs.) 5.4Msz (5 obs.)
NORTH OF ASCENSION ISLAND
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 30C
Centroid Location:
Origin Time 15:51:59.3 0.4
Lat 0.15N 0.05 Lon 16.68W 0.04
Dep 15.0 FIX Half-duration 2.9
Principal Axes:
Scale 10¹⁷ Nm
T Val= 5.60 Plg=19 Azm= 82
N -0.15 29 341
P -5.45 55 200
Best Double Couple: Mo=5.5¹⁰ 17
NP1: Strike=209 Dip=37 Slip= -36
NP2: 329 69 -121

04 19 24 07.40 5.862N 82.697W 10km
5.8mb (65 obs.) 5.9Msz (19 obs.)
SOUTH OF PANAMA
FAULT PLANE SOLUTION: P-Waves
NP1: Strike= 10 Dip=87 Slip=-176
NP2: 280 86 -3
Principal Axes:
T Plg= 1 Azm=145
P 5 235
Comment: The focal mechanism is poorly controlled and corresponds to a strike-slip faulting. The preferred fault plane is not determined.

MOMENT TENSOR SOLUTION
Dep 17 No. of sta: 6
Principal Axes:
Scale 10¹⁸ Nm
T Val= 2.45 Plg=10 Azm=320
N 0.02 76 184
P -2.47 10 52
Best Double Couple: Mo=2.5¹⁰ 18
NP1: Strike= 96 Dip=76 Slip= 0
NP2: 6 90 166
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 32C M.W.: 12S, 28C
Centroid Location:

Origin Time 19:24:16.3 0.2
Lat 5.69N 0.02 Lon 82.66W 0.02
Dep 15.0 FIX Half-duration 5.5
Principal Axes:
Scale 10¹⁸ Nm
T Val= 3.26 Plg=17 Azm=316
N 0.00 73 146
P -3.27 3 47
Best Double Couple: Mo=3.3¹⁰ 18
NP1: Strike= 93 Dip=76 Slip= 10
NP2: 0 80 166

04 22 10 38.90 4.625S 153.066E 52km
6.1mb (48 obs.)
NEW IRELAND REGION
FAULT PLANE SOLUTION: P-Waves
NP1: Strike=114 Dip=54 Slip= 90
NP2: 294 36 90
Principal Axes:
T Plg=81 Azm= 24
P 9 204
Comment: The focal mechanism is poorly controlled and corresponds to a reverse faulting. The preferred fault plane is NP2.

RADIATED ENERGY
No. of sta: 6 Focal mech. M
Energy 3.3¹² 10¹³ Nm
MOMENT TENSOR SOLUTION
Dep 45 No. of sta: 9
Principal Axes:
Scale 10¹⁸ Nm
T Val= 2.40 Plg=56 Azm=296
N -0.09 31 91
P -2.32 12 188
Best Double Couple: Mo=2.4¹⁰ 18
NP1: Strike=311 Dip=43 Slip= 139
NP2: 73 64 55
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 34C M.W.: 13S, 22C
Centroid Location:
Origin Time 22:10:44.2 0.3
Lat 4.96S 0.02 Lon 152.90E 0.02
Dep 55.1 1.5 Half-duration 4.6
Principal Axes:
Scale 10¹⁸ Nm
T Val= 2.35 Plg=71 Azm=335
N 0.05 7 86
P -2.40 17 178
Best Double Couple: Mo=2.4¹⁰ 18
NP1: Strike=279 Dip=28 Slip= 104
NP2: 82 63 82

05 01 59 48.65 33.385N 140.811E 60km
5.6mb (74 obs.)
SOUTH OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 18C
Centroid Location:
Origin Time 01:59:50.0 0.6
Lat 33.12N 0.09 Lon 140.93E 0.06
Dep 32.6 4.5 Half-duration 2.1
Principal Axes:
Scale 10¹⁷ Nm
T Val= 2.31 Plg=58 Azm=178
N -0.08 32 347
P -2.23 5 80
Best Double Couple: Mo=2.3¹⁰ 17
NP1: Strike=200 Dip=49 Slip= 134
NP2: 324 57 51

07 04 03 00.22 22.087S 67.223W 180km
5.4mb (41 obs.)
CHILE-BOLIVIA BORDER REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 21C
Centroid Location:
Origin Time 04:03: 5.1 0.5
Lat 22.02S 0.06 Lon 67.51W 0.07
Dep 181.6 1.7 Half-duration 2.0
Principal Axes:
Scale 10¹⁷ Nm
T Val= 2.12 Plg=36 Azm=100
N -0.17 16 357
P -1.95 49 248
Best Double Couple: Mo=2.0¹⁰ 17

NP1:Strike=244 Dip=17 Slip=-23
NP2: 355 83 -106

07 12 41 44.23 27.313S 177.146W 167km
4.9mb (9 obs.)
KERMADEC ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 21C
Centroid Location:
Origin Time 12:41:45.4 0.9
Lat 26.52S 0.11 Lon 177.22W 0.05
Dep 110.3 2.9 Half-duration 1.7
Principal Axes:
Scale 10¹⁷ Nm
T Val= 1.74 Plg=39 Azm=225
N -0.35 38 355
P -1.39 28 109
Best Double Couple:Mo=1.6*10¹⁷
NP1:Strike=251 Dip=39 Slip= 169
NP2: 349 83 52

07 13 35 27.58 23.728S 179.885E 563km
5.2mb (23 obs.)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 15C
Centroid Location:
Origin Time 13:35:37.5 0.7
Lat 23.05S 0.09 Lon 179.61E 0.05
Dep 548.9 3.1 Half-duration 1.8
Principal Axes:
Scale 10¹⁷ Nm
T Val= 1.76 Plg=65 Azm=348
N 0.05 24 180
P -1.81 4 88
Best Double Couple:Mo=1.8*10¹⁷
NP1:Strike=154 Dip=46 Slip= 55
NP2: 19 54 120

07 15 08 59.04 3.381S 148.809E 38km
4.9mb (5 obs.) 5.2Msz (6 obs.)
BISMARCK SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 27C
Centroid Location:
Origin Time 15:09:11.5 1.0
Lat 2.49S 0.07 Lon 148.59E 0.06
Dep 15.0 FIX Half-duration 2.5
Principal Axes:
Scale 10¹⁷ Nm
T Val= 3.08 Plg= 0 Azm=153
N 0.11 71 244
P -3.18 19 63
Best Double Couple:Mo=3.1*10¹⁷
NP1:Strike=199 Dip=76 Slip=-167
NP2: 106 77 -14

08 23 46 41.44 55.623S 26.795W 24km
5.5mb (15 obs.) 5.6Msz (9 obs.)
SOUTH SANDWICH ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 26C
Centroid Location:
Origin Time 23:46:47.2 0.4
Lat 55.41S 0.03 Lon 26.46W 0.10
Dep 15.0 FIX Half-duration 2.8
Principal Axes:
Scale 10¹⁷ Nm
T Val= 4.14 Plg=80 Azm=185
N 0.98 6 309
P -5.12 8 40
Best Double Couple:Mo=4.6*10¹⁷
NP1:Strike=136 Dip=37 Slip= 99
NP2: 305 53 83

09 02 06 39.43 55.748S 26.818W 26km
5.3mb (12 obs.) 5.0Msz (2 obs.)
SOUTH SANDWICH ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 23C
Centroid Location:
Origin Time 02:06:45.4 0.5
Lat 55.63S 0.04 Lon 26.14W 0.13
Dep 20.1 2.9 Half-duration 2.3
Principal Axes:
Scale 10¹⁷ Nm
T Val= 2.33 Plg=82 Azm=175
N 0.27 6 311

P -2.60 5 42
Best Double Couple:Mo=2.5*10¹⁷
NP1:Strike=138 Dip=40 Slip= 99
NP2: 306 51 83

09 04 21 22.88 52.035N 169.899W 33km
5.1mb (43 obs.) 4.8Msz (11 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 21C
Centroid Location:
Origin Time 04:21:26.8 0.8
Lat 52.38N 0.10 Lon 170.09W 0.12
Dep 18.9 4.5 Half-duration 1.9
Principal Axes:
Scale 10¹⁶ Nm
T Val= 12.14 Plg=63 Azm=319
N 1.73 0 50
P -13.87 27 140
Best Double Couple:Mo=1.3*10¹⁷
NP1:Strike=231 Dip=18 Slip= 91
NP2: 50 72 90

09 18 58 26.73 41.997S 88.081E 22km
5.2mb (16 obs.) 5.3Msz (8 obs.)
SOUTHEAST INDIAN RISE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 19C
Centroid Location:
Origin Time 18:58:31.0 0.8
Lat 42.12S 0.07 Lon 87.67E 0.08
Dep 15.0 FIX Half-duration 1.9
Principal Axes:
Scale 10¹⁷ Nm
T Val= 1.84 Plg= 2 Azm=173
N -0.58 72 270
P -1.26 18 83
Best Double Couple:Mo=1.6*10¹⁷
NP1:Strike=219 Dip=76 Slip=-169
NP2: 127 79 -14

09 22 49 02.11 22.611S 66.086W 247km
5.2mb (38 obs.)
JUJUY PROVINCE, ARGENTINA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 22C
Centroid Location:
Origin Time 22:49: 9.7 0.5
Lat 22.23S 0.06 Lon 66.00W 0.07
Dep 269.4 2.7 Half-duration 2.0
Principal Axes:
Scale 10¹⁷ Nm
T Val= 1.47 Plg=54 Azm=101
N 0.13 12 354
P -1.60 33 256
Best Double Couple:Mo=1.5*10¹⁷
NP1:Strike=307 Dip=16 Slip= 42
NP2: 176 79 102

10 11 15 24.68 2.305N 126.760E 44km
6.2mb (68 obs.) 6.8Msz (18 obs.)
MOLUCCA PASSAGE
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=210 Dip=65 Slip= 45
NP2: 97 50 147
Principal Axes:
T Plg=49 Azm= 71
P 9 330
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting with a large strike-slip component. The preferred fault plane is not determined.
RADIATED ENERGY
No. of sta: 7 Focal mech. M
Energy 1.9±0.7*10¹⁵ Nm
MOMENT TENSOR SOLUTION
Dep 60 No. of sta: 10
Principal Axes:
Scale 10¹⁹ Nm
T Val= 4.46 Plg=77 Azm= 93
N 0.59 10 233
P -5.05 8 325
Best Double Couple:Mo=4.8*10¹⁹
NP1:Strike= 67 Dip=38 Slip= 107
NP2: 226 54 77
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 37C M.W.: 14S, 32C

Centroid Location:
Origin Time 11:15:31.2 0.2
Lat 2.64N 0.02 Lon 126.72E 0.02
Dep 43.5 0.7 Half-duration 14.0
Principal Axes:
Scale 10¹⁹ Nm
T Val= 5.62 Plg=76 Azm=126
N -0.33 2 29
P -5.29 14 299
Best Double Couple:Mo=5.4*10¹⁹
NP1:Strike= 26 Dip=31 Slip= 87
NP2: 210 59 92

10 15 23 55.99 2.464N 126.689E 38km
5.5mb (31 obs.) 4.6Msz (1 obs.)
MOLUCCA PASSAGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 33C
Centroid Location:
Origin Time 15:24: 8.5 1.0
Lat 2.89N 0.10 Lon 126.70E 0.09
Dep 33.0 FIX Half-duration 3.4
Principal Axes:
Scale 10¹⁷ Nm
T Val= 9.44 Plg=64 Azm= 10
N -1.50 25 204
P -7.95 6 112
Best Double Couple:Mo=8.7*10¹⁷
NP1:Strike=176 Dip=45 Slip= 53
NP2: 43 56 121

10 16 59 20.58 6.317N 92.269E 42km
5.3mb (54 obs.) 5.3Msz (13 obs.)
NICOBAR ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 21C
Centroid Location:
Origin Time 16:59:18.5 0.9
Lat 6.28N 0.09 Lon 92.04E 0.08
Dep 15.0 FIX Half-duration 2.9
Principal Axes:
Scale 10¹⁷ Nm
T Val= 6.42 Plg=11 Azm=247
N -0.34 70 10
P -6.08 16 154
Best Double Couple:Mo=6.3*10¹⁷
NP1:Strike=291 Dip=71 Slip=-176
NP2: 200 87 -19

10 19 56 54.02 2.445N 126.612E 33km
5.5mb (26 obs.)
MOLUCCA PASSAGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 27C
Centroid Location:
Origin Time 19:57: 3.1 0.8
Lat 2.82N 0.08 Lon 126.75E 0.08
Dep 15.0 FIX Half-duration 2.5
Principal Axes:
Scale 10¹⁷ Nm
T Val= 3.73 Plg=62 Azm=192
N -0.84 22 52
P -2.89 16 316
Best Double Couple:Mo=3.3*10¹⁷
NP1:Strike= 17 Dip=35 Slip= 49
NP2: 244 65 115

10 20 29 43.14 2.396N 126.653E 33km
5.3mb (28 obs.) 4.4Msz (1 obs.)
MOLUCCA PASSAGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 33C
Centroid Location:
Origin Time 20:29:51.6 0.6
Lat 2.99N 0.06 Lon 126.84E 0.05
Dep 15.0 FIX Half-duration 3.0
Principal Axes:
Scale 10¹⁷ Nm
T Val= 5.76 Plg=68 Azm=159
N -0.09 9 47
P -5.67 20 313
Best Double Couple:Mo=5.7*10¹⁷
NP1:Strike= 28 Dip=26 Slip= 69
NP2: 231 66 100

10 23 42 29.53 21.556N 108.245W 10km
5.1mb (12 obs.) 4.8Msz (1 obs.)
REVILLA GIGEDO ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
L.P.B.: 11S, 19C
Centroid Location:
Origin Time 23:42:28.7 3.5
Lat 21.40N 0.30 Lon 108.70W 0.11
Dep 15.0 FIX Half-duration 2.0
Principal Axes:
Scale 10**16 Nm
T Val= 10.40 Plg= 0 Azm=220
N -2.98 90 180
P -7.42 0 130
Best Double Couple:Ma=8.9*10**16
NP1:Strike=265 Dip=90 Slip= 180
NP2: 355 90 0

11 01 57 06.83 2.384N 126.603E 66km
5.2mb (27 obs.)
MOLUCCA PASSAGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 29C
Centroid Location:
Origin Time 01:57: 4.8 0.3
Lat 2.37N FIX;Lon 126.72E FIX
Dep 42.2 2.7 Half-duration 3.0
Principal Axes:
Scale 10**17 Nm
T Val= 5.23 Plg=77 Azm=218
N 0.77 13 36
P -6.00 1 126
Best Double Couple:Ma=5.6*10**17
NP1:Strike=229 Dip=46 Slip= 108
NP2: 23 47 72

11 04 05 20.78 2.442N 126.685E 33km
5.2mb (16 obs.) 4.1Msz (1 obs.)
MOLUCCA PASSAGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 23C
Centroid Location:
Origin Time 04:05:23.4 1.3
Lat 2.05N 0.13 Lon 126.24E 0.13
Dep 15.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**17 Nm
T Val= 2.53 Plg=45 Azm=108
N -0.03 16 1
P -2.50 40 257
Best Double Couple:Ma=2.5*10**17
NP1:Strike=280 Dip=17 Slip= 9
NP2: 182 88 106

11 15 44 25.55 15.806S 167.657E 148km
5.6mb (22 obs.)
VANUATU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 19C
Centroid Location:
Origin Time 15:44:38.1 2.6
Lat 15.39S 0.25 Lon 167.28E 0.16
Dep 154.2 4.6 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 9.49 Plg=17 Azm=162
N -3.54 51 50
P -5.95 34 264
Best Double Couple:Ma=7.7*10**16
NP1:Strike=298 Dip=53 Slip= -14
NP2: 36 79 -142

12 07 55 47.52 26.216N 96.866E 33km
5.0mb (29 obs.) 4.4Msz (1 obs.)
BURMA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 17C
Centroid Location:
Origin Time 07:55:56.2 1.0
Lat 26.18N FIX;Lon 96.83E FIX
Dep 33.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 9.55 Plg=37 Azm=151
N -0.04 52 344
P -9.51 6 246
Best Double Couple:Ma=9.5*10**16
NP1:Strike=295 Dip=60 Slip= 24
NP2: 193 69 148

12 11 05 53.78 57.292N 33.535W 10km
5.2mb (46 obs.) 5.2Msz (2 obs.)

NORTH ATLANTIC OCEAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 7S, 17C
Centroid Location:
Origin Time 11:05:54.3 2.3
Lat 56.41N 0.32 Lon 32.71W 0.27
Dep 15.0 FIX Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 8.07 Plg=21 Azm=299
N -0.86 4 31
P -7.20 69 131
Best Double Couple:Ma=7.6*10**16
NP1:Strike= 22 Dip=24 Slip=-100
NP2: 212 66 -86

12 14 26 47.69 19.694N 74.361W 60km
5.2mb (58 obs.)
CUBA REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 18C
Centroid Location:
Origin Time 14:26:50.1 0.6
Lat 19.98N 0.10 Lon 74.52W 0.12
Dep 25.5 6.1 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 7.70 Plg=58 Azm= 97
N -0.50 21 329
P -7.20 23 230
Best Double Couple:Ma=7.4*10**16
NP1:Strike=286 Dip=29 Slip= 43
NP2: 157 71 112

12 20 03 16.74 2.742N 79.727W 33km
5.0mb (37 obs.) 4.1Msz (1 obs.)
SOUTH OF PANAMA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 17C
Centroid Location:
Origin Time 20:03:15.0 0.8
Lat 2.41N 0.07 Lon 79.44W 0.09
Dep 33.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 5.63 Plg= 2 Azm=268
N 0.03 18 359
P -5.65 72 172
Best Double Couple:Ma=5.6*10**16
NP1:Strike=340 Dip=46 Slip=-116
NP2: 195 50 -66

13 08 06 55.87 7.957N 38.092W 10km
5.4mb (42 obs.) 5.3Msz (6 obs.)
CENTRAL MID-ATLANTIC RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 28C
Centroid Location:
Origin Time 08:07: 3.1 0.5
Lat 8.32N 0.05 Lon 37.60W 0.06
Dep 15.0 FIX Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.94 Plg= 7 Azm=272
N -0.38 2 2
P -1.56 83 112
Best Double Couple:Ma=1.8*10**17
NP1:Strike=359 Dip=38 Slip= -94
NP2: 184 52 -87

13 11 25 41.05 2.352N 126.716E 33km
5.2mb (22 obs.) 4.6Msz (1 obs.)
MOLUCCA PASSAGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 22C
Centroid Location:
Origin Time 11:25:42.3 0.9
Lat 2.33N FIX;Lon 126.77E FIX
Dep 15.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Val= 12.23 Plg=59 Azm=148
N 1.81 11 38
P -14.04 29 302
Best Double Couple:Ma=1.3*10**17
NP1:Strike= 4 Dip=19 Slip= 54
NP2: 222 74 102

13 12 15 20.04 4.987N 126.915E 88km
5.7mb (53 obs.)
TALAUD ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 26C
Centroid Location:
Origin Time 12:15:18.8 0.4
Lat 5.12N 0.04 Lon 127.10E 0.08
Dep 25.4 3.7 Half-duration 2.1
Principal Axes:
Scale 10**17 Nm
T Val= 2.82 Plg=58 Azm=216
N -0.15 9 321
P -2.67 30 56
Best Double Couple:Ma=2.7*10**17
NP1:Strike=172 Dip=17 Slip= 123
NP2: 319 76 81

13 14 51 24.65 57.449N 33.177W 10km
5.2mb (43 obs.) 5.2Msz (12 obs.)
NORTH ATLANTIC OCEAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 16C
Centroid Location:
Origin Time 14:51:25.9 0.6
Lat 56.85N 0.15 Lon 33.01W 0.07
Dep 15.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**17 Nm
T Val= 1.33 Plg= 0 Azm=282
N -0.25 9 12
P -1.08 81 189
Best Double Couple:Ma=1.2*10**17
NP1:Strike= 2 Dip=45 Slip=-103
NP2: 201 46 -77

13 15 14 47.68 57.443N 33.251W 10km
5.2mb (50 obs.) 5.2Msz (11 obs.)
NORTH ATLANTIC OCEAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 22C
Centroid Location:
Origin Time 15:14:54.0 0.5
Lat 57.82N 0.07 Lon 33.28W 0.08
Dep 15.0 FIX Half-duration 2.3
Principal Axes:
Scale 10**17 Nm
T Val= 2.84 Plg= 8 Azm=292
N -0.30 2 22
P -2.53 82 126
Best Double Couple:Ma=2.7*10**17
NP1:Strike= 20 Dip=37 Slip= -93
NP2: 204 53 -88

13 23 43 46.45 25.616N 142.536E 30km
5.5mb (43 obs.) 5.2Msz (15 obs.)
VOLCANO ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 22C
Centroid Location:
Origin Time 23:43:49.2 0.5
Lat 25.64N 0.06 Lon 142.51E 0.04
Dep 15.0 FIX Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.83 Plg=78 Azm=179
N -0.17 11 336
P -1.66 5 67
Best Double Couple:Ma=1.7*10**17
NP1:Strike=170 Dip=42 Slip= 107
NP2: 327 51 75

14 01 11 28.92 64.877S 177.146E 10km
5.0mb (5 obs.) 4.7Msz (2 obs.)
BALLENY ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 21C
Centroid Location:
Origin Time 01:11:37.6 0.7
Lat 65.21S 0.12 Lon 176.66E 0.21
Dep 15.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**17 Nm
T Val= 1.07 Plg= 4 Azm= 3
N -0.03 74 259
P -1.04 15 94
Best Double Couple:Ma=1.1*10**17
NP1:Strike=137 Dip=76 Slip= -8

NP2: 229 82 -166

14 06 20 21.33 10.447S 161.372E 32km
6.0mb (57 obs.) 6.4Msz (38 obs.)
SOLOMON ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=359 Dip=87 Slip= -90
NP2: 179 3 -90
Principal Axes:
T P1g=42 Azm= 89
P 48 269
Comment: The focal mechanism is moderately well controlled and corresponds to normal faulting. The preferred fault plane is NP1.
RADIATED ENERGY
No. of sta: 10 Facal mech. F
Energy 9.6±2.1*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 28 No. of sta: 13
Principal Axes:
Scale 10**18 Nm
T Val= 5.45 P1g=45 Azm=108
N -0.15 11 6
P -5.29 43 265
Best Double Couple:Mo=5.4*10**18
NP1:Strike=282 Dip=12 Slip= 6
NP2: 186 89 101
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 41C M.W.: 13S, 27C
Centroid Location:
Origin Time 06:20:28.8 0.2
Lat 10.46S 0.02 Lon 161.72E 0.02
Dep 28.0 0.9 Half-duration 6.3
Principal Axes:
Scale 10**18 Nm
T Val= 5.92 P1g=38 Azm=105
N -0.33 16 2
P -5.58 47 254
Best Double Couple:Mo=5.8*10**18
NP1:Strike=255 Dip=16 Slip= -17
NP2: 1 85 -106

14 13 05 39.27 17.422S 167.426E 33km
4.8mb (12 obs.) 4.9Msz (4 obs.)
VANUATU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 24C
Centroid Location:
Origin Time 13:05:42.3 0.6
Lat 17.50S 0.07 Lon 167.51E 0.07
Dep 15.0 FIX Half-duration 1.9
Principal Axes:
Scale 10**17 Nm
T Val= 2.04 P1g=59 Azm= 48
N -0.08 5 147
P -1.96 30 241
Best Double Couple:Mo=2.0*10**17
NP1:Strike=348 Dip=15 Slip= 111
NP2: 146 76 84

14 14 53 06.21 17.452S 167.310E 33km
4.8mb (10 obs.) 5.1Msz (8 obs.)
VANUATU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 23C
Centroid Location:
Origin Time 14:53: 7.9 0.4
Lat 17.52S 0.06 Lon 167.56E 0.06
Dep 15.0 FIX Half-duration 2.3
Principal Axes:
Scale 10**17 Nm
T Val= 2.30 P1g=69 Azm= 73
N 0.20 2 169
P -2.51 21 259
Best Double Couple:Mo=2.4*10**17
NP1:Strike=353 Dip=24 Slip= 95
NP2: 168 66 88

14 17 10 47.36 17.511S 167.579E 13km
4.9mb (10 obs.) 4.9Msz (4 obs.)
VANUATU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 21C
Centroid Location:
Origin Time 17:10:53.7 0.7
Lat 17.46S 0.08 Lon 167.42E 0.08
Dep 19.6 4.3 Half-duration 1.8

Principal Axes:
Scale 10**16 Nm
T Val= 12.52 P1g=58 Azm= 31
N -0.42 18 153
P -12.10 26 252
Best Double Couple:Mo=1.2*10**17
NP1:Strike= 17 Dip=25 Slip= 137
NP2: 147 73 71

16 16 36 52.13 56.404S 121.964W 10km
5.4mb (20 obs.) 6.0Msz (16 obs.)
EASTER ISLAND CORDILLERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 40C M.W.: 12S, 27C
Centroid Location:
Origin Time 16:37: 0.4 0.1
Lat 56.45S 0.02 Lon 122.00W 0.03
Dep 15.0 FIX Half-duration 5.0
Principal Axes:
Scale 10**18 Nm
T Val= 2.21 P1g= 7 Azm=146
N -0.22 82 306
P -2.00 3 56
Best Double Couple:Mo=2.1*10**18
NP1:Strike=191 Dip=83 Slip= 177
NP2: 281 87 7

16 19 42 45.97 2.568N 126.635E 56km
5.1mb (17 obs.) 4.5Msz (1 obs.)
MOLUCCA PASSAGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 30C
Centroid Location:
Origin Time 19:42:50.1 0.5
Lat 3.21N 0.07 Lon 126.95E 0.08
Dep 36.9 5.0 Half-duration 2.2
Principal Axes:
Scale 10**17 Nm
T Val= 1.90 P1g=73 Azm=185
N -0.13 15 35
P -1.77 8 303
Best Double Couple:Mo=1.8*10**17
NP1:Strike= 16 Dip=39 Slip= 66
NP2: 226 55 108

16 21 50 37.89 45.313N 151.805E 96km
5.6mb (81 obs.)
KURIL ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 29C
Centroid Location:
Origin Time 21:50:31.2 0.7
Lat 45.14N 0.05 Lon 152.34E 0.07
Dep 71.6 2.8 Half-duration 2.1
Principal Axes:
Scale 10**17 Nm
T Val= 1.61 P1g=74 Azm= 45
N 0.46 16 212
P -2.08 4 303
Best Double Couple:Mo=1.9*10**17
NP1:Strike= 49 Dip=44 Slip= 113
NP2: 198 51 69

17 00 39 08.29 1.821N 95.037W 10km
4.7mb (4 obs.) 4.8Msz (2 obs.)
GALAPAGOS ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 25C
Centroid Location:
Origin Time 00:39:13.3 0.8
Lat 2.23N FIX;Lon 95.11W FIX
Dep 15.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Val= 12.29 P1g= 5 Azm=326
N -5.01 20 58
P -7.27 70 221
Best Double Couple:Mo=9.8*10**16
NP1:Strike= 36 Dip=43 Slip=-119
NP2: 253 53 -65

17 01 14 27.81 0.455N 126.345E 39km
5.3mb (31 obs.) 5.1Msz (8 obs.)
MOLUCCA PASSAGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 24C
Centroid Location:
Origin Time 01:14:32.2 0.4

Lat 0.53N 0.07 Lon 126.21E 0.08
Dep 15.0 FIX Half-duration 2.2
Principal Axes:
Scale 10**17 Nm
T Val= 2.20 P1g=66 Azm=205
N 0.61 22 0
P -2.82 9 94
Best Double Couple:Mo=2.5*10**17
NP1:Strike=209 Dip=41 Slip= 126
NP2: 345 58 63

17 05 01 43.41 21.857S 176.372W 141km
5.4mb (39 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 23C
Centroid Location:
Origin Time 05:01:52.0 1.1
Lat 21.96S 0.10 Lon 176.47W 0.10
Dep 149.4 3.0 Half-duration 1.8
Principal Axes:
Scale 10**16 Nm
T Val= 12.89 P1g=18 Azm=135
N -0.06 33 33
P -12.83 51 249
Best Double Couple:Mo=1.3*10**17
NP1:Strike=265 Dip=40 Slip= -32
NP2: 20 70 -125

17 15 12 52.64 17.492S 72.590W 46km
5.2mb (16 obs.) 5.3Msz (3 obs.)
NEAR COAST OF PERU
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 23C
Centroid Location:
Origin Time 15:12:55.9 0.5
Lat 17.80S 0.09 Lon 72.68W 0.07
Dep 62.9 6.0 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 5.34 P1g=61 Azm=116
N 1.57 21 340
P -6.91 18 243
Best Double Couple:Mo=6.1*10**16
NP1:Strike=302 Dip=33 Slip= 48
NP2: 170 66 114

18 00 49 41.24 2.424N 126.814E 33km
5.1mb (19 obs.) 4.9Msz (1 obs.)
MOLUCCA PASSAGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 21C
Centroid Location:
Origin Time 00:49:45.5 0.9
Lat 2.68N 0.09 Lon 126.82E 0.13
Dep 15.0 FIX Half-duration 2.1
Principal Axes:
Scale 10**17 Nm
T Val= 2.03 P1g=52 Azm= 65
N -0.16 5 162
P -1.87 37 256
Best Double Couple:Mo=1.9*10**17
NP1:Strike= 17 Dip=10 Slip= 125
NP2: 161 82 84

18 11 01 45.75 7.617N 94.121E 33km
5.3mb (57 obs.) 5.0Msz (6 obs.)
NICOBAR ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 22C
Centroid Location:
Origin Time 11:01:49.7 0.8
Lat 7.75N 0.05 Lon 94.68E 0.08
Dep 33.0 FIX Half-duration 1.8
Principal Axes:
Scale 10**17 Nm
T Val= 1.18 P1g=27 Azm=282
N 0.16 62 117
P -1.34 6 16
Best Double Couple:Mo=1.3*10**17
NP1:Strike= 62 Dip=66 Slip= 16
NP2: 326 76 156

18 13 13 34.08 9.836N 57.899E 10km
5.2mb (6 obs.)
CARLSBERG RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 19C

Centroid Location:
 Origin Time 13:13:30.6 2.4
 Lat 8.98N 0.17 Lon 57.48E 0.13
 Dep 15.0 FIX Half-duration 1.5
 Principal Axes:
 Scale 10**16 Nm
 T Val= 6.15 Plg=24 Azm= 26
 N -0.25 14 289
 P -5.91 61 171
 Best Double Couple:Ma=6.0*10**16
 NP1:Strike=144 Dip=24 Slip= -53
 NP2: 284 71 -105

18 13 16 56.90 9.824N 57.904E 10km
 4.8mb (11 obs.) 4.9Msz (4 obs.)
 CARLSBERG RIDGE
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 14S, 23C
 Centroid Location:
 Origin Time 13:17: 3.6 0.9
 Lat 9.89N FIX;Lon 57.87E FIX
 Dep 15.0 FIX Half-duration 1.9
 Principal Axes:
 Scale 10**16 Nm
 T Val= 9.09 Plg= 0 Azm= 30
 N 1.99 30 300
 P -11.08 60 121
 Best Double Couple:Ma=1.0*10**17
 NP1:Strike=147 Dip=52 Slip= -51
 NP2: 274 53 -129

19 01 45 56.88 7.604N 94.029E 22km
 5.2mb (44 obs.) 4.8Msz (5 obs.)
 NICOBAR ISLANDS REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 11S, 22C
 Centroid Location:
 Origin Time 01:46: 1.6 0.9
 Lat 7.65N 0.09 Lon 94.47E 0.11
 Dep 15.0 FIX Half-duration 1.5
 Principal Axes:
 Scale 10**16 Nm
 T Val= 8.80 Plg=17 Azm= 95
 N 2.35 57 212
 P -11.15 27 356
 Best Double Couple:Ma=1.0*10**17
 NP1:Strike=138 Dip=58 Slip=-172
 NP2: 43 83 -32

19 10 39 03.49 2.014S 138.921E 33km
 5.5mb (38 obs.) 4.6Msz (12 obs.)
 WEST IRIAN
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 11S, 20C
 Centroid Location:
 Origin Time 10:39: 6.9 0.9
 Lat 1.90S 0.08 Lon 138.58E 0.12
 Dep 26.1 7.0 Half-duration 1.7
 Principal Axes:
 Scale 10**16 Nm
 T Val= 9.72 Plg=61 Azm=206
 N 0.68 0 296
 P -10.40 29 27
 Best Double Couple:Ma=1.0*10**17
 NP1:Strike=117 Dip=16 Slip= 91
 NP2: 296 74 90

19 12 27 09.95 35.964N 139.788E 60km
 5.5mb (71 obs.)
 NEAR S. COAST OF HONSHU, JAPAN
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 31C
 Centroid Location:
 Origin Time 12:27:13.2 0.4
 Lat 35.70N 0.04 Lon 139.82E 0.08
 Dep 33.9 4.0 Half-duration 2.3
 Principal Axes:
 Scale 10**17 Nm
 T Val= 2.61 Plg=61 Azm=285
 N -0.05 13 39
 P -2.56 26 136
 Best Double Couple:Ma=2.6*10**17
 NP1:Strike=252 Dip=20 Slip= 125
 NP2: 35 72 77

19 12 49 09.91 14.894S 167.171E 101km
 5.6mb (35 obs.)
 VANUATU ISLANDS
 CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
 L.P.B.: 13S, 34C
 Centroid Location:
 Origin Time 12:49:15.5 0.4
 Lat 15.11S 0.03 Lon 166.82E 0.03
 Dep 103.4 1.8 Half-duration 3.8
 Principal Axes:
 Scale 10**17 Nm
 T Val= 13.70 Plg=34 Azm=149
 N -0.42 43 279
 P -13.28 28 38
 Best Double Couple:Ma=1.3*10**18
 NP1:Strike=181 Dip=43 Slip= 174
 NP2: 275 86 47

19 14 28 46.51 37.009N 28.226E 10km
 4.7mb (30 obs.)
 TURKEY
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 8S, 15C
 Centroid Location:
 Origin Time 14:28:54.3 2.0
 Lat 37.01N FIX;Lon 28.32E FIX
 Dep 15.0 FIX Half-duration 2.1
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.76 Plg=13 Azm=359
 N -0.23 3 269
 P -1.53 77 168
 Best Double Couple:Ma=1.6*10**17
 NP1:Strike= 93 Dip=32 Slip= -85
 NP2: 267 58 -93

19 17 55 48.57 39.219S 46.076E 10km
 5.2mb (11 obs.) 5.2Msz (1 obs.)
 ATLANTIC-INDIAN RISE
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 21C
 Centroid Location:
 Origin Time 17:55:54.8 1.0
 Lat 38.77S 0.10 Lon 46.52E 0.11
 Dep 15.0 FIX Half-duration 1.4
 Principal Axes:
 Scale 10**16 Nm
 T Val= 5.52 Plg= 0 Azm=146
 N -0.61 90 180
 P -4.91 0 56
 Best Double Couple:Ma=5.2*10**16
 NP1:Strike=191 Dip=90 Slip= 180
 NP2: 281 90 0

21 20 55 27.85 37.498S 50.877E 10km
 5.1mb (15 obs.)
 ATLANTIC-INDIAN RISE
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 25C
 Centroid Location:
 Origin Time 20:55:32.2 1.0
 Lat 37.62S 0.12 Lon 50.82E 0.12
 Dep 15.0 FIX Half-duration 1.6
 Principal Axes:
 Scale 10**16 Nm
 T Val= 8.73 Plg=26 Azm=356
 N 0.35 7 90
 P -9.08 63 195
 Best Double Couple:Ma=8.9*10**16
 NP1:Strike= 69 Dip=20 Slip=-112
 NP2: 273 71 -82

21 22 08 54.76 44.462S 78.766W 26km
 5.6mb (24 obs.) 5.3Msz (6 obs.)
 OFF COAST OF SOUTHERN CHILE
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 14S, 29C
 Centroid Location:
 Origin Time 22:08:55.8 0.3
 Lat 44.96S 0.04 Lon 78.44W 0.10
 Dep 15.0 FIX Half-duration 2.1
 Principal Axes:
 Scale 10**17 Nm
 T Val= 2.49 Plg=26 Azm= 1
 N -0.23 3 269
 P -2.26 64 172
 Best Double Couple:Ma=2.4*10**17
 NP1:Strike= 98 Dip=20 Slip= -80
 NP2: 268 71 -94

22 10 25 45.27 56.152N 153.642W 33km
 5.7mb (80 obs.) 5.8Msz (25 obs.)

