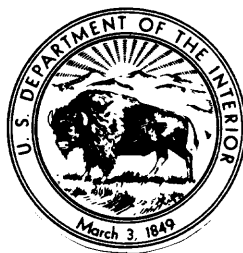


UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

PRELIMINARY DETERMINATION OF EPICENTERS  
MONTHLY LISTING  
April-June, 1985

NATIONAL EARTHQUAKE INFORMATION CENTER

Open File Report  
86-550B



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



# PRELIMINARY DETERMINATION OF EPICENTERS

## MONTHLY LISTING

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

APRIL 1985

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	01 04 53.0*	16.686 S 167.233 E	43 *	5.0	1.4	12	VANUATU ISLANDS
01	01 29 26.4*	31.659 S 68.489 W	110 *		0.2	7	SAN JUAN PROVINCE, ARGENTINA
01	02 14 31.7	66.238 N 150.080 W	10 G	4.4	1.0	18	ALASKA. ML 4.7 (PMR).
01	04 28 22.1*	31.511 S 68.879 W	120 *		0.3	7	SAN JUAN PROVINCE, ARGENTINA
01	04 54 28.6?	8.41 S 123.65 E	33 N	5.0	1.3	7	FLORES ISLAND REGION
01	05 10 40.8*	3.979 S 103.083 W	10 G	4.7 4.8	1.3	33	NORTHERN EASTER I. CORDILLERA
01	05 17 41.0*	24.212 N 122.116 E	10 G	4.7	1.4	18	TAIWAN REGION
01	05 18 02.2*	7.366 S 129.143 E	155 *	5.0	1.0	10	BANDA SEA
01	05 34 02.9*	44.280 N 147.036 E	107 ?	4.4	0.6	14	KURIL ISLANDS
01	06 13 33.3&	36.000 N 117.400 W	0			6	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.2 (PAS).
01	08 03 26.7	42.391 N 15.030 E	10 G		1.0	8	ADRIATIC SEA
01	08 16 22.1*	12.635 S 76.572 W	74 *	5.1	1.3	42	NEAR COAST OF PERU. Felt at Lima.
01	09 13 14.2	47.276 N 113.233 W	10 G	4.8	1.0	56	MONTANA. Cracked water main (VI) at East Helena. Felt (V) at Belt, Big Arm, Canyon Creek, Condon, Great Falls, Jefferson City, Ovando, Ravalli and Wolf Creek. Felt throughout much of western Montana, including Kalispell, Missoula and Helena.
01	09 47 35.7%	31.402 S 68.417 W	104 ?		0.6	5	SAN JUAN PROVINCE, ARGENTINA
a 01	10 36 10.2*	8.452 N 103.202 W	10 G	5.0 4.8	1.3	46	OFF COAST OF MEXICO
01	12 57 02.5?	31.85 N 116.05 W	5 G		0.0	4	BAJA CALIFORNIA
01	13 41 33.8?	61.97 N 4.49 E	10 G		0.8	6	SOUTHERN NORWAY. DUR 2.4 (BER).
01	13 58 35.2*	36.355 N 141.303 E	56	4.6	1.2	30	NEAR EAST COAST OF HONSHU, JAPAN
01	14 09 21 1&	39.118 N 122.318 W	2 G			16	NORTHERN CALIFORNIA. <BRK>.. ML 3.2 (BRK). Felt (III) at Clearlake Oaks and Williams.
01	14 30 25.4	65.795 N 155.302 W	10 G		0.5	7	ALASKA. ML 4.1 (PMR).
01	14 37 27.4	65.818 N 155.236 W	10 G	4.3	1.1	16	ALASKA. ML 4.8 (PMR).
01	15 41 32.5*	41.864 N 19.606 E	10 G		1.7	6	ALBANIA. ML 2.2 (TTG).
01	16 27 41.5	65.820 N 155.337 W	10 G		0.8	10	ALASKA. ML 4.3 (PMR).
01	18 15 30.3?	22.27 S 177.01 W	427 ?		0.4	6	SOUTH OF FIJI ISLANDS
01	18 33 15.4	60.722 N 5.563 E	10 G		0.5	6	SOUTHERN NORWAY. DUR 1.9 (BER).
01	19 39 47.5*	65.857 N 155.456 W	10 G		0.5	6	ALASKA. ML 4.2 (PMR).
01	20 13 46.1	27.796 N 142.862 E	30	4.4	1.0	30	BONIN ISLANDS REGION
01	20 33 04.9	38.887 N 26.280 E	33 N		0.8	11	AEGEAN SEA. ML 3.5 (ATH).
01	21 30 09.0	35.616 N 139.502 E	10 G		1.0	7	NEAR S. COAST OF HONSHU, JAPAN
01	21 31 18.4&	19.364 N 155.085 W	9			28	HAWAII. <HVO-P>. ML 4.3 (HVO). Felt.
01	22 49 20.9?	11.91 N 91.49 W	33 N		1.1	10	OFF COAST OF CENTRAL AMERICA
02	01 03 37.1?	22.60 S 176.60 W	216 ?	4.2	1.4	12	SOUTH OF FIJI ISLANDS
02	01 32 05.7*	23.968 S 175.629 W	33 N	4.9 5.0	1.2	32	TONGA ISLANDS REGION
a 02	01 56 06.9	30.549 S 179.051 E	517	4.9	1.1	61	KERMADEC ISLANDS REGION
a 02	02 35 28.8	28.806 S 69.165 W	107	5.0	1.2	41	CHILE-ARGENTINA BORDER REGION
a 02	03 21 41.4	21.236 S 179.075 W	636 D	5.4	0.9	190	FIJI ISLANDS REGION
02	03 58 55.0	37.443 N 72.266 E	191	4.4	0.7	44	TAJIK SSR
02	04 06 08.5%	40.059 N 26.899 E	10 G		1.1	7	TURKEY
02	04 57 38.4?	17.82 N 120.32 E	33 N	4.2	1.1	5	LUZON, PHILIPPINE ISLANDS
02	05 07 35.9	23.829 S 179.735 W	531	4.8	0.9	70	SOUTH OF FIJI ISLANDS
02	05 39 06.6?	41.98 N 19.04 E	10 G		0.4	6	ALBANIA. ML 2.4 (TTG).
02	07 46 51.0?	40.92 N 23.64 E	10 G		1.5	5	GREECE
02	07 59 03.8&	59.668 N 153.063 W	97			22	SOUTHERN ALASKA. <AGS-P>.
02	10 18 36.8&	58.924 N 152.289 W	73			19	KODIAK ISLAND REGION. <AGS-P>.
02	11 32 11.7	65.885 N 155.479 W	10 G		0.9	12	ALASKA. ML 4.0 (PMR).
02	12 45 19.0?	36.30 N 141.30 E	10 G		0.6	6	NEAR EAST COAST OF HONSHU, JAPAN
02	12 49 55.8	35.717 N 139.376 E	33 N		0.8	7	NEAR S. COAST OF HONSHU, JAPAN
02	13 02 32.9?	33.66 S 72.33 W	30		1.0	17	OFF COAST OF CENTRAL CHILE
02	14 35 50.3	13.393 N 124.668 E	48 *	5.1 4.3	1.1	67	LUZON, PHILIPPINE ISLANDS
02	14 47 21.9*	13.709 N 125.245 E	33 N	4.5	0.8	9	PHILIPPINE ISLANDS REGION
02	15 33 03.6	7.765 S 107.973 E	33 N	5.2 4.1	1.0	79	JAVA
02	18 03 22.3	3.622 N 127.140 E	74 *	4.5	0.9	37	TALAUD ISLANDS
02	19 29 37.9	66.980 N 23.530 E	10 G		1.3	8	SWEDEN. ML 3.2 (UPP). Felt.