KODIAK ISLAND REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 39C
 Centroid Location:
 Origin Time 10:25:48.2 0.4
 Lat 55.70N 0.06 Lon 153.76W 0.06
 Dep 25.0 BDY Half-duration 3.5
 Principal Axes:
 Scale 10**17 Nm
 T Val= 9.88 Plg=56 Azm=336
 N 0.73 7 237
 P -10.61 33 142
 Best Double Couple:Ma=1.0*10**18
 NP1:Strike=208 Dip=13 Slip= 60
 NP2: 58 78 97

23 05 51 11.42 14.771S 167.300E 155km
 5.4mb (44 obs.)
 VANUATU ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 24C
 Centroid Location:
 Origin Time 05:51:15.9 0.7
 Lat 15.06S 0.06 Lon 167.05E 0.06
 Dep 154.7 1.8 Half-duration 2.3
 Principal Axes:
 Scale 10**17 Nm
 T Val= 2.70 Plg=65 Azm=131
 N -0.05 20 349
 P -2.65 14 254
 Best Double Couple:Ma=2.7*10**17
 NP1:Strike=319 Dip=35 Slip= 54
 NP2: 180 62 112

24 00 40 35.15 37.731N 29.347E 19km
 5.0mb (54 obs.) 4.6Msz (3 obs.)
 TURKEY
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 30C
 Centroid Location:
 Origin Time 00:40:45.3 0.7
 Lat 37.76N FIX;Lon 29.44E FIX
 Dep 15.0 FIX Half-duration 1.8
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.15 Plg= 6 Azm= 14
 N -0.08 8 283
 P -1.08 80 141
 Best Double Couple:Ma=1.1*10**17
 NP1:Strike=113 Dip=39 Slip= -77
 NP2: 276 52 -100

24 07 33 48.94 14.159N 124.360E 24km
 5.2mb (21 obs.) 4.8Msz (5 obs.)
 LUZON, PHILIPPINE ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 9S, 20C
 Centroid Location:
 Origin Time 07:33:49.7 0.4
 Lat 14.12N FIX;Lon 124.37E FIX
 Dep 24.3 3.4 Half-duration 2.6
 Principal Axes:
 Scale 10**17 Nm
 T Val= 3.56 Plg=55 Azm=241
 N 0.05 1 332
 P -3.61 35 62
 Best Double Couple:Ma=3.6*10**17
 NP1:Strike=156 Dip=10 Slip= 94
 NP2: 332 80 89

24 12 36 59.87 38.287S 71.151W 33km
 5.3mb (17 obs.) 4.7Msz (1 obs.)
 S. CHILE-ARGENTINA BORDER REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 20C
 Centroid Location:
 Origin Time 12:36:48.0 0.5
 Lat 39.26S 0.10 Lon 71.83W 0.09
 Dep 15.0 FIX Half-duration 1.4
 Principal Axes:
 Scale 10**16 Nm
 T Val= 9.90 Plg=35 Azm=327
 N -1.37 54 159
 P -8.53 5 61
 Best Double Couple:Ma=9.2*10**16
 NP1:Strike=110 Dip=62 Slip= 23
 NP2: 9 70 150

25 11 26 35.47 29.915S 177.885W 31km
 6.1mb (41 obs.) 6.7Msz (25 obs.)
 KERMADEC ISLANDS
 FAULT PLANE SOLUTION: P-Waves
 NP1:Strike= 22 Dip=53 Slip= 128
 NP2: 150 51 51
 Principal Axes:
 T Val= 1.43 P1g=61 Azm=354
 P 1 86
 Comment: The focal mechanism is
 poorly controlled and
 corresponds to reverse
 faulting with a large strike-
 slip component. The preferred
 fault plane is not determined.
 RADIATED ENERGY
 No. of sta: 8 Focal mech. M
 Energy 1.2±0.4*10**14 Nm
 MOMENT TENSOR SOLUTION
 Dep 31 No. of sta: 13
 Principal Axes:
 Scale 10**19 Nm
 T Val= 2.09 P1g=49 Azm=334
 N 0.07 33 195
 P -2.15 21 98
 Best Double Couple:Mo=2.1*10**19
 NP1:Strike=137 Dip=38 Slip= 27
 NP2: 26 74 125
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 45C M.W.: 14S, 34C
 Centroid Location:
 Origin Time 11:26:42.1 0.2
 Lat 30.13S 0.01 Lon 177.46W 0.01
 Dep 46.7 0.6 Half-duration 9.0
 Principal Axes:
 Scale 10**19 Nm
 T Val= 1.43 P1g=74 Azm=273
 N -0.11 3 11
 P -1.32 16 102
 Best Double Couple:Mo=1.4*10**19
 NP1:Strike=196 Dip=29 Slip= 95
 NP2: 10 61 87

26 12 21 11.23 9.673N 84.184W 23km
 4.6mb (10 obs.) 4.8Msz (3 obs.)
 COSTA RICA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 25C
 Centroid Location:
 Origin Time 12:21:20.6 0.7
 Lat 9.87N 0.06 Lon 84.66W 0.09
 Dep 37.5 5.9 Half-duration 1.7
 Principal Axes:
 Scale 10**16 Nm
 T Val= 13.51 P1g=11 Azm=115
 N -0.88 78 309
 P -12.63 3 206
 Best Double Couple:Mo=1.3*10**17
 NP1:Strike=251 Dip=80 Slip= 6
 NP2: 160 84 170

26 20 59 25.49 23.838S 177.340W 26km
 5.3mb (13 obs.)
 SOUTH OF FIJI ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 10S, 21C
 Centroid Location:
 Origin Time 20:59:29.5 1.2
 Lat 23.93S 0.09 Lon 177.63W 0.10
 Dep 24.6 5.0 Half-duration 1.4
 Principal Axes:

Scale 10**16 Nm
 T Val= 4.55 P1g= 4 Azm=115
 N 1.38 1 25
 P -5.93 86 280
 Best Double Couple:Mo=5.2*10**16
 NP1:Strike=206 Dip=41 Slip= -88
 NP2: 24 49 -91

27 23 39 10.82 2.301N 128.009E 54km
 5.8mb (33 obs.) 6.0Msz (28 obs.)
 HALMAHERA
 FAULT PLANE SOLUTION: P-Waves
 NP1:Strike= 9 Dip=85 Slip= -45
 NP2: 104 45 -173
 Principal Axes:
 T Val= 3.65 P1g=26 Azm= 65
 P 34 316
 Comment: The focal mechanism is
 moderately well controlled and
 corresponds to strike-slip
 faulting with a large normal
 component. The preferred fault
 plane is not determined.
 RADIATED ENERGY
 No. of sta: 5 Focal mech. F
 Energy 8.0±3.0*10**13 Nm
 MOMENT TENSOR SOLUTION
 Dep 21 No. of sta: 13
 Principal Axes:
 Scale 10**18 Nm
 T Val= 0.11 P1g=10 Azm= 44
 N -3.76 26 309
 P -3.76 26 309
 Best Double Couple:Mo=3.7*10**18
 NP1:Strike= 89 Dip=64 Slip= -168
 NP2: 354 79 -26
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 40C M.W.: 12S, 22C
 Centroid Location:
 Origin Time 23:39:13.4 0.2
 Lat 2.29N FIX;Lon 127.97E FIX
 Dep 22.8 1.6 Half-duration 6.0
 Principal Axes:
 Scale 10**18 Nm
 T Val= 3.07 P1g= 2 Azm= 51
 N 1.61 57 143
 P -4.67 33 320
 Best Double Couple:Mo=3.9*10**18
 NP1:Strike=100 Dip=66 Slip= -157
 NP2: 0 69 -26

28 00 51 27.11 2.288N 127.916E 56km
 5.7mb (33 obs.) 5.2Msz (8 obs.)
 MOLUCCA PASSAGE
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 14S, 31C
 Centroid Location:
 Origin Time 00:51:25.6 0.6
 Lat 2.46N 0.05 Lon 127.67E 0.07
 Dep 43.0 5.9 Half-duration 3.3
 Principal Axes:
 Scale 10**17 Nm
 T Val= 6.43 P1g=11 Azm=219
 N 1.21 56 113
 P -7.64 32 316
 Best Double Couple:Mo=7.0*10**17
 NP1:Strike=353 Dip=60 Slip= -16
 NP2: 92 76 -148

28 05 50 31.67 2.257N 127.934E 53km
 5.2mb (13 obs.) 4.4Msz (6 obs.)
 MOLUCCA PASSAGE

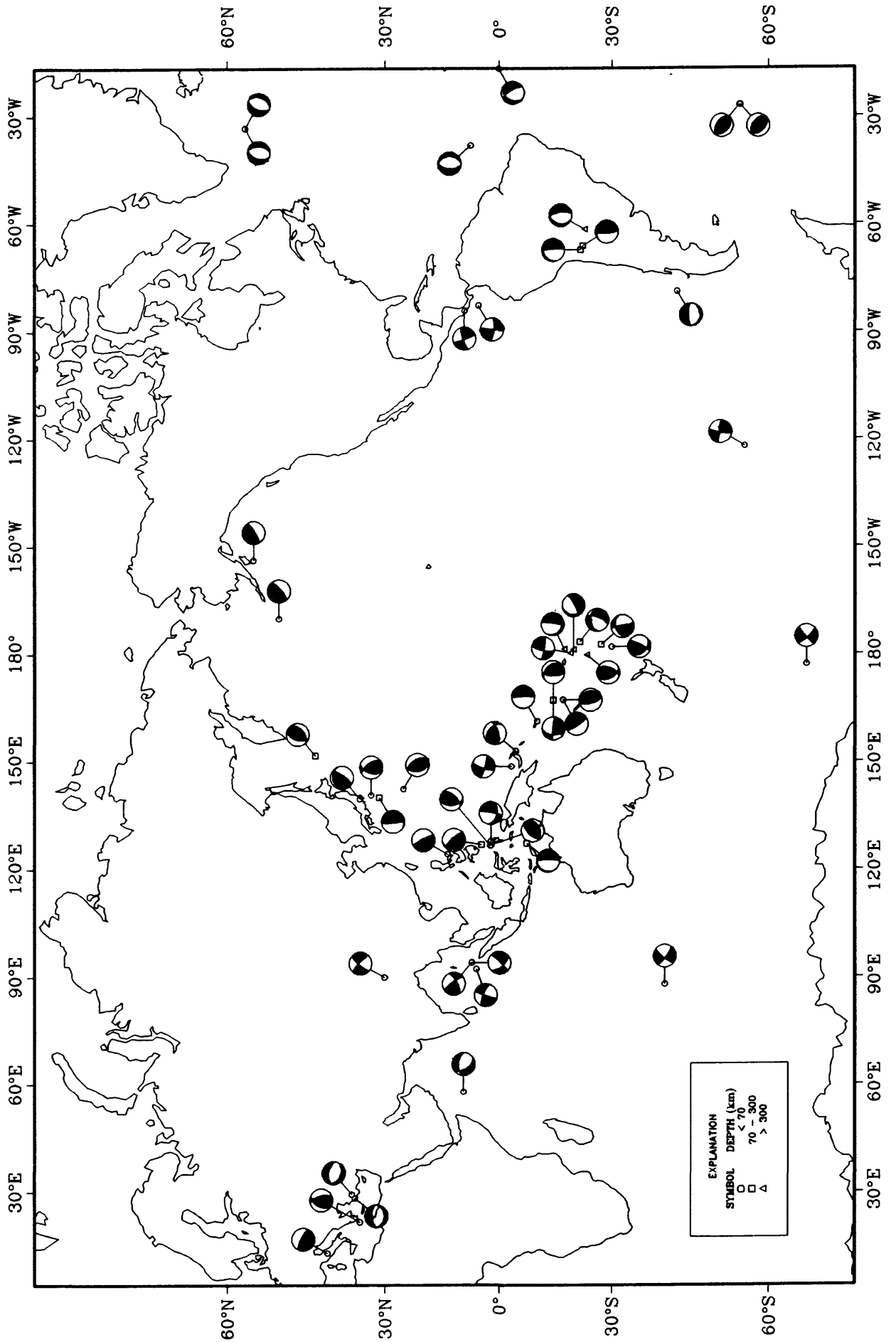
CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 11S, 22C
 Centroid Location:
 Origin Time 05:50:31.1 0.6
 Lat 2.30N 0.05 Lon 127.65E 0.07
 Dep 37.9 5.1 Half-duration 1.7
 Principal Axes:
 Scale 10**16 Nm
 T Val= 10.59 P1g= 9 Azm=242
 N -0.66 15 149
 P -9.92 73 2
 Best Double Couple:Mo=1.0*10**17
 NP1:Strike=349 Dip=38 Slip= -66
 NP2: 139 56 -108

28 13 01 57.64 23.113S 61.465W 569km
 5.6mb (78 obs.)
 PARAGUAY
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 40C M.W.: 15S, 31C
 Centroid Location:
 Origin Time 13:02: 4.2 0.1
 Lat 23.23S 0.02 Lon 61.59W 0.01
 Dep 589.7 1.0 Half-duration 6.8
 Principal Axes:
 Scale 10**18 Nm
 T Val= 7.67 P1g=22 Azm= 89
 N -0.95 8 356
 P -6.71 66 247
 Best Double Couple:Mo=7.2*10**18
 NP1:Strike=194 Dip=24 Slip= -70
 NP2: 352 68 -99

28 13 48 57.03 7.624S 127.399E 196km
 5.0mb (15 obs.)
 BANDA SEA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 9S, 17C
 Centroid Location:
 Origin Time 13:48:41.1 2.2
 Lat 8.39S 0.18 Lon 128.08E 0.15
 Dep 263.0 4.1 Half-duration 4.3
 Principal Axes:
 Scale 10**18 Nm
 T Val= 1.94 P1g=36 Azm= 93
 N -0.17 5 0
 P -1.77 53 263
 Best Double Couple:Mo=1.9*10**18
 NP1:Strike=208 Dip=10 Slip= -62
 NP2: 359 81 -95

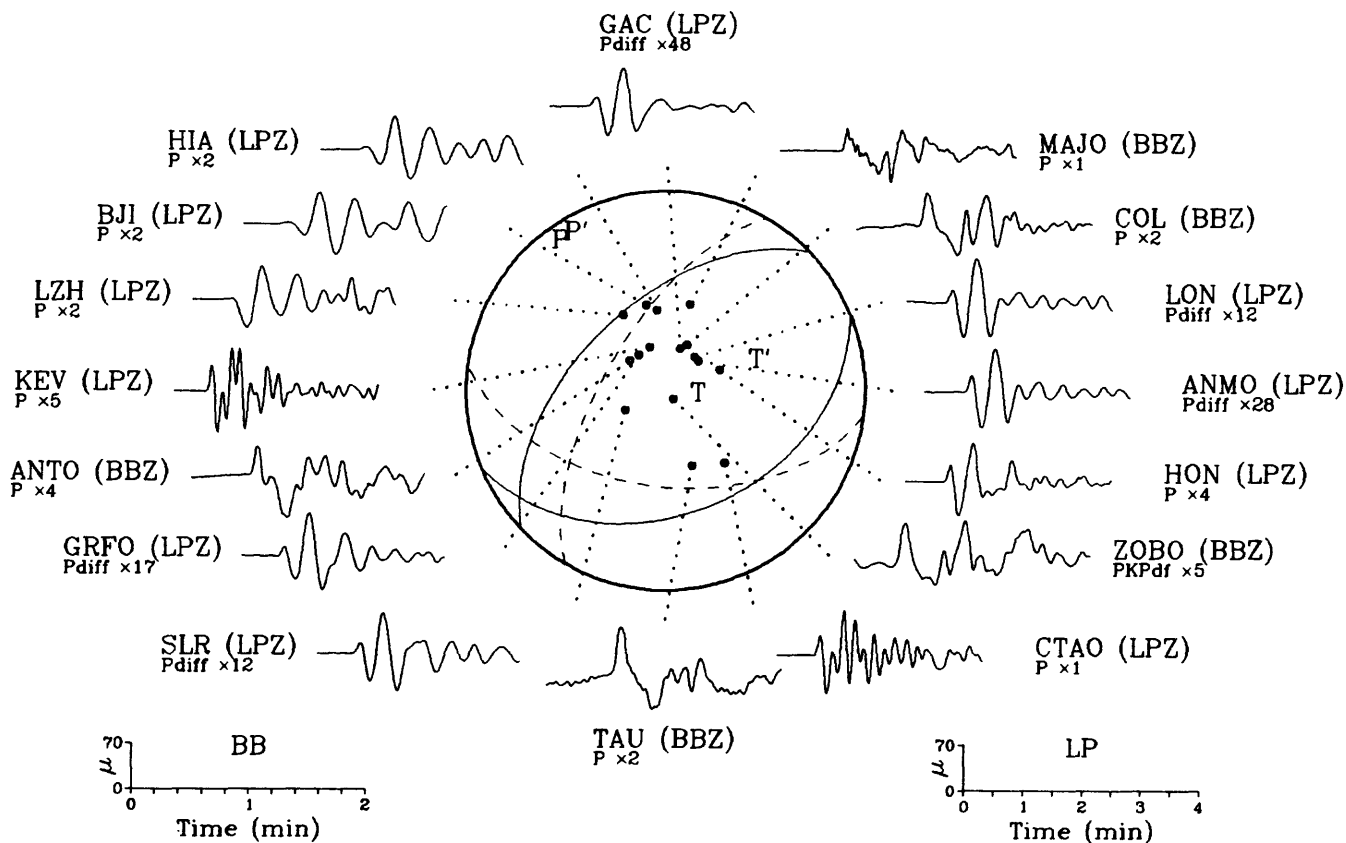
28 21 57 49.70 11.342S 166.241E 52km
 5.2mb (7 obs.)
 SANTA CRUZ ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 11S, 23C
 Centroid Location:
 Origin Time 21:57:53.1 0.8
 Lat 11.52S 0.08 Lon 165.74E 0.08
 Dep 69.8 4.6 Half-duration 1.5
 Principal Axes:
 Scale 10**16 Nm
 T Val= 6.92 P1g=78 Azm=286
 N -0.87 4 174
 P -6.05 11 83
 Best Double Couple:Mo=6.5*10**16
 NP1:Strike=168 Dip=34 Slip= 82
 NP2: 357 56 95

Earthquake Focal Mechanisms for February 1989



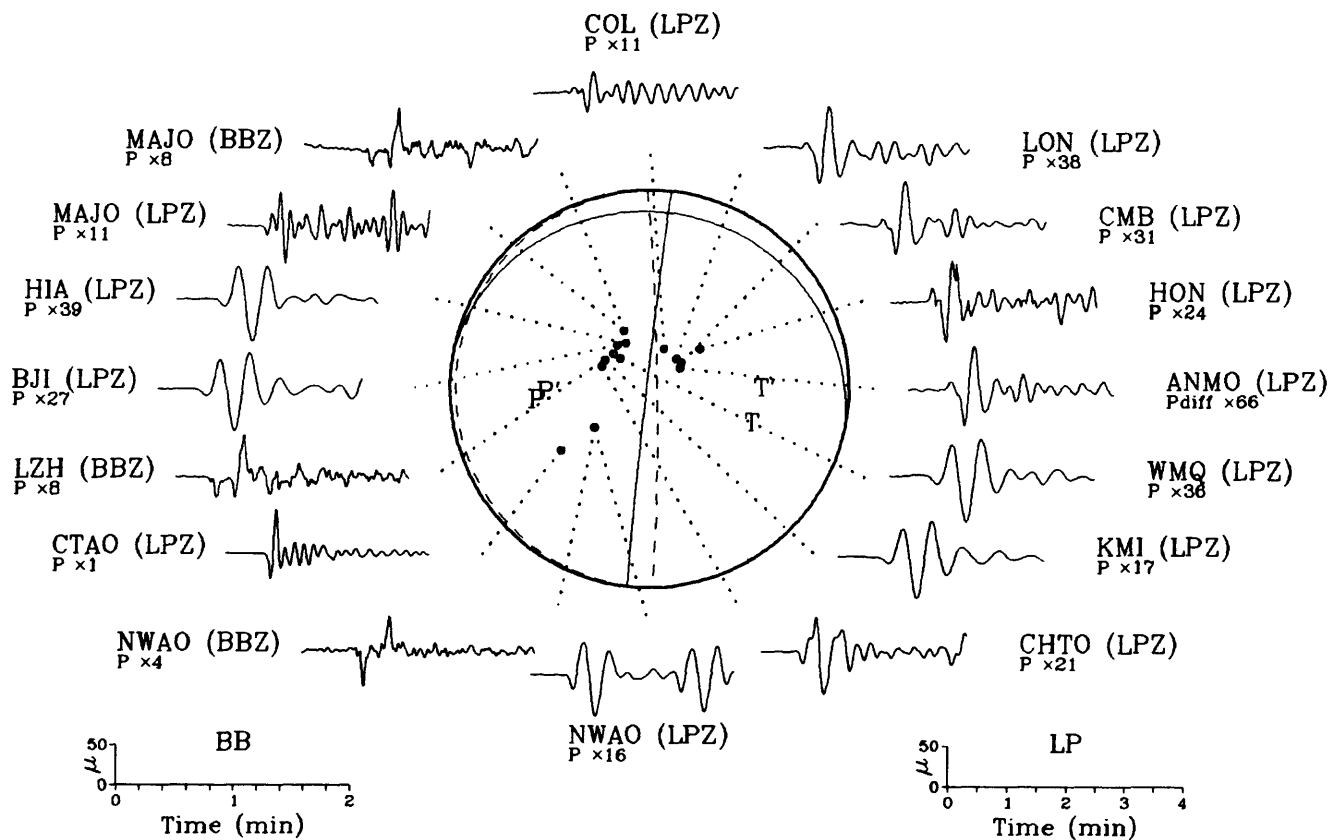
10 February 1989 11:15:24.68

Molucca Passage



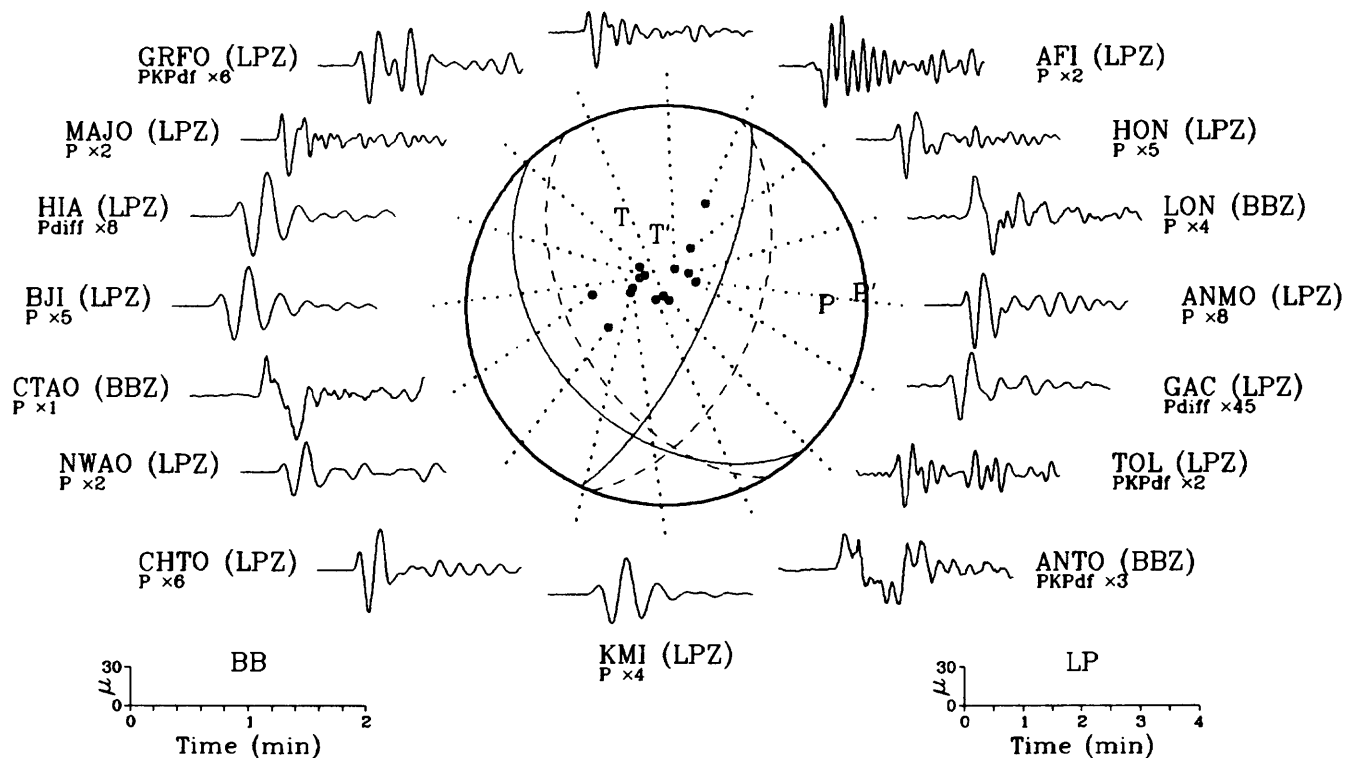
14 February 1989 06:20:21.33

Solomon Islands



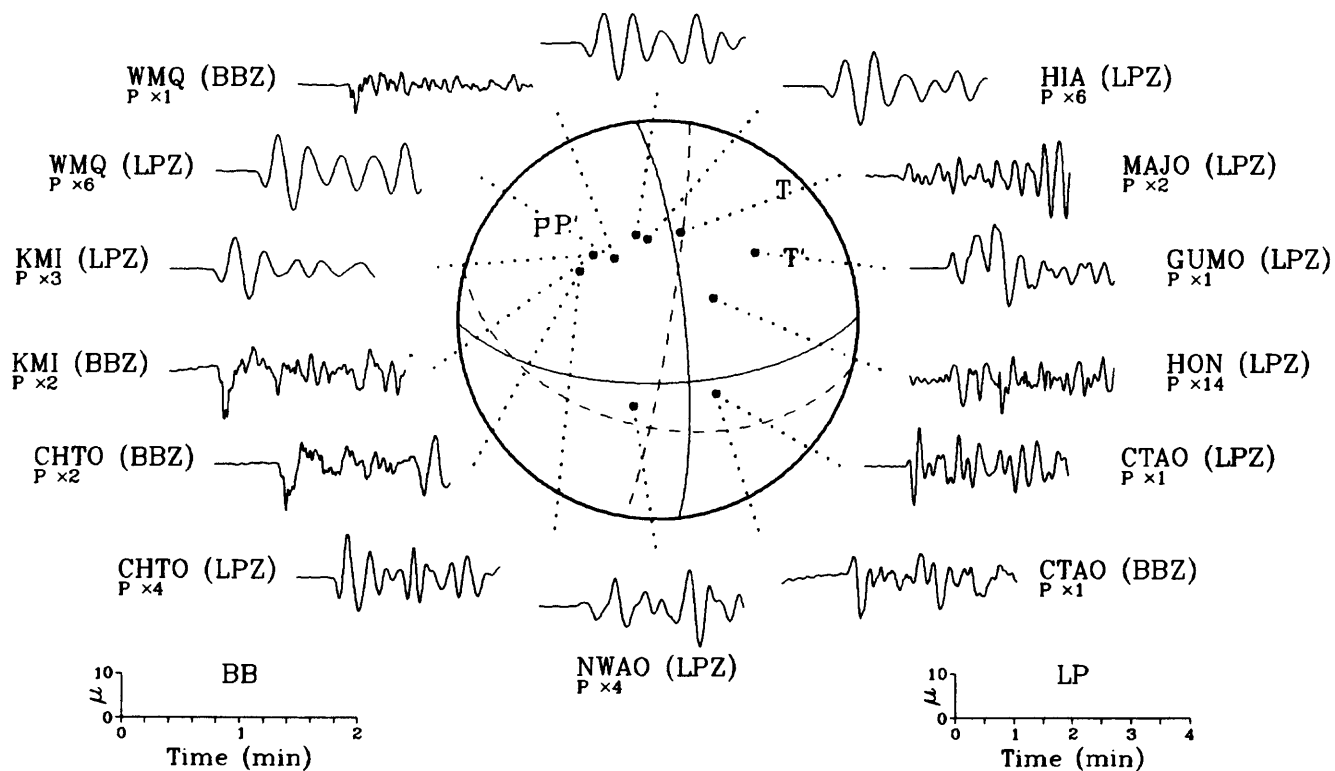
25 February 1989 11:26:35.47
Kermadec Islands

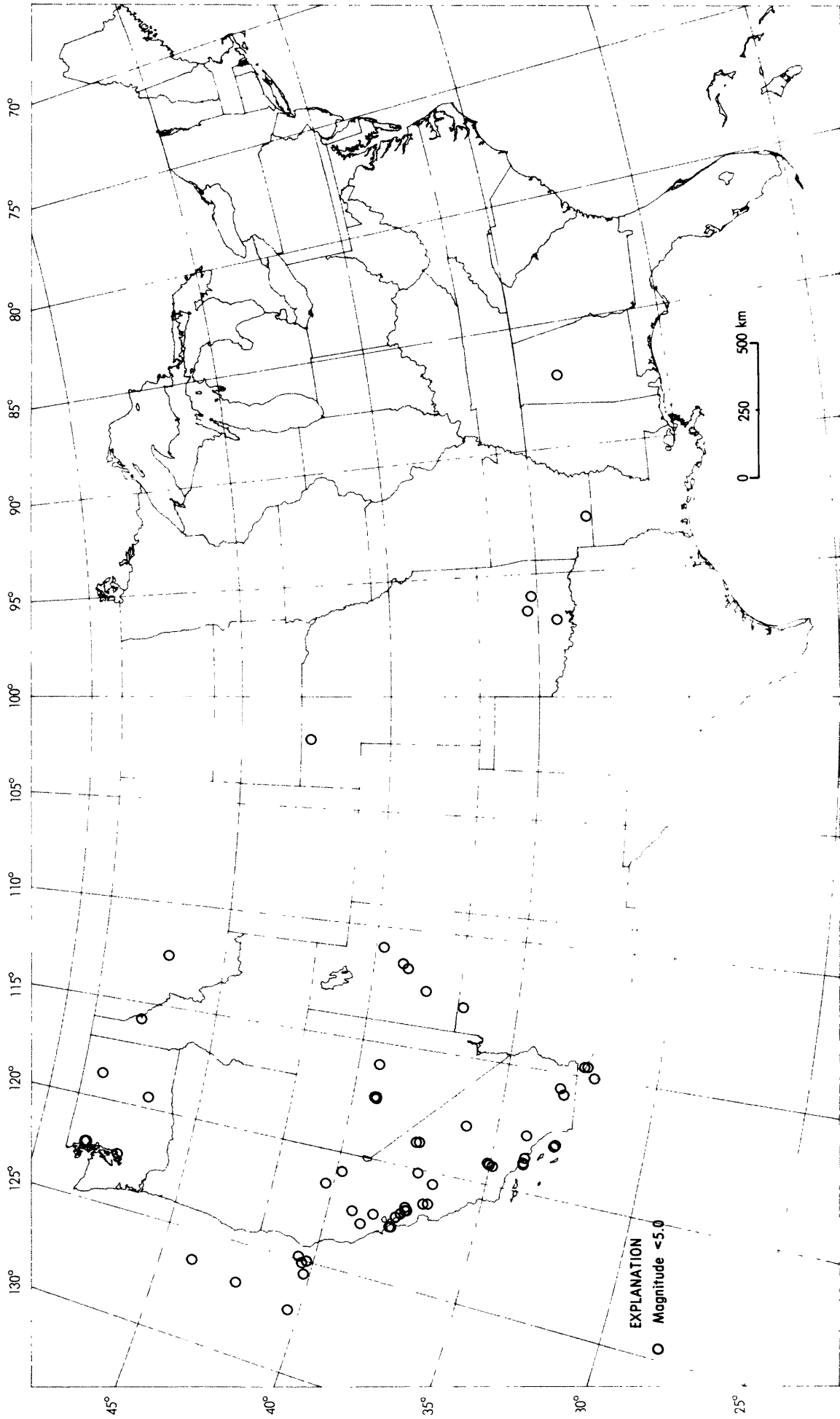
COL (LPZ)
Pd_{diff} ×5



27 February 1989 23:39:10.82
Halmahera

BJI (LPZ)
P ×5





Earthquake epicenters in the conterminous United States and adjacent regions for February, 1989 (C. Stover).



PRELIMINARY DETERMINATION OF EPICENTERS

MONTHLY LISTING

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

MARCH 1989

K DAY E Y	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 08 45.7*	2.172 N 127.902 E	33 N	4.9	0.7	9	MOLUCCA PASSAGE
01	00 17 30.1?	37.77 N 29.17 E	10 G		0.4	4	TURKEY
01	01 32 46.9?	10.12 S 41.31 E	10 G	3.9	1.0	6	NORTHWEST OF MADAGASCAR
01	01 41 59.0*	9.799 S 112.553 E	50 ?	4.6	1.4	9	SOUTH OF JAVA
01	02 02 26.5?	10.00 N 121.81 E	33 N	4.5	1.4	7	PANAY, PHILIPPINE ISLANDS
o 01	02 42 03.5	43.972 N 148.968 E	47 D	5.7 5.8	1.0	344	KURIL ISLANDS REGION. Mo=6+10+17 Nm (PPT). Felt (III) at Kuriisk. Felt (I JMA) at Nemuro, Hokkaido.
01	02 42 07.7%	37.705 N 29.186 E	10 G		1.1	10	TURKEY
01	02 52 39.6?	44.47 N 148.56 E	33 N	4.4	1.4	6	KURIL ISLANDS
o 01	03 25 05.3	21.754 N 97.941 E	16 D	5.2 5.4	1.1	158	BURMA. Felt at Chiang Mai, Muang Phayao and Chiang Rai, Thailand.
01	03 39 23.7%	35.847 N 140.395 E	33 N		0.6	7	NEAR EAST COAST OF HONSHU, JAPAN
01	04 07 51.8?	17.92 N 61.19 W	22 *		1.0	9	LEEWARD ISLANDS. ML 3.5 (FDF).
o 01	04 26 27.0	5.012 S 149.799 E	10 G	5.2 5.5	1.0	50	NEW BRITAIN REGION. ML 5.5 (PMG).
01	04 45 50.3*	32.278 S 69.116 W	24 *		1.1	8	MENDOZA PROVINCE, ARGENTINA
01	04 58 56.8?	37.62 N 142.58 E	33 N		0.6	5	OFF EAST COAST OF HONSHU, JAPAN
01	04 59 55.9?	37.72 N 142.30 E	33 N		0.2	5	OFF EAST COAST OF HONSHU, JAPAN
01	05 04 49.7?	46.46 N 3.46 E	10 G		0.3	4	FRANCE. ML 1.4 (LDG).
01	05 18 23.7	35.580 N 11.707 E	17	4.4	1.1	42	TUNISIA
01	05 48 17.7%	37.635 N 141.776 E	33 N		0.1	5	NEAR EAST COAST OF HONSHU, JAPAN
01	07 15 35.2?	18.35 N 61.36 W	33 N		0.9	15	LEEWARD ISLANDS. ML 3.8 (FDF).
01	08 56 20.5	41.326 N 141.809 E	115	4.0	1.2	17	HOKKAIDO, JAPAN REGION
01	09 12 53.7?	23.07 S 171.26 E	33 N	3.9	1.5	15	LOYALTY ISLANDS REGION
01	09 28 52.9	21.620 N 97.787 E	10 G	4.6	1.3	12	BURMA
01	09 59 21.1	37.080 N 20.453 E	49 *	4.0	0.9	34	IONIAN SEA. MD 3.7 (ATH).
01	10 50 50.2%	60.656 N 6.269 E	10 G		0.8	7	SOUTHERN NORWAY. MD 1.9 (BER).
01	12 41 47.7	44.385 N 7.317 E	10 G		0.5	7	NORTHERN ITALY. ML 2.2 (GEN).
01	12 45 33.8%	60.272 N 5.260 E	10 G		0.3	5	SOUTHERN NORWAY. MD 1.3 (BER).
01	13 00 35.5	31.489 N 102.463 E	33 N	5.0 4.9	1.2	53	SICHUAN PROVINCE, CHINA
o 01	13 08 19.7	43.820 N 149.162 E	43 D	5.4 5.2	1.0	145	KURIL ISLANDS REGION
01	13 31 22.1*	4.372 S 80.564 W	33 N	4.8	1.3	16	PERU-ECUADOR BORDER REGION
01	14 13 02.1%	60.037 N 153.423 W	141			26	SOUTHERN ALASKA. <AGS-P>.
01	17 21 11.0	43.845 N 149.120 E	57 D	5.0	1.2	81	KURIL ISLANDS REGION
01	18 04 17.8	23.014 S 66.141 W	245 *	3.9	1.2	21	JUJUY PROVINCE, ARGENTINA
01	18 05 08.2	44.795 N 7.847 E	14		0.8	38	NORTHERN ITALY. ML 2.9 (LDG), 2.8 (GEN).
01	18 10 52.6	44.419 N 6.739 E	10 G		0.5	11	FRANCE. ML 2.2 (LDG), 2.2 (GEN).
01	19 01 28.6*	27.655 S 66.081 E	10 G	4.8	0.9	24	SOUTH INDIAN OCEAN
01	19 11 58.8	31.575 N 49.457 E	47 *	4.5	1.3	42	WESTERN IRAN
01	19 25 40.0*	25.414 N 124.956 E	120 *	4.3	0.9	17	NORTHEAST OF TAIWAN
01	22 48 18.4	36.368 N 70.697 E	193 *	4.2	0.9	23	HINDU KUSH REGION
01	22 52 49.5*	28.191 N 83.954 E	33 N	4.2	1.3	7	NEPAL
02	00 05 09.1%	45.681 N 3.718 E	10 G		0.9	11	FRANCE. ML 2.6 (LDG).
02	00 26 17.2%	60.171 N 152.948 W	118			18	SOUTHERN ALASKA. <AGS-P>.
02	01 19 24.4%	62.309 N 151.896 W	104			18	CENTRAL ALASKA. <AGS-P>.
02	01 21 45.0?	35.50 N 24.39 E	10 G		0.9	4	CRETE. MD 3.6 (ATH).
02	02 17 00.5	37.240 N 21.368 E	10 G	4.3	1.2	45	SOUTHERN GREECE. ML 3.7 (ATH). Felt in the Kiparissia area
02	02 52 12.1?	35.56 N 0.74 E	10 G		0.5	8	ALGERIA. MG 3.3 (MDD).
02	03 08 28.4*	12.063 N 141.839 E	33 N	4.9	0.4	14	SOUTH OF MARIANA ISLANDS
02	04 06 27.4*	13.735 N 61.474 W	33 N		0.4	6	WINDWARD ISLANDS
02	05 15 04.5	50.946 N 176.044 E	33 N	5.0	1.0	125	RAT ISLANDS, ALEUTIAN ISLANDS
02	05 54 18.1	41.138 N 19.883 E	10 G		1.1	15	ALBANIA. ML 2.8 (SKO). MD 2.5 (TTG).
02	06 39 28.3?	35.24 N 45.54 E	33 N		1.0	7	IRAN-IRAQ BORDER REGION
o 02	07 13 46.1	18.383 N 68.659 W	134	5.6	1.0	449	MONA PASSAGE. Felt (V) in western Puerto Rico. Also felt (IV) in central and (III) in eastern Puerto Rico. Felt in southeastern Dominican Republic.
02	07 18 15.8	9.677 N 84.150 W	33 N		1.3	17	COSTA RICA. MD 4.3 (HDC). Felt (V) at San Marcos de Tarrazu; (IV) at Corralillas; (III) at San Jose.

02	09 24 33.1*	35.084 N	46.315 E	32	4.3	1.3	15	IRAN-IRAQ BORDER REGION
02	11 32 54.8	4.246 S	78.121 W	41 D	4.9	1.1	45	PERU-ECUADOR BORDER REGION
02	11 56 49.4*	26.648 S	66.468 W	204 *		1.3	13	CATAMARCA PROVINCE, ARGENTINA
02	12 10 54.9*	24.066 S	66.815 W	203 *		1.3	10	SALTA PROVINCE, ARGENTINA
02	12 35 46.7*	12.842 N	141.492 E	33 N	4.5	0.4	7	SOUTH OF MARIANA ISLANDS
02	12 38 14.4*	44.68 N	148.39 E	33 N	3.8	1.3	11	KURIL ISLANDS
02	12 58 55.7*	44.52 N	148.81 E	33 N	4.7	0.5	11	KURIL ISLANDS
02	13 02 07.1*	44.316 N	148.980 E	33 N	4.6	0.9	20	KURIL ISLANDS
02	13 21 28.3*	60.000 N	153.519 W	137		3.3	33	SOUTHERN ALASKA. <AGS-P>.
02	13 26 50.1*	31.705 S	117.050 E	10 G		0.4	5	WESTERN AUSTRALIA
02	13 42 17.7	41.003 N	20.200 E	10 G		1.5	11	ALBANIA. ML 2.8 (SKO).
02	14 03 11.4	40.985 N	20.150 E	10 G		1.3	28	GREECE-ALBANIA BORDER REGION. ML 3.3 (SKO), 3.1 (TTG). MD 3.5 (ATH).
02	14 10 28.5	0.593 S	77.514 W	42 *	5.0	1.0	78	ECUADOR. Felt (V) at Loreto and (III) at Quito. Felt in much of northeastern Ecuador. Felt in Narino and Putumayo Departments, Colombia.
02	14 25 40.2	30.913 N	132.497 E	24	4.2	1.1	16	SOUTHEAST OF SHIKOKU, JAPAN
02	14 51 44.7	36.566 N	28.835 E	10 G		1.1	12	DODECANESE ISLANDS. MD 3.7 (ATH).
02	14 57 45.5*	43.423 N	5.432 E	10 G		0.6	12	NEAR SOUTH COAST OF FRANCE. MD 2.6 (STR).
02	16 33 12.0	44.524 N	7.070 E	10 G		0.4	20	NORTHERN ITALY. ML 3.0 (LDG), 2.7 (GEN).
02	16 55 24.0*	21.610 N	97.760 E	33 N		0.8	8	BURMA
02	17 41 22.9*	13.47 N	119.97 E	33 N	4.6	0.7	5	PHILIPPINE ISLANDS REGION
02	17 41 59.2*	59.437 N	152.746 W	76		3.4	34	SOUTHERN ALASKA. <AGS-P>.
02	17 44 52.4*	35.505 N	31.484 E	33 N		1.0	5	CYPRUS
02	17 55 11.5*	34.283 N	30.459 E	10 G		0.8	5	EASTERN MEDITERRANEAN SEA
02	18 31 12.2*	4.93 S	133.59 E	33 N	4.1	1.5	6	WEST IRIAN REGION
02	18 36 49.2	37.072 N	27.966 E	10 G		1.0	21	TURKEY. MD 3.8 (ATH).
02	19 49 05.0*	60.281 N	152.300 W	79		2.5	25	SOUTHERN ALASKA. <AGS-P>.
02	20 04 39.8*	36.760 N	71.100 E	33 N	3.7	1.3	13	AFGHANISTAN-USSR BORDER REGION
02	21 31 12.0*	19.397 S	176.086 E	33 N	4.3	1.5	6	SOUTH OF FIJI ISLANDS
02	21 43 48.0*	35.679 N	26.706 E	10 G		0.6	5	CRETE. MD 3.5 (ATH).
02	22 05 41.7*	47.526 N	115.804 W	0 G		0.5	8	MONTANA. CL 3.2 (BUT). Rockburst near Mullan, Idaho.
02	22 18 03.0*	44.014 N	149.021 E	33 N	5.0 3.8	1.2	42	KURIL ISLANDS
02	23 07 01.0*	21.590 N	97.609 E	33 N		0.9	8	BURMA
02	23 25 58.9*	47.066 N	9.214 E	10 G		1.2	10	GERMANY
03	00 14 57.9	42.284 N	19.971 E	13		0.8	18	YUGOSLAVIA. MD 2.5 (TTG).
03	01 06 56.3*	34.63 N	83.88 E	10 G	4.0	1.2	9	TIBET
03	01 31 07.0	45.005 N	7.378 E	10 G		1.0	16	NORTHERN ITALY. ML 2.8 (LDG), 2.7 (GEN).
03	01 37 22.9*	33.13 S	72.02 W	10 G		0.3	7	OFF COAST OF CENTRAL CHILE
03	01 47 12.4	45.962 N	3.030 E	10 G		1.1	15	FRANCE. ML 2.6 (LDG). MD 2.3 (STR).
03	04 10 39.4*	36.031 N	27.700 E	10 G		0.8	6	DODECANESE ISLANDS
03	04 26 21.9*	37.494 N	2.480 W	10 G		0.3	5	SPAIN. MG 2.7 (MDD).
03	04 50 15.9*	40.168 N	28.871 E	10 G		0.1	6	TURKEY
03	05 16 54.3*	34.09 S	72.33 W	10 G	3.6	0.7	13	NEAR COAST OF CENTRAL CHILE
03	06 44 47.6*	35.07 S	179.59 E	105 ?	5.0	1.5	16	OFF E. COAST OF N. ISLAND, N.Z.
03	07 03 11.1*	34.485 N	128.111 W	10 G	3.8	1.0	30	NORTH PACIFIC OCEAN. ML 4.9 (BRK).
03	07 59 18.6*	39.561 N	27.817 E	10 G		1.2	5	TURKEY
03	09 07 31.5*	30.11 S	121.08 E	10 G		1.2	7	WESTERN AUSTRALIA
03	09 08 07.5*	2.09 N	126.33 E	121 ?	4.2	1.1	11	MOLUCCA PASSAGE
03	09 22 01.9*	28.549 S	124.306 E	10 G		1.1	5	WESTERN AUSTRALIA
03	10 49 01.8*	60.653 N	6.340 E	10 G		0.5	5	SOUTHERN NORWAY. MD 3.2 (BER).
03	12 09 00.9*	39.276 N	27.744 E	10 G		0.4	6	TURKEY
03	13 26 34.4	29.308 S	123.653 E	10 G	4.0	1.5	20	WESTERN AUSTRALIA
03	14 09 02.5*	29.07 S	123.74 E	10 G		0.8	4	WESTERN AUSTRALIA
03	16 20 12.8*	60.643 N	6.265 E	10 G		1.1	5	SOUTHERN NORWAY. MD 1.6 (BER).
03	16 43 14.3*	33.370 N	116.250 W	11		1.2	12	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
03	16 46 16.5*	35.270 N	118.590 W	6 G		2.7	27	CENTRAL CALIFORNIA. <PAS-P>. ML 3.8 (PAS), 3.7 (BRK). Felt (IV) at Bakersfield, Caliente and Keene; (III) at Badfish, Lake Isabella and Tehachapi.
03	17 24 26.8	37.155 N	27.970 E	10 G		1.1	16	TURKEY. MD 3.7 (ATH).
03	17 51 36.7*	40.324 N	28.410 E	10 G		0.2	6	TURKEY
03	18 44 40.4	43.412 N	5.422 E	10 G		1.0	11	NEAR SOUTH COAST OF FRANCE. MD 3.0 (STR).
03	19 07 00.4*	5.74 S	125.45 E	197 ?	4.1	1.5	6	BANDA SEA
03	19 38 03.8*	0.236 S	122.921 E	101 ?	3.6	0.8	9	MINAHASSA PENINSULA
03	20 52 43.5*	17.86 N	68.36 W	10 G		0.4	5	MONA PASSAGE
03	21 20 53.6*	37.832 N	122.595 W	7		1.0	10	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK). Mo=8.8*10**12 Nm (BRK).
03	22 03 07.8*	15.378 N	60.883 W	33 N		1.3	7	LEEWARD ISLANDS. ML 2.5 (FDF).
03	22 14 52.4*	17.11 S	167.38 E	33 N	4.3	1.1	8	VANUATU ISLANDS
03	22 29 49.0	43.716 N	13.363 E	10 G		0.8	22	CENTRAL ITALY. MD 2.9 (TRI). ML 2.7 (KBA).
03	23 00 42.7*	41.012 N	27.121 E	10 G		0.5	8	TURKEY
03	23 13 53.9*	37.245 N	28.707 E	10 G		0.9	6	TURKEY
03	23 25 29.4*	37.329 N	28.758 E	10 G		1.1	5	TURKEY
04	00 44 37.4*	5.73 S	134.08 E	10 G	4.0	1.4	10	AROE ISLANDS REGION
04	00 46 49.3*	15.16 N	61.06 W	10 G		0.3	6	LEEWARD ISLANDS. ML 2.4 (FDF).
04	01 38 04.9*	5.095 S	144.774 E	118 *	4.5	0.8	15	PAPUA NEW GUINEA
04	01 44 49.7*	37.335 N	121.740 W	4		1.1	11	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK).
04	02 41 32.0*	38.212 N	22.031 E	10 G		1.2	5	GREECE. ML 3.0 (ATH).
04	03 15 23.7	44.873 N	17.340 E	13		1.0	40	YUGOSLAVIA. ML 4.0 (ZAG), 3.8 (KBA), 3.7 (VKA).
04	03 59 37.8	44.129 N	6.972 E	10 G		0.7	8	FRANCE. ML 2.0 (LDG).
04	04 06 37.7*	45.067 N	15.134 E	10 G		0.5	9	YUGOSLAVIA. MD 2.7 (TRI).
04	04 10 03.0*	10.62 N	62.44 W	33 N		1.2	5	NEAR COAST OF VENEZUELA
04	05 05 37.7*	8.93 N	126.67 E	33 N	4.7	1.2	7	MINDANAO, PHILIPPINE ISLANDS
04	05 13 37.9*	51.609 N	6.994 E	10 G		0.9	6	GERMANY. MD 2.7 (DOU).
04	05 17 29.9	36.052 N	70.174 E	141 D	4.6	1.0	42	HINDU KUSH REGION. Felt (III) at Dusti and Shaartuz; (II) at Khorog and Kulyab, USSR.
04	05 30 20.5*	15.93 N	60.53 W	33 N		0.2	5	LEEWARD ISLANDS. ML 2.4 (FDF).
04	05 34 16.4*	32.970 N	116.240 W	10		6	6	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.2 (PAS).
04	05 38 21.4*	17.636 N	61.571 W	26		0.9	9	LEEWARD ISLANDS. ML 3.8 (FDF).
04	06 21 44.6*	15.38 S	173.87 W	33 N	4.5	1.5	11	TONGA ISLANDS
04	07 01 35.3*	27.503 S	13.413 W	10 G	5.0 4.6	1.1	29	SOUTH ATLANTIC RIDGE
04	07 32 45.1*	38.815 N	122.808 W	7		1.4	14	NORTHERN CALIFORNIA. <BRK>. ML 3.2 (BRK).
04	07 35 39.0*	38.624 N	27.061 E	10 G		1.5	8	TURKEY

04	07 36 28.2*	27.522 S	13.479 W	10 G	4.8 4.6	1.1	23	SOUTH ATLANTIC RIDGE
04	07 47 36.7*	42.122 N	143.018 E	74 *	3.9	0.6	6	HOKKAIDO, JAPAN REGION. Felt (I JMA) at Urakawa.
04	08 18 20.7*	38.251 N	28.022 E	10 G		1.2	5	TURKEY
04	09 38 34.2*	44.98 N	28.63 E	10 G		1.2	5	ROMANIA
04	10 14 24.9*	40.357 N	124.852 W	5			5	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.0 (BRK).
04	10 24 35.4	40.809 N	28.167 E	10 G		0.5	9	TURKEY
04	11 03 52.5*	39.636 N	29.394 E	10 G		0.6	6	TURKEY
04	12 40 10.3*	10.684 S	41.143 E	10 G	4.3	1.1	17	NORTHWEST OF MADAGASCAR
04	13 03 09.8*	63.24 N	150.88 W	33 N		0.7	4	CENTRAL ALASKA
04	14 45 43.1	7.007 S	125.295 E	529 *	4.5	0.9	20	BANDA SEA
04	15 08 02.2	64.654 N	152.261 W	10 G		0.9	9	CENTRAL ALASKA. ML 3.5 (PMR).
04	17 38 28.2*	32.545 S	71.620 W	33 N		1.2	10	NEAR COAST OF CENTRAL CHILE
04	17 42 20.4	44.621 N	7.176 E	10 G		0.3	15	NORTHERN ITALY. ML 2.2 (GEN), 2.2 (LDG).
04	19 18 07.2*	45.310 N	25.960 E	33 N		1.2	6	ROMANIA
04	19 43 16.2*	50.734 N	99.663 E	10 G	4.7	1.4	12	MONGOLIA
04	19 57 58.5*	47.29 N	151.00 E	33 N	4.5	0.9	20	KURIL ISLANDS
04	21 48 36.5*	61.823 N	150.034 W	43			44	SOUTHERN ALASKA. <AGS-P>. ML 3.6 (PMR). Felt (IV) at Houston and Skwentna; (III) at Anchorage and Palmer.
04	22 25 46.0*	5.816 N	126.220 E	33 N	4.4 4.0	0.9	18	MINDANAO, PHILIPPINE ISLANDS
04	22 27 54.2	54.277 N	169.192 E	10 G	4.8 4.9	1.1	47	KOMANDORSKY ISLANDS REGION
04	23 11 25.8*	37.755 N	29.234 E	10 G		0.6	5	TURKEY
04	23 52 13.7*	34.21 N	135.19 E	10 G		0.7	4	NEAR S. COAST OF SOUTHERN HONSHU. MG 2.5 (JMA). Felt (I JMA) at Wakayama.
04	23 58 18.3*	5.933 S	130.425 E	33 N	4.4	1.1	10	BANDA SEA
05	00 22 25.7	43.722 N	20.480 E	12		1.0	68	YUGOSLAVIA. MD 4.6 (TRI). Felt at Kraljevo, Trstenik, Vrnjacka Banja and Bagutavac.
05	00 40 30.8	35.952 N	112.257 W	5 G		0.7	52	WESTERN ARIZONA. ML 4.0 (NEIS). Felt at Grand Canyon.
05	01 47 30.4*	18.172 N	66.771 W	10 G		0.7	6	PUERTO RICO REGION
05	02 59 06.6	44.622 N	7.020 E	10 G		0.4	7	NORTHERN ITALY. ML 2.0 (GEN), 2.0 (LDG).
05	03 06 35.4*	22.01 S	66.05 W	308 *		1.3	15	JUJUY PROVINCE, ARGENTINA
05	05 30 56.9	29.512 N	130.912 E	51	4.7 4.4	0.9	43	RYUKYU ISLANDS
05	05 36 31.8	39.285 N	21.775 E	10 G		1.0	16	GREECE. MD 3.3 (ATH).
05	06 12 22.2*	61.050 N	149.914 W	47			42	SOUTHERN ALASKA. <AGS-P>. ML 3.6 (PMR).
05	06 41 35.7	14.986 S	167.294 E	122 *	5.1	1.0	97	VANUATU ISLANDS
05	06 42 00.6*	47.813 N	123.357 W	46	4.6		110	WASHINGTON. <SEA>. CL 4.5 (SEA). Felt (V) at Port Ludlow; (IV) at Brinnan, Coupeville, Forks, Hadlock, Oak Harbor and Port Orchard; (III) at Belfair, Bremerton, Chimacum, Freeland, Langley, Port Angeles, Port Gamble, Poulsbo, Quilcene, Seattle, Sequim, Sulton, Suquamish and Tracyton. Also felt in the Sooke-Victoria-Sidney area, British Columbia.
05	06 58 33.5*	4.472 S	143.816 E	137 *	4.8	1.2	19	PAPUA NEW GUINEA
05	07 02 21.4*	44.607 N	7.029 E	10 G		0.2	5	NORTHERN ITALY. ML 2.0 (GEN).
05	07 46 02.4*	24.036 N	122.672 E	10 G		0.9	6	TAIWAN REGION
05	07 55 23.0*	37.35 N	2.17 W	10 G		0.8	4	SPAIN. MG 2.5 (MDD).
05	08 29 41.4*	29.178 S	71.521 W	79 ?		0.8	13	NEAR COAST OF CENTRAL CHILE
05	09 17 56.0	35.967 N	112.279 W	5 G		0.7	49	WESTERN ARIZONA. ML 3.9 (NEIS). Felt at Grand Canyon.
05	09 20 34.9*	6.19 S	130.53 E	167 ?	4.3	1.3	9	BANDA SEA
05	10 57 16.8	44.274 N	147.839 E	95 *	4.9	1.1	98	KURIL ISLANDS. Felt (I JMA) at Nemura, Hokkaido.
05	12 05 50.6*	39.119 N	27.182 E	10 G		0.7	5	TURKEY
05	13 48 41.6	42.511 N	74.629 E	33 N	4.8 4.0	1.2	43	KIRGHIZ SSR. Minor damage (VI) in the epicentral area. Felt (V) at Issykata and Frunze; (IV) at Kant, Tokmak and Shopokov.
05	14 05 32.7*	15.050 N	60.319 W	32		1.2	16	LEEWARD ISLANDS. ML 3.2 (FDF).
05	14 18 18.4	31.173 S	72.315 W	48 *	5.0	1.0	26	OFF COAST OF CENTRAL CHILE
05	14 21 04.6*	41.114 N	28.875 E	10 G		0.5	7	TURKEY
05	15 07 52.5*	37.712 N	29.310 E	10 G		0.6	8	TURKEY
05	15 19 32.5*	4.15 S	129.68 E	147 ?	4.1	1.5	13	BANDA SEA
05	15 51 49.4*	44.618 N	7.037 E	10 G		0.2	8	NORTHERN ITALY. ML 2.2 (GEN).
05	16 44 26.7	39.929 N	19.646 E	18	4.4	1.4	82	GREECE-ALBANIA BORDER REGION. ML 4.2 (ATH). Felt (V) at Borsh, Himare, Lukove and Peqeras; (IV) at Saranda, Vergo and Delvine, Albania.
05	16 49 38.5*	36.293 N	70.478 E	67 ?	3.9	0.7	12	HINDU KUSH REGION
05	17 00 26.3*	60.206 N	153.231 W	147	4.2		40	SOUTHERN ALASKA. <AGS-P>.
05	17 46 21.5*	43.435 N	1.945 W	10 G		1.0	11	PYRENEES. ML 3.2 (LDG).
05	17 57 53.3	11.481 S	112.718 E	33 N	4.8	0.9	26	SOUTH OF JAVA
05	19 06 13.4*	11.575 N	61.587 W	32 *		0.8	7	WINDWARD ISLANDS
05	19 16 26.1*	47.179 N	3.389 W	10 G		0.8	21	FRANCE. ML 3.8 (LDG).
05	20 13 20.6	51.097 N	178.991 W	33 N	5.2 4.5	0.8	164	ANDREANOF ISLANDS, ALEUTIAN IS.
05	20 51 42.8*	43.61 N	0.00 W	10 G		1.6	6	PYRENEES. ML 3.2 (LDG). Felt (IV) at Artix and in the Lacq oilfield area, France.
05	22 29 55.0*	15.748 N	60.234 W	33 N		0.3	8	LEEWARD ISLANDS. ML 2.8 (FDF).
06	00 20 09.1*	32.14 N	69.60 E	33 N	4.7	1.0	8	PAKISTAN
06	00 26 23.1*	51.198 N	179.114 W	33 N	4.7	1.0	53	ANDREANOF ISLANDS, ALEUTIAN IS.
06	00 32 10.2	10.702 S	166.097 E	172 *	5.0	0.9	45	SANTA CRUZ ISLANDS
06	02 13 02.9*	37.356 N	36.406 E	10 G		1.0	7	TURKEY. Felt at Adana-Kadirli.
06	02 47 07.9*	31.82 N	36.48 E	10 G		0.9	7	DEAD SEA REGION
06	03 09 54.0*	48.429 N	122.231 W	2	3.7		50	WASHINGTON. <SEA>. CL 4.2 (SEA). Felt (V) at Clearlake, Mount Vernon and Sedra Wooley; (IV) at Hamilton, La Canner, Lyman and Silvana; (III) at Bow and Lakewood. Also felt in the Sooke-Victoria-Sidney area, British Columbia.
06	03 17 36.6*	52.33 N	158.40 E	33 N	4.4	1.0	12	NEAR EAST COAST OF KAMCHATKA
06	03 45 13.7*	17.12 S	178.71 W	551 *	4.9	0.7	16	FIJI ISLANDS REGION
06	03 59 03.0	44.616 N	7.032 E	10 G		0.3	16	NORTHERN ITALY. ML 2.3 (LDG).
06	04 18 28.5*	16.03 S	172.79 W	33 N	4.5	0.8	13	SAMOA ISLANDS REGION
06	04 53 34.0*	41.045 N	20.234 E	10 G		0.9	5	ALBANIA. ML 2.1 (SKO).
06	06 51 49.1*	41.223 N	113.202 W	7			8	UTAH <SLC-P>. ML 2.8 (SLC). Felt at Wendover.
06	07 24 33.9*	33.06 S	71.54 W	10 G		1.2	8	NEAR COAST OF CENTRAL CHILE
06	07 26 10.1	3.363 S	143.899 E	33 N	5.2 4.8	0.9	61	NEAR N COAST OF PAPUA NEW GUINEA
06	07 41 21.3*	38.646 N	111.778 W	12			13	UTAH. <SLC-P>. ML 3.1 (SLC). Felt (III) at Koosharem and (II) at Glenwood.
06	07 53 59.9*	38.617 N	111.888 W	10 G		1.8	5	UTAH. ML 2.2 (NEIS).

06	07	54	15.8%	39.870 N	28.851 E	10 G	0.4	6	TURKEY	
06	07	57	06.6%	48.422 N	122.224 W	0		14	WASHINGTON. <SEA>. CL 2.0 (SEA). Felt at Mount Vernon.	
06	08	00	01.1%	48.423 N	122.226 W	0		16	WASHINGTON. <SEA>. CL 2.4 (SEA). Felt at Mount Vernon.	
06	09	11	23.4%	65.443 N	149.332 W	10 G	1.9	6	ALASKA. ML 3.0 (PMR).	
06	09	16	07.9%	42.186 S	73.441 W	10 G	4.8	1.0	24	NEAR COAST OF SOUTHERN CHILE
06	09	23	58.2%	38.950 N	142.823 E	33 N	4.5	1.0	13	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Ofunato and (I JMA) at Miyako.
06	10	42	07.5%	5.28 S	103.36 E	40 G	4.5	0.9	8	SOUTHERN SUMATERA
06	11	06	14.9%	43.90 N	127.72 W	10 G		0.4	26	OFF COAST OF OREGON
06	11	44	05.4	3.111 S	80.488 W	39 D	4.7	0.9	32	PERU-ECUADOR BORDER REGION
06	11	46	50.6%	44.395 N	6.410 E	10 G		0.5	10	FRANCE
06	12	28	32.5	43.413 N	5.435 E	10 G		0.9	15	NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).
06	12	37	37.2%	62.386 N	152.249 W	116		6		CENTRAL ALASKA. <AGS-P>.
06	12	39	16.6%	18.22 N	66.94 W	10 G		1.2	5	PUERTO RICO REGION
06	12	40	46.8%	39.103 N	27.620 E	10 G		0.5	5	TURKEY
06	12	56	37.2	43.418 N	5.420 E	10 G		0.9	14	NEAR SOUTH COAST OF FRANCE. MD 2.7 (STR).
06	14	18	58.8%	58.09 N	6.34 E	0 G		1.5	5	SOUTHERN NORWAY. MD 2.4 (BER). Probable explosion.
06	14	38	53.9%	37.805 N	15.074 E	10 G		1.2	9	SICILY
06	14	39	42.6	35.545 N	140.444 E	42 G	5.9 5.6	0.8	427	NEAR EAST COAST OF HONSHU, JAPAN. Ms 5.7 (BRK). Felt (V) at Choshi; (III JMA) at Mito, Tokyo, Yokohama, Tateyama, Onohomo and Utsunamiya; (II JMA) at Kumagayo, Moebashi and Shirakawa. Depth from broadband displacement seismograms.
06	16	43	05.1	35.881 N	33.639 E	10 G		0.5	9	CYPRUS. ML 3.2 (CSS).
06	16	48	40.6%	43.377 N	5.435 E	10 G		1.1	17	NEAR SOUTH COAST OF FRANCE. MD 3.1 (STR).
06	17	24	05.1%	43.725 N	1.527 E	10 G		1.3	7	FRANCE. ML 2.7 (LDG).
06	17	46	22.6%	42.791 N	2.726 W	10 G		0.7	6	SPAIN. MG 3.0 (MDD).
06	18	30	19.4	36.293 N	136.974 E	274	4.6	1.0	70	NEAR WEST COAST OF HONSHU, JAPAN
06	18	54	27.6%	44.784 N	10.379 E	10 G		0.8	5	NORTHERN ITALY
06	19	19	23.7%	52.564 N	168.629 W	33 N	5.0	1.1	23	FOX ISLANDS, ALEUTIAN ISLANDS
06	19	54	36.4	55.595 N	161.708 E	147 ?	4.6	0.4	16	NEAR EAST COAST OF KAMCHATKA
06	20	12	28.8%	5.13 S	145.74 E	159 *	4.5	1.4	8	EAST PAPUA NEW GUINEA REGION
06	20	55	30.6%	45.442 N	15.046 E	10 G		1.0	10	YUGOSLAVIA. MD 2.3 (TRI). ML 2.2 (PTJ).
06	20	57	32.5%	37.92 N	14.20 E	10 G		1.3	4	SICILY
06	21	15	00.9%	3.988 S	130.434 E	33 N	4.3	0.6	6	CERAM
06	21	21	12.7	36.965 N	71.694 E	107 *	4.5	1.5	29	AFGHANISTAN-USSR BORDER REGION. Felt (III) at Khorog, Gorm and Dushanbe.
06	21	38	17.1%	42.090 N	24.454 E	10 G		0.7	5	BULGARIA
06	22	16	47.6%	33.180 N	115.600 W	1	4.4		26	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.3 (PAS), 4.5 (BRK). Felt (IV) at Colipatria, Heber, Imperial, Niland and Seeley; (III) at El Centro, Holtville, Mount Laguna, Palo Verde and Potrero. Also felt (III) at Somerton, Arizona.
06	22	20	38.6%	33.180 N	115.620 W	1			1	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
06	22	22	00.2%	33.160 N	115.620 W	0			1	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
06	22	57	34.2%	33.200 N	115.600 W	0			5	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
06	22	58	32.5%	33.180 N	115.600 W	1			4	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
06	23	11	05.1%	33.190 N	115.590 W	1			4	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
07	00	24	58.1%	33.180 N	115.610 W	3			14	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.1 (PAS). Felt (IV) at Colipatria.
07	00	25	13.6%	37.953 N	29.456 E	10 G		1.4	6	TURKEY
07	01	47	27.5%	33.180 N	115.610 W	2			8	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
07	01	48	42.9	41.724 N	22.281 E	10 G		1.0	7	YUGOSLAVIA. ML 3.1 (SKO). Felt (IV) in the Stip area.
07	02	00	29.3	38.655 N	26.675 E	28	3.8	0.8	42	AEGEAN SEA. ML 3.8 (ATH).
07	04	30	14.8%	30.076 S	177.989 W	61 *	5.0	1.3	25	KERMADEC ISLANDS. Felt (II) on Raoul Island.
07	05	58	53.8	35.830 N	77.675 E	46 *	4.6	1.1	39	EASTERN KASHMIR
07	06	40	10.1%	47.988 N	124.389 W	29			21	NEAR COAST OF WASHINGTON. <SEA>. CL 3.1 (SEA). Felt at Forks.
07	06	41	59.2%	36.493 N	4.433 W	110 ?		0.6	7	STRAIT OF GIBRALTAR. MG 3.2 (MDD).
07	07	30	22.2%	18.18 N	67.17 W	33 N		0.4	5	MONA PASSAGE
07	07	43	44.1%	33.180 N	115.590 W	1			16	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.2 (PAS).
07	07	51	59.6%	36.228 N	78.537 E	33 N		0.6	8	KASHMIR-XINJIANG BORDER REGION
07	08	38	43.5%	17.061 N	99.600 W	33 N		0.2	5	GUERRERO, MEXICO
07	09	22	47.5%	45.97 S	15.69 W	10 G	4.9 4.4	1.5	9	SOUTH ATLANTIC RIDGE
07	11	18	08.0	41.287 N	20.954 E	10 G		0.9	9	ALBANIA. ML 2.8 (SKO).
07	12	24	37.9%	29.456 S	70.701 W	107 *	5.0	0.7	17	CENTRAL CHILE
07	12	43	07.4%	59.490 N	152.844 W	94	4.1		48	SOUTHERN ALASKA. <AGS-P>.
07	13	16	27.5	33.248 N	141.666 E	53 *	4.9	0.8	44	OFF EAST COAST OF HONSHU, JAPAN
07	13	35	56.0%	39.97 N	21.31 E	10 G		1.7	5	GREECE. ML 2.7 (SKO).
07	13	40	45.6%	60.646 N	6.215 E	10 G		0.6	6	SOUTHERN NORWAY. MD 1.7 (BER).
07	13	47	22.1	40.415 N	21.036 E	10 G		1.4	16	GREECE. ML 3.0 (TTG). MD 3.4 (ATH).
07	14	04	28.7%	61.544 N	150.228 W	45			44	SOUTHERN ALASKA. <AGS-P>. ML 3.9 (PMR). Felt (IV) at Anchorage and Goose Bay.
07	15	03	22.1%	37.288 N	121.698 W	2			13	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK).
07	15	55	06.2%	45.04 N	5.45 E	10 G		0.4	5	FRANCE
07	17	07	35.6	40.041 N	15.917 E	10 G		1.2	9	SOUTHERN ITALY
07	17	29	14.8%	38.928 N	29.468 E	10 G		1.2	9	TURKEY
07	18	01	38.4	20.468 S	178.105 W	534	5.1	1.0	81	FIJI ISLANDS REGION
07	19	58	49.2%	8.48 S	38.55 E	10 G	3.5	1.0	5	TANZANIA
07	20	38	36.0	30.133 N	138.419 E	447	4.7	0.8	134	SOUTH OF HONSHU, JAPAN
07	21	01	50.6	45.260 N	6.540 E	10 G		0.8	7	FRANCE
07	21	51	45.2%	26.01 S	179.29 E	550 ?	4.7	0.4	10	SOUTH OF FIJI ISLANDS
07	21	59	42.4	44.524 N	7.281 E	10 G		0.3	13	NORTHERN ITALY. ML 2.2 (LDG).
07	22	08	34.6%	38.70 N	27.93 E	10 G		0.4	4	TURKEY
07	22	54	24.1%	40.397 S	75.510 W	10 G	5.0	1.1	18	OFF COAST OF SOUTHERN CHILE
08	00	15	29.8%	38.987 N	141.962 E	146 *	4.1	1.5	14	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Miyako.
08	00	26	08.1%	35.353 N	4.200 W	10 G		1.3	14	STRAIT OF GIBRALTAR. MG 3.0 (MDD).
a 08	02	34	25.8	0.206 S	124.885 E	35 G	5.8 5.2	1.1	227	MOLUCCA SEA. Depth from broadband displacement seismograms.
08	02	57	05.0%	41.041 N	141.870 E	101 *		0.8	8	HOKKAIDO, JAPAN REGION. MG 3.7 (JMA). Felt (I JMA) at Hachinohe, Honshu.
a 08	03	57	21.5	19.129 S	168.681 E	65	5.2	1.1	150	VANUATU ISLANDS