02	19 32 03.8	60.474 N	147.702 W	26					42	SOUTHERN ALASKA. <AGS-P>.
02	19 48 01.0	24.440 N	94.753 E	84 *	4.4	0.9			7	BURMA-INDIA BORDER REGION
02	19 56 55.2	35.760 N	139.922 E	33 N		0.5			8	NEAR S. COAST OF HONSHU, JAPAN
02	20 00 00.0	37.095 N	116.032 W	0	5.7 4.7				267	SOUTHERN NEVADA. <DOE>. ML 5.6 (BRK). 37' 05' 41.31" N., 116' 01' 56.42" W., Surface Elev. 1278 m., Depth of Burial 640 m., Shot Time 200000.090, "HERMOSA", Nevada Test Site (Dept. of Energy).
02	20 39 12.5	37.112 N	116.063 W	0 G	4.8	1.3			6	SOUTHERN NEVADA. ML 4.7 (BRK). NTS Collapse.
02	20 45 03.4	5.945 N	82.732 W	10 G	4.3 4.1	0.9			7	SOUTH OF PANAMA
02	21 34 17.97	17.77 S	178.91 W	644 ?	4.6	0.3			12	FIJI ISLANDS REGION
02	21 48 49.37	9.40 S	168.12 E	33 N	4.6	1.1			6	SANTA CRUZ ISLANDS REGION
02	23 03 25.1	32.591 S	71.850 W	33 N		1.2			22	NEAR COAST OF CENTRAL CHILE
02	23 35 44.5	16.070 N	61.529 W	10 G		1.0			10	LEEWARD ISLANDS. Felt (III) on Guadeloupe.
03	01 44 26.8	38.099 N	48.422 E	26	4.7 3.7	1.2			55	N.W. IRAN-USSR BORDER REGION
03	01 50 29.4	23.020 S	132.430 E	33 N		1.0			16	NORTHERN TERRITORY, AUSTRALIA
03	02 28 13.6	60.984 N	151.131 W	68					37	KENAI PENINSULA, ALASKA. <AGS-P>.
03	02 55 02.2	6.143 S	76.824 W	115 D	4.9	0.9			85	NORTHERN PERU
03	03 57 34.1	33.142 S	72.075 W	33 N	4.9	1.0			32	OFF COAST OF CENTRAL CHILE
03	04 04 49.8	34.380 N	119.040 W	28					31	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.0 (PAS), 4.0 (BRK). Felt (V) at Santa Paula, Simi Valley and Ventura. Felt (IV) at Camarillo, Thousand Oaks, Oxnard, Santa Barbara, Port Hueneme, Lebec, Ojai, Hawthorne, Chatsworth and Van Nuys. Felt in Los Angeles, Santa Barbara, Kern and Ventura Counties.
03	05 35 04.2	13.837 S	171.065 E	641 *	4.6	1.1			47	VANUATU ISLANDS REGION
03	06 21 32.3	18.712 N	108.438 W	10 G	4.3	1.1			26	REVILLA GIGEDO ISLANDS REGION
03	07 38 26.3	59.867 N	7.330 E	10 G		0.5			5	SOUTHERN NORWAY. DUR 2.5 (BER).
a 03	08 18 06.8	51.883 N	158.726 E	33 N	5.5 5.2	0.8			223	NEAR EAST COAST OF KAMCHATKA. Felt (IV) at Petropavlovsk-Kamchatskiy.
03	08 39 35.9	38.795 N	122.770 W	2 G					14	NORTHERN CALIFORNIA. <BRK>. ML 2.9 (BRK).
03	09 15 50.3	40.082 N	19.861 E	10 G		0.5			7	ALBANIA
03	10 09 39.27	18.30 S	177.80 W	572 ?	4.7	0.7			14	FIJI ISLANDS REGION
03	10 14 57.0	19.298 N	96.046 E	33 N	4.8	0.9			55	BURMA
03	10 15 16.47	32.73 S	71.73 W	33 N		1.5			10	NEAR COAST OF CENTRAL CHILE
03	10 32 37.0	24.490 N	120.684 E	10 G	4.4	0.8			13	TAIWAN
03	11 42 21.6	29.488 S	71.968 W	33 N		1.2			8	NEAR COAST OF CENTRAL CHILE
03	12 43 17.9	6.743 S	129.945 E	145 ?	3.8	1.3			11	BANDA SEA
f 03	13 06 20.2	32.584 S	71.656 W	33 N	5.8 6.1	1.0			198	NEAR COAST OF CENTRAL CHILE. Ms 6.3 (BRK), 6.0 (PAS). Felt (IV) at Santiago, Chile and (III) at Mendoza, Argentina.
03	14 08 37.7	32.561 S	71.951 W	33 N	4.7	1.2			13	NEAR COAST OF CENTRAL CHILE
03	15 31 35.1	38.706 N	29.171 E	10 G		1.3			6	TURKEY
a 03	18 12 25.9	33.272 S	179.235 W	33 N	5.5 5.3	1.1			75	SOUTH OF KERMADEC ISLANDS
03	18 23 30.6	43.595 N	11.858 E	10 G		0.8			11	CENTRAL ITALY. ML 2.6 (LDG).
03	19 42 11.8	10.266 N	141.427 E	33 N	5.0	0.9			30	WEST CAROLINE ISLANDS
03	20 21 22.5	28.115 N	139.538 E	465	4.8	0.9			80	BONIN ISLANDS REGION
f 03	20 21 36.2	28.230 N	139.525 E	469 D	5.9	1.2			427	BONIN ISLANDS REGION. mb 6.2 (PAS). Felt (II JMA) on Chichi-shima. Felt (I JMA) at Yakohama, Utsunomiya and Aomori, Honshu.
04	00 20 31.0	42.050 N	19.710 E	10 G		0.5			8	YUGOSLAVIA. ML 2.8 (TTG).
04	00 52 46.27	33.19 S	68.70 W	5 G		0.4			5	MENDOZA PROVINCE, ARGENTINA
04	01 10 41.3	53.066 S	23.237 E	10 G	4.9	1.1			32	SOUTH OF AFRICA
04	02 14 45.6	60.466 N	147.719 W	24					41	SOUTHERN ALASKA. <AGS-P>.
04	02 25 11.9	66.126 N	150.020 W	10 G	3.9	0.9			10	ALASKA. ML 4.0 (PMR).
04	02 44 20.4	42.066 N	19.713 E	10 G		0.6			7	YUGOSLAVIA. ML 2.7 (TTG).
04	03 18 42.3	19.185 N	99.582 W	10 G		1.4			5	CENTRAL MEXICO
04	03 19 55.2	19.204 N	99.411 W	33 N		1.4			5	CENTRAL MEXICO
04	03 32 13.2	62.263 N	149.104 W	45					47	CENTRAL ALASKA. <AGS-P>.
04	04 01 39.2	39.419 N	72.630 E	33 N	4.6	1.3			23	KIRGHIZ SSR
04	05 35 57.8	12.131 N	144.291 E	33 N	5.2 4.6	1.1			60	SOUTH OF MARIANA ISLANDS. Felt (III) on Guam.
04	05 58 04.9	32.718 S	67.888 W	33 N		0.6			6	MENDOZA PROVINCE, ARGENTINA
04	06 01 01.8	17.008 N	62.423 W	30	4.4	0.8			21	LEEWARD ISLANDS
04	06 17 53.87	15.37 N	63.64 W	33 N		0.5			5	LEEWARD ISLANDS
04	06 37 14.37	53.04 N	133.79 W	10 G		1.5			5	QUEEN CHARLOTTE ISLANDS REGION. ML 4.4 (PMR).
04	06 56 59.0	15.093 S	167.315 E	150 ?	4.3	1.0			22	VANUATU ISLANDS
04	07 04 24.7	4.242 S	145.084 E	33 N	4.8	0.9			9	NEAR N COAST OF PAPUA NEW GUINEA
a 04	08 40 47.5	11.465 N	95.038 E	33 N	5.2 4.7	1.3			134	ANDAMAN ISLANDS REGION
04	09 47 20.5	62.283 N	150.973 W	95					29	CENTRAL ALASKA. <AGS-P>.
04	10 28 21.3	20.750 S	67.247 W	201	4.9	1.2			81	SOUTHERN BOLIVIA
04	11 03 58.2	9.590 N	62.720 W	33 N		1.4			11	NEAR COAST OF VENEZUELA
04	11 06 42.1	42.782 N	24.022 E	10 G		1.2			5	BULGARIA
04	12 07 49.37	16.28 N	98.60 W	10 G		1.5			5	NEAR COAST OF GUERRERO, MEXICO
04	12 11 15.47	43.08 N	26.97 E	10 G		1.2			5	BULGARIA
04	12 23 40.27	21.83 S	68.11 W	150 *		0.7			6	CHILE-BOLIVIA BORDER REGION
04	13 57 29.1	14.491 N	92.289 W	90 *	4.9	1.1			48	NEAR COAST OF CHIAPAS, MEXICO
04	14 41 34.47	0.44 S	122.98 E	85 ?	4.0	1.5			5	MINAHASSA PENINSULA
04	15 02 29.27	14.01 N	93.16 W	33 N	4.5	1.6			8	NEAR COAST OF CHIAPAS, MEXICO
04	15 09 55.4	9.107 S	157.516 E	33 N	3.6	0.6			5	SOLOMON ISLANDS
04	16 13 34.2	17.091 N	62.185 W	33 N		0.6			5	LEEWARD ISLANDS
04	16 30 36.77	16.28 N	95.46 W	47 ?	4.6	1.1			22	OAXACA, MEXICO
04	16 37 05.9	35.511 N	140.333 E	33 N		0.5			6	NEAR EAST COAST OF HONSHU, JAPAN
04	17 32 42.2	37.982 S	177.498 E	69	5.2	1.0			32	OFF E. COAST OF N. ISLAND, N.Z.
04	18 06 09.5	30.936 S	70.903 W	143 ?		0.8			13	CHILE-ARGENTINA BORDER REGION
04	18 14 16.5	33.503 S	70.832 W	52 ?		1.1			8	CHILE-ARGENTINA BORDER REGION
04	18 34 41.9	59.802 N	152.782 W	85					35	SOUTHERN ALASKA. <AGS-P>.
04	18 38 18.1	18.164 N	66.062 W	33 N		0.2			5	PUERTO RICO REGION. Felt south of Cayey.
04	18 51 36.0	31.286 S	67.906 W	10 G		0.9			9	SAN JUAN PROVINCE, ARGENTINA
04	19 05 54.9	40.664 N	28.507 E	10 G		1.4			8	TURKEY
04	19 06 52.87	66.21 N	149.98 W	10 G		0.8			5	ALASKA
04	19 32 33.1	23.671 S	169.941 E	33 N	4.2	1.4			9	LOYALTY ISLANDS REGION
04	20 21 45.6	37.238 N	71.028 E	33 N	4.0	0.2			5	AFGHANISTAN-USSR BORDER REGION
04	21 35 57.6	59.830 N	152.952 W	92					27	SOUTHERN ALASKA. <AGS-P>.
04	21 45 40.0	42.128 N	25.801 E	10 G		1.1			13	BULGARIA