08	04	27	48.9%	35.033 N	4.315 W	10 G	1 5	5	STRAIT OF GIBRALTAR
08	04	50	34.2*	31.214 N	131.952 E	33 N	0.3	6	KYUSHU, JAPAN
08	05	40	48.7*	38.764 N	21.305 E	30	1.4	11	GREECE. ML 3.5 (ATH).
08	05	48	15.7	4.581 N	125.874 E	101	1.1	109	TALAUD ISLANDS
08	05	56	44.3	40.178 N	19.557 E	18	1.3	89	ALBANIA. ML 4.4 (ATH). Felt (IV) at Palase, Dhermi and Himare; (III) at Vlare.
08	06	02	01.5?	17.67 S	178.61 W	568 *	0.7	22	FIJI ISLANDS REGION
08	06	05	56.0*	36.084 N	70.821 E	139 ?	1.5	11	HINDU KUSH REGION
08	06	49	25.8	36.331 N	27.736 E	96	1.3	141	DODECANESE ISLANDS. MD 4.0 (ATH). Felt on Rodhas.
08	06	54	57.7?	38.25 N	20.35 E	10 G	1.0	12	GREECE. ML 3.7 (ATH).
08	07	21	26.0*	28.001 N	84.028 E	33 N	0.8	6	NEPAL
08	07	25	31.5	51.230 N	179.063 W	33 N	0.8	122	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.2 (PMR). Felt (IV) on Adak.
08	08	07	06.9*	35.253 N	27.196 E	10 G	1.3	5	DODECANESE ISLANDS. MD 3.5 (ATH).
08	08	22	35.2	6.012 S	105.361 E	33 N	1.0	73	SUNDA STRAIT
08	09	01	36.3	43.388 N	5.428 E	10 G	1.1	16	NEAR SOUTH COAST OF FRANCE. MD 3.0 (STR).
08	09	41	02.9%	39.221 N	27.726 E	28 *	0.7	6	TURKEY
08	09	59	21.2?	50.50 N	4.09 E	10 G	1.6	5	BELGIUM. MD 2.9 (UCC).
08	10	09	58.5%	39.112 N	27.602 E	10 G	0.5	6	TURKEY
08	11	00	55.5*	3.113 N	31.273 W	10 G	1.1	33	CENTRAL MID-ATLANTIC RIDGE
08	11	05	19.5%	18.166 N	66.911 W	10 G	1.5	6	PUERTO RICO REGION
08	11	44	32.3	1.031 N	126.189 E	32 G	1.0	307	MOLUCCA PASSAGE. Two hundred thirty-three houses and public buildings damaged and 5,500 people left homeless on Marotai, Indonesia. Sixteen houses damaged and some homeless at Tanawangu, Halmahera. Depth from broadband displacement seismograms.
08	12	43	42.8	40.727 N	74.780 E	33 N	1.0	52	KIRGHIZ-XINJIANG BORDER REGION. Felt (III) at Naryn, USSR.
08	12	55	44.1&	62.298 N	149.423 W	44	26		CENTRAL ALASKA. <AGS-P>.
08	14	35	33.2?	35.90 S	178.65 W	33 N	0.5	8	EAST OF NORTH ISLAND, N.Z.
08	14	35	42.1?	15.61 N	96.90 W	33 N	1.1	5	NEAR COAST OF OAXACA, MEXICO
08	14	56	50.7*	0.035 N	121.767 E	238 ?	0.6	13	MINAHASSA PENINSULA
08	15	36	57.8	51.703 N	175.200 W	60 *	1.0	68	ANDREANOF ISLANDS, ALEUTIAN IS. Felt (IV) on Adak.
08	18	00	32.1%	60.733 N	5.543 E	10 G	0.6	6	SOUTHERN NORWAY. ML 1.5 (BER).
08	18	01	33.2	6.824 S	148.038 E	64	1.0	37	NEW BRITAIN REGION
08	18	39	42.1	3.095 N	31.414 W	10 G	1.1	27	CENTRAL MID-ATLANTIC RIDGE
08	19	25	01.1?	10.66 N	62.63 W	33 N	0.9	5	NEAR COAST OF VENEZUELA
08	19	25	29.2*	27.635 N	66.130 E	33 N	1.3	6	PAKISTAN
08	19	28	16.7%	18.271 N	67.140 W	33 N	0.6	6	MONA PASSAGE
08	20	02	03.8	26.987 N	92.751 E	33 N	0.9	119	EASTERN INDIA. Felt in the Guahati area.
08	21	25	09.4%	11.009 N	61.819 W	33 N	0.6	9	WINDWARD ISLANDS
08	22	34	29.5*	3.563 S	142.005 E	33 N	1.6	6	NEAR N COAST OF PAPUA NEW GUINEA
08	23	43	06.4*	34.107 N	118.513 W	5 G	0.2	6	SOUTHERN CALIFORNIA. ML 3.1 (PAS). Felt at Encino.
08	23	59	31.7&	62.092 N	151.385 W	89	17		CENTRAL ALASKA. <AGS-P>.
09	00	28	31.9	35.232 N	27.656 E	28	1.3	63	DODECANESE ISLANDS. ML 4.4 (ATH).
09	00	53	47.7*	24.846 N	123.754 E	33 N	1.1	8	SOUTHWESTERN RYUKYU ISLANDS
09	01	05	44.3%	39.503 N	27.982 E	10 G	1.3	8	TURKEY
09	01	24	58.2	52.029 N	169.732 W	33 N	0.9	69	FOX ISLANDS, ALEUTIAN ISLANDS
09	01	38	10.7	38.094 N	21.960 E	10 G	1.2	7	GREECE. ML 3.0 (ATH).
09	02	37	00.4	13.710 S	34.381 E	30 G	0.9	321	MALAWI. Felt in most areas of central Malawi, including Lilangwe. Also felt in Niassa Province, Mozambique and at Chipato, Zambia. Depth from broadband displacement seismograms.
09	04	20	22.0	34.713 N	24.007 E	46 *	1.2	48	CRETE. MD 3.9 (ATH).
09	04	54	15.9*	0.230 S	122.812 E	100 *	0.3	15	MINAHASSA PENINSULA
09	05	01	16.5	17.864 N	60.942 W	33 N	0.8	19	LEEWARD ISLANDS. ML 4.0 (FDF).
09	05	12	16.0*	55.891 S	27.113 W	33 N	0.6	7	SOUTH SANDWICH ISLANDS REGION
09	06	18	48.5*	17.773 N	60.943 W	21	0.3	11	LEEWARD ISLANDS. ML 3.7 (FDF).
09	08	06	59.9%	39.160 N	27.583 E	10 G	0.6	5	TURKEY
09	09	41	32.4&	47.700 N	69.890 W	18 G	15		GASPE PENINSULA. <OTT-P>. mblg 4.3 (OTT). Felt at La Malbaie and Baie St. Paul.
09	10	10	37.8	17.225 N	99.749 W	53	1.1	35	GUERRERO, MEXICO. Felt (IV) at Acapulco.
09	11	31	44.1%	45.060 N	7.180 E	10 G	1.3	6	NORTHERN ITALY
09	12	38	26.8&	61.440 N	149.639 W	56	41		SOUTHERN ALASKA. <AGS-P>. Felt (III) at Eagle River and Palmer.
09	13	02	09.2	40.503 N	27.134 E	10 G	1.1	9	TURKEY
09	14	05	00.0&	37.143 N	116.067 W	0	132		SOUTHERN NEVADA. <DOE>. ML 4.8 (BRK). 37' 08' 34.20" N., 116' 04' 00.99" W., Surface Elev. 1307 m., Depth of Burial 500 m., Shot Time 140500.086, "INGOT," Nevada Test Site (Dept. of Energy).
09	14	18	32.9%	40.422 N	28.920 E	10 G	0.9	6	TURKEY
09	14	49	08.0&	37.143 N	116.067 W	0	11		SOUTHERN NEVADA. <SPEC>. ML 3.7 (BRK). NTS Collapse. Held to "INGOT" location.
09	15	32	25.7?	13.65 S	34.41 E	10 G	1.5	6	MALAWI. MG 3.5 (BUL).
09	16	00	42.0%	42.762 N	19.062 E	10 G	0.1	5	YUGOSLAVIA. MD 2.0 (TTG).
09	16	21	32.3&	37.258 N	121.675 W	5	20		CENTRAL CALIFORNIA. <BRK>. ML 3.6 (BRK). Mo=2.3*10**14 Nm (BRK). Felt at San Jose.
09	17	10	11.1?	1.94 N	126.10 E	33 N	0.8	8	MOLUCCA PASSAGE
09	17	24	13.1?	43.22 N	7.09 E	10 G	0.1	4	NEAR SOUTH COAST OF FRANCE. ML 2.1 (LDG).
09	17	44	55.6%	40.728 N	29.949 E	10 G	0.9	6	TURKEY
09	17	49	46.2&	59.721 N	152.795 W	87	32		SOUTHERN ALASKA. <AGS-P>.
09	17	53	29.0&	38.990 N	122.847 W	1	12		NORTHERN CALIFORNIA. <BRK>. ML 3.1 (BRK). Felt at Clearlake, Kelseyville, Lakeport and Lucerne.
09	18	57	38.0%	40.787 N	27.895 E	10 G	0.6	5	TURKEY
09	19	01	50.6*	15.201 N	60.887 W	121 ?	0.3	11	LEEWARD ISLANDS
09	19	02	24.7	62.763 N	148.944 W	106 ?	0.5	10	CENTRAL ALASKA
09	21	32	55.4	17.780 N	60.813 W	32	0.5	15	LEEWARD ISLANDS. ML 3.9 (FDF).
09	23	37	09.6	36.318 N	141.037 E	49	1.2	64	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Mito and (I JMA) at Onahama, Shirakawa and Utsunomiya.
10	01	40	25.4&	37.525 N	118.874 W	5	18		CALIFORNIA-NEVADA BORDER REGION. <REN>. ML 3.3 (BRK). 3.2 (PAS). MD 3.4 (REN).
10	01	53	21.1&	37.525 N	118.873 W	4	18		CALIFORNIA-NEVADA BORDER REGION. <REN>. ML 3.2 (BRK). 3.2 (PAS). MD 3.2 (REN).

10	02 06 51.5*	43.267 N	5.690 E	10 G	0.4	10	NEAR SOUTH COAST OF FRANCE. MD 3.1 (STR).
10	03 40 41.4	44.493 N	148.363 E	48 D 4.9	1.0	72	KURIL ISLANDS
10	04 08 39.1	15.971 N	92.544 W	212 4.4	0.6	24	MEXICO-GUATEMALA BORDER REGION
10	04 11 22.4	5.806 S	35.605 W	10 G 5.0 5.0	1.0	58	BRAZIL. Slight damage at Natal. Felt at Joao Camara. Felt in Paraiba State and at Olinda.
10	04 44 09.9	38.034 N	0.740 W	10 G	0.6	10	SPAIN. MG 3.2 (MDD). Felt (IV) in the Tarrevieja area.
10	04 45 54.4	34.423 N	33.002 E	10 G	1.3	7	CYPRUS. ML 3.3 (CSS).
10	05 14 13.5*	36.147 N	140.135 E	48 *	1.2	15	NEAR EAST COAST OF HONSHU, JAPAN. MG 3.9 (JMA). Felt (I JMA) at Mito and Utsunomiya.
a 10	05 19 52.3	17.586 N	101.013 W	44 D 5.3 4.8	1.2	119	NEAR COAST OF GUERRERO, MEXICO. Felt at Ixtapa and Zihuatanejo. Felt (III) at Mexico City.
10	05 33 34.8	12.461 N	87.407 W	88 4.5	1.1	54	NEAR COAST OF NICARAGUA. Felt strongly at Managua.
10	07 48 45.2*	42.462 N	27.665 E	10 G	1.2	6	BULGARIA
10	07 50 53.5*	47.819 N	0.553 W	10 G	1.4	8	FRANCE. ML 2.4 (LDG).
10	08 00 48.7	40.027 N	41.816 E	10 G 4.4 4.4	1.3	28	TURKEY. Ten houses collapsed and 120 damaged in the Erzurum-Kars area.
a 10	09 10 45.3	6.930 S	155.960 E	106 5.2	0.9	112	SOLOMON ISLANDS. Felt (IV) at Arawa and Panguna, Bougainville.
10	09 50 16.8*	39.087 N	27.625 E	10 G	0.1	6	TURKEY
10	09 56 40.8*	46.03 N	7.53 E	10 G	0.4	8	SWITZERLAND
10	10 38 16.0	56.263 N	153.692 W	33 N 4.9 4.5	1.1	63	KODIAK ISLAND REGION
10	11 15 01.1*	37.129 N	22.616 E	10 G	1.4	9	SOUTHERN GREECE. ML 3.2 (ATH).
10	12 24 04.3*	39.242 N	27.780 E	10 G	0.4	5	TURKEY
10	13 52 23.3	43.561 N	0.605 W	10 G	1.1	22	PYRENEES. ML 3.8 (LDG). Felt (IV) at Maurenx and in the Lacq oilfield area, France.
a 10	14 14 10.2	4.346 S	152.797 E	53 5.6 5.4	0.9	259	NEW BRITAIN REGION. One person killed by a landslide in the Rabaul area. Felt (V) at Rabaul.
10	15 30 25.6*	43.898 N	7.185 E	10 G	0.8	7	NEAR SOUTH COAST OF FRANCE
10	15 51 47.7*	45.18 N	5.84 E	10 G	0.6	7	FRANCE
10	16 12 58.2*	37.96 N	29.04 E	10 G	1.2	4	TURKEY
10	16 24 06.6	45.368 N	23.031 E	33 N	1.1	6	ROMANIA
10	17 37 23.5*	60.174 N	4.668 E	10 G	0.9	7	SOUTHERN NORWAY. ML 1.6 (BER).
10	18 03 41.0*	29.514 N	139.535 E	418 * 4.1	0.3	11	SOUTH OF HONSHU, JAPAN
10	19 27 17.3*	13.71 S	34.54 E	10 G	1.5	5	MALAWI. MG 3.3 (LSZ).
10	19 32 14.9*	37.398 N	20.838 E	45 * 3.7	1.3	20	IONIAN SEA. MD 3.5 (ATH).
10	20 13 56.7*	37.887 N	29.114 E	10 G	1.1	5	TURKEY
10	21 15 01.4*	17.92 N	101.07 W	33 N	0.8	6	NEAR COAST OF GUERRERO, MEXICO
10	21 16 49.0	43.520 N	0.527 W	10 G	1.1	17	PYRENEES. ML 3.5 (LDG). Felt (IV) at Pardies and in the Lacq oilfield area, France.
f 10	21 49 45.8	13.702 S	34.420 E	30 G 6.2 6.1	0.9	448	MALAWI. Ms 6.6 (BRK). At least two people killed, 100 injured and damage in the Salima area, six people killed and damage in the Dedza area and one person killed and damage in the Mahinji area. About 50,000 left homeless in Malawi. Felt strongly in much of central Malawi. Felt in Niassa and Tete Provinces, Mozambique. Also felt in Zambia. Depth from broadband displacement seismograms.
10	22 26 54.3	40.879 N	22.009 E	10 G	0.9	9	GREECE. ML 2.7 (SKO).
10	23 35 58.9	42.888 N	0.455 W	10 G	0.9	25	PYRENEES. ML 3.4 (LDG). Felt (IV) in the Jaca area, Spain. Felt (II) at Arthez d'Asson, France.
11	00 15 47.7*	36.524 N	139.308 E	33 N	1.4	7	HONSHU, JAPAN. Felt (III JMA) at Nikko.
11	00 49 11.8*	60.503 N	152.732 W	115	17	SOUTHERN ALASKA. <AGS-P>.	
11	01 15 21.0	42.915 N	0.408 W	10 G	1.1	13	PYRENEES. ML 3.1 (LDG). Felt at Jaca, Spain.
11	01 20 44.8	44.923 N	11.973 E	19	0.9	20	NORTHERN ITALY. ML 2.6 (KBA).
11	01 40 46.8*	13.11 S	34.79 E	10 G	1.5	6	MALAWI. MG 3.5 (LSZ).
11	02 11 03.4*	40.754 N	15.359 E	10 G	1.2	6	SOUTHERN ITALY
11	02 16 16.4*	24.811 N	141.154 E	220 * 4.1	1.2	20	VOLCANO ISLANDS REGION. Felt (I JMA) at Chichi-shima.
11	04 00 45.8*	59.574 N	152.959 W	94	48	SOUTHERN ALASKA. <AGS-P>. Felt (II) at Homer.	
a 11	04 02 26.8	5.240 S	152.535 E	48 5.5 4.5	0.9	140	NEW BRITAIN REGION
11	04 14 55.3*	36.732 N	139.381 E	33 N	1.1	5	HONSHU, JAPAN. Felt (III JMA) at Nikko.
f 11	05 05 00.6	17.766 S	174.761 W	230 G 6.4	1.3	515	TONGA ISLANDS. mb 6.7 (BRK). Depth from broadband displacement seismograms.
11	05 10 08.5*	60.240 N	152.814 W	117	18	SOUTHERN ALASKA. <AGS-P>.	
11	06 53 33.0*	40.680 N	23.305 E	10 G	1.4	8	GREECE. ML 2.1 (VAY). MD 2.8 (ATH).
11	07 12 16.9	35.839 N	140.482 E	35 D 5.1	1.1	135	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Choshi, Mito, Chiba and Utsunomiya; (II JMA) at Yokohama, Tokyo, Onahama and Kumagaya; (I JMA) at Maebashi and Tateyama.
11	07 15 22.5*	36.13 N	140.31 E	33 N	1.3	5	NEAR EAST COAST OF HONSHU, JAPAN
11	07 30 36.2*	4.815 S	103.123 E	33 N 4.9	0.5	14	SOUTHERN SUMATERA
11	08 10 35.7*	47.040 N	1.119 W	10 G	1.2	9	FRANCE. ML 3.0 (LDG).
11	08 31 52.1*	47.700 N	69.900 W	18 G	17	GASPE PENINSULA. <OTT-P>. mbLg 4.4 (OTT). Felt at La Malbaie.	
11	08 37 42.0	38.045 N	27.517 E	10 G	1.3	12	TURKEY
11	09 27 58.1*	39.239 N	27.798 E	10 G	0.9	8	TURKEY
11	10 57 34.9	43.483 N	0.521 W	10 G	0.6	14	PYRENEES. ML 3.6 (LDG).
11	11 43 40.4*	33.903 N	118.335 W	5 G	0.7	5	SOUTHERN CALIFORNIA. ML 2.7 (PAS). Felt at Inglewood.
11	12 21 45.1	37.870 N	116.015 W	5 G	0.4	25	SOUTHERN NEVADA. ML 2.8 (NEIS).
11	14 38 50.4*	60.998 N	152.893 W	1	37	SOUTHERN ALASKA. <AGS-P>. ML 3.1 (PMR).	
11	14 54 28.8*	40.162 N	29.328 E	10 G	1.1	5	TURKEY
11	16 31 19.8	36.706 N	27.348 E	10 G	1.4	12	DODECANESE ISLANDS. MD 3.6 (ATH).
11	16 50 20.2	37.069 N	27.704 E	10 G	1.5	21	TURKEY. MD 3.8 (ATH).
11	17 02 43.5*	44.629 N	7.083 E	10 G	0.2	5	NORTHERN ITALY. ML 2.3 (GEN).
11	17 42 56.1*	36.193 N	28.020 E	10 G	1.2	6	DODECANESE ISLANDS. MD 3.2 (ATH).
11	18 37 34.4	15.891 N	60.693 W	24	0.3	14	LEEWARD ISLANDS. ML 3.1 (FDF).
11	18 42 48.1	45.671 N	6.732 E	10 G	1.3	64	FRANCE. ML 3.5 (LDG), 3.4 (GEN).
11	18 46 47.2	6.730 S	129.729 E	148 5.1	1.0	66	BANDA SEA
a 11	19 31 24.6	17.784 N	60.925 W	33 4.8 4.6	0.9	69	LEEWARD ISLANDS. ML 4.7 (FDF).
11	20 14 47.9*	18.360 N	64.603 W	33 N	0.7	10	VIRGIN ISLANDS
11	21 05 44.3	41.815 N	15.449 E	10 G	0.7	25	SOUTHERN ITALY. ML 3.9 (ROM).
11	21 24 03.2	48.044 N	7.800 E	10 G	0.9	16	FRANCE. ML 3.1 (LDG).
11	22 03 06.6*	17.94 N	60.82 W	33 N	0.6	9	LEEWARD ISLANDS. ML 3.6 (FDF).
11	23 54 59.6*	41.44 N	19.02 E	10 G	0.7	5	ALBANIA. MD 2.2 (TTG).

12	00 41 53.0?	60.92 N	4.72 E	10 G	1.0	4	SOUTHERN NORWAY. MD 1.8 (BER).
12	00 51 33.6?	4.82 S	130.40 E	74 ? 4.4	1.2	9	BANDA SEA
12	01 41 04.5?	13.40 S	33.81 E	10 G	1.6	5	MALAWI. MG 3.2 (LSZ).
12	02 22 14.0	38.338 N	141.884 E	62 4.8	1.1	36	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Ofunato and (I JMA) at Ishinomaki.
12	02 53 12.9	13.303 S	33.820 E	33 N 4.4	1.0	13	MALAWI. MG 3.8 (LSZ).
12	06 25 30.6&	60.552 N	153.140 W	165	12	12	SOUTHERN ALASKA. <AGS-P>.
12	06 30 18.6	36.994 N	112.881 W	5 G	0.6	23	WESTERN ARIZONA. ML 3.1 (NEIS). Felt (IV) at Springdale, Utah; (III) at Rockville, Utah; (II) at Colorado City, Arizona.
12	06 44 36.6	40.450 N	21.027 E	10 G	1.5	11	GREECE. MD 3.2 (ATH). ML 2.8 (SKO).
12	06 50 31.8*	55.791 N	159.001 W	33 N 4.4	1.0	18	ALASKA PENINSULA
o 12	06 58 06.0	2.424 N	126.761 E	54 * 5.2 4.3	1.2	111	MOLUCCA PASSAGE
12	07 15 11.0?	58.50 N	10.60 E	10 G	0.8	6	SWEDEN. ML 2.4 (BER).
12	07 25 32.4?	59.77 N	11.80 E	10 G	0.0	4	SOUTHERN NORWAY. MD 2.3 (BER).
o 12	07 28 24.3	29.441 S	177.994 W	54 D 5.2	1.3	43	KERMADEC ISLANDS
12	09 54 14.5&	33.190 N	115.590 W	1	1.0	3	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
12	12 37 12.6%	39.249 N	27.754 E	10 G	0.9	6	TURKEY
12	12 45 33.5	41.485 N	138.730 E	247 * 4.3	0.7	24	EASTERN SEA OF JAPAN
12	14 06 56.8&	60.084 N	152.882 W	121 4.4	0.9	54	SOUTHERN ALASKA. <AGS-P>. Felt (III) at Homer.
12	14 32 19.7	14.355 S	167.180 E	163 * 4.8	1.1	81	VANUATU ISLANDS
12	17 10 46.3*	18.572 S	179.498 W	631 * 5.1	1.2	65	FIJI ISLANDS REGION
12	17 34 35.1*	51.391 N	15.911 E	10 G	0.9	7	POLAND
12	18 27 17.1&	59.723 N	153.819 W	142	12	12	SOUTHERN ALASKA. <AGS-P>.
12	19 17 49.7	43.702 N	10.427 E	10 G	0.6	14	CENTRAL ITALY. ML 2.7 (LDG).
13	00 48 08.4	41.684 N	22.274 E	10 G	0.7	6	YUGOSLAVIA. MD 2.9 (ATH). ML 3.0 (VAY), 2.6 (SKO).
13	00 51 46.5	44.560 N	6.871 E	10 G	0.3	25	FRANCE. ML 2.6 (LDG), 2.4 (GEN).
13	01 37 36.1*	26.103 N	125.155 E	170 ? 4.2	0.7	11	NORTHEAST OF TAIWAN
13	01 59 56.9&	56.961 N	143.421 W	10 G 4.2	1.1	71	GULF OF ALASKA. <AGS-P>. ML 4.6 (PMR).
13	03 17 54.1?	19.68 S	177.22 W	353 * 4.7	1.0	16	FIJI ISLANDS REGION
13	03 18 13.0%	61.345 N	8.044 E	10 G	1.1	7	SOUTHERN NORWAY. MD 2.2 (BER).
13	03 25 23.2*	16.942 N	99.072 W	58 * 4.4 3.6	1.1	21	NEAR COAST OF GUERRERO, MEXICO
13	03 30 02.0&	60.967 N	147.290 W	25	1.3	31	SOUTHERN ALASKA. <AGS-P>.
o 13	03 36 38.6	23.029 N	120.638 E	10 G	0.9	9	TAIWAN
13	03 37 47.1	25.791 S	176.912 W	71 D 5.1	0.9	33	SOUTH OF FIJI ISLANDS
13	03 46 03.9&	60.639 N	148.244 W	20	40	40	KENAI PENINSULA, ALASKA. <AGS-P>. ML 3.3 (PMR).
13	04 08 39.4	17.058 N	98.919 W	29 * 4.8	1.4	47	GUERRERO, MEXICO. Felt (IV) at Acapulco.
13	04 23 57.2	34.035 N	137.095 E	345 4.7	1.0	107	NEAR S. COAST OF HONSHU, JAPAN
13	04 59 37.8&	57.175 N	142.948 W	10 G	38	38	GULF OF ALASKA. <AGS-P>. ML 3.6 (PMR).
13	05 41 07.8	29.750 N	43.044 W	10 G 4.8 4.3	0.9	37	NORTH ATLANTIC RIDGE
13	05 47 43.4*	3.246 S	129.309 E	94 ? 4.3	1.1	11	CERAM
13	05 56 34.3?	35.64 N	26.72 E	10 G	0.6	4	CRETE. MD 3.1 (ATH).
13	06 25 33.4*	5.132 S	151.370 E	144 * 4.7	1.1	16	NEW BRITAIN REGION
13	07 37 23.8	27.986 N	55.281 E	71 * 4.5	1.0	22	SOUTHERN IRAN
13	09 26 37.2*	17.462 S	174.752 W	206 D 4.7	1.2	43	TONGA ISLANDS
13	09 36 40.6?	9.93 S	123.47 E	33 N	1.2	8	TIMOR
13	09 41 11.7	14.190 N	92.064 W	45 4.8 3.6	1.2	55	NEAR COAST OF CHIAPAS, MEXICO. Felt in Guatemala and southern Mexico.
13	09 57 36.8	38.110 N	29.105 E	10 G	1.0	37	TURKEY. MD 3.9 (ATH).
13	10 16 15.5*	3.865 S	128.986 E	33 N 4.9	1.0	13	CERAM
13	10 35 32.8?	42.92 N	18.38 E	10 G	0.8	4	YUGOSLAVIA. MD 2.2 (TTG).
13	12 37 54.7	35.585 N	139.601 E	33 N	0.8	8	NEAR S. COAST OF HONSHU, JAPAN. MG 3.3 (JMA). Felt (I JMA) at Tokyo and Yokohama.
13	13 02 14.7	50.711 N	9.896 E	1 G 5.4 4.7	1.3	324	GERMANY. ML 5.8 (ZUR), 5.7 (GRF), 5.6 (BNS), 5.5 (LDG). Rockburst triggered by blasting at the Ernst Thaelmann Mine near Merkers. Three people injured and 80 percent of buildings damaged in the Voelkershausen area. Felt in large parts of Germany, as far west as Köln and Düsseldorf. Also felt in France, Czechoslovakia, Switzerland and Austria.
13	13 06 46.6	22.598 N	91.967 E	33 N 4.1	0.9	15	BANGLADESH
13	14 21 26.6%	60.659 N	6.303 E	10 G	1.1	5	SOUTHERN NORWAY. MD 1.6 (BER).
13	14 42 33.3*	20.756 S	177.255 W	495 * 5.1	1.1	31	FIJI ISLANDS REGION
13	16 35 27.1?	5.72 S	146.05 E	116 ? 4.1	1.3	6	EAST PAPUA NEW GUINEA REGION
13	16 47 48.1?	39.60 N	19.76 E	12	1.4	10	GREECE-ALBANIA BORDER REGION
13	17 30 11.8	41.121 N	23.968 E	10 G	1.1	40	GREECE-BULGARIA BORDER REGION. MD 3.7 (ATH). ML 3.6 (SKO).
13	18 33 49.9	42.054 N	19.223 E	10 G	1.1	11	YUGOSLAVIA. MD 2.4 (TTG).
13	19 14 24.2	43.211 N	11.017 E	10 G	0.4	10	CENTRAL ITALY. MD 2.8 (FIR).
13	19 20 14.2	45.354 N	6.416 E	10 G	0.8	30	FRANCE. ML 3.1 (LDG), 2.6 (GEN).
13	20 12 35.6%	38.056 N	29.154 E	10 G	1.0	11	TURKEY
13	20 22 10.9&	31.620 N	115.760 W	6 G	3	3	BAJA CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
13	21 39 51.3*	16.129 S	179.145 W	322 ? 4.8	1.2	97	FIJI ISLANDS REGION
13	22 05 17.3	0.617 N	127.408 E	139 5.0	1.0	52	HALMAHERA
13	22 51 39.6&	59.740 N	153.376 W	124	22	22	SOUTHERN ALASKA. <AGS-P>.
13	23 01 49.3*	34.305 N	26.584 E	33 N	0.6	7	CRETE. MD 3.5 (ATH).
13	23 31 05.9*	2.952 N	126.530 E	82 ? 4.9	1.2	24	MOLUCCA PASSAGE
14	00 04 03.5*	9.649 S	120.574 E	33 N	0.5	5	SUMBA ISLAND REGION
14	00 57 05.7%	43.320 N	141.699 E	33 N	0.9	5	HOKKAIDO, JAPAN REGION
14	01 22 51.3%	35.627 N	140.243 E	13	1.1	10	NEAR EAST COAST OF HONSHU, JAPAN
14	01 48 55.9	44.255 N	11.737 E	10 G	0.5	8	NORTHERN ITALY
14	02 19 39.2%	40.115 N	29.296 E	22 *	0.9	6	TURKEY
14	02 36 46.6&	40.378 N	125.453 W	9 4.1	52	52	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.9 (BRK).
14	03 27 15.7*	29.909 N	67.638 E	33 N 4.6	1.0	12	PAKISTAN
14	08 19 43.1	41.932 N	19.173 E	10 G	1.0	10	ALBANIA. MD 2.4 (TTG).
14	08 42 05.4*	40.118 N	79.315 E	33 N 4.6	0.6	9	SOUTHERN XINJIANG, CHINA
14	09 11 39.8?	13.01 N	90.29 W	33 N 4.6	1.1	15	NEAR COAST OF GUATEMALA
14	09 43 46.8*	40.901 N	23.402 E	10 G	1.0	7	GREECE. ML 2.2 (SKO).
14	11 08 02.2	35.508 N	23.322 E	54 4.7	1.3	127	CRETE. MD 4.4 (ATH).
14	11 18 39.0%	60.056 N	4.964 E	10 G	0.2	7	SOUTHERN NORWAY. MD 1.9 (BER).
14	11 42 56.9*	32.110 S	71.631 W	33 N 4.9	0.9	17	NEAR COAST OF CENTRAL CHILE
14	12 05 42.5	42.346 N	28.987 E	10 G	0.7	8	BLACK SEA
14	12 19 39.7	44.394 N	8.343 E	10 G	0.9	25	NORTHERN ITALY. ML 2.8 (LDG), 2.5 (GEN).

14	12 43 47.2*	8.198 S	158.508 E	94 *	4.8	1.1	11	SOLOMON ISLANDS
14	13 38 05.3*	8.343 S	118.381 E	33 N	4.4	1.2	13	SUMBAWA ISLAND REGION
14	15 16 12.3*	44.088 N	16.244 E	10 G		1.4	7	YUGOSLAVIA. Felt (IV) at Knin.
14	15 46 42.9	55.387 N	166.286 E	33 N	4.9 4.4	0.7	56	KOMANDORSKY ISLANDS REGION
14	16 48 41.0*	44.192 N	127.480 W	10 G		0.4	25	OFF COAST OF OREGON. CL 3.3 (SEA).
14	17 13 53.6?	17.18 N	94.99 W	33 N		1.1	5	CHIAPAS, MEXICO
14	17 50 57.9?	42.54 N	18.70 E	10 G		0.3	4	YUGOSLAVIA. MD 2.0 (TTG).
14	18 00 39.1	43.326 N	147.014 E	70	4.9	1.1	87	KURIL ISLANDS. Felt (II JMA) at Nemuro, Hokkaido.
14	18 15 11.8	43.388 N	5.447 E	10 G		0.6	11	NEAR SOUTH COAST OF FRANCE. MD 2.7 (STR).
14	18 20 10.7%	60.738 N	5.592 E	10 G		0.6	5	SOUTHERN NORWAY. MD 1.8 (BER).
14	18 27 41.3	32.901 N	132.088 E	57	4.6	1.0	35	SHIKOKU, JAPAN. Felt (I JMA) at Uwajima. Also felt (I JMA) at Oita, Kyushu.
14	19 12 15.4	42.018 N	142.682 E	40	4.7	1.2	54	HOKKAIDO, JAPAN REGION. Felt (II JMA) at Urakawa.
14	19 42 06.5	61.138 N	59.295 W	10 G	4.8	1.0	97	DAVIS STRAIT. ML 5.3 (OTT).
14	21 52 41.9*	35.527 N	140.919 E	29		0.9	9	NEAR EAST COAST OF HONSHU, JAPAN
14	23 32 21.3	8.077 S	37.971 E	10 G		1.3	8	TANZANIA MG 4.3 (LSZ).
14	23 35 29.8*	33.656 S	71.650 W	19 *		0.5	9	NEAR COAST OF CENTRAL CHILE
14	23 54 22.9	26.058 N	128.522 E	33 N	4.7 4.3	1.1	39	RYUKYU ISLANDS
14	23 58 02.8	45.505 N	6.902 E	10 G		1.2	13	FRANCE. ML 2.6 (LDG).
15	01 28 43.0	26.065 N	128.386 E	33 N	5.1	1.2	74	RYUKYU ISLANDS
15	02 08 07.2	43.702 N	12.042 E	10 G		0.9	28	CENTRAL ITALY. MD 3.3 (FIR). ML 3.0 (KBA).
15	02 42 47.4*	7.374 S	107.937 E	33 N	4.4	1.0	11	JAVA
15	02 48 07.5	42.059 N	142.663 E	72	4.8	0.9	48	HOKKAIDO, JAPAN REGION. Felt (II JMA) at Urakawa; (I JMA) at Obihira and Hiroo.
15	03 13 12.4?	15.48 S	173.36 W	86 *	4.3	1.2	15	TONGA ISLANDS
15	04 13 13.2*	35.308 S	179.946 E	89 *	4.9	1.2	33	OFF E. COAST OF N. ISLAND, N.Z.
o 15	04 17 33.4*	30.539 S	178.008 W	57 ?	5.2 4.9	1.5	69	KERMADEC ISLANDS. Ms 5.2 (BRK).
15	05 16 34.3	22.435 S	171.057 E	84 *	5.2	1.1	65	LOYALTY ISLANDS REGION
15	05 22 34.7%	60.112 N	152.920 W	117			27	SOUTHERN ALASKA. <AGS-P>.
15	05 46 02.0	37.441 N	70.995 E	33 N		0.6	10	AFGHANISTAN-USSR BORDER REGION
15	07 42 51.6%	10.587 N	61.115 W	10 G		0.9	7	TRINIDAD. MD 3.6 (TRN).
15	08 56 50.5?	48.53 N	156.20 E	33 N	4.7	1.1	13	KURIL ISLANDS REGION
15	09 42 29.2*	35.726 N	140.039 E	29		0.2	8	NEAR EAST COAST OF HONSHU, JAPAN
15	09 55 27.5%	39.252 N	27.698 E	10 G		0.8	7	TURKEY
15	10 55 08.3*	2.137 N	126.459 E	122 ?	4.4	0.9	16	MOLUCCA PASSAGE
15	13 27 44.8%	35.510 N	116.900 W	8			13	CENTRAL CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
15	13 28 26.1?	60.31 N	5.43 E	10 G		0.5	4	SOUTHERN NORWAY. MD 1.6 (BER).
15	14 10 28.5	49.709 N	7.775 E	10 G		1.0	14	GERMANY. ML 3.0 (LDG). MD 2.7 (UCC).
15	15 31 19.0?	58.15 N	6.24 E	10 G		0.5	5	SOUTHERN NORWAY. MD 2.4 (BER).
15	15 41 58.2%	60.270 N	149.924 W	54			38	KENAI PENINSULA, ALASKA. <AGS-P>.
15	16 31 31.5*	11.137 S	125.517 E	33 N		1.3	6	TIMOR SEA
15	16 37 06.5	9.668 N	122.487 E	50 *	4.9 4.0	1.0	47	NEGROS, PHILIPPINE ISLANDS
15	17 31 53.4	39.675 N	28.792 E	10 G		1.1	11	TURKEY
15	19 26 45.4	31.844 N	50.596 E	70 *	4.6	1.5	39	IRAN. Felt in the Ardan-Dashtak area.
15	19 48 10.2*	2.713 N	127.075 E	33 N	4.5	1.2	16	MOLUCCA PASSAGE
15	20 58 35.5*	45.767 N	11.928 E	10 G		0.7	6	NORTHERN ITALY. ML 2.3 (KBA).
15	21 57 05.4	40.424 N	19.966 E	10 G		1.5	8	ALBANIA. ML 2.4 (SKO).
15	23 34 11.5%	38.405 N	119.408 W	5			18	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.6 (BRK).
15	23 42 08.1%	38.392 N	119.427 W	3			16	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.0 (BRK).
16	00 20 53.7%	32.150 N	115.060 W	6 G			3	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.1 (PAS).
16	01 23 31.7?	18.79 N	61.62 W	10 G		0.3	9	LEEWARD ISLANDS. ML 3.0 (FDF).
16	03 11 47.1	10.395 N	62.166 W	10 G		1.1	16	NEAR COAST OF VENEZUELA. ML 4.2 (FDF). MD 3.7 (TRN).
16	04 17 28.4	60.038 N	69.657 W	10 G	5.2 5.0	0.9	220	NORTHERN QUEBEC
16	04 25 27.0?	44.71 N	6.79 E	10 G		0.3	4	FRANCE. ML 2.0 (GEN).
16	05 44 09.3	2.434 S	140.364 E	33 N	4.7	1.2	23	NEAR N. COAST OF WEST IRIAN
16	06 36 35.2	45.964 N	7.933 E	10 G		0.4	9	NORTHERN ITALY. ML 2.5 (GEN).
a 16	07 23 56.2*	63.328 S	62.446 W	33 N	5.3 4.8	1.4	38	SOUTH SHETLAND ISLANDS
16	08 13 26.5	58.593 N	152.795 W	59 D	5.1	1.0	159	KODIAK ISLAND REGION. Felt (III) at Anchor Point, Hamer and Port Graham.
16	08 35 49.1%	19.000 N	67.431 W	27 *		0.3	6	MONA PASSAGE
16	08 39 06.1*	14.229 S	167.633 E	33 N	4.8	1.3	59	VANUATU ISLANDS
a 16	09 33 57.2	30.270 S	177.986 W	37 G	5.7 5.5	1.1	242	KERMADEC ISLANDS. Ms 5.7 (BRK). Ma=1*10*+18 Nm (PPT). Felt (III) on Raoul Island. Depth from broadband displacement seismograms.
16	09 47 49.4	43.401 N	5.428 E	10 G		0.6	13	NEAR SOUTH COAST OF FRANCE. MD 2.9 (STR).
16	10 23 15.2*	15.292 S	173.438 W	33 N	4.8 5.1	1.4	24	TONGA ISLANDS
16	10 28 54.9%	39.220 N	27.811 E	30 *		0.4	6	TURKEY
16	12 00 43.1	8.895 N	93.707 E	33 N	4.9	1.0	40	NICOBAR ISLANDS REGION
16	12 36 06.9%	39.371 N	27.878 E	10 G		0.9	7	TURKEY
16	13 20 16.8*	42.544 N	24.119 E	10 G		1.1	6	BULGARIA
a 16	13 33 37.3	13.673 N	120.815 E	137 D	5.3	1.0	155	MINDORO, PHILIPPINE ISLANDS. Felt (III) at Cubi Point.
a 16	17 12 22.4	16.927 S	65.005 W	44 *	5.1 5.4	1.1	92	BOLIVIA
16	17 33 58.8%	39.289 N	29.336 E	10 G		1.2	9	TURKEY
16	17 40 49.0	45.593 N	14.540 E	10 G		1.1	10	YUGOSLAVIA. MD 2.9 (TRI). ML 2.5 (KBA).
16	18 54 42.5	43.402 N	5.437 E	10 G		0.5	13	NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).
16	19 22 42.8*	51.458 N	15.946 E	10 G		0.6	11	POLAND. ML 3.8 (VKA). 3.4 (KBA).
16	21 45 27.1*	39.440 N	20.258 E	10 G		1.3	9	GREECE-ALBANIA BORDER REGION. MD 3.2 (ATH).
17	00 50 53.2	41.237 N	19.891 E	27	5.1	1.4	204	ALBANIA. ML 4.9 (ATH). 4.6 (TIR). Felt (V) in the Tirana-Elbasan area. Also felt in western Macedonia, Yugoslavia.
17	01 53 49.5	17.846 S	178.773 W	570	5.0	1.0	93	FIJI ISLANDS REGION
a 17	02 21 55.1	27.141 N	127.406 E	87 G	5.8	1.0	384	RYUKYU ISLANDS. Felt (III JMA) at Nago and Naha; (II JMA) at Naze and on Kume-shima. Depth from broadband displacement seismograms.
17	02 52 37.1%	41.211 N	20.027 E	10 G		1.3	7	ALBANIA. ML 2.0 (SKO).
17	03 01 26.5	41.248 N	20.072 E	10 G		0.9	15	ALBANIA. ML 2.7 (SKO). MD 2.7 (TTG).
17	03 18 27.9%	46.968 N	119.721 W	2			31	WASHINGTON. <SEA>. CL 2.7 (SEA).
17	04 02 07.7	35.628 N	80.532 E	34 *	4.8	1.5	28	KASHMIR-TIBET BORDER REGION
17	04 26 12.0%	62.350 N	151.206 W	86			30	CENTRAL ALASKA. <AGS-P>.
17	04 43 17.1	41.207 N	19.986 E	10 G		1.0	12	ALBANIA. ML 2.8 (SKO).
a 17	05 42 54.4	34.662 N	25.450 E	31	4.8 5.2	1.3	255	CRETE. MD 4.9 (ATH).
17	08 28 51.5*	41.637 N	20.314 E	10 G		1.0	5	ALBANIA. MD 2.7 (TTG). ML 2.5 (SKO).
17	09 22 24.8%	39.123 N	27.579 E	10 G		0.6	6	TURKEY

17	09 26 54.27	33.02 S	71.86 W	13 *	0.4	7	NEAR COAST OF CENTRAL CHILE
17	09 52 31.3%	32.838 S	70.572 W	33 N	0.6	8	CHILE-ARGENTINA BORDER REGION
17	11 08 08.6	21.629 N	97.816 E	33 N	4.8 4.2	1.2	28 BURMA
17	11 14 20.07	22.11 N	97.80 E	33 N	3.7	0.7	5 BURMA
17	11 51 55.1*	36.034 N	140.039 E	65	4.8	1.0	13 NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Mito and Utsunomiya.
17	12 37 10.3*	21.194 N	146.230 E	48 ?	4.5	0.9	26 MARIANA ISLANDS REGION
17	13 22 33.7*	38.904 S	174.777 E	271 ?		0.5	10 NORTH ISLAND, NEW ZEALAND
a 17	13 38 39.7	5.851 S	146.596 E	43 D	5.7 5.5	1.0	213 EAST PAPUA NEW GUINEA REGION. Ms 5.3 (BRK).
17	14 29 48.0*	5.786 S	146.652 E	58 *	4.0	1.0	16 EAST PAPUA NEW GUINEA REGION
a 17	16 37 17.6	35.673 N	140.668 E	44 D	5.4 4.8	1.0	224 NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Tokyo, Chiba and Choshi; (II JMA) at Mito, Yokohama and Tateyama; (I JMA) at Onahama, Maebashi, Utsunomiya and Shirakawa. Also felt (I JMA) on Oshimo.
17	17 10 44.0%	41.214 N	28.925 E	10 G		0.2	5 TURKEY
17	17 26 21.4	58.598 N	155.690 W	150	5.0	1.0	184 ALASKA PENINSULA. Felt (III) at Egigik.
f 17	19 33 08.6	34.479 S	178.394 W	59	5.7	1.1	331 SOUTH OF KERMADEC ISLANDS. Ms 6.0 (BRK). Ma=1*10**18 Nm (PPT).
17	20 18 37.1	35.380 N	133.408 E	10 G		0.6	8 SOUTHERN HONSHU, JAPAN. Felt (II JMA) at Yonago.
17	22 17 16.57	57.75 S	27.19 W	33 N	5.1	1.3	21 SOUTH SANDWICH ISLANDS REGION
17	22 39 24.5*	41.302 N	19.951 E	10 G		1.5	6 ALBANIA. ML 2.7 (SKO).
17	23 10 10.57	47.51 N	152.40 E	33 N	4.3	0.9	8 KURIL ISLANDS
18	01 06 17.8*	20.832 S	68.082 W	147 *		1.2	18 CHILE-BOLIVIA BORDER REGION
18	01 12 58.67	41.07 N	19.89 E	10 G		1.2	6 ALBANIA. ML 2.4 (SKO).
18	06 49 53.9	2.357 N	126.607 E	86 *	4.8	1.1	40 MOLUCCA PASSAGE
18	08 39 57.2*	36.451 N	70.838 E	157 *	4.1	1.5	18 HINDU KUSH REGION
18	08 40 53.1	41.615 N	19.679 E	10 G		1.4	40 ALBANIA. ML 3.6 (SKO). MD 3.2 (TTG). Felt (IV) at Ishulli and (III) at Lac.
18	09 05 45.8%	39.284 N	27.787 E	10 G		0.8	5 TURKEY
18	09 36 35.8	18.322 N	145.247 E	440	4.7	0.9	90 MARIANA ISLANDS
18	10 03 45.6*	2.257 S	134.000 E	33 N	4.8	1.2	12 WEST IRIAN REGION
18	10 51 59.5	44.276 N	7.474 E	10 G		0.3	10 NORTHERN ITALY. ML 2.4 (GEN).
18	11 11 12.4	51.216 N	178.135 W	33 N	4.8	0.7	56 ANDREANOF ISLANDS, ALEUTIAN IS.
18	11 20 37.47	25.02 N	113.19 W	10 G	4.0	1.4	10 OFF W. COAST OF BAJA CALIFORNIA
18	11 37 58.4	45.901 N	151.590 E	33 N	4.7 3.8	0.8	63 KURIL ISLANDS
18	12 03 33.1*	24.909 N	128.145 E	33 N	4.5	0.8	14 RYUKYU ISLANDS REGION
18	12 04 51.3	45.849 N	12.777 E	10 G		0.7	15 NORTHERN ITALY. ML 3.2 (KBA). MD 3.0 (TRI).
18	12 25 09.8	21.935 S	179.541 W	612 *	5.1	0.9	42 FIJI ISLANDS REGION
a 18	13 37 48.9	23.644 S	178.896 E	536	5.2	1.2	134 SOUTH OF FIJI ISLANDS
18	14 25 59.7	47.921 N	7.662 E	10 G		1.0	18 SWITZERLAND. ML 3.3 (LDG).
18	14 34 11.1*	17.879 N	146.611 E	63 *	4.5 4.2	1.2	30 MARIANA ISLANDS
18	17 08 23.9*	73.723 N	8.713 E	10 G	4.9	0.8	10 GREENLAND SEA
18	18 48 11.1*	37.125 N	71.116 E	33 N		0.6	5 AFGHANISTAN-USSR BORDER REGION
18	21 25 51.4	39.252 N	23.612 E	12		0.5	14 AEGEAN SEA. ML 3.1 (ATH).
18	21 27 39.1	39.237 N	23.558 E	10 G	4.3	1.3	127 AEGEAN SEA. ML 4.4 (ATH).
18	21 36 52.4	39.261 N	23.628 E	10 G		1.4	23 AEGEAN SEA. ML 3.5 (ATH).
18	22 05 00.17	39.23 N	23.52 E	10 G		1.5	4 AEGEAN SEA. ML 3.1 (ATH).
18	22 46 39.7	50.644 N	156.624 E	33 N	4.7	0.7	57 KURIL ISLANDS
18	23 01 44.47	25.94 N	142.45 E	33 N	4.8	0.6	20 VOLCANO ISLANDS REGION
18	23 09 22.8*	39.233 N	23.476 E	10 G		0.6	5 AEGEAN SEA. ML 2.9 (ATH).
18	23 59 55.07	39.26 N	23.54 E	10 G		0.9	4 AEGEAN SEA. ML 3.0 (ATH).
19	00 19 20.8	39.248 N	23.564 E	10 G	3.5	1.1	36 AEGEAN SEA. ML 3.6 (ATH).
19	00 31 54.3	38.103 N	23.021 E	10 G		1.3	22 GREECE. ML 3.5 (ATH).
a 19	00 33 22.4	12.754 N	143.459 E	113	5.3	0.9	88 SOUTH OF MARIANA ISLANDS. Felt on Guam.
19	01 03 55.5	39.297 N	23.535 E	10 G		0.8	10 AEGEAN SEA. ML 3.2 (ATH).
19	01 09 51.87	39.31 N	23.55 E	10 G		1.6	6 AEGEAN SEA. ML 3.0 (ATH).
a 19	01 29 35.6*	38.015 S	93.747 W	10 G	5.2 4.6	1.1	55 WEST CHILE RISE
19	01 36 22.9	30.737 N	50.108 E	49 *	4.4	1.3	23 IRAN
19	01 37 07.7	39.269 N	23.540 E	10 G		1.1	17 AEGEAN SEA. ML 3.2 (ATH).
19	01 49 14.4	39.267 N	23.707 E	10 G		1.2	14 AEGEAN SEA. ML 3.2 (ATH).
19	01 54 44.2	39.249 N	23.623 E	10 G		0.6	10 AEGEAN SEA. ML 3.0 (ATH).
a 19	02 38 52.0	1.573 N	126.656 E	71 *	5.2	1.1	77 MOLUCCA PASSAGE
19	02 46 18.5	39.246 N	23.643 E	10 G		1.0	14 AEGEAN SEA. ML 3.1 (ATH).
19	03 31 54.4	39.277 N	23.616 E	10 G		1.2	16 AEGEAN SEA. ML 3.3 (ATH).
19	04 41 18.5*	34.430 N	25.890 E	33 N		0.8	8 CRETE. MD 3.6 (ATH).
19	05 12 59.4	39.230 N	23.583 E	10 G		0.6	6 AEGEAN SEA. ML 3.2 (ATH).
a 19	05 36 58.9	39.254 N	23.516 E	10 G	5.2 5.3	1.3	334 AEGEAN SEA. ML 5.3 (ATH). Minor damage on Skiathos. Felt in central and eastern Greece.
19	05 41 43.2	39.264 N	23.619 E	10 G	4.3	1.3	64 AEGEAN SEA. ML 3.6 (ATH).
19	05 48 50.6	39.248 N	23.535 E	10 G	4.2	1.4	64 AEGEAN SEA. ML 4.0 (ATH).
19	05 49 35.4	39.308 N	23.568 E	10 G	4.4	1.1	35 AEGEAN SEA. ML 4.1 (ATH).
19	05 57 41.1	39.280 N	23.521 E	10 G	4.1	1.2	74 AEGEAN SEA. ML 4.0 (ATH).
19	06 07 45.1	39.307 N	23.620 E	10 G		1.4	19 AEGEAN SEA. ML 3.5 (ATH).
19	06 29 40.8	39.268 N	23.587 E	10 G		0.9	26 AEGEAN SEA. ML 3.3 (ATH).
19	06 35 53.2	39.267 N	23.574 E	10 G		0.9	26 AEGEAN SEA. ML 3.6 (ATH).
19	06 43 20.5*	39.276 N	23.787 E	10 G		1.3	10 AEGEAN SEA. ML 3.5 (ATH).
19	07 25 30.9	39.257 N	23.822 E	10 G		0.4	8 AEGEAN SEA. ML 3.1 (ATH).
19	07 34 37.6%	39.254 N	23.388 E	10 G		1.0	6 AEGEAN SEA. ML 2.9 (ATH).
19	07 41 50.1	39.258 N	23.648 E	10 G		1.3	33 AEGEAN SEA. ML 4.0 (ATH).
19	07 47 27.5	39.254 N	23.658 E	10 G		1.2	13 AEGEAN SEA. ML 3.0 (ATH).
19	07 59 55.7	1.698 N	127.160 E	116 *	5.2	1.0	26 HALMAHERA
19	08 09 50.07	39.11 N	23.26 E	10 G		1.1	4 AEGEAN SEA. ML 2.9 (ATH).
19	08 10 57.57	39.08 N	23.50 E	10 G		0.5	4 AEGEAN SEA. ML 3.1 (ATH).
19	08 20 22.2	39.285 N	23.599 E	10 G		0.9	27 AEGEAN SEA. ML 3.6 (ATH).
19	08 23 54.3	39.264 N	23.691 E	10 G	3.6	1.4	23 AEGEAN SEA. ML 4.1 (ATH).
19	08 52 34.2	39.302 N	23.644 E	10 G	3.7	1.2	64 AEGEAN SEA. ML 4.1 (ATH).
19	09 16 44.7	39.277 N	23.625 E	9	3.7	1.3	47 AEGEAN SEA. ML 4.2 (ATH).
19	09 51 33.1	39.186 N	23.711 E	11		1.3	29 AEGEAN SEA. ML 3.5 (ATH).
19	10 10 34.27	39.28 N	23.46 E	10 G		1.6	5 AEGEAN SEA. ML 3.0 (ATH).
19	10 16 43.8	21.089 S	68.424 W	118 D	4.9	0.9	38 CHILE-BOLIVIA BORDER REGION
19	11 09 57.8%	59.780 N	153.286 W	119			20 SOUTHERN ALASKA. <AGS-P>.
19	11 18 24.8%	60.150 N	152.925 W	114			26 SOUTHERN ALASKA. <AGS-P>.
19	11 31 28.4	39.281 N	23.672 E	10 G	4.0	1.2	90 AEGEAN SEA. ML 3.7 (TTG). 4.1 (SKO).

19	12 12 34.8	52.494 N	154.649 E	357 *	4.8	0.8	194	NORTHWEST OF KURIL ISLANDS
19	12 40 35.9	39.248 N	23.689 E	10 G		1.2	11	AEGEAN SEA. ML 3.0 (ATH).
19	13 03 35.9	39.203 N	23.372 E	10 G		1.3	6	AEGEAN SEA. ML 2.9 (ATH).
19	13 47 54.0	39.280 N	23.505 E	10 G		1.5	17	AEGEAN SEA. ML 3.6 (ATH).
19	13 55 50.9*	39.335 N	23.442 E	10 G		1.4	5	AEGEAN SEA. ML 2.9 (ATH).
19	14 30 14.6	39.281 N	23.648 E	10 G		1.2	14	AEGEAN SEA. ML 3.1 (ATH).
19	14 53 36.9*	26.468 S	27.374 E	5 G		1.4	8	REPUBLIC OF SOUTH AFRICA. MG 3.5 (BUL).
19	15 01 49.4*	57.370 N	142.939 W	10 G			20	GULF OF ALASKA. <AGS-P>.
19	15 06 33.1*	39.193 N	23.480 E	10 G		1.0	5	AEGEAN SEA. ML 2.9 (ATH).
19	15 09 13.6*	45.261 N	147.813 E	33 N	4.8	1.1	32	KURIL ISLANDS
19	16 32 23.3*	39.17 N	23.40 E	10 G		1.6	5	AEGEAN SEA. ML 2.9 (ATH).
19	16 35 19.7*	47.899 N	114.010 W	5 G		0.9	8	MONTANA. ML 3.0 (BUT).
19	18 14 55.8*	39.281 N	23.403 E	10 G		1.5	8	AEGEAN SEA. ML 3.1 (ATH).
19	18 39 14.2*	15.59 S	173.64 W	33 N	5.4	0.9	22	TONGA ISLANDS
19	18 59 53.6*	39.242 N	23.672 E	10 G		1.0	5	AEGEAN SEA. ML 2.9 (ATH).
19	19 13 05.9*	39.311 N	23.539 E	10 G		1.1	5	AEGEAN SEA. ML 2.9 (ATH).
19	19 27 06.4*	39.223 N	23.393 E	10 G		1.5	7	AEGEAN SEA. ML 2.9 (ATH).
19	19 30 42.9*	41.290 N	20.039 E	10 G		1.3	7	ALBANIA. ML 2.4 (SKO).
19	20 03 13.8*	39.28 N	22.87 E	10 G		0.5	4	GREECE. ML 2.9 (ATH).
19	21 58 32.9*	39.248 N	23.424 E	10 G		1.4	8	AEGEAN SEA. ML 3.1 (ATH).
19	22 03 22.0*	37.168 N	71.656 E	33 N	4.6	1.5	12	AFGHANISTAN-USSR BORDER REGION
19	22 16 46.3*	12.143 N	86.937 W	44			15	NICARAGUA. <HDC>. MD 4.6 (HDC).
19	22 18 15.6*	39.14 N	23.31 E	10 G		0.7	4	AEGEAN SEA. ML 3.0 (ATH).
19	22 45 54.0*	43.741 N	3.963 E	10 G		0.3	5	NEAR SOUTH COAST OF FRANCE. ML 2.6 (LDG).
19	23 09 21.7*	39.10 N	23.53 E	10 G		0.5	4	AEGEAN SEA. ML 2.9 (ATH).
19	23 42 45.0	39.260 N	23.479 E	10 G		1.4	23	AEGEAN SEA. ML 3.3 (ATH).
a 20	01 06 32.9	59.883 N	153.692 W	127 D	5.1	1.0	253	SOUTHERN ALASKA. mb 5.7 (BRK). Felt (IV) at Homer, Kodiak, Ninilchik and Soldatna; (III) at Anchorage, Eagle River, Palmer and Wasilla.
20	01 22 12.2*	39.237 N	23.528 E	10 G		1.2	5	AEGEAN SEA. ML 2.9 (ATH).
20	01 39 12.0*	10.387 N	62.178 W	10 G		0.9	17	NEAR COAST OF VENEZUELA. ML 4.6 (FDF). MD 4.1 (TRN).
20	01 55 57.8	39.210 N	23.612 E	10 G		1.0	6	AEGEAN SEA. ML 2.9 (ATH).
20	02 34 06.1	39.236 N	23.603 E	10 G		1.0	6	AEGEAN SEA. ML 3.0 (ATH).
a 20	02 36 50.3	24.240 N	125.174 E	29 D	5.3 5.4	1.1	131	SOUTHWESTERN RYUKYU ISLANDS. Felt (II JMA) on Miyako-jima.
20	04 03 41.9*	47.16 N	7.53 E	10 G		0.8	6	SWITZERLAND. ML 2.7 (LDG).
20	04 05 12.3	39.558 N	23.895 E	10 G	3.9	1.4	63	AEGEAN SEA. ML 3.9 (ATH).
20	04 53 25.7	39.250 N	23.640 E	10 G		1.3	45	AEGEAN SEA. ML 3.9 (ATH).
20	05 10 17.5*	39.157 N	23.391 E	10 G		1.4	5	AEGEAN SEA. ML 2.9 (ATH).
20	05 57 52.8	39.294 N	23.638 E	10 G		1.5	26	AEGEAN SEA. ML 3.4 (ATH).
20	06 52 48.7*	37.482 N	118.623 W	11			10	CALIFORNIA-NEVADA BORDER REGION. <REN>. MD 3.1 (REN).
20	07 22 47.1	35.892 N	28.514 E	10 G		1.3	8	EASTERN MEDITERRANEAN SEA. MD 3.4 (ATH).
20	07 27 33.7	44.144 N	6.732 E	10 G		0.3	12	FRANCE. ML 2.5 (GEN).
20	07 57 34.0*	39.261 N	23.272 E	10 G		1.3	5	AEGEAN SEA. ML 3.1 (ATH).
20	08 10 15.3	39.331 N	23.551 E	10 G		1.5	18	AEGEAN SEA. ML 3.3 (ATH).
20	08 49 05.7*	24.764 N	124.975 E	83 ?	4.2	0.7	15	SOUTHWESTERN RYUKYU ISLANDS
20	09 38 24.3	39.273 N	23.467 E	10 G		1.4	9	AEGEAN SEA. ML 3.2 (ATH).
20	09 55 38.5	39.251 N	23.657 E	10 G		1.4	19	AEGEAN SEA. ML 3.5 (ATH).
20	10 04 48.8*	39.284 N	27.757 E	10 G		1.5	6	TURKEY
20	10 39 12.6	39.273 N	23.613 E	10 G	4.5	1.3	120	AEGEAN SEA. ML 4.4 (ATH).
a 20	10 41 11.3	2.349 N	84.538 W	10 G	5.2 5.1	1.1	83	OFF COAST OF CENTRAL AMERICA
20	10 59 06.0	58.729 N	152.995 W	84 *		0.8	42	KODIAK ISLAND REGION
20	11 03 18.4	39.241 N	23.433 E	10 G		1.0	6	AEGEAN SEA. ML 2.9 (ATH).
20	11 48 51.8*	45.124 N	6.409 E	10 G		0.1	6	FRANCE. ML 2.3 (GEN).
20	11 53 52.1*	39.230 N	23.642 E	10 G		0.7	6	AEGEAN SEA. ML 3.0 (ATH).
20	12 08 47.3*	42.82 N	145.94 E	33 N		1.2	5	HOKKAIDO, JAPAN REGION. Felt (I JMA) at Nemuro.
20	13 41 54.5	39.283 N	23.560 E	10 G		1.0	41	AEGEAN SEA. ML 3.6 (ATH).
20	14 02 55.8	39.274 N	23.661 E	10 G		1.4	23	AEGEAN SEA. ML 3.3 (ATH).
20	14 24 22.6*	39.31 N	23.40 E	10 G		0.1	4	AEGEAN SEA
20	15 15 24.7	2.229 N	126.659 E	93 *	5.0	1.3	45	MOLUCCA PASSAGE
20	16 42 08.2	63.929 N	148.812 W	33 N		0.6	6	CENTRAL ALASKA. ML 3.0 (PMR).
20	18 19 57.2	5.014 S	130.319 E	104	5.0	0.9	60	BANDA SEA
20	18 25 26.0*	9.72 N	62.10 W	10 G		1.3	5	NEAR COAST OF VENEZUELA
20	23 35 52.3*	39.40 N	23.32 E	10 G		0.6	4	AEGEAN SEA. ML 3.0 (ATH).
21	00 11 00.7*	39.916 N	29.224 E	10 G		0.3	5	TURKEY
21	00 14 33.1*	60.084 N	152.874 W	106			21	SOUTHERN ALASKA. <AGS-P>.
21	00 34 14.8*	5.500 S	146.914 E	184 *	5.0	0.9	17	EAST PAPUA NEW GUINEA REGION
21	00 57 04.8	23.903 N	68.525 E	33 N	4.1	0.9	10	INDIA-PAKISTAN BORDER REG.
21	01 02 56.2*	32.540 N	115.260 W	6 G			2	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.3 (PAS).
21	01 05 39.3*	39.29 N	23.43 E	10 G		0.4	4	AEGEAN SEA. ML 2.9 (ATH).
21	01 25 20.6*	39.22 N	23.50 E	10 G		0.6	4	AEGEAN SEA. ML 3.0 (ATH).
21	01 37 04.4	36.880 N	116.818 W	5 G		0.2	11	CALIFORNIA-NEVADA BORDER REGION. MD 2.8 (REN).
a 21	02 00 51.8	36.924 N	134.453 E	397	4.7	0.7	100	SEA OF JAPAN
21	02 19 19.1*	39.230 N	23.248 E	10 G		1.1	5	AEGEAN SEA. ML 3.0 (ATH).
21	02 28 41.1*	39.30 N	23.42 E	10 G		0.6	4	AEGEAN SEA. ML 2.9 (ATH).
21	03 34 46.2*	39.27 N	22.75 E	10 G		0.8	4	GREECE. ML 2.9 (ATH).
21	04 06 11.6*	55.03 N	164.69 E	33 N	4.6	0.5	17	KOMANDORSKY ISLANDS REGION
21	04 26 01.5	2.281 N	118.493 E	32	4.5	0.6	22	CELEBES SEA
21	04 50 15.6*	39.249 N	23.494 E	10 G		1.2	5	AEGEAN SEA. ML 2.9 (ATH).
21	05 16 57.6*	43.143 N	0.145 E	10 G		0.7	13	FRANCE. ML 3.8 (LDG). Felt (V) at Luz-St. Sauveur.
21	05 29 36.6	54.607 N	90.517 E	33 N	4.6	0.7	37	CENTRAL USSR
21	06 15 55.8	40.678 N	29.881 E	12		0.6	26	TURKEY. Felt at Kocaeli.
21	06 41 44.4*	6.713 N	76.456 W	33 N		0.5	6	NORTHERN COLOMBIA
21	09 18 53.3*	39.303 N	27.670 E	10 G		1.0	6	TURKEY
21	09 20 23.0*	39.117 N	27.598 E	10 G		1.0	5	TURKEY
21	10 18 31.6*	39.15 N	27.63 E	10 G		0.6	4	TURKEY
21	10 23 02.5*	52.113 N	170.994 W	33 N	4.3	0.8	19	FOX ISLANDS, ALEUTIAN ISLANDS
21	11 23 06.1*	38.025 N	29.187 E	10 G		1.2	6	TURKEY
21	11 40 30.7	44.667 N	11.256 E	10 G		0.8	9	NORTHERN ITALY
21	12 04 51.5*	33.990 N	119.110 W	3			26	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.8 (PAS). Felt (IV) at Newbury Park.
21	12 47 12.9	43.381 N	5.425 E	10 G		0.8	15	NEAR SOUTH COAST OF FRANCE. MD 3.0 (STR).
21	13 45 23.2*	55.40 N	159.35 W	33 N		1.4	5	ALASKA PENINSULA. ML 3.3 (PMR).

21	14 01 04.6*	34.516 N	25.048 E	10 G	1.3	10	CRETE. MD 4.0 (ATH).
21	14 38 06.3?	41.67 N	13.89 E	10 G	0.9	4	SOUTHERN ITALY
21	15 02 24.5	39.172 N	110.862 W	5 G	0.6	8	UTAH. ML 2.9 (NEIS).
21	15 09 10.5%	46.565 N	23.506 E	5 G	1.4	6	ROMANIA
21	15 29 42.5*	24.202 N	120.802 E	33 N	1.3	8	TAIWAN
21	15 57 20.7*	37.760 N	71.743 E	33 N	4.5	0.4	7 AFGHANISTAN-USSR BORDER REGION
21	16 28 07.6?	39.20 N	23.03 E	10 G	1.6	4	AEGEAN SEA. ML 3.0 (ATH).
21	16 42 49.6*	4.510 N	127.658 E	143 ?	4.7	0.7	19 TALAUD ISLANDS
21	17 53 02.2	24.218 N	120.823 E	10 G	0.9	8	TAIWAN
21	17 59 44.0?	17.51 S	176.12 E	33 N	4.8	1.4	11 FIJI ISLANDS REGION
21	18 39 27.3	38.933 N	29.272 E	5	0.8	23	TURKEY. MD 3.8 (ATH).
21	18 44 16.0?	37.75 N	15.05 E	10 G	0.5	4	SICILY
21	18 52 04.7?	37.76 N	15.06 E	10 G	0.8	4	SICILY
21	19 36 51.6?	37.76 N	15.06 E	10 G	1.0	4	SICILY
21	19 50 07.9	39.291 N	23.528 E	6	1.0	19	AEGEAN SEA. ML 3.3 (ATH).
21	21 04 55.9?	43.36 N	5.55 E	10 G	0.3	6	NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).
21	21 05 26.1?	43.65 N	6.10 E	10 G	0.3	9	NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).
21	21 28 02.2?	36.71 N	34.80 E	10 G	1.1	5	TURKEY
21	21 30 05.9	39.309 N	23.551 E	11	1.1	38	AEGEAN SEA. ML 3.8 (ATH).
21	22 10 23.6*	39.222 N	23.493 E	10 G	0.6	5	AEGEAN SEA. ML 2.8 (ATH).
21	23 23 52.5?	38.57 N	26.96 E	10 G	0.9	4	AEGEAN SEA
21	23 50 14.2*	39.162 N	23.361 E	10 G	1.3	7	AEGEAN SEA. ML 2.9 (ATH).
22	00 02 01.9?	38.14 N	20.28 E	10 G	1.3	6	GREECE. MD 3.2 (ATH).
22	01 24 57.4*	18.442 N	66.387 W	33 N	1.5	5	PUERTO RICO REGION
22	01 34 53.2	40.943 N	74.175 E	33 N	4.7	0.8	18 KIRGHIZ-XINJIANG BORDER REGION. Felt (IV) at Kazarmen and (III) at Bayetova.
22	01 35 09.8%	40.670 N	29.913 E	10 G	1.0	8	TURKEY
22	02 40 31.3?	16.52 N	95.52 W	33 N	3.5	1.6	6 OAXACA, MEXICO
22	02 43 35.6	35.767 N	29.299 E	33 N	0.6	8	EASTERN MEDITERRANEAN SEA
22	03 22 27.7	3.389 N	128.154 E	95 *	4.5	1.2	24 NORTH OF HALMAHERA
22	03 30 33.1%	44.221 N	6.183 E	10 G	0.2	5	FRANCE. ML 2.2 (LDG).
22	03 31 01.9%	44.235 N	6.104 E	10 G	0.3	5	FRANCE. ML 2.5 (LDG).
22	04 52 56.3%	11.235 N	85.884 W	153 G	0.3	7	NICARAGUA. <HDC>.
22	05 26 36.5	63.141 N	150.944 W	143 ?	0.3	8	CENTRAL ALASKA
22	07 46 59.3*	52.811 N	162.249 E	33 N	4.5	0.7	14 OFF EAST COAST OF KAMCHATKA
22	08 08 40.7?	8.27 S	124.01 E	162 ?	4.0	0.9	8 TIMOR
22	08 46 51.8?	37.74 N	15.06 E	10 G	0.2	4	SICILY
22	10 23 17.2?	9.90 S	127.31 E	191 ?	4.1	0.1	5 TIMOR SEA
22	11 59 32.1	42.897 N	12.840 E	10 G	1.0	7	CENTRAL ITALY. MD 2.6 (SSO).
22	11 59 51.0?	15.27 S	172.89 W	10 G	4.6	0.8	13 SAMOA ISLANDS REGION
a	22 12 40 51.2	23.423 N	45.005 W	10 G	5.1 5.3	1.0	100 NORTH ATLANTIC RIDGE
22	13 35 50.5	41.272 N	20.051 E	10 G	1.0	7	ALBANIA. ML 2.2 (SKO).
22	13 44 54.3*	27.407 N	53.285 E	76 *	3.8	1.2	15 SOUTHERN IRAN
22	14 00 13.5?	8.27 S	128.55 E	147 ?	1.3	5	TIMOR SEA
22	16 08 22.7%	37.036 N	3.805 W	10 G	1.5	8	SPAIN. MG 2.8 (MDD).
22	16 08 25.4?	17.11 S	175.20 W	253 *	4.6	0.8	14 TONGA ISLANDS
22	16 38 55.6	9.768 S	154.236 E	29 *	5.0	0.9	68 DENTRECASTEAUX ISLANDS REGION
22	16 57 42.3*	27.221 N	128.039 E	99 *	4.4	1.0	18 RYUKYU ISLANDS. Felt (I JMA) at Naha.
22	17 07 39.3*	39.208 N	22.598 E	10 G	1.4	6	GREECE. ML 3.0 (ATH).
22	17 30 11.7*	4.299 S	139.631 E	33 N	5.0	1.4	11 WEST IRIAN
22	17 44 52.9	39.303 N	23.584 E	7	0.9	26	AEGEAN SEA. ML 3.3 (ATH).
22	17 58 18.1*	14.316 S	166.620 E	229 *	4.1	1.3	47 VANUATU ISLANDS
a	22 18 10 53.6	20.748 S	178.689 W	571	5.1	1.1	141 FIJI ISLANDS REGION
22	19 11 08.1?	53.41 N	160.41 E	33 N	4.4	0.6	12 NEAR EAST COAST OF KAMCHATKA
22	19 14 28.8*	8.261 S	116.290 E	168 *	4.4	1.0	9 SUMBAWA ISLAND REGION
22	19 22 03.0*	43.016 N	145.346 E	71 ?	4.3	0.8	35 HOKKAIDO, JAPAN REGION
22	19 34 38.1*	40.382 N	63.285 E	33 N	3.8	1.0	8 UZBEK SSR
22	21 16 33.0%	60.658 N	151.644 W	69	0.6	6	KENAI PENINSULA, ALASKA. <AGS-P>.
22	22 57 02.2	39.338 N	23.476 E	10 G	1.1	12	AEGEAN SEA. ML 3.2 (ATH).
22	23 43 07.6?	6.11 S	129.83 E	33 N	4.2	1.4	7 BANDA SEA
23	02 57 54.1*	2.265 S	126.292 E	33 N	4.5	1.2	8 CERAM SEA
23	03 07 17.4	37.111 N	27.627 E	9	1.2	11	TURKEY. MD 3.5 (ATH).
23	03 10 44.7	2.398 N	128.253 E	95 *	5.1	1.0	53 HALMAHERA
23	03 59 17.0*	39.056 N	22.482 E	10 G	1.2	6	GREECE. ML 3.0 (ATH).
23	04 50 24.9*	11.148 S	123.737 E	33 N	4.8	1.5	13 SOUTH OF TIMOR
23	05 23 48.2%	59.886 N	152.859 W	93	1.2	12	SOUTHERN ALASKA. <AGS-P>.
23	05 33 46.6	23.832 N	122.593 E	34	4.9	1.1	54 TAIWAN REGION
23	07 10 20.7	22.190 N	121.278 E	26	4.6	1.3	34 TAIWAN REGION
a	23 07 38 47.5	6.960 S	72.318 E	10 G	5.1	1.0	73 CHAGOS ARCHIPELAGO REGION. Felt (III) on Diego Garcia.
23	08 45 14.4*	34.688 N	25.897 E	10 G	0.8	7	CRETE. MD 4.0 (ATH).
23	09 00 58.4*	39.198 N	22.709 E	10 G	1.5	5	GREECE. ML 3.2 (ATH).
23	09 30 41.0	43.479 N	127.133 W	10 G	4.6	0.8	118 OFF COAST OF OREGON
a	23 09 31 24.1	33.788 N	141.395 E	49	5.6 4.9	1.0	237 OFF EAST COAST OF HONSHU, JAPAN
23	09 47 51.0?	43.11 N	127.88 W	10 G	0.2	26	OFF COAST OF OREGON
23	10 02 37.0?	43.57 N	127.41 W	10 G	0.3	30	OFF COAST OF OREGON. CL 3.1 (SEA).
23	11 54 56.1%	39.300 N	27.712 E	10 G	0.9	6	TURKEY
23	12 38 51.1*	41.012 N	78.068 E	28 *	4.5	1.1	16 KIRGHIZ-XINJIANG BORDER REGION
23	12 59 58.0%	39.120 N	27.574 E	10 G	0.8	5	TURKEY
23	13 23 32.9?	4.97 S	142.31 E	33 N	4.8	1.4	10 PAPUA NEW GUINEA
23	13 32 45.7?	5.52 N	0.37 W	10 G	0.1	5	NORTHWEST AFRICA. MG 2.0 (KUK).
23	15 49 44.7?	44.36 N	8.30 E	5 G	0.4	4	NORTHERN ITALY
23	17 37 42.7	37.871 N	4.593 W	10 G	1.1	18	SPAIN. MG 3.6 (MDD). Felt (III) in the Santa Cruz area.
23	17 50 03.4	5.383 S	80.523 W	71 *	4.9	0.7	39 NEAR COAST OF NORTHERN PERU
23	17 54 01.8%	44.104 N	11.909 E	10 G	0.3	5	NORTHERN ITALY
23	18 53 03.3	15.390 S	178.954 W	436	4.5	0.5	21 FIJI ISLANDS REGION
23	18 57 46.5*	27.725 N	56.899 E	33 N	4.5	1.0	18 SOUTHERN IRAN
23	20 35 41.6*	5.290 N	77.383 W	33 N	0.7	7	NEAR WEST COAST OF COLOMBIA
23	21 22 38.2	28.858 S	67.326 W	134 D	4.9	1.2	50 LA RIOJA PROVINCE, ARGENTINA
23	22 53 36.1%	43.883 N	11.924 E	10 G	0.6	5	CENTRAL ITALY
23	23 09 50.8	10.331 N	93.794 E	74 *	4.6	1.2	32 ANDAMAN ISLANDS REGION
24	00 08 24.6?	17.15 N	62.27 W	10 G	0.3	7	LEEWARD ISLANDS. ML 2.9 (FDF).
24	00 14 52.7*	3.251 S	130.553 E	40 ?	4.4	1.4	21 CERAM
24	00 23 28.3?	23.52 S	178.78 E	602 ?	4.5	1.0	17 SOUTH OF FIJI ISLANDS