04	23	17	30.1?	18.54	S	169.47	E	313 *	4.8	0.9	9	VANUATU ISLANDS
04	23	52	22.9	12.863	N	91.237	W	33 N	5.1 4.2	1.2	103	OFF COAST OF CENTRAL AMERICA
05	00	07	21.3*	43.961	N	127.902	W	10 G	4.2	1.4	18	OFF COAST OF OREGON
05	01	40	58.5*	15.945	N	61.082	W	81 *		0.2	13	LEEWARD ISLANDS. Felt on Guadeloupe.
05	02	25	55.4?	24.49	S	179.43	W	513 ?	5.1	0.9	23	SOUTH OF FIJI ISLANDS
05	02	31	52.7*	34.520	N	26.125	E	80 *	3.3	1.0	12	CRETE
05	02	48	37.1?	3.09	S	136.22	E	33 N	4.2	1.3	9	WEST IRIAN
05	03	12	26.8*	32.803	S	71.509	W	33 N		1.6	8	NEAR COAST OF CENTRAL CHILE
05	03	41	35.2	35.437	S	16.085	W	10 G	5.1 5.0	1.2	50	SOUTH ATLANTIC RIDGE
05	04	04	03.3*	24.434	S	175.042	W	33 N	5.1	1.1	27	SOUTH OF TONGA ISLANDS
05	05	18	29.6*	42.979	N	1.923	W	10 G		0.8	7	PYRENEES. ML 2.8 (LDG).
05	05	40	46.2*	42.946	N	1.891	W	10 G		0.4	5	PYRENEES. ML 3.0 (LDG).
05	06	41	28.1&	59.935	N	153.322	W	127			36	SOUTHERN ALASKA. <AGS-P>.
05	07	25	35.4	33.429	N	131.543	E	134	5.1	0.9	174	KYUSHU, JAPAN. Felt (II JMA) at Oita, Hiroshima and Kachi, (I JMA) at Asasan, Shimonoseki and Nabeaka.
05	09	06	45.6	42.658	N	24.160	E	10 G		1.0	6	BULGARIA
05	09	35	36.7?	31.68	S	68.33	W	115 ?		0.4	5	SAN JUAN PROVINCE, ARGENTINA
05	09	43	37.3*	42.895	N	1.836	W	10 G		0.6	9	PYRENEES. ML 2.9 (LDG).
05	10	27	25.9?	62.47	N	26.27	W	10 G	4.6	1.2	18	ICELAND REGION
05	10	38	14.2?	28.72	N	43.58	W	10 G	4.7	0.8	8	NORTH ATLANTIC RIDGE
05	11	12	15.9	20.717	N	120.997	E	33 N	4.5	0.9	14	PHILIPPINE ISLANDS REGION
05	11	32	38.8?	18.63	S	178.37	W	642 ?	3.9	0.4	12	FIJI ISLANDS REGION
05	11	50	21.8	41.802	N	25.295	E	10 G		0.7	7	GREECE-BULGARIA BORDER REGION
05	12	07	27.5	28.763	N	43.715	W	10 G	5.0 4.2	0.8	37	NORTH ATLANTIC RIDGE
05	12	07	49.3?	16.27	N	98.61	W	10 G		1.5	5	NEAR COAST OF GUERRERO, MEXICO
05	12	22	11.0	42.624	N	24.120	E	10 G		0.7	6	BULGARIA
05	12	40	38.7*	33.380	S	71.871	W	33 N		1.4	7	NEAR COAST OF CENTRAL CHILE
05	13	00	13.6	66.263	N	150.040	W	10 G		1.1	11	ALASKA. ML 4.2 (PMR).
05	13	00	23.8	1.799	N	127.511	E	145 D	5.5	1.0	133	HALMAHERA
05	13	29	04.8&	61.884	N	149.297	W	44			38	SOUTHERN ALASKA. <AGS-P>.
05	14	39	38.3*	55.038	S	2.021	W	10 G	5.4 4.8	0.8	8	SOUTH ATLANTIC RIDGE
05	15	30	19.7?	10.07	N	62.84	W	33 N		0.5	6	NEAR COAST OF VENEZUELA
05	17	52	13.8&	60.770	N	151.894	W	83			35	KENAI PENINSULA, ALASKA. <AGS-P>.
05	18	07	14.4?	52.11	N	170.99	E	33 N	4.5	0.9	8	NEAR ISLANDS, ALEUTIAN ISLANDS
05	18	36	20.6*	28.081	S	74.059	E	10 G	5.0	0.8	18	MID-INDIAN RISE
05	19	38	17.2	4.889	N	82.557	W	10 G	4.8 4.2	1.0	37	SOUTH OF PANAMA
05	21	43	37.3*	31.029	S	68.503	W	77 ?		0.9	6	SAN JUAN PROVINCE, ARGENTINA
05	22	10	20.4?	38.24	S	71.66	W	33 N		0.8	8	S. CHILE-ARGENTINA BORDER REGION
05	22	44	17.8*	17.750	S	168.082	E	33 N	4.0	1.2	10	VANUATU ISLANDS
05	23	26	52.4%	46.477	N	2.334	E	10 G		0.7	5	FRANCE. ML 1.9 (LDG).
06	01	24	32.9*	50.418	N	18.749	E	10 G		1.3	5	POLAND. ML 3.0 (KRA).
06	01	50	59.7*	32.079	N	116.041	W	5 G		1.0	5	CALIFORNIA-MEXICO BORDER REGION
06	01	52	13.8*	20.939	S	65.878	W	345 ?		1.6	7	SOUTHERN BOLIVIA
06	03	05	59.2	4.215	S	136.230	E	33 N	4.7	1.0	24	WEST IRIAN REGION
06	03	20	12.6*	18.266	N	120.170	E	33 N	3.5	1.3	7	LUZON, PHILIPPINE ISLANDS. Felt (II RF) at Pasuquin.
06	03	32	40.8?	31.76	N	115.98	W	5 G		0.0	4	BAJA CALIFORNIA
06	03	43	01.0%	32.247	S	117.450	E	33 N		0.4	5	WESTERN AUSTRALIA