24	00 57 20.5?	35.08 S	179.28 W	66 ?	4.9	0.8	10	EAST OF NORTH ISLAND. N.Z.
24	01 04 23.8?	46.290 N	0.579 W	10 G		1.4	9	FRANCE. ML 2.7 (LDG).
24	03 29 54.3?	44.892 N	6.644 E	10 G		0.5	6	FRANCE. ML 2.1 (GEN).
24	03 50 53.1?	5.054 N	82.695 W	10 G	4.3 3.7	1.2	12	SOUTH OF PANAMA
24	04 26 43.4?	0.039 N	123.997 E	129 *	4.8	1.0	11	MINAHASSA PENINSULA
24	06 34 50.1?	1.66 S	138.17 E	10 G	3.7	1.5	7	NEAR N. COAST OF WEST IRIAN
24	07 46 58.4?	40.002 N	27.194 E	10 G		0.5	6	TURKEY
24	08 15 57.3?	5.87 S	127.77 E	423 *	5.1	0.8	11	BANDA SEA
a 24	09 49 31.3	58.887 S	148.783 E	10 G	5.3 5.6	1.1	39	WEST OF MACQUARIE ISLAND
24	09 49 36.4?	6.748 N	76.472 W	14	4.0	1.2	17	NORTHERN COLOMBIA
24	09 56 33.2?	3.076 N	84.242 W	10 G	4.0	1.5	9	OFF COAST OF CENTRAL AMERICA
24	10 11 51.3?	18.128 N	67.140 W	33 N		0.4	5	MONA PASSAGE
24	10 51 55.9?	43.13 N	5.46 E	10 G		0.2	8	NEAR SOUTH COAST OF FRANCE. MD 2.6 (STR).
24	11 26 46.0	37.075 N	103.257 W	5 G		0.9	7	COLORADO. mbLg 2.7 (TUL).
24	11 41 04.6?	60.224 N	153.180 W	142			26	SOUTHERN ALASKA. <AGS-P>.
24	12 10 55.8?	20.402 N	99.356 E	10 G		0.8	5	BURMA
24	15 25 30.0?	64.084 N	86.789 W	10 G		1.4	5	NORTHWEST TERRITORIES, CANADA
a 24	15 31 29.9	11.329 N	86.404 W	68	5.2	1.2	133	NEAR COAST OF NICARAGUA. MD 5.3 (SJR), 4.8 (HDC). Felt (IV) at Penas Blancas; (III) at Cuajiniquil de La Cruz; (II) in the Central Valley and felt slightly at San Jose, Costa Rica.
24	16 23 42.1?	11.049 N	61.784 W	33 N		0.8	9	WINDWARD ISLANDS. MD 3.5 (TRN).
24	17 22 49.5?	43.29 N	5.31 E	10 G		0.1	7	NEAR SOUTH COAST OF FRANCE. MD 2.6 (STR).
24	18 22 23.8	39.295 N	23.552 E	6		1.1	22	AEGEAN SEA. ML 3.5 (ATH).
24	22 03 22.2	16.677 N	61.927 W	10 G		0.5	7	LEEWARD ISLANDS. ML 2.5 (FDF).
24	22 25 25.6?	33.180 N	115.600 W	1			1	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
24	22 28 10.0?	33.180 N	115.590 W	1			1	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
24	23 16 48.0?	33.030 N	115.580 W	6 G			14	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.0 (PAS). Felt at Niland.
24	23 23 01.1?	4.156 S	130.384 E	33 N		1.8	5	BANDA SEA
24	23 46 00.5?	60.707 N	150.213 W	42			23	KENAI PENINSULA, ALASKA. <AGS-P>.
24	23 46 35.4?	15.05 N	98.35 E	33 N		0.4	4	SOUTH BURMA
25	00 03 40.4?	7.33 S	150.55 E	90 ?	4.2	1.3	6	NEW BRITAIN REGION
25	00 56 59.5	13.524 S	33.653 E	10 G	4.7	1.3	10	MALAWI
25	01 15 01.2?	29.752 S	70.852 W	95 *		0.9	11	CENTRAL CHILE
25	03 37 35.6?	6.614 N	76.590 W	14	3.5	1.0	11	NORTHERN COLOMBIA
25	04 06 30.2?	59.840 N	153.370 W	129			38	SOUTHERN ALASKA. <AGS-P>.
25	05 08 59.5	44.281 N	11.998 E	10 G		0.9	15	NORTHERN ITALY. ML 2.5 (KBA).
25	05 17 14.8	44.245 N	11.925 E	10 G		1.0	6	NORTHERN ITALY
25	05 40 06.1?	18.13 N	67.32 W	33 N		0.4	6	MONA PASSAGE
25	05 50 22.0?	4.91 S	133.87 E	33 N	3.4	1.3	6	WEST IRIAN REGION
25	06 10 15.5?	44.036 N	11.848 E	10 G		0.5	5	NORTHERN ITALY
25	08 10 54.8?	24.891 S	177.099 W	113 *	4.8	1.3	31	SOUTH OF FIJI ISLANDS
25	08 44 12.9?	41.205 N	20.061 E	10 G		0.5	5	ALBANIA. ML 2.2 (SKO).
25	12 07 59.3?	39.135 N	27.610 E	10 G		0.4	5	TURKEY
25	12 27 38.5?	16.23 N	61.40 W	33 N		0.0	4	LEEWARD ISLANDS. ML 1.7 (FDF).
25	12 46 39.0	51.669 N	16.133 E	10 G	5.3	0.7	20	POLAND. ML 3.8 (KBA), 4.1 (VKA).
25	14 15 41.3	39.341 N	23.586 E	10 G		1.4	11	AEGEAN SEA. ML 3.0 (ATH).
25	14 50 10.3?	60.682 N	151.607 W	63			34	KENAI PENINSULA, ALASKA. <AGS-P>.
25	15 47 27.0?	38.451 N	21.855 E	10 G		0.8	5	GREECE. ML 3.2 (ATH).
25	15 59 05.2?	14.524 S	33.069 E	10 G		1.5	5	MOZAMBIQUE. MG 3.3 (LSZ).
25	16 31 42.9	6.762 N	73.105 W	162	4.9	1.0	81	NORTHERN COLOMBIA
25	16 55 03.4?	17.52 S	178.82 W	597 *	4.6	0.5	12	FIJI ISLANDS REGION
a 25	16 57 03.2?	29.744 S	177.796 W	54 D	5.0	1.2	44	KERMADEC ISLANDS. Felt (IV) on Raoul Island.
25	17 25 54.1	14.609 S	66.408 E	10 G	4.8	1.1	36	MID-INDIAN RISE
25	17 48 26.3	43.270 N	19.413 E	10 G		1.0	13	YUGOSLAVIA. MD 2.6 (TTG).
25	18 07 27.4?	2.70 S	138.27 E	33 N	4.0	1.1	7	WEST IRIAN
25	21 59 46.6	39.280 N	23.675 E	10 G		0.9	12	AEGEAN SEA. ML 2.9 (ATH).
25	23 18 19.4?	35.966 N	80.769 E	33 N	3.8	0.9	7	KASHMIR-TIBET BORDER REGION
25	23 19 30.4	39.072 N	22.405 E	27	3.8	0.8	39	GREECE. ML 3.4 (ATH). Felt at Lamio.
25	23 39 37.9?	14.35 S	32.87 E	10 G		1.0	5	MOZAMBIQUE. MG 3.3 (LSZ).
25	23 51 44.1?	43.54 N	7.79 E	10 G		0.3	5	NEAR SOUTH COAST OF FRANCE. ML 2.3 (GEN).
26	00 33 34.4?	17.12 S	35.20 E	10 G		1.5	6	MOZAMBIQUE. MG 4.0 (LSZ).
26	00 51 47.7	43.649 N	7.566 E	10 G		0.8	11	NEAR SOUTH COAST OF FRANCE. ML 2.1 (LDG).
26	00 53 51.5?	20.746 S	178.641 W	583 *	4.6	1.0	29	FIJI ISLANDS REGION
26	01 18 06.1?	60.115 N	152.810 W	97			38	SOUTHERN ALASKA. <AGS-P>.
26	01 31 45.9?	39.273 N	23.566 E	10 G		0.8	6	AEGEAN SEA. ML 2.9 (ATH).
26	02 17 17.5?	24.18 S	177.20 W	220 ?	4.3	1.1	14	SOUTH OF FIJI ISLANDS
26	02 52 45.1?	41.226 N	20.033 E	10 G		0.8	6	ALBANIA. ML 2.3 (SKO).
a 26	02 55 47.7	19.294 N	121.111 E	34 D	5.2 5.1	1.1	96	PHILIPPINE ISLANDS REGION
26	04 01 30.6	44.672 N	146.732 E	127 *	4.7	1.0	51	KURIL ISLANDS
26	04 42 42.9?	16.259 N	96.854 W	76 *	4.6	1.1	41	OAXACA, MEXICO
26	05 06 01.8	39.295 N	23.621 E	10 G		1.1	11	AEGEAN SEA. ML 3.0 (ATH).
26	05 33 29.4?	33.710 N	116.730 W	19			6	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS). Felt at Idyllwild.
26	06 15 48.5?	2.67 N	123.75 E	345 *	3.9	0.3	10	CELEBES SEA
a 26	06 39 49.1	14.765 S	73.963 W	108 D	5.4	0.9	128	PERU
26	06 43 03.3	39.316 N	23.541 E	10 G		1.1	11	AEGEAN SEA. ML 3.0 (ATH).
26	06 47 44.9	35.699 N	140.176 E	81	4.8	0.8	33	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) on Oshima and at Tokyo and Yokohama; (I JMA) at Ajira and Utsunomiya.
26	07 08 31.3?	35.51 N	23.52 E	10 G		0.8	4	CRETE. ML 3.5 (ATH).
26	07 12 55.9?	42.499 N	143.314 E	93 ?		0.9	11	HOKKAIDO, JAPAN REGION
26	07 33 21.7?	44.298 N	6.666 E	10 G		0.3	5	FRANCE. ML 2.1 (GEN).
26	07 38 33.5?	39.238 N	27.706 E	10 G		0.6	6	TURKEY
26	08 12 53.5?	39.134 N	27.566 E	10 G		0.7	5	TURKEY
26	09 11 02.0	39.289 N	23.539 E	10 G		1.2	11	AEGEAN SEA. ML 3.1 (ATH).
26	09 29 08.2	73.150 N	5.402 E	10 G	4.6	1.1	32	GREENLAND SEA
26	10 59 34.2?	72.19 N	7.47 E	10 G	4.2	1.2	10	NORWEGIAN SEA
26	11 21 03.0?	40.614 N	29.897 E	10 G		0.6	6	TURKEY
26	13 07 49.1?	43.79 N	10.90 E	10 G		0.5	4	CENTRAL ITALY
26	13 15 01.2	35.187 N	136.522 E	10 G		0.6	8	SOUTHERN HONSHU, JAPAN
26	13 22 39.0?	32.950 N	115.810 W	4			6	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.1 (PAS).

26	13 25 36.3*	5.039 S	37.649 W	10 G	4.4	1.1	16	BRAZIL. Minor damage (VII) in the eastern part of Ceara State
26	14 03 12.2*	16.303 N	98.608 W	33 N	4.7	1.1	24	NEAR COAST OF GUERRERO, MEXICO
26	15 03 56.4*	35.91 N	80.52 E	33 N	4.0	0.7	5	KASHMIR-TIBET BORDER REGION
26	16 29 41.6*	58.463 N	142.720 W	10 G			32	GULF OF ALASKA. <AGS-P>.
26	16 56 19.4*	28.836 N	105.014 E	33 N		1.4	8	SICHUAN PROVINCE, CHINA. ML 4.1 (BJI).
26	17 13 45.3*	61.466 N	152.006 W	99			37	SOUTHERN ALASKA. <AGS-P>.
26	17 24 32.9*	17.525 N	62.207 W	33 N		1.1	8	LEEWARD ISLANDS. ML 3.0 (FDF).
26	17 38 18.9*	39.223 N	23.575 E	10 G		1.4	5	AEGEAN SEA. ML 2.9 (ATH).
26	18 03 36.2*	38.780 N	122.750 W	5			22	NORTHERN CALIFORNIA. <BRK>. ML 4.0 (BRK). Felt (IV) at Cobb.
26	18 10 47.9*	38.835 N	122.780 W	3			14	NORTHERN CALIFORNIA. <BRK>. ML 3.3 (BRK).
26	18 42 46.6*	4.225 N	127.163 E	33 N	4.2	1.2	9	TALAUD ISLANDS
26	19 37 28.2*	10.10 N	127.87 E	33 N	4.6	1.4	8	PHILIPPINE ISLANDS REGION
26	21 30 16.2*	44.22 N	11.95 E	10 G		0.2	4	NORTHERN ITALY
26	21 42 52.2*	37.110 N	27.951 E	10 G		1.5	6	TURKEY
26	21 45 12.8*	6.105 S	151.068 E	51 *	4.7	1.2	11	NEW BRITAIN REGION
26	21 49 08.6*	28.89 N	111.94 W	10 G		1.2	20	GULF OF CALIFORNIA
26	22 35 01.3	52.209 N	157.630 E	113 D	4.4	0.8	59	KAMCHATKA
26	22 41 40.8*	7.357 S	127.772 E	137. ?	4.5	0.7	12	BANDA SEA
26	22 46 46.9*	44.141 N	10.638 E	10 G		0.5	7	NORTHERN ITALY
26	23 58 55.6*	5.557 N	77.593 W	10 G	4.8	0.9	13	NEAR WEST COAST OF COLOMBIA
27	00 35 09.4*	5.533 N	77.509 W	10 G		0.7	9	NEAR WEST COAST OF COLOMBIA
27	01 36 18.3	20.894 S	178.056 W	520 ?	4.9	1.0	36	FIJI ISLANDS REGION
27	02 22 31.2*	7.993 S	117.060 E	219 *	4.2	1.1	11	BALI SEA
27	02 44 02.3	40.651 N	29.901 E	10 G		0.7	8	TURKEY
27	03 08 42.3*	58.118 N	149.651 W	10 G			39	GULF OF ALASKA. <AGS-P>. ML 3.6 (PMR).
27	04 51 20.5	34.897 N	26.852 E	10 G		0.8	7	CRETE. MD 3.9 (ATH).
27	05 19 40.9	17.870 S	178.780 W	571	4.8	0.8	50	FIJI ISLANDS REGION
27	06 08 34.6*	38.85 N	16.56 E	10 G		0.8	6	SOUTHERN ITALY
27	06 14 41.6*	6.09 N	126.65 E	69 ?	4.6	1.3	12	MINDANAO, PHILIPPINE ISLANDS
27	07 37 11.3*	37.277 N	121.633 W	1			10	CENTRAL CALIFORNIA. <BRK>. ML 1.6 (BRK). Felt at San Jose.
27	09 05 14.4	9.768 S	119.926 E	77 *	4.7	1.3	31	SUMBA ISLAND REGION. Felt (III) at Waingapu.
27	10 59 00.8	71.456 N	64.293 W	10 G	4.2	1.0	11	BAFFIN BAY
27	11 06 06.2*	60.665 N	151.639 W	62			35	KENAI PENINSULA, ALASKA. <AGS-P>.
27	14 46 28.9	45.888 N	2.931 E	10 G		0.4	12	FRANCE. ML 2.6 (LDG).
27	14 58 25.9*	61.206 N	152.002 W	98			26	SOUTHERN ALASKA. <AGS-P>.
27	15 24 01.2	39.197 N	23.460 E	10 G		1.3	9	AEGEAN SEA. ML 3.4 (ATH).
27	15 45 44.5	12.147 N	144.161 E	33 *	5.3 4.9	1.2	140	SOUTH OF MARIANA ISLANDS
27	16 50 04.1*	47.349 N	6.465 E	10 G		1.1	5	FRANCE. ML 2.9 (LDG)
27	18 16 41.3*	45.57 N	16.05 E	5 G		1.3	7	YUGOSLAVIA. ML 1.7 (ZAG).
27	18 20 10.4*	18.014 N	121.089 E	33 N	4.1	1.2	9	LUZON, PHILIPPINE ISLANDS
27	19 43 28.8*	2.371 N	84.497 W	33 N	4.9 4.2	1.2	13	OFF COAST OF CENTRAL AMERICA
27	20 17 22.2*	45.816 N	120.262 W	12			27	WASHINGTON-OREGON BORDER REGION. <SEA>. CL 3.1 (SEA).
27	20 46 38.3*	16.205 N	60.806 W	33 N		0.4	13	LEEWARD ISLANDS. ML 3.0 (FDF).
27	21 21 25.1	38.816 N	20.607 E	10 G		1.2	13	GREECE. ML 3.5 (ATH).
27	21 21 58.3*	44.23 N	9.20 E	10 G		0.6	7	NORTHERN ITALY
27	21 34 30.4*	46.55 N	5.32 E	10 G		0.5	5	FRANCE. ML 2.4 (LDG).
27	21 53 59.8	44.797 N	9.036 E	10 G		0.5	13	NORTHERN ITALY
27	22 21 56.8	44.261 N	9.334 E	10 G		0.7	34	NORTHERN ITALY. ML 3.1 (LDG). MD 2.9 (STR).
27	23 33 16.5*	7.54 S	129.39 E	191 ?	4.0	1.1	8	BANDA SEA
27	23 44 04.1	39.247 N	23.596 E	10 G		0.7	11	AEGEAN SEA. ML 3.1 (ATH).
28	01 00 07.1*	38.765 N	20.622 E	10 G		0.9	5	GREECE. MD 2.6 (ATH).
28	01 36 09.9*	41.856 N	22.972 E	10 G		1.1	6	YUGOSLAVIA. ML 3.5 (SKO).
28	03 48 29.2	44.241 N	9.362 E	10 G		1.0	22	NORTHERN ITALY. ML 2.6 (LDG).
28	03 55 15.6*	60.161 N	139.250 W	0			16	SOUTHEASTERN ALASKA. <AGS-P>.
28	04 02 10.0*	38.90 N	25.94 E	10 G		1.2	20	AEGEAN SEA
28	04 13 05.0*	14.98 S	173.42 W	10 G	4.8	1.5	9	SAMOA ISLANDS REGION
28	04 31 48.2*	46.35 N	1.83 E	10 G		0.0	4	FRANCE. ML 2.0 (LDG).
28	05 27 57.7*	43.816 N	10.884 E	10 G		0.4	5	CENTRAL ITALY
28	05 29 31.8*	43.817 N	10.894 E	10 G		0.3	6	CENTRAL ITALY. MD 2.8 (FIR).
28	05 32 04.9*	61.658 N	152.000 W	101			7	SOUTHERN ALASKA. <AGS-P>.
28	06 18 56.1*	39.147 N	27.037 E	10 G		0.5	5	TURKEY
28	07 01 34.4*	45.495 N	0.059 W	10 G		1.1	13	FRANCE. ML 3.3 (LDG).
28	07 48 39.8*	41.09 N	28.49 E	10 G		0.1	4	TURKEY
28	09 55 27.7*	22.618 S	172.178 E	33 N	4.9 4.2	1.3	22	LOYALTY ISLANDS REGION
28	11 46 01.7*	7.93 S	128.43 E	145 ?	4.1	1.2	6	BANDA SEA
28	11 54 01.5	40.196 N	28.961 E	9		0.7	15	TURKEY. Felt at Bursa.
28	12 11 33.5*	3.025 S	130.473 E	33 N	4.9	1.3	20	CERAM
28	13 10 44.1*	44.781 N	7.705 E	10 G		0.6	6	NORTHERN ITALY. ML 2.3 (GEN).
28	13 11 51.2*	43.247 N	12.480 E	10 G		0.3	5	CENTRAL ITALY
28	13 19 28.6*	43.63 N	148.24 E	33 N		1.5	7	KURIL ISLANDS REGION
28	13 29 14.4	34.234 N	24.729 E	57 D	5.4	1.1	297	CRETE. MD 5.1 (ATH).
28	14 30 26.5	58.536 N	0.232 E	0 G		0.8	16	NORTH SEA. ML 3.2 (BGS), 2.8 (BER). Probable explosion.
28	14 55 27.1*	37.121 N	69.485 E	33 N	4.1	1.2	10	AFGHANISTAN-USSR BORDER REGION
28	15 08 08.4*	11.15 N	61.85 W	33 N		1.0	6	WINDWARD ISLANDS. MD 3.5 (TRN).
28	15 33 00.3*	60.61 N	6.12 E	0 G		0.9	4	SOUTHERN NORWAY. MD 1.8 (BER). Probable explosion.
28	16 02 14.3*	60.627 N	6.228 E	10 G		0.7	6	SOUTHERN NORWAY. MD 2.0 (BER).
28	16 47 30.7*	1.951 S	128.931 E	53 ?	5.3	1.1	26	HALMAHERA
28	17 05 10.5	29.768 S	177.812 W	53 D	5.2	1.2	69	KERMADEC ISLANDS. Felt (IV) on Raoul Island.
28	17 44 25.6*	40.108 N	29.364 E	10 G		0.8	7	TURKEY
28	17 51 48.5	39.264 N	23.677 E	10 G		1.2	17	AEGEAN SEA. ML 3.1 (ATH).
28	18 12 54.2*	36.230 N	120.840 W	5			16	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK).
28	18 21 22.9*	30.916 S	117.144 E	10 G		0.5	5	WESTERN AUSTRALIA
28	18 30 33.6	35.548 N	27.386 E	22		1.4	18	DODECANESE ISLANDS. MD 3.8 (ATH).
28	20 21 29.3*	60.307 N	152.002 W	75	4.2		42	SOUTHERN ALASKA. <AGS-P>.
28	20 27 20.4*	26.43 N	72.33 E	33 N		0.6	7	NORTHERN INDIA
28	20 40 38.5	33.742 N	65.105 E	23 ?	4.6	1.0	33	AFGHANISTAN
28	20 46 50.9	40.611 N	20.857 E	10 G		1.5	11	GREECE-ALBANIA BORDER REGION. MD 3.2 (ATH). ML 2.8 (SKO).
28	21 17 46.3*	40.669 N	20.858 E	10 G		1.1	5	GREECE-ALBANIA BORDER REGION. ML 2.5 (SKO).
28	21 59 04.0*	24.40 N	123.50 E	27 ?		1.4	5	SOUTHWESTERN RYUKYU ISLANDS

28	22	37	29.4*	7.122 S	72.313 E	10 G	4.8	0 5	10	CHAGOS ARCHIPELAGO REGION. Felt (IV) on Diego Garcia.
28	22	40	30.3%	39.523 N	29.015 E	10 G		0.8	5	TURKEY
28	23	53	02.6%	33.380 S	70.721 W	33 N		1.6	6	CHILE-ARGENTINA BORDER REGION
29	00	14	53.8	27.150 N	140.436 E	284	5.0	1.0	156	BONIN ISLANDS REGION. Felt (II JMA) on Chichi-shima.
29	00	43	20.87	39.22 N	23.58 E	10 G		0.7	4	AEGEAN SEA. ML 2.8 (ATH).
29	00	49	20.8	44.724 N	111.074 W	5 G		0.7	8	HEBGEN LAKE REGION. ML 3.3 (BUT).
29	01	10	31.9*	5.854 S	128.712 E	306 *	4.4	1.1	21	BANDA SEA
29	02	14	01.67	43.01 N	11.78 E	10 G		1.1	4	CENTRAL ITALY
29	03	31	28.6*	5.638 S	129.610 E	168 *	4.9	1.1	16	BANDA SEA
29	03	44	15.3	16.987 N	62.283 W	10 G		0.5	6	LEEWARD ISLANDS. ML 3.0 (FDF).
29	04	06	12.3	18.350 S	72.279 W	42 D	5.3	1.1	137	OFF COAST OF NORTHERN CHILE. Felt.
29	07	11	57.7&	40.903 N	121.128 W	29			9	NORTHERN CALIFORNIA. <BRK>. ML 3.0 (BRK).
29	08	15	32.2	42.315 N	20.006 E	10 G	3.8	1.1	65	YUGOSLAVIA. MD 3.7 (TTG). ML 3.5 (SKD). Felt (V) at Nikaj and Fierze and (IV) at Bajram Curri, Fush-Arrez and Miliskaj, Albania.
29	08	44	07.2?	18.16 N	67.14 W	33 N		0.5	4	MONA PASSAGE
29	09	29	49.5&	34.910 N	118.990 W	14			62	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.8 (PAS), 4.1 (BRK). Felt (V) at Lebec; (IV) at Frazier Park; (III) at Mettler and Taft.
29	09	58	30.4	4.792 S	152.559 E	82 *	5.2	1.0	32	NEW BRITAIN REGION
29	11	52	13.9%	60.571 N	4.962 E	10 G		0.4	7	SOUTHERN NORWAY. MD 1.8 (BER).
29	13	00	58.6*	25.356 S	70.109 W	57 *	4.4	0.8	18	NEAR COAST OF NORTHERN CHILE
29	13	24	43.3*	17.271 N	121.358 E	52 *	4.9	0.9	19	LUZON, PHILIPPINE ISLANDS
29	13	54	19.3?	39.66 N	23.63 E	10 G		1.1	4	AEGEAN SEA. MD 3.3 (ATH).
29	14	07	53.87	62.46 N	6.37 E	10 G		0.2	4	SOUTHERN NORWAY. MD 2.0 (BER).
29	15	15	00.2&	58.500 N	142.687 W	10 G			36	GULF OF ALASKA. <AGS-P>.
29	15	56	18.0*	15.005 N	94.782 W	68 *		1.0	20	NEAR COAST OF OAXACA, MEXICO
29	16	54	11.4&	60.172 N	153.276 W	137			41	SOUTHERN ALASKA. <AGS-P>.
29	17	58	27.7?	36.21 N	8.92 W	10 G		1.0	5	WEST OF GIBRALTAR
29	19	10	54.5*	5.541 S	154.494 E	161	4.7	0.8	19	SOLOMON ISLANDS
29	19	51	45.0	33.925 N	24.755 E	52 *	4.1	1.0	42	MEDITERRANEAN SEA
29	21	32	54.8	36.397 N	70.521 E	212 D	4.7	0.9	169	HINDU KUSH REGION
29	21	34	31.6	39.324 N	29.020 E	10 G		0.7	16	TURKEY
29	22	04	45.9	44.625 N	7.032 E	10 G		0.4	13	NORTHERN ITALY. ML 2.1 (LDG), 2.0 (GEN).
29	22	56	59.8&	57.379 N	142.901 W	10 G			29	GULF OF ALASKA. <AGS-P>.
29	23	22	28.6*	10.405 N	62.545 W	10 G		0.7	20	NEAR COAST OF VENEZUELA. MD 3.9 (TRN).
30	00	36	13.5*	42.407 N	19.917 E	10 G		1.0	7	YUGOSLAVIA
30	01	39	45.6*	29.562 N	142.758 E	33 N	4.9	0.8	13	SOUTH OF HONSHU, JAPAN
30	03	03	48.9*	23.811 N	121.852 E	22 *		1.5	7	TAIWAN
30	03	07	23.0	16.197 N	93.061 W	162	4.8	0.9	101	CHIAPAS, MEXICO
30	03	20	14.9%	45.508 N	3.605 E	10 G		1.1	10	FRANCE. ML 2.6 (LDG).
30	03	36	42.9	5.060 N	127.188 E	91 *	5.4	1.0	68	PHILIPPINE ISLANDS REGION
30	03	40	59.5	26.649 S	26.774 E	5 G	4.8	1.2	48	REPUBLIC OF SOUTH AFRICA
30	04	58	48.7*	38.807 N	26.296 E	10 G		1.4	7	AEGEAN SEA. MD 3.2 (ATH).
30	05	44	56.3*	6.783 S	129.478 E	146 ?	4.5	0.8	16	BANDA SEA
30	06	44	42.7*	40.680 N	29.887 E	10 G		0.6	5	TURKEY
30	07	30	50.9*	53.729 S	140.462 E	10 G	4.8 4.3	1.1	15	WEST OF MACQUARIE ISLAND
30	08	20	39.5%	18.189 N	67.062 W	10 G		0.6	6	MONA PASSAGE. Felt at Mayaguez, Caba Raja and Aguada, Puerto Rico.
30	08	36	32.6*	23.037 S	66.595 W	291 *		1.4	17	JUJUY PROVINCE, ARGENTINA
30	09	41	03.0?	15.28 S	173.53 W	33 N	4.7	0.6	19	TONGA ISLANDS
30	09	44	54.3*	7.579 S	75.596 W	33 N		1.4	13	NORTHERN PERU
30	09	50	05.5	44.609 N	7.037 E	10 G		0.4	9	NORTHERN ITALY. ML 2.3 (GEN), 2.3 (LDG).
30	10	06	37.4%	39.178 N	27.538 E	10 G		0.8	5	TURKEY
30	10	23	41.4?	3.27 S	141.10 E	133 ?	4.3	1.4	7	PAPUA NEW GUINEA
30	10	32	16.6	58.404 N	153.937 W	87	4.7	1.0	110	KODIAK ISLAND REGION
30	10	45	21.9?	22.72 S	66.61 W	287 ?	4.0	1.0	8	JUJUY PROVINCE, ARGENTINA
30	12	46	25.6	19.904 S	133.645 E	5 G	5.3	1.4	7	NORTHERN TERRITORY, AUSTRALIA
30	13	33	17.0&	58.310 N	137.388 W	10 G			7	SOUTHEASTERN ALASKA. <AGS-P>.
30	13	38	37.0*	19.349 N	65.400 W	33 N		0.9	9	PUERTO RICO REGION
30	14	08	30.8	43.722 N	17.191 E	10 G		1.4	12	YUGOSLAVIA. ML 2.9 (TTG).
30	14	12	12.9	41.835 N	143.659 E	23 D	5.4 5.0	0.9	210	HOKKAIDO, JAPAN REGION
30	16	36	24.5	41.081 N	43.915 E	10 G	4.6	1.2	73	TURKEY-USSR BORDER REGION. Some damage and 270 cattle killed in the Spitak area, USSR.
30	16	55	06.5?	7.82 S	129.57 E	168 ?	4.2	1.2	6	BANDA SEA
30	17	24	55.0?	39.01 N	27.00 E	10 G		0.9	5	TURKEY
30	18	22	55.1?	39.70 N	15.57 E	293 *	3.5	0.6	7	SOUTHERN ITALY
30	18	59	00.7	39.259 N	23.559 E	10		1.0	13	AEGEAN SEA. ML 3.1 (ATH).
30	19	42	34.8?	18.63 N	67.92 W	26 *		0.4	6	MONA PASSAGE
30	20	10	06.4	16.112 N	119.713 E	35 *	5.0	1.1	20	LUZON, PHILIPPINE ISLANDS
30	20	38	35.4*	22.491 N	121.914 E	21	4.6	1.2	24	TAIWAN REGION
30	20	39	29.3	19.589 S	175.848 W	230 D	5.8	0.9	257	TONGA ISLANDS. mb 5.6 (BRK).
30	20	54	11.9*	36.563 N	70.882 E	170 ?	4.2	0.7	7	HINDU KUSH REGION
30	21	13	27.3	35.363 N	22.728 E	63 *		1.0	28	MEDITERRANEAN SEA. MD 3.8 (ATH).
30	21	51	19.6%	37.644 N	17.482 E	10 G		0.7	8	IONIAN SEA
30	22	03	43.3	41.852 N	19.743 E	10 G		1.0	23	ALBANIA. MD 2.6 (TTG).
30	22	48	37.8?	45.14 N	3.13 E	10 G		1.8	4	FRANCE. ML 2.1 (LDG).
30	23	20	18.7%	39.331 N	28.994 E	10 G		0.8	9	TURKEY
31	00	44	13.8	31.869 N	37.535 E	28	4.6	1.2	83	JORDAN - SYRIA REGION. Felt in Jordan and in the Jordan-Saudi Arabia-Israel border region.
31	01	02	45.5?	31.88 N	37.23 E	10 G		0.2	6	JORDAN - SYRIA REGION. Felt in the Jordan-Saudi Arabia border area.
31	02	05	16.7%	45.305 N	0.957 W	10 G		1.1	15	FRANCE. ML 3.1 (LDG).
31	02	15	27.9	44.226 N	11.950 E	10 G		1.1	13	NORTHERN ITALY. MD 2.6 (FIR).
31	02	58	44.0	39.657 N	9.360 W	10 G		0.7	14	PORTUGAL. MG 3.5 (MDD).
31	03	23	15.6?	46.28 N	15.19 E	10 G		0.1	4	YUGOSLAVIA. MD 1.9 (TRI).
31	03	33	12.0*	31.270 N	66.873 E	10 G	4.2	1.1	12	AFGHANISTAN
31	04	00	04.5	30.956 S	116.924 E	10 G		1.2	8	WESTERN AUSTRALIA
31	04	06	58.4&	60.162 N	152.782 W	110 G			10	SOUTHERN ALASKA. <AGS-P>.
31	05	45	58.1*	5.584 N	77.483 W	27 *	4.8 3.8	1.4	16	NEAR WEST COAST OF COLOMBIA
31	06	33	04.3?	43.30 N	5.40 E	10 G		0.3	6	NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).
31	06	50	39.1	1.721 S	12.783 W	10 G	5.0 4.8	1.2	86	NORTH OF ASCENSION ISLAND
31	07	02	39.3*	1.592 S	12.590 W	10 G	4.8 5.0	1.0	35	NORTH OF ASCENSION ISLAND

31	07 03 48.3?	2.99 S	13.89 W	10 G	4.7	1.1	15	NORTH OF ASCENSION ISLAND
31	07 43 31.1*	1.227 S	12.760 W	10 G	4.5	0.2	8	NORTH OF ASCENSION ISLAND
31	08 05 44.6%	39.115 N	27.682 E	10 G		0.3	6	TURKEY
31	08 07 16.5	14.962 N	60.570 W	51 *		0.5	19	WINDWARD ISLANDS. MD 3.4 (TRN).
31	08 28 16.2	36.997 N	69.554 E	33 N	4.7	1.1	42	HINDU KUSH REGION
31	09 22 00.9?	1.29 S	13.64 W	10 G	4.8	0.6	7	NORTH OF ASCENSION ISLAND
31	09 31 56.0	24.115 S	66.672 W	198	4.6	0.7	42	SALTA PROVINCE, ARGENTINA
31	09 52 02.4?	37.76 N	29.30 E	10 G		0.7	4	TURKEY
31	10 40 16.9	52.733 N	34.954 W	10 G	4.6 4.0	1.0	82	NORTH ATLANTIC OCEAN
31	11 09 34.9%	60.653 N	6.336 E	10 G		0.5	5	SOUTHERN NORWAY. MD 1.8 (BER).
31	12 26 34.0	42.480 N	24.189 E	33 N		0.2	6	BULGARIA
31	14 28 49.3%	62.178 N	150.736 W	67			34	CENTRAL ALASKA. <AGS-P>.
31	14 44 04.8?	33.35 S	69.09 W	158 *		0.6	7	CHILE-ARGENTINA BORDER REGION
31	15 12 53.3?	37.26 N	2.35 W	10 G		0.3	4	SPAIN. MG 2.7 (MDD).
31	15 38 03.7	72.754 N	4.359 E	10 G	4.4	1.3	6	NORWEGIAN SEA
31	15 51 33.6?	16.15 N	61.90 W	186 ?		0.3	12	LEEWARD ISLANDS
31	15 53 55.3	73.541 N	7.377 E	10 G	4.4	1.0	25	GREENLAND SEA
31	18 00 31.5?	44.33 N	110.53 W	5 G		0.3	4	YELLOWSTONE NATIONAL PARK, WYO. ML 3.0 (NEIS). Felt (IV) at Lake Ranger Station, (III) at Bridge Bay and (II) at East Entrance.
31	18 05 17.0%	18.838 N	155.263 W	28	4.0		24	HAWAII. <HVO-P>. MD 4.1 (HVO). Felt at Pahala.
31	19 24 48.6%	45.457 N	0.361 W	10 G		0.7	8	FRANCE. ML 2.6 (LDG).
31	21 08 13.1*	0.208 S	123.698 E	142 ?	4.2	1.0	11	MINAHASSA PENINSULA
31	21 42 46.6%	47.892 N	6.491 E	10 G		0.9	5	FRANCE. ML 2.1 (LDG).
31	22 06 14.9*	35.731 N	46.238 E	10 G		1.3	10	IRAN-IRAQ BORDER REGION
31	23 46 53.5%	58.647 N	155.239 W	148			27	ALASKA PENINSULA. <AGS-P>.

ADDITIONAL SOURCE PARAMETERS

01 02 42 03.52	43.972N 148.968E	47km	Centroid Location:	T Val= 6.03	Plg=58	Azm=343
5.7mb (60 obs.)	5.8Msz (22 obs.)		Origin Time	N	0.67	22 113
KURIL ISLANDS REGION			Lat 43.69N 0.14 Lon 149.85E	P	-6.69	22 212
CENTROID, MOMENT TENSOR (HRV)			Dep 33.710.5 Half-duration 1.5	Best Double Couple: Mo=6.4*10**16		
Data Used: GDSN			Principal Axes:	NP1: Strike=337 Dip=30 Slip= 138		
L.P.B.: 14S, 32C			Scale 10**16 Nm	NP2: 105 71 67		
Centroid Location:			T Val= 6.47	Plg=63	Azm=298	
Origin Time	02:42: 3.9 0.3		N	1.13	6	40
Lat 44.08N 0.03 Lon 149.54E	0.05		P	-7.60	26	133
Dep 28.5 2.1 Half-duration 3.2			Best Double Couple: Mo=7.0*10**16			
Principal Axes:			NP1: Strike=236 Dip=20 Slip= 108			
Scale 10**17 Nm			NP2: 38 71 84			
T Val= 6.70	Plg=71	Azm=311	02 07 13 46.15	18.383N	68.659W	134km
N	0.90	0 220	5.6mb (75 obs.)			
P	-7.61	19 130	MONA PASSAGE			
Best Double Couple: Mo=7.1*10**17			CENTROID, MOMENT TENSOR (HRV)			
NP1: Strike=220 Dip=26 Slip= 89			Data Used: GDSN			
NP2: 40 64 90			L.P.B.: 12S, 26C			
01 03 25 05.36	21.754N 97.941E	16km	Centroid Location:			
5.2mb (39 obs.)	5.4Msz (5 obs.)		Origin Time	07:13:48.4	0.4	
BURMA			Lat 18.60N 0.05 Lon 98.77W	0.07		
CENTROID, MOMENT TENSOR (HRV)			Dep 116.1 1.9 Half-duration 2.1			
Data Used: GDSN			Principal Axes:			
L.P.B.: 12S, 22C			Scale 10**17 Nm			
Centroid Location:			T Val= 1.58	Plg=78	Azm=101	
Origin Time	03:25:10.6	0.4	N	0.46	10	312
Lat 21.61N 0.05 Lon 98.30E	0.04		P	-2.05	6	221
Dep 58.1 3.5 Half-duration 2.8			Best Double Couple: Mo=1.8*10**17			
Principal Axes:			NP1: Strike=300 Dip=40 Slip= 74			
Scale 10**17 Nm			NP2: 141 52 103			
T Val= 5.11	Plg=14	Azm=297	05 20 13 20.61	51.097N	178.991W	33km
N	-0.02	76 124	5.2mb (54 obs.)	4.5Msz (4 obs.)		
P	-5.09	2 27	ANDREANOF ISLANDS, ALEUTIAN IS.			
Best Double Couple: Mo=5.1*10**17			CENTROID, MOMENT TENSOR (HRV)			
NP1: Strike= 73 Dip=79 Slip= 9			Data Used: GDSN			
NP2: 341 82 169			L.P.B.: 14S, 26C			
01 04 26 27.05	5.012S 149.799E	10km	Centroid Location:			
5.2mb (12 obs.)	5.5Msz (1 obs.)		Origin Time	20:13:22.7	0.9	
NEW BRITAIN REGION			Lat 51.46N 0.13 Lon 178.90W	0.16		
CENTROID, MOMENT TENSOR (HRV)			Dep 25.7 5.6 Half-duration 1.5			
Data Used: GDSN			Principal Axes:			
L.P.B.: 10S, 18C			Scale 10**16 Nm			
Centroid Location:			T Val= 8.14	Plg=55	Azm=327	
Origin Time	04:26:30.3	1.2	N	-0.04	6	66
Lat 4.67S 0.12 Lon 149.77E	0.13		P	-8.10	34	160
Dep 15.0 FIX Half-duration 1.6			Best Double Couple: Mo=8.1*10**16			
Principal Axes:			NP1: Strike=274 Dip=12 Slip= 119			
Scale 10**16 Nm			NP2: 65 79 84			
T Val= 10.93	Plg=21	Azm=191	06 07 26 10.13	3.363S	143.899E	33km
N	2.80	20 93	5.2mb (11 obs.)	4.8Msz (3 obs.)		
P	-13.73	60 323	NEAR N COAST OF PAPUA NEW GUINEA			
Best Double Couple: Mo=1.2*10**17			CENTROID, MOMENT TENSOR (HRV)			
NP1: Strike=314 Dip=30 Slip= -45			Data Used: GDSN			
NP2: 85 69 -112			L.P.B.: 12S, 20C			
01 13 08 19.72	43.820N 149.162E	43km	Centroid Location:			
5.4mb (55 obs.)	5.2Msz (4 obs.)		Origin Time	07:26:12.8	0.9	
KURIL ISLANDS REGION			Lat 2.96S 0.13 Lon 143.45E	0.13		
CENTROID, MOMENT TENSOR (HRV)			Dep 15.0 FIX Half-duration 1.5			
Data Used: GDSN			Principal Axes:			
L.P.B.: 9S, 17C			Scale 10**16 Nm			
06 02 34 25.85	0.206S 124.885E	35km	T Val= 1.39	Plg=63	Azm=255	
5.8mb (56 obs.)	5.2Msz (14 obs.)		N	0.16	8	0
MOLUCCA SEA			P	-1.55	25	94
FAULT PLANE SOLUTION: P-Waves			Best Double Couple: Mo=1.5*10**18			
NP1: Strike= 2 Dip=78 Slip= 142			NP1: Strike=201 Dip=21 Slip= 112			
NP2: 101 53 15			NP2: 358 71 82			
Principal Axes:			T	Plg=35	Azm=315	
P	16	57	Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip			

faulting with a large reverse component. The preferred fault plane is not determined.

RADIATED ENERGY
No. of sta: 5 Focal mech. M
Energy $9.1 \pm 2.2 \times 10^{+12}$ Nm

MOMENT TENSOR SOLUTION
Dep 35 No. of sta: 13

Principal Axes:
Scale 10^{+17} Nm
T Val= 8.14 Plg=56 Azm=264
N -0.13 1 355
P -8.01 34 86
Best Double Couple: Mo=8.1*10⁺¹⁷
NP1: Strike=179 Dip=11 Slip= 94
NP2: 355 79 89

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 33C
Centroid Location:
Origin Time 02:34:30.2 0.3
Lat 0.11S 0.05 Lon 125.42E 0.05
Dep 27.0 BDY Half-duration 3.3

Principal Axes:
Scale 10^{+17} Nm
T Val= 7.69 Plg=59 Azm=263
N -0.75 13 15
P -6.94 28 112
Best Double Couple: Mo=7.3*10⁺¹⁷
NP1: Strike=232 Dip=21 Slip= 129
NP2: 11 74 77

08 03 57 21.57 19.129S 168.681E 65km
5.2mb (15 obs.)
VANUATU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 33C
Centroid Location:
Origin Time 03:57:28.0 0.5
Lat 19.21S 0.06 Lon 168.04E 0.04
Dep 50.0 BDY Half-duration 2.2

Principal Axes:
Scale 10^{+17} Nm
T Val= 1.91 Plg=82 Azm= 13
N 0.55 7 172
P -2.46 3 262
Best Double Couple: Mo=2.2*10⁺¹⁷
NP1: Strike= 0 Dip=43 Slip= 101
NP2: 166 48 80

08 05 48 15.74 4.581N 125.874E 101km
5.4mb (31 obs.)
TALAUD ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 28C
Centroid Location:
Origin Time 05:48:18.0 0.4
Lat 4.77N 0.03 Lon 125.79E 0.05
Dep 98.0 2.5 Half-duration 2.5

Principal Axes:
Scale 10^{+17} Nm
T Val= 3.95 Plg=52 Azm=162
N 0.37 38 345
P -4.33 1 254
Best Double Couple: Mo=4.1*10⁺¹⁷
NP1: Strike=311 Dip=55 Slip= 41
NP2: 195 58 137

08 11 44 32.31 1.031N 126.189E 32km
5.9mb (65 obs.) 5.6msz (13 obs.)
MOLUCCA PASSAGE
FAULT PLANE SOLUTION: P-Waves
NP1: Strike=242 Dip=52 Slip= 90
NP2: 62 38 90

Principal Axes:
T Plg=83 Azm=152
P 7 332
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.

RADIATED ENERGY
No. of sta: 9 Focal mech. M
Energy $3.9 \pm 1.2 \times 10^{+13}$ Nm

MOMENT TENSOR SOLUTION
Dep 40 No. of sta: 14

Principal Axes:
Scale 10^{+18} Nm
T Val= 1.51 Plg=63 Azm=243
N 0.01 27 59

P -1.53 1 150
Best Double Couple: Mo=1.5*10⁺¹⁸
NP1: Strike=265 Dip=50 Slip= 127
NP2: 36 52 55

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 36C M.W.: 13S, 26C
Centroid Location:
Origin Time 11:44:38.1 0.1
Lat 1.14N 0.02 Lon 126.38E 0.02
Dep 30.8 BDY Half-duration 4.0

Principal Axes:
Scale 10^{+18} Nm
T Val= 1.45 Plg=82 Azm=210
N -0.15 8 34
P -1.30 1 304
Best Double Couple: Mo=1.4*10⁺¹⁸
NP1: Strike= 26 Dip=45 Slip= 79
NP2: 222 46 101

08 18 39 42.14 3.095N 31.414W 10km
5.1mb (9 obs.) 5.1msz (1 obs.)
CENTRAL MID-ATLANTIC RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 24C
Centroid Location:
Origin Time 18:39:46.5 1.0
Lat 3.29N FIX; Lon 31.38W FIX
Dep 15.0 FIX Half-duration 1.8

Principal Axes:
Scale 10^{+16} Nm
T Val= 5.80 Plg=21 Azm= 93
N 2.44 27 195
P -8.24 54 332
Best Double Couple: Mo=7.0*10⁺¹⁶
NP1: Strike=145 Dip=34 Slip=-145
NP2: 25 71 -61

09 02 37 00.47 13.710S 34.381E 30km
5.8mb (53 obs.) 5.4msz (14 obs.)
MALAWI
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 30C
Centroid Location:
Origin Time 02:37: 6.0 0.8
Lat 13.44S 0.06 Lon 34.33E 0.06
Dep 15.0 BDY Half-duration 2.5

Principal Axes:
Scale 10^{+17} Nm
T Val= 3.80 Plg=24 Azm= 59
N -0.21 11 154
P -3.58 64 266
Best Double Couple: Mo=3.7*10⁺¹⁷
NP1: Strike=128 Dip=23 Slip=-118
NP2: 338 69 -79

10 05 19 52.34 17.586N 101.013W 44km
5.3mb (32 obs.) 4.8msz (4 obs.)
NEAR COAST OF GUERRERO, MEXICO
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 26C
Centroid Location:
Origin Time 05:19:49.3 0.9
Lat 16.91N 0.08 Lon 100.44W 0.07
Dep 46.8 5.0 Half-duration 1.9

Principal Axes:
Scale 10^{+17} Nm
T Val= 1.49 Plg=61 Azm= 70
N -0.29 23 289
P -1.21 16 192
Best Double Couple: Mo=1.4*10⁺¹⁷
NP1: Strike=251 Dip=35 Slip= 47
NP2: 120 65 116

10 09 10 45.33 6.930S 155.960E 106km
5.2mb (25 obs.)
SOLOMON ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 19C
Centroid Location:
Origin Time 09:10:42.9 0.9
Lat 6.71S 0.09 Lon 156.11E 0.11
Dep 105.5 7.3 Half-duration 1.5

Principal Axes:
Scale 10^{+16} Nm
T Val= 5.87 Plg=66 Azm= 46
N 0.03 12 287
P -5.91 20 192
Best Double Couple: Mo=5.9*10⁺¹⁶

NP1: Strike=262 Dip=27 Slip= 63
NP2: 112 66 103

10 14 14 10.23 4.346S 152.797E 53km
5.6mb (46 obs.) 5.4msz (14 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 37C
Centroid Location:
Origin Time 14:14:14.0 0.2
Lat 4.51S 0.03 Lon 152.87E 0.03
Dep 25.7 2.9 Half-duration 3.1

Principal Axes:
Scale 10^{+17} Nm
T Val= 4.14 Plg= 6 Azm=156
N 2.69 83 309
P -6.83 3 66
Best Double Couple: Mo=5.5*10⁺¹⁷
NP1: Strike=201 Dip=83 Slip= 178
NP2: 291 88 7

10 21 49 45.86 13.702S 34.420E 30km
6.2mb (55 obs.) 6.1msz (31 obs.)
MALAWI
FAULT PLANE SOLUTION: P-Waves
NP1: Strike=327 Dip=66 Slip=-120
NP2: 202 38 -42

Principal Axes:
T Plg=16 Azm= 79
P 58 195
Comment: The focal mechanism is poorly controlled and corresponds to normal faulting with a moderate strike-slip component. The preferred fault plane is NP1.

RADIATED ENERGY
No. of sta: 7 Focal mech. M
Energy $9.8 \pm 3.4 \times 10^{+13}$ Nm

MOMENT TENSOR SOLUTION
Dep 34 No. of sta: 10

Principal Axes:
Scale 10^{+18} Nm
T Val= 5.29 Plg=13 Azm= 59
N -1.96 12 326
P -3.33 72 195
Best Double Couple: Mo=4.3*10⁺¹⁸
NP1: Strike=165 Dip=33 Slip= -67
NP2: 319 59 -104

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 43C M.W.: 11S, 19C
Centroid Location:
Origin Time 21:49:53.8 0.3
Lat 13.40S 0.03 Lon 34.34E 0.02
Dep 15.0 BDY Half-duration 5.0

Principal Axes:
Scale 10^{+18} Nm
T Val= 3.16 Plg=28 Azm= 61
N -0.10 3 153
P -3.06 62 250
Best Double Couple: Mo=3.1*10⁺¹⁸
NP1: Strike=142 Dip=17 Slip=-102
NP2: 334 73 -86

11 04 02 26.89 5.240S 152.535E 48km
5.5mb (24 obs.) 4.5msz (1 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 29C
Centroid Location:
Origin Time 04:02:29.7 0.4
Lat 5.47S 0.04 Lon 152.45E 0.04
Dep 38.0 4.3 Half-duration 2.1

Principal Axes:
Scale 10^{+17} Nm
T Val= 1.67 Plg= 8 Azm=278
N 0.34 82 100
P -2.01 0 8
Best Double Couple: Mo=1.8*10⁺¹⁷
NP1: Strike= 53 Dip=84 Slip= 5
NP2: 322 85 174

11 05 05 00.63 17.766S 174.761W 230km
6.4mb (46 obs.)
TONGA ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1: Strike= 24 Dip=82 Slip= 90
NP2: 204 8 90

Principal Axes:
T Plg=53 Azm=294

P 37 114
 Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
 RADIATED ENERGY
 No. of sta: 8 Focal mech. C
 Energy 1.5±0.4*10**14 Nm
 MOMENT TENSOR SOLUTION
 Dep 233 No. of sta: 12
 Principal Axes:
 Scale 10**19 Nm
 T Val= 2.38 Plg=55 Azm=326
 N 0.29 27 189
 P -2.67 20 88
 Best Double Couple: Mo=2.5*10**19
 NP1: Strike=140 Dip=35 Slip= 36
 NP2: 19 70 119
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 34C M.W.: 16S, 38C
 Centroid Location:
 Origin Time 05:05:10.6 0.1
 Lat 17.78S 0.02 Lon 174.77W 0.01
 Dep 244.0 0.6 Half-duration 10.0
 Principal Axes:
 Scale 10**19 Nm
 T Val= 2.77 Plg=47 Azm=315
 N -0.56 22 199
 P -2.21 34 93
 Best Double Couple: Mo=2.5*10**19
 NP1: Strike=128 Dip=23 Slip= 18
 NP2: 22 83 112

11 19 31 24.61 17.784N 60.925W 33km
 4.8mb (8 obs.) 4.6Msz (1 obs.)
 LEEWARD ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 22C
 Centroid Location:
 Origin Time 19:31:25.8 0.9
 Lat 17.37N 0.13 Lon 60.82W 0.11
 Dep 34.5 7.2 Half-duration 1.5
 Principal Axes:
 Scale 10**16 Nm
 T Val= 5.60 Plg=65 Azm=222
 N 0.78 7 327
 P -6.38 23 61
 Best Double Couple: Mo=6.0*10**16
 NP1: Strike=165 Dip=22 Slip= 109
 NP2: 325 69 82

12 06 58 06.01 2.424N 126.761E 54km
 5.2mb (31 obs.) 4.3Msz (2 obs.)
 MOLUCCA PASSAGE
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 24C
 Centroid Location:
 Origin Time 06:58: 9.3 0.8
 Lat 2.46N 0.18 Lon 126.72E 0.17
 Dep 24.3 6.6 Half-duration 1.5
 Principal Axes:
 Scale 10**16 Nm
 T Val= 6.60 Plg=59 Azm=214
 N 0.75 30 19
 P -7.35 7 113
 Best Double Couple: Mo=7.0*10**16
 NP1: Strike=232 Dip=47 Slip= 134
 NP2: 358 58 54

12 07 28 24.32 29.441S 177.994W 54km
 5.2mb (9 obs.)
 KERMADEC ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 23C
 Centroid Location:
 Origin Time 07:28:26.6 1.0
 Lat 30.14S 0.09 Lon 177.52W 0.09
 Dep 54.5 6.4 Half-duration 1.6
 Principal Axes:
 Scale 10**16 Nm
 T Val= 7.07 Plg=60 Azm=239
 N 1.03 19 6
 P -8.10 22 104
 Best Double Couple: Mo=7.6*10**16
 NP1: Strike=225 Dip=28 Slip= 133
 NP2: 359 70 70

13 03 37 47.16 25.791S 176.912W 71km
 5.1mb (8 obs.)
 SOUTH OF FIJI ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 11S, 18C
 Centroid Location:
 Origin Time 03:37:50.2 1.3
 Lat 26.25S 0.13 Lon 177.08W 0.13
 Dep 91.9 7.2 Half-duration 1.5
 Principal Axes:
 Scale 10**16 Nm
 T Val= 7.94 Plg=38 Azm= 89
 N -1.20 51 252
 P -6.74 8 353
 Best Double Couple: Mo=7.3*10**16
 NP1: Strike=124 Dip=58 Slip= 157
 NP2: 227 71 35

15 04 17 33.41 30.539S 178.008W 57km
 5.2mb (12 obs.) 4.9Msz (5 obs.)
 KERMADEC ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 30C
 Centroid Location:
 Origin Time 04:17:37.4 0.6
 Lat 30.55S 0.05 Lon 177.86W 0.05
 Dep 44.5 2.9 Half-duration 2.3
 Principal Axes:
 Scale 10**17 Nm
 T Val= 2.39 Plg=71 Azm=273
 N 0.33 4 14
 P -2.72 19 106
 Best Double Couple: Mo=2.6*10**17
 NP1: Strike=202 Dip=27 Slip= 99
 NP2: 12 64 86

16 07 23 56.20 63.328S 62.446W 33km
 5.3mb (8 obs.) 4.8Msz (3 obs.)
 SOUTH SHETLAND ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 25C
 Centroid Location:
 Origin Time 07:24: 2.0 0.5
 Lat 63.96S 0.08 Lon 61.41W 0.24
 Dep 15.0 11X Half-duration 1.9
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.40 Plg=34 Azm= 10
 N 0.33 6 104
 P -1.74 56 202
 Best Double Couple: Mo=1.6*10**17
 NP1: Strike= 77 Dip=12 Slip=-118
 NP2: 285 79 -84

16 09 33 57.28 30.270S 177.986W 37km
 5.7mb (37 obs.) 5.5Msz (13 obs.)
 KERMADEC ISLANDS
 FAULT PLANE SOLUTION: P-Waves
 NP1: Strike= 15 Dip=53 Slip= 90
 NP2: 195 37 90
 Principal Axes:
 T Plg=82 Azm=285
 P 8 105
 Comment: The focal mechanism is moderately well controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
 MOMENT TENSOR SOLUTION
 Dep 33 No. of sta: 13
 Principal Axes:
 Scale 10**17 Nm
 T Val= 9.46 Plg=83 Azm=286
 N 0.26 1 23
 P -9.72 7 113
 Best Double Couple: Mo=9.6*10**17
 NP1: Strike=204 Dip=38 Slip= 92
 NP2: 22 52 89
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 38C
 Centroid Location:
 Origin Time 09:34: 6.5 0.4
 Lat 30.25S 0.04 Lon 177.88W 0.03
 Dep 54.5 2.0 Half-duration 3.6
 Principal Axes:
 Scale 10**17 Nm
 T Val= 8.17 Plg=77 Azm=266
 N 2.51 4 15
 P -10.69 12 106
 Best Double Couple: Mo=9.4*10**17

NP1: Strike=201 Dip=33 Slip= 98
 NP2: 12 57 85

16 13 33 37.30 13.673N 120.815E 137km
 5.3mb (34 obs.)
 MINDORO, PHILIPPINE ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 14S, 25C
 Centroid Location:
 Origin Time 13:33:35.3 0.6
 Lat 13.42N 0.05 Lon 120.39E 0.09
 Dep 138.1 2.5 Half-duration 2.1
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.87 Plg=73 Azm=292
 N -0.13 13 150
 P -1.73 10 58
 Best Double Couple: Mo=1.8*10**17
 NP1: Strike=132 Dip=37 Slip= 67
 NP2: 339 57 106

16 17 12 22.44 16.927S 65.005W 44km
 5.1mb (17 obs.) 5.4Msz (3 obs.)
 BOLIVIA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 14S, 27C
 Centroid Location:
 Origin Time 17:12:26.2 0.6
 Lat 16.80S 0.10 Lon 65.07W 0.10
 Dep 35.4 6.8 Half-duration 1.7
 Principal Axes:
 Scale 10**16 Nm
 T Val= 8.36 Plg=52 Azm=217
 N 0.89 5 314
 P -9.25 38 48
 Best Double Couple: Mo=8.8*10**16
 NP1: Strike=171 Dip= 9 Slip= 127
 NP2: 313 83 85

17 02 21 55.15 27.141N 127.406E 87km
 5.8mb (84 obs.)
 RYUKYU ISLANDS
 FAULT PLANE SOLUTION: P-Waves
 NP1: Strike=238 Dip=85 Slip= 110
 NP2: 341 21 14
 Principal Axes:
 T Plg=46 Azm=169
 P 37 310
 Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting with a moderate strike-slip component. The preferred fault plane is not determined.
 RADIATED ENERGY
 No. of sta: 5 Focal mech. F
 Energy 4.6±0.7*10**12 Nm
 MOMENT TENSOR SOLUTION
 Dep 96 No. of sta: 8
 Principal Axes:
 Scale 10**17 Nm
 T Val= 4.52 Plg=47 Azm=168
 N 0.14 12 65
 P -4.66 41 325
 Best Double Couple: Mo=4.6*10**17
 NP1: Strike=349 Dip=12 Slip= 14
 NP2: 246 87 102
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 32C
 Centroid Location:
 Origin Time 02:21:59.3 0.3
 Lat 26.82N 0.03 Lon 127.08E 0.06
 Dep 102.8 3.1 Half-duration 2.7
 Principal Axes:
 Scale 10**17 Nm
 T Val= 4.10 Plg=47 Azm=171
 N 0.37 17 62
 P -4.47 38 318
 Best Double Couple: Mo=4.3*10**17
 NP1: Strike=348 Dip=18 Slip= 16
 NP2: 243 85 107

17 05 42 54.43 34.662N 25.450E 31km
 4.8mb (45 obs.) 5.2Msz (1 obs.)
 CRETE
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 14S, 24C
 Centroid Location:

Origin Time 05:42:53.3 1.0
Lat 34.51N 0.10 Lon 25.53E 0.10
Dep 17.0 FIX Half-duration 2.2
Principal Axes:
Scale 10**17 Nm
T Val= 4.19 Plg=36 Azm= 11
N -0.27 5 104
P -3.92 54 201
Best Double Couple:Ma=4.1*10**17
NP1:Strike= 77 Dip=10 Slip=-118
NP2: 285 81 -85

17 13 38 39.78 5.851S 146.596E 43km
5.7mb (39 obs.) 5.5msz (16 obs.)
EAST PAPUA NEW GUINEA REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 40C
Centroid Location:
Origin Time 13:38:46.6 0.2
Lat 5.97S 0.02 Lon 146.63E 0.02
Dep 54.8 2.1 Half-duration 3.5
Principal Axes:
Scale 10**17 Nm
T Val= 6.83 Plg=84 Azm= 92
N 1.74 6 278
P -8.57 1 187
Best Double Couple:Ma=7.7*10**17
NP1:Strike=272 Dip=45 Slip= 82
NP2: 103 46 98

17 16 37 17.65 35.673N 140.668E 44km
5.4mb (57 obs.) 4.8msz (4 obs.)
NEAR EAST COAST OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 27C
Centroid Location:
Origin Time 16:37:21.9 0.6
Lat 35.55N 0.06 Lon 140.50E 0.06
Dep 29.2 4.4 Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.44 Plg=73 Azm=274
N 0.31 1 7
P -1.75 17 97
Best Double Couple:Ma=1.6*10**17
NP1:Strike=188 Dip=28 Slip= 92
NP2: 6 62 89

17 19 33 08.60 34.479S 178.394W 59km
5.7mb (34 obs.)
SOUTH OF KERMADEC ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 39 Dip=55 Slip= 90
NP2: 219 35 90
Principal Axes:
T Plg=80 Azm=309
P 10 129
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 44 No. of sta: 11
Principal Axes:
Scale 10**18 Nm
T Val= 2.12 Plg=82 Azm=119
N -0.02 1 215
P -2.10 8 305
Best Double Couple:Ma=2.1*10**18
NP1:Strike= 36 Dip=37 Slip= 91
NP2: 214 53 89
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 37C
Centroid Location:
Origin Time 19:33:13.2 0.4
Lat 34.30S 0.03 Lon 178.31W 0.03
Dep 63.2 1.7 Half-duration 4.5
Principal Axes:
Scale 10**18 Nm
T Val= 1.54 Plg=72 Azm=204
N 0.70 18 26
P -2.23 1 295
Best Double Couple:Ma=1.9*10**18
NP1:Strike= 8 Dip=47 Slip= 65
NP2: 223 48 115

18 13 37 48.97 23.644S 178.896E 536km
5.2mb (32 obs.)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 35C
Centroid Location:
Origin Time 13:38:07.7 0.6
Lat 23.54S 0.05 Lon 178.54E 0.05
Dep 577.3 2.0 Half-duration 2.5
Principal Axes:
Scale 10**17 Nm
T Val= 2.73 Plg=20 Azm=307
N 0.87 34 202
P -3.61 49 62
Best Double Couple:Ma=3.2*10**17
NP1:Strike= 79 Dip=39 Slip= -27
NP2: 191 73 -126

19 00 33 22.49 12.754N 143.459E 113km
5.3mb (23 obs.)
SOUTH OF MARIANA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 22C
Centroid Location:
Origin Time 00:33:29.6 1.2
Lat 12.49N 0.11 Lon 143.26E 0.09
Dep 109.5 4.8 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 7.13 Plg=10 Azm= 77
N 0.40 54 334
P -7.53 34 174
Best Double Couple:Ma=7.3*10**16
NP1:Strike=210 Dip=59 Slip= -19
NP2: 310 74 -147

19 01 29 35.69 38.015S 93.747W 10km
5.2mb (11 obs.) 4.6msz (1 obs.)
WEST CHILE RISE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 24C
Centroid Location:
Origin Time 01:29:41.6 0.5
Lat 37.95S 0.05 Lon 93.98W 0.07
Dep 15.0 FIX Half-duration 1.8
Principal Axes:
Scale 10**16 Nm
T Val= 11.64 Plg= 0 Azm=122
N -2.06 90 180
P -9.58 0 32
Best Double Couple:Ma=1.1*10**17
NP1:Strike=167 Dip=90 Slip= 180
NP2: 257 90 0

19 02 38 52.07 1.573N 126.656E 71km
5.2mb (11 obs.)
MOLUCCA PASSAGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 16C
Centroid Location:
Origin Time 02:38:58.0 1.4
Lat 1.38N 0.11 Lon 126.07E 0.16
Dep 70.0 FIX Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 8.91 Plg=29 Azm=209
N -2.51 61 29
P -6.40 0 119
Best Double Couple:Ma=7.7*10**16
NP1:Strike=251 Dip=70 Slip= 159
NP2: 348 70 21

19 05 36 58.94 39.254N 23.516E 10km
5.2mb (56 obs.) 5.3msz (10 obs.)
AEGEAN SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 32C
Centroid Location:
Origin Time 05:37:2.5 0.6
Lat 38.61N 0.08 Lon 23.53E 0.05
Dep 15.0 FIX Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.14 Plg= 0 Azm=185
N 0.60 90 180
P -1.75 0 95
Best Double Couple:Ma=1.4*10**17
NP1:Strike=230 Dip=90 Slip= 180
NP2: 320 90 0

20 01 06 32.90 59.883N 153.692W 127km
5.1mb (52 obs.)
SOUTHERN ALASKA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 34C
Centroid Location:
Origin Time 01:06:37.9 0.5
Lat 59.78N 0.05 Lon 154.01W 0.08
Dep 137.8 1.7 Half-duration 1.9
Principal Axes:
Scale 10**17 Nm
T Val= 1.68 Plg=47 Azm=267
N -0.35 43 82
P -1.34 2 175
Best Double Couple:Ma=1.5*10**17
NP1:Strike=300 Dip=57 Slip= 144
NP2: 51 61 39

20 02 36 50.33 24.240N 125.174E 29km
5.3mb (34 obs.) 5.4msz (3 obs.)
SOUTHWESTERN RYUKYU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 21C
Centroid Location:
Origin Time 02:36:53.5 0.8
Lat 23.96N 0.09 Lon 124.67E 0.14
Dep 63.1 6.5 Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Val= 7.89 Plg=70 Azm=293
N 5.26 8 48
P -13.15 18 140
Best Double Couple:Ma=1.1*10**17
NP1:Strike=244 Dip=28 Slip= 108
NP2: 43 63 81

20 10 41 11.35 2.349N 84.538W 10km
5.2mb (25 obs.) 5.1msz (1 obs.)
OFF COAST OF CENTRAL AMERICA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 28C
Centroid Location:
Origin Time 10:41:12.7 0.9
Lat 1.79N 0.09 Lon 84.82W 0.09
Dep 15.0 FIX Half-duration 1.8
Principal Axes:
Scale 10**17 Nm
T Val= 0.90 Plg=21 Azm=354
N 0.47 1 84
P -1.36 69 175
Best Double Couple:Ma=1.1*10**17
NP1:Strike= 83 Dip=24 Slip= -91
NP2: 264 66 -89

21 02 00 51.87 36.924N 134.453E 397km
4.7mb (27 obs.)
SEA OF JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 13C
Centroid Location:
Origin Time 02:00:49.1 1.9
Lat 36.31N 0.16 Lon 134.80E 0.18
Dep 384.4 9.3 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 6.10 Plg=55 Azm= 43
N 0.12 13 153
P -6.23 31 251
Best Double Couple:Ma=6.2*10**16
NP1:Strike= 18 Dip=18 Slip= 137
NP2: 150 78 76

22 12 40 51.29 23.423N 45.005W 10km
5.1mb (34 obs.) 5.3msz (6 obs.)
NORTH ATLANTIC RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 27C
Centroid Location:
Origin Time 12:40:59.3 0.4
Lat 23.13N 0.06 Lon 44.62W 0.07
Dep 15.0 FIX Half-duration 1.9
Principal Axes:
Scale 10**17 Nm
T Val= 1.40 Plg= 1 Azm=272
N 0.10 18 2
P -1.50 72 178
Best Double Couple:Ma=1.4*10**17
NP1:Strike=344 Dip=47 Slip=-116
NP2: 199 49 -65

22 18 10 53.66 20.748S 178.689W 571km
5.1mb (35 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 18C
Centroid Location:
Origin Time 18:11: 1.7 0.7
Lat 20.58S 0.10 Lon 179.18W 0.08
Dep 589.0 4.7 Half-duration 2.1
Principal Axes:
Scale 10**17 Nm
T Vol= 1.57 Plg=14 Azm= 42
N 0.52 31 141
P -2.10 56 292
Best Double Couple:Mo=1.8*10**17
NP1:Strike= 98 Dip=41 Slip=-141
NP2: 337 65 -56

23 07 38 47.55 6.960S 72.318E 10km
5.1mb (24 obs.)
CHAGOS ARCHIPELAGO REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 14C
Centroid Location:
Origin Time 07:38:54.3 1.4
Lat 7.58S 0.19 Lon 72.11E 0.16
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Vol= 7.60 Plg=40 Azm=342
N -1.38 11 82
P -6.22 48 185
Best Double Couple:Mo=6.9*10**16
NP1:Strike= 13 Dip=12 Slip=-159
NP2: 263 86 -79

23 09 31 24.17 33.788N 141.395E 49km
5.6mb (67 obs.) 4.9Msz (8 obs.)
OFF EAST COAST OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 16C
Centroid Location:
Origin Time 09:31:23.0 0.5
Lat 33.99N 0.09 Lon 141.19E 0.09
Dep 20.3 5.8 Half-duration 1.8
Principal Axes:
Scale 10**16 Nm
T Vol= 9.72 Plg=23 Azm=201
N -0.56 4 293
P -9.16 66 33
Best Double Couple:Mo=9.4*10**16
NP1:Strike=282 Dip=22 Slip=-102
NP2: 115 69 -85

24 09 49 31.33 58.887S 148.783E 10km
5.3mb (8 obs.) 5.6Msz (6 obs.)
WEST OF MACQUARIE ISLAND
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 30C
Centroid Location:
Origin Time 09:49:44.8 0.3
Lat 58.52S 0.05 Lon 147.99E 0.07
Dep 15.0 FIX Half-duration 3.5
Principal Axes:
Scale 10**17 Nm
T Vol= 8.78 Plg=20 Azm=208
N -0.05 68 52
P -8.73 8 301
Best Double Couple:Mo=8.8*10**17
NP1:Strike=346 Dip=70 Slip= 9
NP2: 253 82 160

24 15 31 29.91 11.329N 86.404W 68km
5.2mb (24 obs.)
NEAR COAST OF NICARAGUA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 25C
Centroid Location:
Origin Time 15:31:37.1 0.6
Lat 11.27N FIX:Lon 86.46W FIX
Dep 48.3 7.0 Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Vol= 9.17 Plg=50 Azm=109

N 0.76 40 284
P -9.92 2 16
Best Double Couple:Mo=9.5*10**16
NP1:Strike=139 Dip=55 Slip= 141
NP2: 254 59 42

25 16 57 03.29 29.744S 177.796W 54km
5.0mb (10 obs.)
KERMADEC ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 18C
Centroid Location:
Origin Time 16:57: 1.9 1.5
Lat 30.42S 0.11 Lon 177.34W 0.14
Dep 42.7 7.9 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Vol= 5.19 Plg=68 Azm=251
N 1.34 11 12
P -6.53 18 106
Best Double Couple:Mo=5.9*10**16
NP1:Strike=214 Dip=29 Slip= 115
NP2: 6 64 77

26 02 55 47.71 19.294N 121.111E 34km
5.2mb (20 obs.) 5.1Msz (7 obs.)
PHILIPPINE ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 19C
Centroid Location:
Origin Time 02:55:49.8 0.5
Lat 19.35N 0.08 Lon 121.57E 0.10
Dep 15.0 FIX Half-duration 2.2
Principal Axes:
Scale 10**17 Nm
T Vol= 2.59 Plg=65 Azm=120
N 0.26 3 217
P -2.85 25 309
Best Double Couple:Mo=2.7*10**17
NP1:Strike= 46 Dip=20 Slip= 99
NP2: 216 70 87

26 06 39 49.15 14.765S 73.963W 108km
5.4mb (33 obs.)
PERU
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 20C
Centroid Location:
Origin Time 06:39:55.2 0.5
Lat 14.38S 0.07 Lon 74.30W 0.09
Dep 101.8 4.0 Half-duration 1.8
Principal Axes:
Scale 10**17 Nm
T Vol= 1.32 Plg=11 Azm=266
N -0.07 59 156
P -1.25 28 2
Best Double Couple:Mo=1.3*10**17
NP1:Strike= 40 Dip=62 Slip= -13
NP2: 136 79 -151

27 15 45 44.58 12.147N 144.161E 33km
5.3mb (40 obs.) 4.9Msz (9 obs.)
SOUTH OF MARIANA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 22C
Centroid Location:
Origin Time 15:45:47.4 0.9
Lat 12.20N 0.10 Lon 144.10E 0.08
Dep 37.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Vol= 8.44 Plg=18 Azm=178
N 1.48 71 340
P -9.91 6 86
Best Double Couple:Mo=9.2*10**16
NP1:Strike=221 Dip=73 Slip= 171
NP2: 313 81 17

28 13 29 14.44 34.234N 24.729E 57km
5.4mb (55 obs.)
CRETE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 23C
Centroid Location:

Origin Time 13:29:14.0 0.5
Lat 34.06N FIX:Lon 24.68E FIX
Dep 55.9 4.3 Half-duration 2.4
Principal Axes:
Scale 10**17 Nm
T Vol= 1.96 Plg=44 Azm=277
N 0.40 44 114
P -2.36 9 16
Best Double Couple:Mo=2.2*10**17
NP1:Strike= 67 Dip=53 Slip= 29
NP2: 318 67 139