06	03	53	51.3?	16.75	N	62.59	W	33 N		0.4	5	LEEWARD ISLANDS
06	04	18	35.1	46.352	N	6.371	E	10 G		0.5	14	SWITZERLAND. ML 3.2 (LDG).
06	04	38	38.6*	12.649	N	125.720	E	33 N	4.6	1.3	20	SAMAR, PHILIPPINE ISLANDS
06	04	42	00.3	39.527	N	32.928	E	10 G	4.4 3.6	1.2	61	TURKEY
06	05	25	12.3*	33.359	S	71.708	W	33 N		1.2	6	NEAR COAST OF CENTRAL CHILE
06	05	32	14.4	51.492	N	100.858	E	33 N	4.7	1.4	29	USSR-MONGOLIA BORDER REGION. Felt (IV) at Mondy, USSR.
06	05	39	02.6?	24.10	S	66.92	W	220 ?		0.1	5	SALTA PROVINCE, ARGENTINA
06	06	18	52.7?	17.78	S	178.33	W	628 *	4.5	1.0	24	FIJI ISLANDS REGION
06	06	58	28.5*	32.602	S	71.592	W	33 N		1.6	8	NEAR COAST OF CENTRAL CHILE
06	07	55	40.8?	52.04	N	17.26	E	10 G		1.2	7	POLAND. ML 3.5 (VKA), 3.5 (KBA).
06	08	02	05.8?	31.18	S	68.59	W	103 ?		0.3	5	SAN JUAN PROVINCE, ARGENTINA
06	08	19	46.1*	37.274	N	135.080	E	393 *	3.9	0.5	9	SEA OF JAPAN
06	08	26	17.7*	35.894	N	23.425	E	33 N	4.8	1.2	7	CRETE. ML 3.4 (ATH).
06	08	54	31.1	33.636	S	68.743	W	5 G		0.5	9	MENDOZA PROVINCE, ARGENTINA
06	10	05	07.5?	35.00	S	70.22	W	33 N		1.1	5	CHILE-ARGENTINA BORDER REGION
06	10	56	05.0	43.994	N	16.267	E	10 G		1.3	15	YUGOSLAVIA. ML 3.5 (TTG), 3.4 (KBA), 3.3 (TRI).
06	11	57	15.8?	16.88	N	99.56	W	33 N		1.5	5	NEAR COAST OF GUERRERO, MEXICO
06	12	08	26.2*	28.335	N	91.802	E	33 N	4.4	0.9	6	TIBET
06	13	15	09.9&	36.580	N	121.310	W	6 G			7	CENTRAL CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
06	13	16	19.1&	36.578	N	121.133	W	8			15	CENTRAL CALIFORNIA. <BRK>. ML 3.3 (BRK), 3.4 (PAS).
06	13	34	37.1?	5.18	N	102.62	E	33 N		1.3	5	MALAY PENINSULA
06	14	23	33.5	7.161	N	33.853	W	10 G	5.0 4.5	1.1	83	CENTRAL MID-ATLANTIC RIDGE
06	14	35	55.5	4.716	S	143.997	E	106	5.1	1.1	49	PAPUA NEW GUINEA
06	14	42	38.9?	33.28	S	72.11	W	33 N		1.5	8	OFF COAST OF CENTRAL CHILE
06	16	25	32.7*	39.281	N	21.936	E	10 G		0.7	14	GREECE
06	16	38	53.2&	40.405	N	124.748	W	5 G			9	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.6 (BRK).
06	16	40	26.7*	52.141	N	170.184	W	33 N	4.5	0.7	18	FOX ISLANDS, ALEUTIAN ISLANDS
06	16	57	13.2	4.085	S	136.349	E	33 N	4.9	1.2	56	WEST IRIAN REGION
06	17	19	31.0*	23.381	N	120.923	E	10 G		0.2	5	TAIWAN
06	17	38	41.5*	23.407	S	66.759	W	226 *		1.0	6	JUJUY PROVINCE, ARGENTINA
06	17	55	46.8&	61.743	N	150.964	W	79			48	SOUTHERN ALASKA. <AGS-P>.
06	19	30	53.1	7.214	N	33.897	W	10 G	4.9 4.6	1.2	50	CENTRAL MID-ATLANTIC RIDGE
06	19	47	42.0	17.816	S	178.658	W	580 D	5.3	0.9	161	FIJI ISLANDS REGION
06	20	40	46.2&	40.553	N	124.603	W	5 G			11	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 4.0 (BRK).
06	22	20	12.9	0.835	N	126.171	E	43 *	5.2	1.2	38	MOLUCCA PASSAGE
06	23	15	00.0&	37.201	N	116.207	W	0	4.8		97	SOUTHERN NEVADA. <DOE>. ML 4.8 (BRK). Tunnel Shot. 37' 12' 02.99" N., 116' 12' 25.82" W., Working Elev. 1850 m., Shot Time 231500.092, "MISTY RAIN", Nevada Test Site (Dept. of Energy).
07	00	19	33.1	56.390	S	122.309	W	10 G	5.6 6.1	1.2	113	EASTER ISLAND CORDILLERA. Ms 6.3 (PAS).
07	00	33	42.3?	33.54	S	72.21	W	33 N		0.8	5	OFF COAST OF CENTRAL CHILE
07	01	20	29.8*	10.920	S	112.743	E	33 N	4.0	1.1	7	SOUTH OF JAVA
07	04	46	09.3%	16.140	N	98.425	W	33 N		1.0	6	NEAR COAST OF GUERRERO, MEXICO
07	08	15	26.2	36.320	N	6.251	W	16		1.0	13	STRAIT OF GIBRALTAR
07	09	31	18.1	4.478	N	128.009	E	79	5.4	1.0	102	NORTH OF HALMAHERA
07	09	57	30.2*	23.957	N	142.680	E	33 N	4.3	0.6	12	VOLCANO ISLANDS REGION