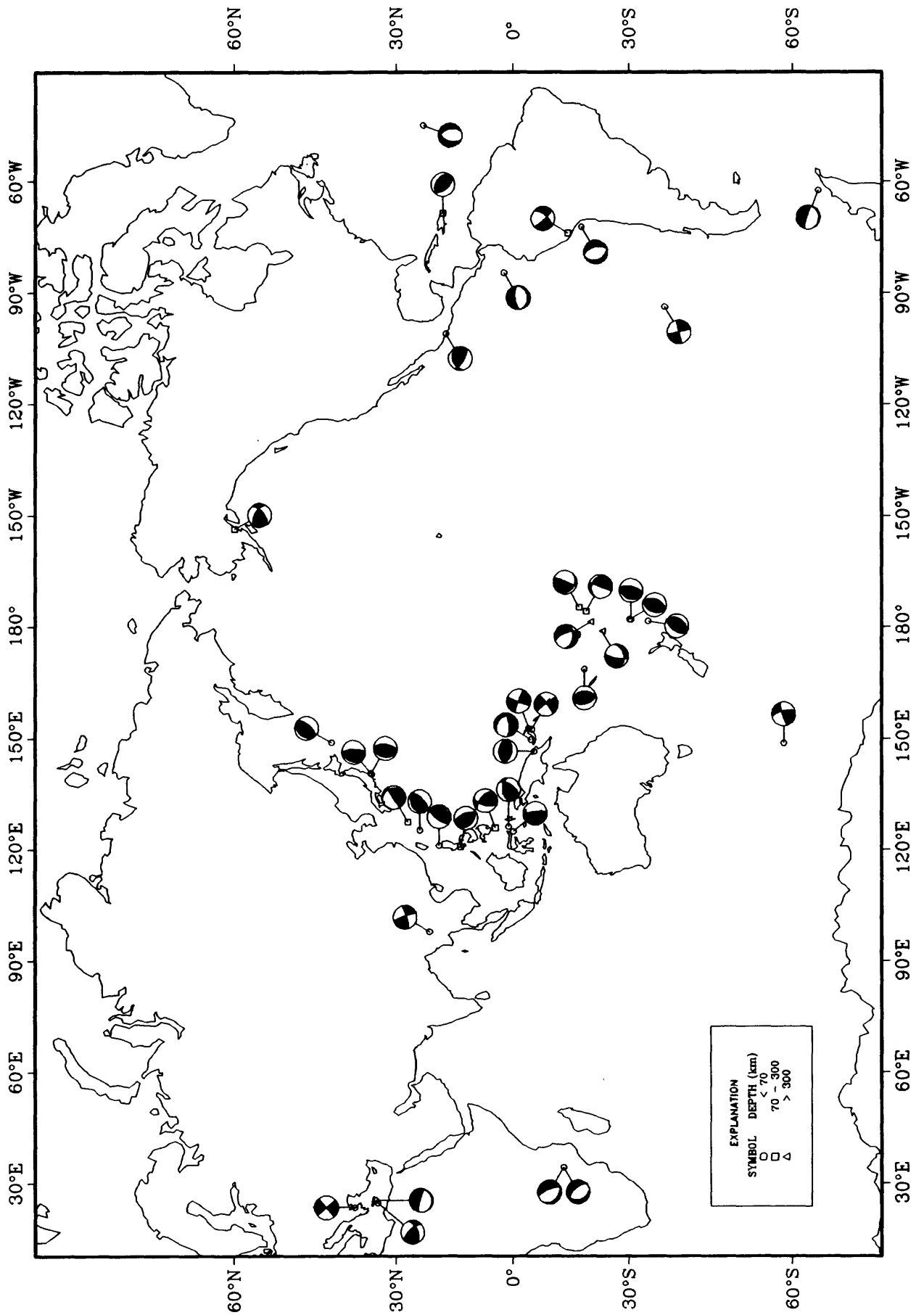
28 17 05 10.52 29.768S 177.812W 53km
5.2mb (18 obs.)
KERMADEC ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 23C
Centroid Location:
Origin Time 17:05:16.0 1.5
Lat 30.13S 0.11 Lon 177.67W 0.12
Dep 57.3 6.0 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Vol= 4.42 Plg=81 Azm=291
N 1.85 0 201
P -6.27 9 111
Best Double Couple:Mo=5.3*10**16
NP1:Strike=201 Dip=36 Slip= 90
NP2: 21 54 90

29 04 06 12.32 18.350S 72.279W 42km
5.3mb (22 obs.)
OFF COAST OF NORTHERN CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 24C
Centroid Location:
Origin Time 04:06:10.8 0.3
Lat 18.28S 0.08 Lon 73.15W 0.05
Dep 53.8 3.9 Half-duration 1.9
Principal Axes:
Scale 10**17 Nm
T Vol= 1.58 Plg=10 Azm= 72
N -0.31 3 163
P -1.27 79 267
Best Double Couple:Mo=1.4*10**17
NP1:Strike=159 Dip=35 Slip= -95
NP2: 345 56 -87

30 20 39 29.31 19.589S 175.848W 230km
5.8mb (33 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 36C
Centroid Location:
Origin Time 20:39:37.1 0.3
Lat 19.67S 0.03 Lon 175.84W 0.03
Dep 232.9 1.2 Half-duration 3.8
Principal Axes:
Scale 10**18 Nm
T Vol= 1.18 Plg=40 Azm=136
N 0.10 28 19
P -1.28 37 265
Best Double Couple:Mo=1.2*10**18
NP1:Strike=294 Dip=28 Slip= 4
NP2: 200 88 118

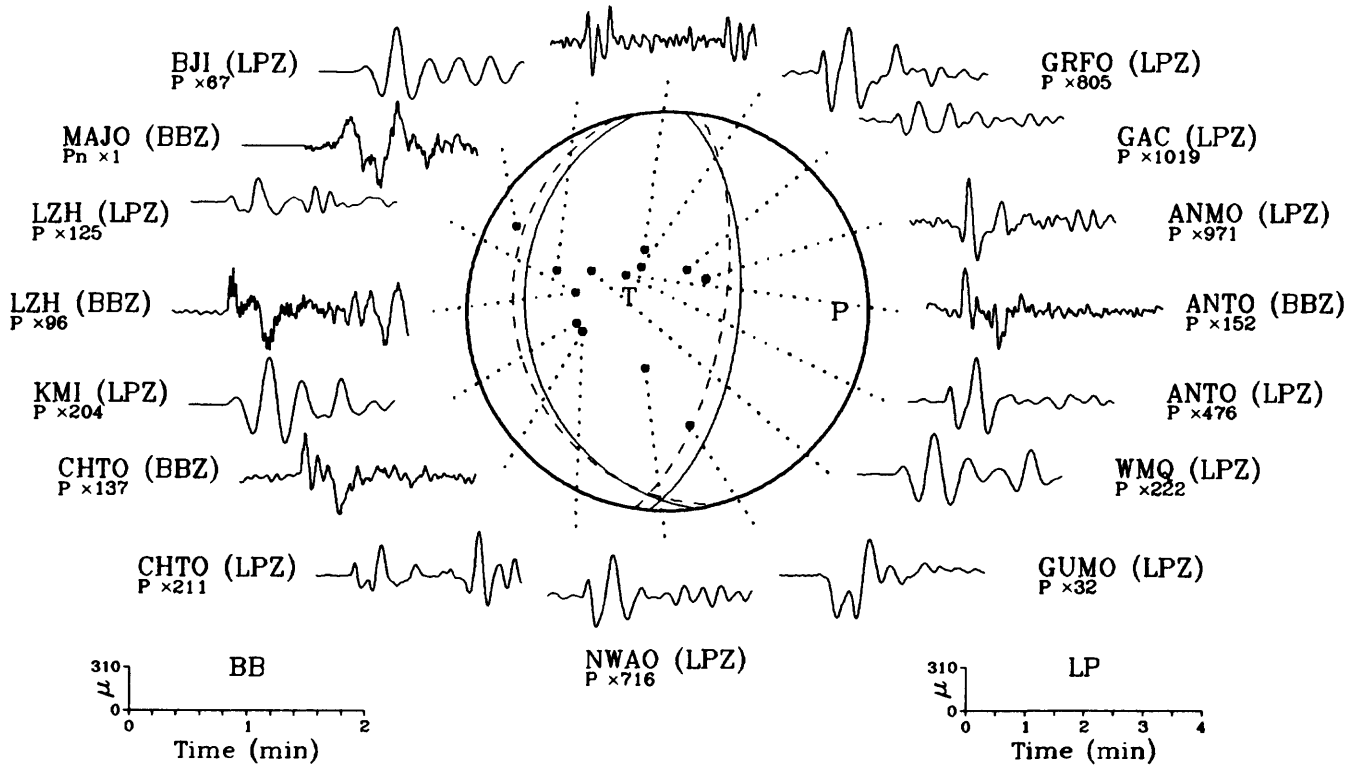
31 06 50 39.12 1.721S 12.783W 10km
5.0mb (34 obs.) 4.8Msz (2 obs.)
NORTH OF ASCENSION ISLAND
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 19C
Centroid Location:
Origin Time 06:50:50.8 2.0
Lat 0.94S 0.19 Lon 12.63W 0.09
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Vol= 3.51 Plg= 0 Azm=263
N 0.91 0 173
P -4.41 90 180
Best Double Couple:Mo=4.0*10**16
NP1:Strike=353 Dip=45 Slip= -90
NP2: 173 45 -90

Earthquake Focal Mechanisms for March 1989



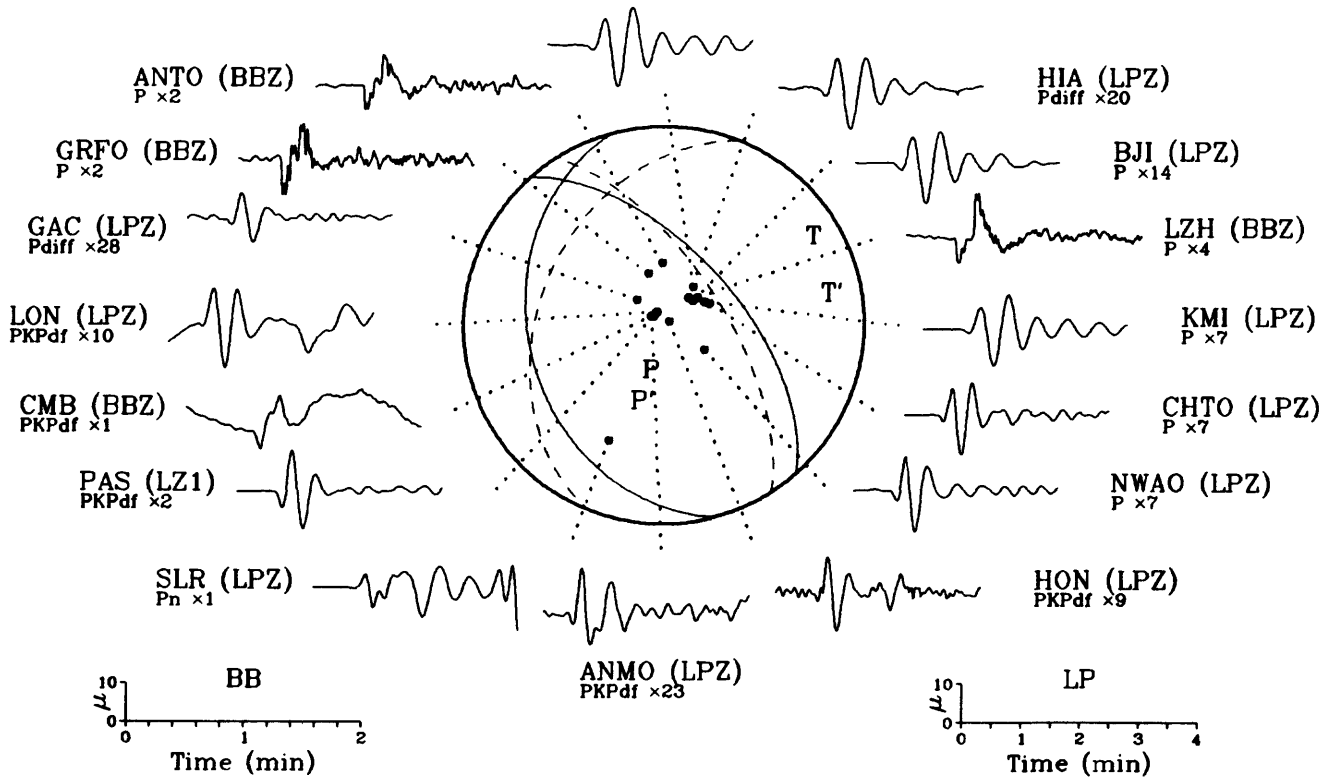
06 March 1989 14:39:42.69
Near East Coast of Honshu, Japan

KEV (LPZ)
P × 199



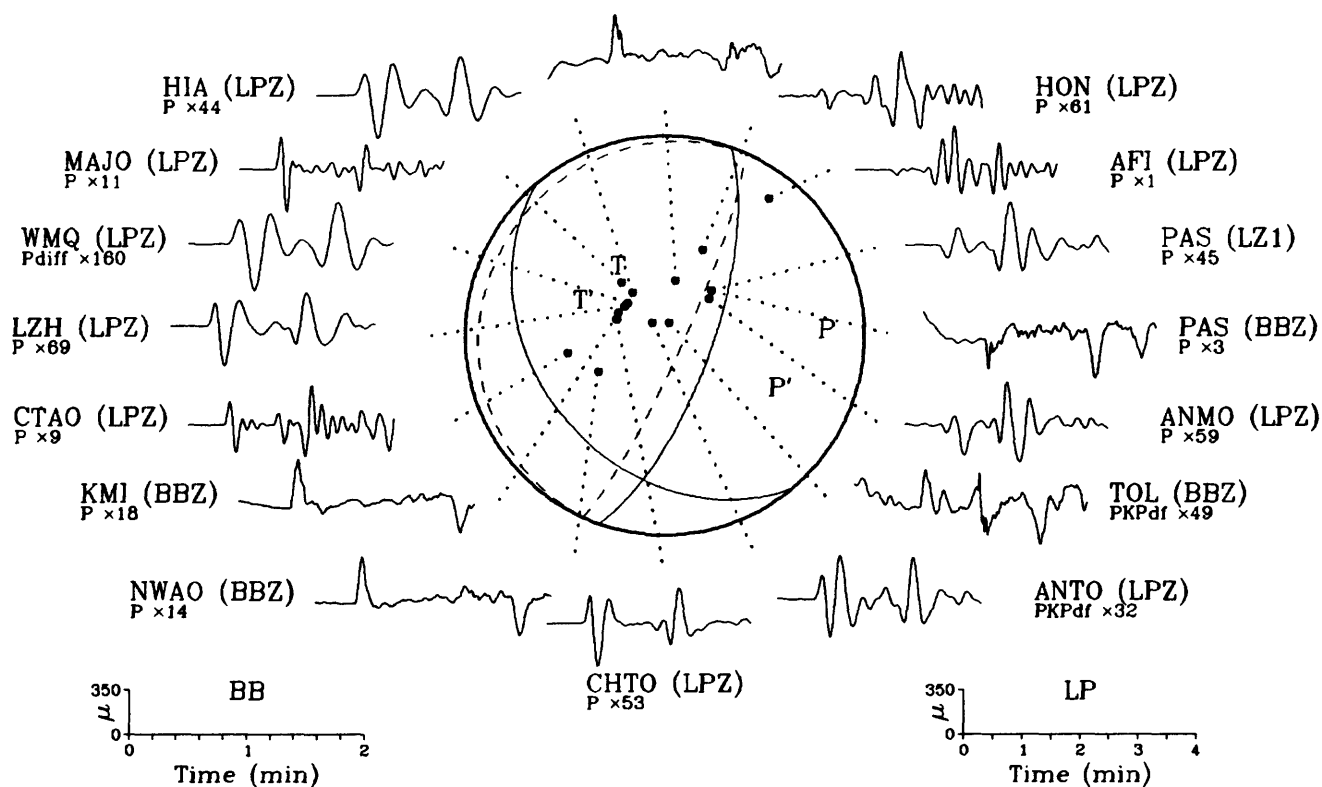
10 March 1989 21:49:45.86
Malawi

WMQ (LPZ)
P × 8



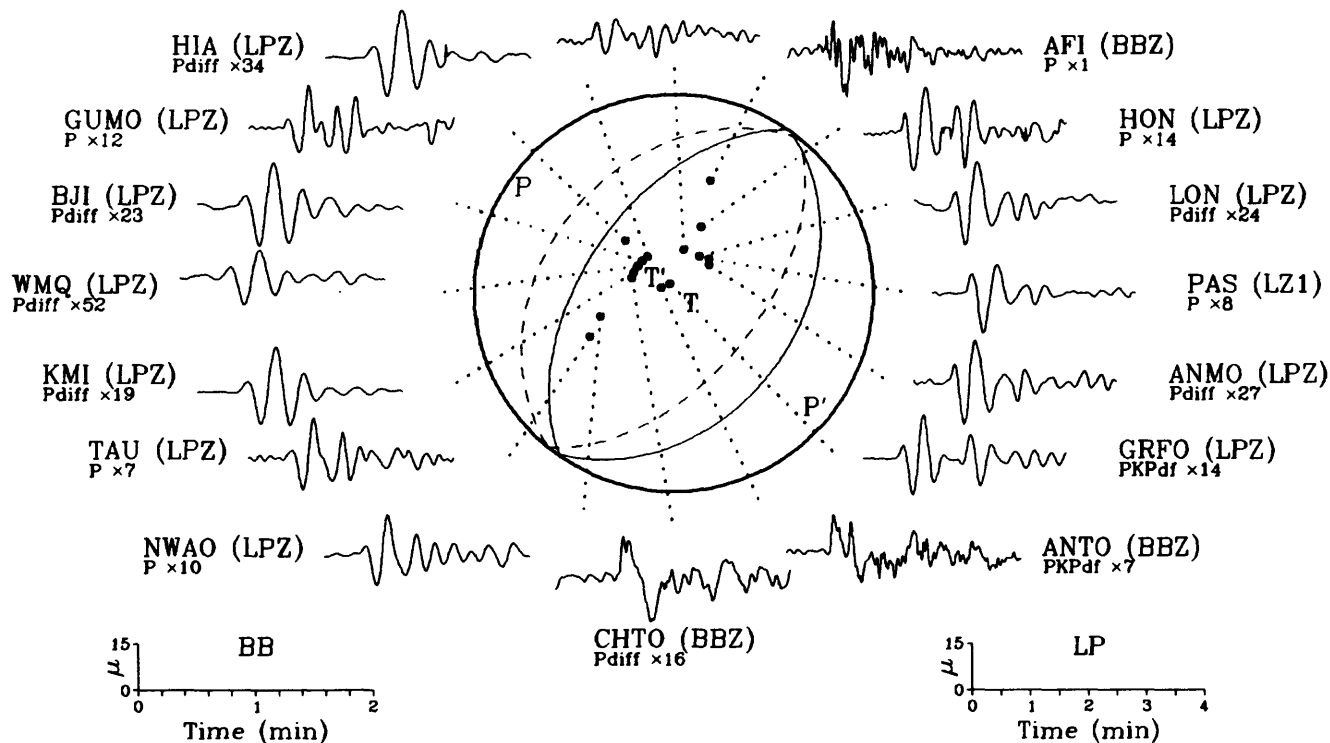
11 March 1989 05:05:00.63

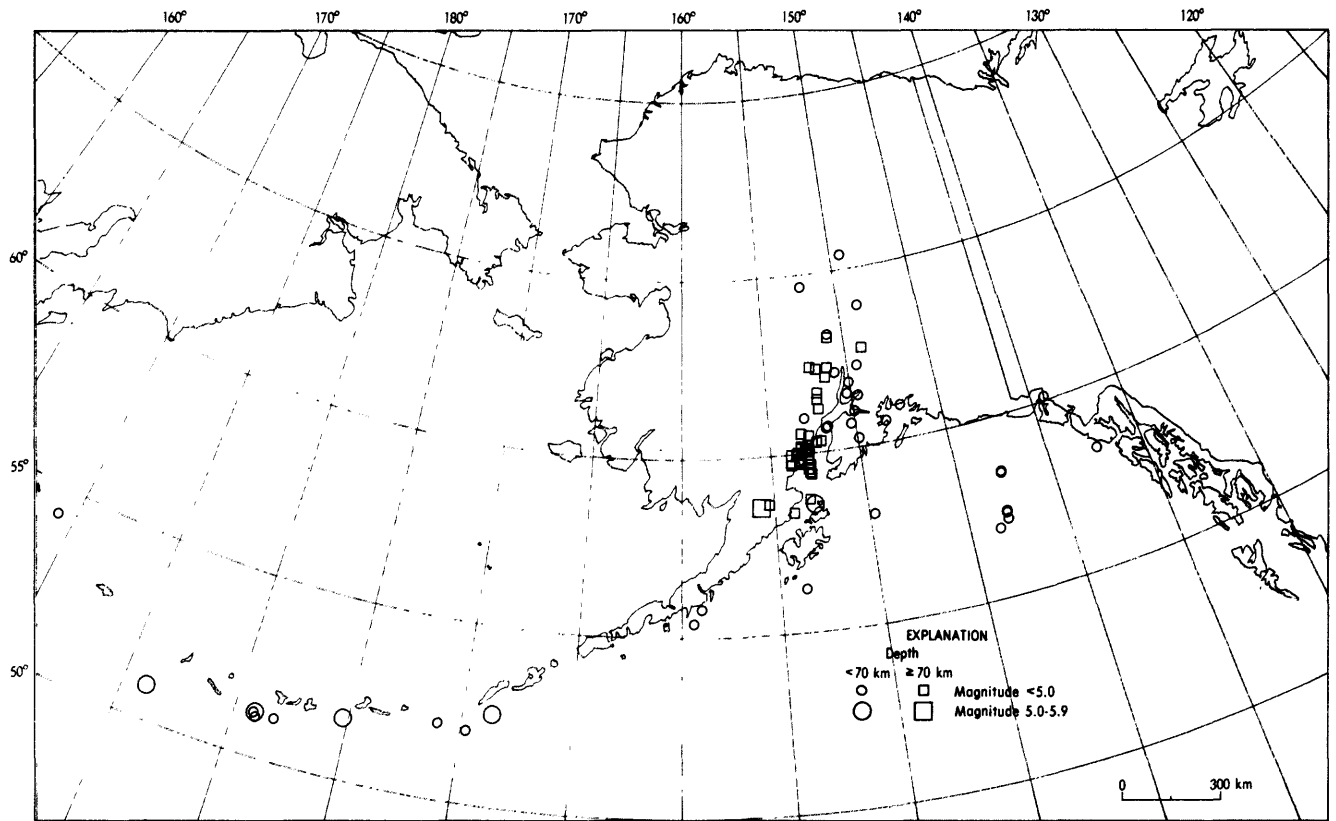
Tonga Islands

COL (BBZ)
P x29

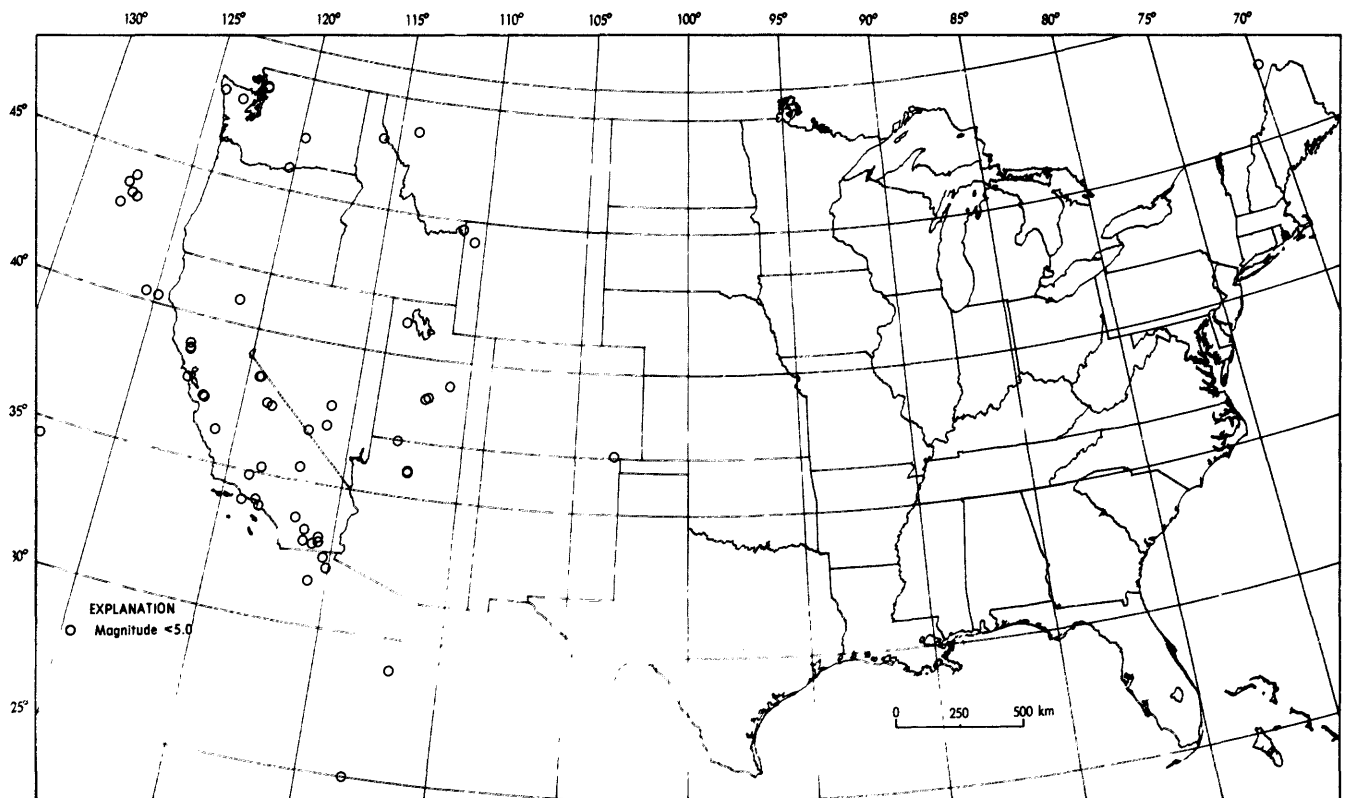
17 March 1989 19:33:08.60

South of Kermadec Islands

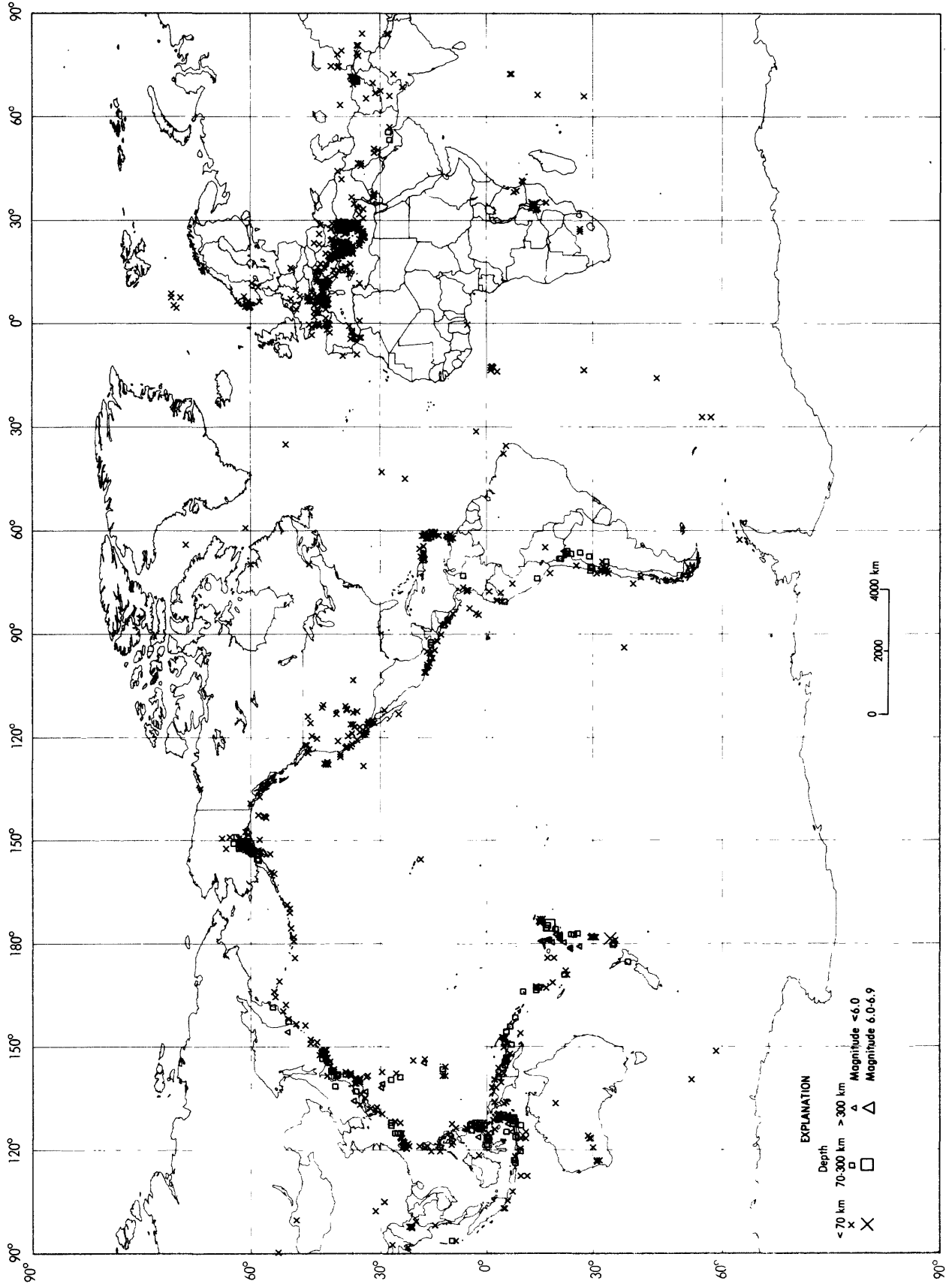
COL (LPZ)
Pdiff x14



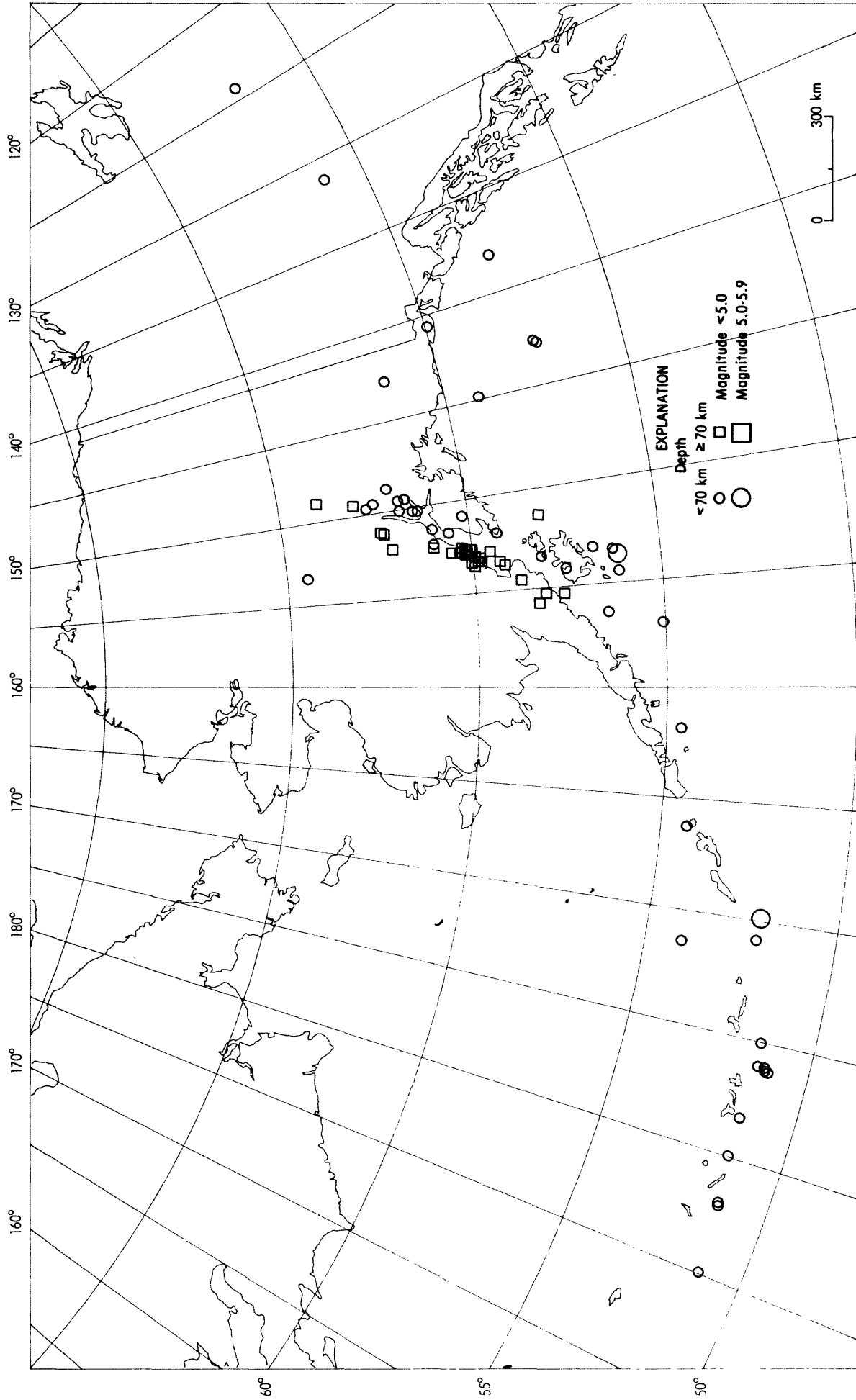
Earthquake epicenters in Alaska and adjacent regions for March, 1989 (C. Stover).



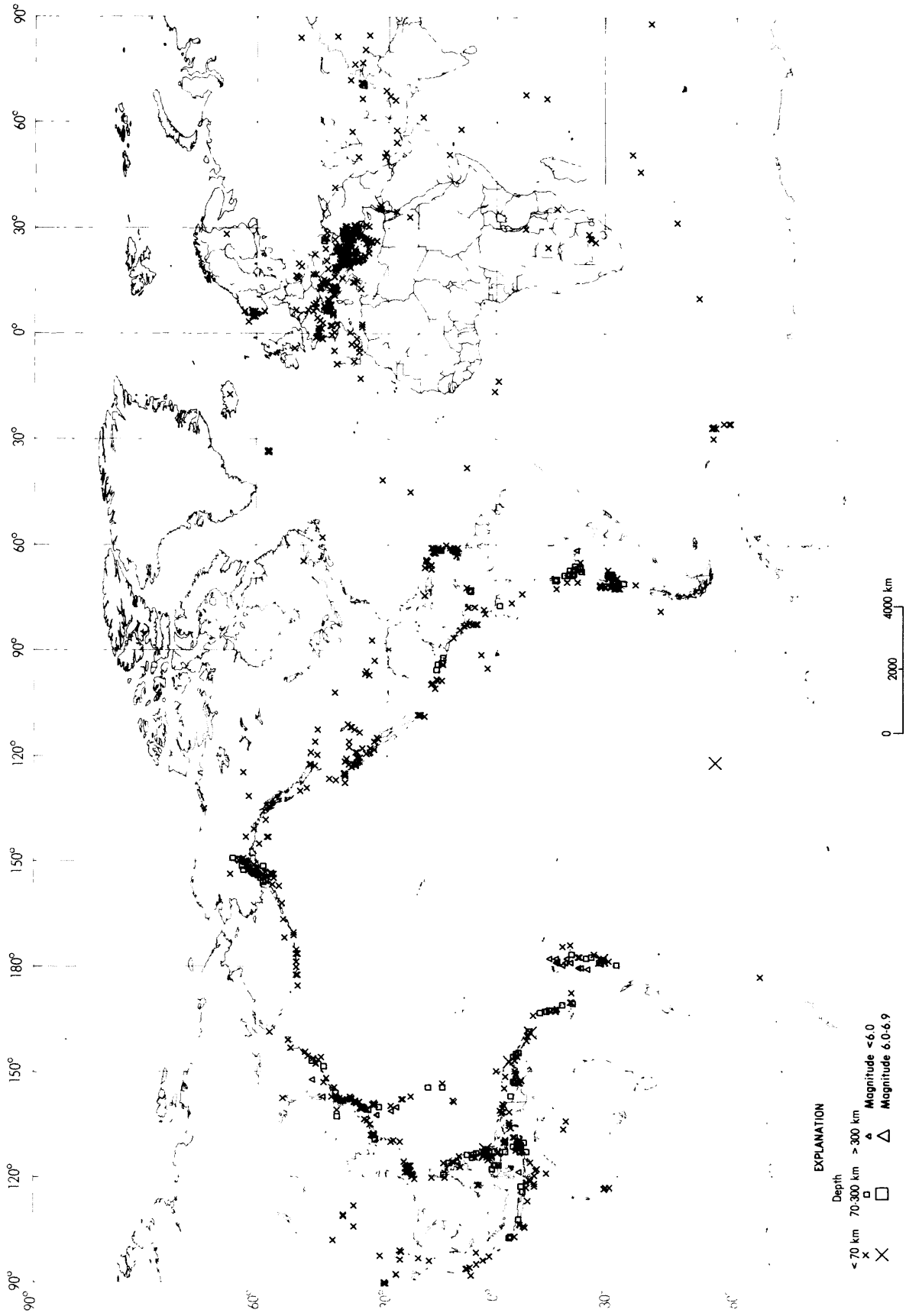
Earthquake epicenters in the conterminous United States and adjacent regions for March, 1989 (C. Stover).



Earthquakes located in March, 1989 (C. Stover).



Earthquake epicenters in Alaska and adjacent regions for February, 1989 (C. Stover).



Earthquakes located in February, 1989 (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