07	09 59 02.57	42.37 N	12.49 E	10 G	1.4	5	CENTRAL ITALY. ML 2.5 (KBA).
07	10 06 56.07	65.02 N	166.45 W	15 G	1.7	5	ALASKA. ML 4.2 (PMR).
07	10 15 54.3*	43.453 N	13.218 E	10 G	1.5	6	CENTRAL ITALY
07	10 29 08.27	33.44 S	71.70 W	33 N	1.3	5	NEAR COAST OF CENTRAL CHILE
07	11 11 50.8	10.509 N	92.315 E	33 N	4.9 4.1	1.0	56 ANDAMAN ISLANDS REGION
07	11 32 17.9	5.215 S	150.562 E	193	4.6	0.9	19 NEW BRITAIN REGION
07	11 34 42.37	33.42 S	72.28 W	33 N	1.4	5	OFF COAST OF CENTRAL CHILE
07	12 42 35.7	14.874 N	123.529 E	25	5.3 4.5	0.8	80 LUZON, PHILIPPINE ISLANDS
07	13 33 46.2	37.908 N	20.024 E	32	4.8 4.0	1.3	118 IONIAN SEA. ML 4.3 (ATH).
07	14 23 25.8*	2.744 S	128.449 E	33 N	0.7	7	CERAM SEA
07	15 00 32.67	15.91 N	93.45 W	33 N	1.4	7	NEAR COAST OF CHIAPAS, MEXICO
07	15 33 08.87	37.28 N	20.82 E	10 G	1.3	6	IONIAN SEA
07	16 24 00.5*	60.277 N	150.754 W	46	4.1	60	KENAI PENINSULA, ALASKA. <AGS-P>.
07	16 42 29.7*	36.957 S	177.266 E	167	1.3	14	OFF E. COAST OF N. ISLAND, N.Z.
07	16 48 07.5*	63.020 N	150.999 W	137		35	CENTRAL ALASKA. <AGS-P>.
07	20 03 09.9*	23.808 N	121.835 E	10 G	0.4	5	TAIWAN
07	20 35 09.6	7.140 N	33.914 W	10 G	4.8	0.8	24 CENTRAL MID-ATLANTIC RIDGE
07	21 10 09.6	24.325 N	69.929 E	33 N	5.0	1.3	14 INDIA-PAKISTAN BORDER REG.
07	21 27 36.9	21.225 S	61.868 E	10 G	5.2 4.7	1.1	138 ARABIAN SEA
07	21 53 16.0*	22.375 S	68.860 W	159 *	1.2	7	NORTHERN CHILE
07	23 40 50.9*	37.448 N	22.115 E	33 N	3.5	1.5	5 SOUTHERN GREECE. ML 3.3 (ATH).
08	00 58 04.8*	59.828 N	5.169 E	10 G	0.3	6	SOUTHERN NORWAY. DUR 2.0 (BER).
08	01 09 33.1*	34.050 N	118.920 W	13		11	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS). Felt (V) at Simi Valley, (IV) at Camarillo and Thousand Oaks and (III) at Port Hueneme. Felt in Ventura and Los Angeles Counties.
08	01 26 51.1*	13.582 N	120.946 E	33 N	4.6	1.6	6 MINDORO, PHILIPPINE ISLANDS
08	02 36 32.6*	32.587 S	68.336 W	142 ?	0.5	7	MENBOZA PROVINCE, ARGENTINA
08	03 34 17.1*	5.461 N	126.586 E	33 N	4.7	1.0	8 MINDANAO, PHILIPPINE ISLANDS
08	03 45 22.9	11.048 S	166.923 E	33 N	4.6	1.0	32 SANTA CRUZ ISLANDS
08	05 01 01.8*	35.783 N	138.719 E	31 *	1.3	7	HONSHU, JAPAN
08	07 30 26.77	11.22 S	167.85 E	33 N	4.7	1.3	12 SANTA CRUZ ISLANDS
08	08 03 25.1*	38.833 N	122.752 W	2 G		25	NORTHERN CALIFORNIA. <BRK>. ML 3.1 (BRK). Mo=3.2*10**21 (BRK). Felt strongly in the area of The Geysers.
08	08 45 22.77	2.56 S	100.43 E	33 N	4.7	1.1	6 SOUTHERN SUMATRA
08	09 41 56.1*	19.266 N	144.816 E	397 ?	4.5	0.8	21 MARIANA ISLANDS
08	09 55 59.1	7.113 N	33.869 W	10 G	5.2 4.9	0.9	94 CENTRAL MID-ATLANTIC RIDGE
08	10 03 05.5*	39.095 N	27.566 E	10 G		0.0	5 TURKEY
08	10 04 18.2*	39.114 N	27.592 E	10 G		0.3	5 TURKEY
08	10 15 02.2	26.932 S	177.470 W	109 D	4.9	1.2	76 SOUTH OF FIJI ISLANDS
08	10 17 04.6	11.310 N	86.774 W	55 *	4.5	1.2	52 NEAR COAST OF NICARAGUA
08	12 45 26.97	31.31 S	68.24 W	111 ?		0.4	5 SAN JUAN PROVINCE, ARGENTINA
08	13 04 12.0	14.344 N	59.544 W	10 G		0.2	5 WINDWARD ISLANDS
08	13 20 24.9*	34.050 N	118.920 W	13		9	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS). Felt at Thousand Oaks.
08	14 44 28.27	56.65 N	3.05 E	10 G		0.6	6 NORTH SEA. ML 2.8 (ELO), DUR 2.2 (BER).
08	15 12 57.4	8.011 S	74.319 W	156 D	4.8	0.6	19 PERU-BRAZIL BORDER REGION
08	16 07 53.47	15.84 N	98.01 W	33 N		1.6	5 OFF COAST OF GUERRERO, MEXICO
08	16 17 12.8	5.717 S	154.062 E	48	5.4 5.6	1.0	131 SOLOMON ISLANDS
08	18 21 34.3*	39.928 N	27.496 E	10 G		0.4	6 TURKEY
08	19 15 06.3	4.124 S	136.268 E	14	5.7 5.9	1.1	139 WEST IRIAN REGION
08	21 34 35.9	4.109 S	136.298 E	10 G	4.8	0.8	34 WEST IRIAN REGION
08	22 04 38.8*	9.770 S	120.151 E	33 N	4.6	1.5	11 SUMBA ISLAND REGION
08	22 40 53.3*	26.353 S	28.600 E	5 G		1.6	5 REPUBLIC OF SOUTH AFRICA
08	22 41 26.0*	53.798 N	169.206 E	33 N	4.5	0.7	16 KOMANDORSKY ISLANDS REGION
08	23 27 25.2	33.025 S	71.974 W	33 N	5.0	1.0	38 NEAR COAST OF CENTRAL CHILE. Felt (IV) in the Valparaíso-Vina del Mar area and (II) at Santiago.
09	00 27 23.7*	23.076 N	121.435 E	10 G		0.5	6 TAIWAN
09	00 56 50.57	38.23 N	31.11 E	10 G		1.5	5 TURKEY
09	01 07 21.0	23.983 N	121.070 E	10 G		0.3	8 TAIWAN
09	01 52 58.37	41.86 N	19.70 E	10 G		1.2	5 ALBANIA. ML 2.1 (TTG).
09	01 56 59.4	34.131 S	71.618 W	38 D	6.3 7.2	1.1	356 NEAR COAST OF CENTRAL CHILE. Ms 7.5 (BRK), 7.0 (PAS). One person died from a heart attack, several people injured and some damage (VI) in the Santiago-Valparaíso area. One additional person died from a heart attack at Chillan. Felt throughout much of central Chile from La Serena to Osorno. Felt (IV) at Mendoza, Argentina. Also felt in San Juan, San Luis, Cordoba, Tucuman and Santa Fe Provinces, Argentina.
09	03 02 14.1*	38.184 N	72.787 E	33 N	4.6	1.4	15 TAJIK SSR
09	03 23 24.7*	36.212 N	120.283 W	5 G		24	CENTRAL CALIFORNIA. <BRK>. ML 3.7 (BRK), 3.7 (PAS). Felt (V) at Coalingo.
09	03 31 03.17	39.21 N	46.60 E	33 N	4.2	1.3	6 N.W. IRAN-USSR BORDER REGION. Minor damage at Zangelan, USSR.
09	03 42 28.6*	36.208 N	120.282 W	5 G		17	CENTRAL CALIFORNIA. <BRK>. ML 3.2 (BRK), 3.4 (PAS).
09	04 03 24.0*	14.980 N	143.220 E	33 N	3.6	0.5	7 MARIANA ISLANDS REGION
09	04 22 50.4*	45.958 N	143.061 E	308 ?	4.1	0.9	19 HOKKAIDO, JAPAN REGION
09	04 53 20.2*	41.327 N	23.070 E	10 G		0.6	6 GREECE-BULGARIA BORDER REGION
09	04 55 23.2	6.665 S	147.925 E	65 *	5.1	1.1	46 EAST PAPUA NEW GUINEA REGION
09	05 08 40.7*	23.751 S	66.752 W	217 *	4.2	1.0	10 JUJUY PROVINCE, ARGENTINA
09	05 15 35.9	34.092 N	140.719 E	44	5.2 5.8	1.1	188 NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Yokohama and on Oshima. Felt (I JMA) at Ajiro, Mishima, Tateyama, Tokyo and on Hachijo-jima.
09	05 49 08.1	34.278 S	71.193 W	33 N		0.7	5 NEAR COAST OF CENTRAL CHILE
09	06 13 56.1	29.809 N	138.996 E	415	4.4	0.7	62 SOUTH OF HONSHU, JAPAN
09	06 25 08.1*	60.716 N	150.242 W	45		33	KENAI PENINSULA, ALASKA. <AGS-P>.
09	07 19 12.8	40.846 N	23.691 E	10 G		0.9	19 GREECE
09	08 19 31.7*	2.185 S	121.883 E	33 N	3.9	1.3	6 SULAWESI
09	09 42 35.97	37.00 S	71.00 W	10 G	4.3	1.3	6 CHILE-ARGENTINA BORDER REGION
09	09 50 16.0*	23.007 S	68.689 W	139 *	4.3	1.4	9 NORTHERN CHILE
09	10 24 19.0	66.430 N	149.746 W	10 G		0.7	8 ALASKA. ML 3.6 (PMR).
09	10 24 20.1*	7.156 S	123.224 E	600 ?	4.7	0.8	12 BANDA SEA
09	11 49 34.0*	38.820 N	122.812 W	2 G		16	NORTHERN CALIFORNIA. <BRK>. ML 2.8 (BRK).

09	11	53	36.6	17.052 N	62.378 W	27	3.9	0.5	12	LEEWARD ISLANDS
09	12	11	37.07	17.87 S	178.88 W	655 ?	5.1	0.7	20	FIJI ISLANDS REGION
09	12	30	43.9	16.995 N	62.451 W	17	4.3	0.8	17	LEEWARD ISLANDS
09	14	27	24.37	4.33 S	136.33 E	33 N	3.7	1.5	7	WEST IRIAN REGION
09	14	28	05.3	36.261 N	6.238 W	10 G		1.4	10	STRAIT OF GIBRALTAR
09	14	40	10.2	60.358 N	150.853 W	41			54	KENAI PENINSULA, ALASKA. <AGS-P>. ML 3.4 (PMR).
09	15	34	26.4	13.761 N	90.642 W	73 *	4.3	1.1	30	NEAR COAST OF GUATEMALA. Felt (III) at San Salvador, El Salvador.
09	17	00	53.2	61.646 N	150.896 W	68			31	SOUTHERN ALASKA. <AGS-P>.
09	18	22	38.37	41.44 N	23.42 E	10 G		0.5	5	GREECE-BULGARIA BORDER REGION
09	18	36	52.8	13.229 N	144.883 E	59	4.8	1.0	27	MARIANA ISLANDS. Felt (IV) on Guam.
09	18	52	58.2	37.243 N	121.648 W	5 G			13	CENTRAL CALIFORNIA. <BRK>. ML 2.9 (BRK). Mo=1.5*10**20 (BRK).
09	19	08	35.7	59.833 N	150.955 W	52			34	KENAI PENINSULA, ALASKA. <AGS-P>.
09	19	36	49.9	5.109 N	127.252 E	76 *	4.6	1.2	11	PHILIPPINE ISLANDS REGION
09	20	54	34.1	38.889 N	25.788 E	10 G		1.2	9	AEGEAN SEA. ML 3.1 (ATH).
09	22	36	49.9	21.911 N	62.078 E	10 G	4.2	1.2	7	ARABIAN SEA
10	00	07	33.47	38.99 N	144.79 E	33 N		0.9	6	OFF EAST COAST OF HONSHU, JAPAN
10	00	08	13.3	43.575 N	146.604 E	90	4.9	0.9	81	KURIL ISLANDS. Felt (III) at Yuzhno-Kurilsk. Also felt (II JMA) at Nemuro and (I JMA) at Kushiro, Hokkaido.
10	00	35	59.8	38.521 N	2.860 W	10 G		1.2	16	SPAIN. ML 3.8 (LDG).
10	01	26	15.67	17.00 N	62.68 W	33 N		0.2	5	LEEWARD ISLANDS
10	02	19	45.8	2.598 S	138.668 E	33 N	4.5	1.0	14	WEST IRIAN
10	02	34	54.47	33.95 S	72.29 W	33 N	4.2	1.5	8	OFF COAST OF CENTRAL CHILE
10	03	00	54.4	38.200 N	22.689 E	10 G		1.4	5	GREECE. ML 2.8 (ATH).
10	03	02	02.9	44.304 N	114.228 W	10 G		0.8	9	WESTERN IDAHO. ML 3.2 (NEIS).
10	03	15	15.6	6.626 N	72.816 W	185 *		0.9	12	NORTHERN COLOMBIA
10	03	56	47.4	36.994 N	27.497 E	33 N	4.5	1.5	11	DODECANESE ISLANDS. ML 4.0 (ATH).
10	05	10	56.2	18.531 N	69.124 W	139	4.8	0.9	106	DOMINICAN REPUBLIC REGION
10	06	10	18.5	44.776 N	112.933 W	5 G		0.7	7	EASTERN IDAHO. ML 3.0 (BUT).
10	06	15	52.3	16.949 N	62.475 W	33 N	4.2	0.6	12	LEEWARD ISLANDS
10	07	02	07.1	16.923 N	62.511 W	33 N	4.3	0.8	13	LEEWARD ISLANDS
10	07	53	40.47	24.93 N	122.65 E	156 ?		0.2	8	TAIWAN REGION
10	08	35	10.5	36.972 N	27.512 E	33 N	4.2	1.3	12	DODECANESE ISLANDS. ML 4.0 (ATH).
10	09	30	41.0	6.026 S	106.767 W	10 G	4.5 4.4	1.3	33	NORTHERN EASTER I. CORDILLERA
10	09	38	06.47	4.48 N	122.86 E	599 ?	4.9	1.0	11	CELEBES SEA
10	09	58	24.1	66.044 N	150.264 W	10 G		1.3	7	ALASKA. ML 3.9 (PMR).
10	10	44	41.3	37.064 N	31.169 E	10 G		0.5	6	TURKEY
10	12	26	00.47	38.26 S	72.10 W	33 N	4.5	1.3	8	CENTRAL CHILE
10	12	52	05.37	17.25 N	62.20 W	33 N		0.1	5	LEEWARD ISLANDS
10	12	55	36.0	35.849 N	137.688 E	10 G		1.1	8	HONSHU, JAPAN. Felt (I JMA) at Iida.
10	13	16	42.47	6.31 S	106.76 W	10 G	4.2	0.7	6	NORTHERN EASTER I. CORDILLERA
10	13	47	07.27	33.57 N	141.36 E	33 N		0.7	6	OFF EAST COAST OF HONSHU, JAPAN
10	14	12	13.5	23.639 N	121.547 E	10 G		1.3	7	TAIWAN
10	15	16	42.6	50.451 N	6.118 E	10 G		0.2	5	GERMANY
10	15	23	04.57	31.37 S	68.74 W	111 ?		0.8	5	SAN JUAN PROVINCE, ARGENTINA
10	15	30	49.7	44.880 N	100.288 E	33 N	4.6	1.3	21	MONGOLIA
10	16	21	34.2	6.869 N	72.877 W	188 *	4.1	0.8	17	NORTHERN COLOMBIA
f 10	16	26	20.5	29.962 N	138.927 E	420	5.8	1.1	469	SOUTH OF HONSHU, JAPAN. mb 5.8 (PAS). Felt (IV JMA) at Utsunomiya and (III JMA) at Yakahama, Tokyo, Nikko and Fukushima. Felt in large parts of central and northern Honshu and on Chichi-shima. Also felt (I JMA) on Hojijo-jimo and at Obihiro, Hokkaido.
10	17	45	40.37	33.90 S	71.70 W	33 N		0.8	7	NEAR COAST OF CENTRAL CHILE
10	17	56	45.97	34.30 S	72.36 W	33 N		0.5	7	NEAR COAST OF CENTRAL CHILE
10	18	24	44.37	5.54 S	147.46 E	210 ?	4.3	0.1	5	EAST PAPUA NEW GUINEA REGION
10	19	02	47.3	8.690 S	109.191 E	33 N	4.1	1.6	7	JAVA
10	19	21	41.1	20.943 S	68.924 W	136 *	4.3	1.2	11	CHILE-BOLIVIA BORDER REGION
10	19	38	07.6	7.800 N	126.987 E	53 ?	5.2	1.4	21	MINDANAO, PHILIPPINE ISLANDS
a 10	20	15	36.6	1.560 N	77.017 W	10 G	5.3 4.7	1.4	125	COLOMBIA. Felt at Cali, Popayan and Pasto.
10	20	34	17.9	66.328 N	149.921 W	10 G		1.1	8	ALASKA. ML 3.6 (PMR).
a 10	20	37	33.7	49.988 N	159.416 E	28 *	5.5 4.9	0.9	244	KURIL ISLANDS REGION
10	20	38	09.7	6.478 N	124.013 E	34 *	4.7	1.4	31	MINDANAO, PHILIPPINE ISLANDS
10	20	39	59.47	31.44 S	67.70 W	10 G		0.1	4	SAN JUAN PROVINCE, ARGENTINA
10	20	57	17.3	24.801 N	122.176 E	10 G		1.0	6	TAIWAN REGION
11	02	12	44.7	32.016 S	67.179 W	135 *		0.6	13	MENDOZA PROVINCE, ARGENTINA
11	02	18	16.6	50.357 N	18.786 E	10 G		0.7	5	POLAND. ML 3.2 (KBA), 3.1 (VKA), 3.1 (KRA).
11	02	49	05.1	59.494 N	152.570 W	70			32	SOUTHERN ALASKA. <AGS-P>.
11	03	44	00.37	46.95 N	149.99 E	167 ?	4.4	1.6	10	KURIL ISLANDS
11	04	20	25.0	44.248 N	101.813 E	33 N	4.6	1.1	14	MONGOLIA
11	05	28	58.9	60.668 N	149.436 W	39			36	KENAI PENINSULA, ALASKA. <AGS-P>.
11	06	16	53.97	23.96 N	122.45 E	10 G		0.4	5	TAIWAN REGION
11	06	33	23.6	2.848 S	119.893 E	33 N	4.7	1.1	14	SULAWESI
11	07	33	57.67	38.23 N	20.59 E	10 G		0.1	4	GREECE. ML 3.4 (ATH).
11	07	34	08.87	33.51 S	71.21 W	33 N		0.7	5	NEAR COAST OF CENTRAL CHILE
11	08	33	34.3	59.961 N	152.098 W	60			31	SOUTHERN ALASKA. <AGS-P>.
11	09	08	48.57	32.57 S	71.88 W	33 N		0.2	5	NEAR COAST OF CENTRAL CHILE
11	11	06	00.4	28.614 S	68.439 W	14		1.3	10	LA RIOJA PROVINCE, ARGENTINA
11	11	14	40.47	33.46 S	71.62 W	33 N	3.0	1.6	7	NEAR COAST OF CENTRAL CHILE
11	11	43	28.37	22.76 S	114.51 W	10 G	4.8	1.4	7	EASTER ISLAND REGION
a 11	11	55	15.1	35.598 S	179.001 E	108	5.7	1.2	231	OFF E. COAST OF N. ISLAND, N.Z. Felt (IV) at Wellington.
11	12	03	40.57	16.08 N	119.72 E	33 N		1.0	5	LUZON, PHILIPPINE ISLANDS
11	12	29	54.8	38.914 N	20.469 E	10 G		1.3	13	GREECE. ML 4.0 (ATH).
11	12	32	31.97	60.336 N	5.374 E	0 G		0.3	5	SOUTHERN NORWAY. DUR 1.6 (BER). Explosion.
11	12	44	45.37	33.95 S	72.19 W	33 N	4.0	1.7	8	OFF COAST OF CENTRAL CHILE
11	13	11	46.4	40.688 N	28.874 E	10 G	4.3 4.1	1.0	29	TURKEY. ML 4.5 (ATH). Felt at Istanbul.
a 11	13	12	31.1	53.237 S	25.307 E	10 G	5.1 5.1	1.3	25	SOUTH OF AFRICA
11	13	47	04.0	24.326 N	121.520 E	10 G		0.5	6	TAIWAN
11	15	20	39.3	38.071 N	74.027 E	152 *	4.6	1.2	27	TAJIK-XINJIANG BORDER REGION
11	15	34	24.37	6.27 S	147.78 E	62 ?	3.4	1.1	5	EAST PAPUA NEW GUINEA REGION
11	15	59	07.4	60.967 N	147.639 W	21			35	SOUTHERN ALASKA. <AGS-P>.
11	18	17	48.2	60.163 N	5.013 E	0 G		1.4	5	SOUTHERN NORWAY. DUR 1.7 (BER). Explosion.

11	18 23 10.37	34.19 S	139.90 E	33 N	1.6	5	NEAR SOUTH COAST OF AUSTRALIA. ML 3.7 (STK).
11	18 31 56.3*	43.736 N	127.333 W	10 G	4.4	0.9	18 OFF COAST OF OREGON
11	20 01 13.37	33.40 S	72.85 W	33 N	1.7	5	OFF COAST OF CENTRAL CHILE
11	20 53 05.8*	2.632 S	100.624 E	33 N	4.5	0.8	8 SOUTHERN SUMATERA
11	21 17 05.8*	60.094 N	152.816 W	103		35	SOUTHERN ALASKA. <AGS-P>.
11	21 39 48.9	46.264 N	13.145 E	10 G	1.1	7	AUSTRIA. ML 2.6 (KBA), DUR 2.3 (TRI).
11	23 06 18.57	1.54 N	126.68 E	33 N	4.7	1.2	10 MOLUCCA PASSAGE
11	23 07 42.3*	53.574 N	35.540 W	10 G	4.9	1.0	16 NORTH ATLANTIC OCEAN
11	23 10 59.57	32.35 S	178.50 W	33 N	4.9	1.3	9 SOUTH OF KERMADEC ISLANDS
12	00 00 42.7*	44.017 N	148.410 E	33 N	4.6	1.2	25 KURIL ISLANDS
12	00 32 30.3*	8.159 S	107.013 E	33 N	4.6	1.3	15 JAVA
12	01 05 25.7*	21.228 S	68.802 W	164 ?		0.6	7 CHILE-BOLIVIA BORDER REGION
12	01 18 54.2*	61.003 N	149.819 W	40		40	SOUTHERN ALASKA. <AGS-P>.
12	01 53 22.27	33.96 S	72.26 W	33 N	3.2	1.2	7 OFF COAST OF CENTRAL CHILE
12	02 33 39.5*	60.027 N	147.202 W	27	4.6	61	SOUTHERN ALASKA. <AGS-P>. ML 3.7 (PMR).
12	03 08 50.1	36.643 N	70.699 E	33 N	4.8	1.1	31 HINDU KUSH REGION. Felt (III) at Khorog, USSR.
12	04 02 50.97	32.96 S	72.26 W	33 N	3.3	0.6	5 OFF COAST OF CENTRAL CHILE
12	04 18 33.5*	3.569 N	127.061 E	62 ?	4.6	1.2	28 TALAUD ISLANDS
12	05 27 29.1	45.332 N	70.692 W	5 G		0.9	8 MAINE. mbLg 3.5 (NEIS). Felt (III) at Stratton.
a	06 12 45.0	11.343 S	165.687 E	33 N	5.7	5.9	1.1 200 SANTA CRUZ ISLANDS
12	06 33 24.7*	11.386 S	165.836 E	33 N	4.9	1.3	15 SANTA CRUZ ISLANDS
12	07 01 10.0*	23.648 S	177.675 W	262 *	5.1	1.1	27 SOUTH OF FIJI ISLANDS
12	07 24 49.3*	60.649 N	5.931 E	10 G		0.8	5 SOUTHERN NORWAY. DUR 1.7 (BER).
12	07 50 36.97	13.91 N	145.17 E	77 *	4.4	1.2	18 MARIANA ISLANDS
12	10 16 04.7*	56.330 N	162.341 E	33 N	4.8	0.9	24 NEAR EAST COAST OF KAMCHATKA
12	11 28 46.7*	44.610 N	110.503 W	5 G		1.0	8 YELLOWSTONE NATIONAL PARK, WYO. ML 3.0 (NEIS), 3.2 (BUT).
12	12 02 10.2*	35.902 N	142.216 E	33 *	4.3	0.7	15 OFF EAST COAST OF HONSHU, JAPAN
12	12 19 43.0*	32.930 S	68.971 W	33 N		0.5	6 MENDOZA PROVINCE, ARGENTINA
12	12 57 56.9*	32.364 S	71.266 W	33 N		1.0	5 NEAR COAST OF CENTRAL CHILE
12	13 07 58.3*	11.564 S	165.852 E	33 N		1.0	13 SANTA CRUZ ISLANDS
a	14 34 55.7	23.944 S	60.553 W	25 D	5.3	1.0	107 PARAGUAY. Felt at Asuncion.
12	14 55 43.8	1.465 N	98.964 E	124	4.9	1.1	57 NORTHERN SUMATERA
12	16 12 10.4	35.582 N	140.053 E	74	4.6	1.0	66 NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Yokohama and (I JMA) at Tokyo, Tateyama and on Oshima.
12	16 27 20.7*	15.633 S	71.754 W	166 *		1.3	10 SOUTHERN PERU
12	16 57 38.97	3.46 N	95.52 E	33 N	3.9	1.9	7 OFF W COAST OF NORTHERN SUMATERA
12	20 58 41.1	22.466 S	66.849 W	199	5.0	1.3	40 JUJUY PROVINCE, ARGENTINA
12	21 05 08.1*	5.987 S	105.575 E	67 ?	5.1	1.4	33 SUNDA STRAIT
12	21 53 53.0*	44.911 N	150.678 E	33 N	4.7	1.1	22 KURIL ISLANDS REGION
12	22 25 21.97	32.20 S	67.88 W	33 N		1.5	5 MENDOZA PROVINCE, ARGENTINA
12	22 45 28.57	34.01 S	72.31 W	33 N	3.3	1.4	10 NEAR COAST OF CENTRAL CHILE
13	00 34 20.27	33.56 S	72.95 W	33 N	3.5	1.4	6 OFF COAST OF CENTRAL CHILE
13	00 46 51.2*	38.851 N	26.529 E	10 G		1.1	6 AEGEAN SEA
a	01 06 00.1	9.245 S	114.185 E	99 D	6.2	1.0	329 SOUTH OF BALI ISLAND. Several buildings damaged at Denpasar, Bali. Felt strongly on Bali and Lombok. Also felt in eastern Java. Possible local tsunami observed along the southern coast of Bali.
13	01 37 36.2*	36.233 N	120.832 W	5 G		1.1	11 CENTRAL CALIFORNIA. <BRK>. ML 2.9 (BRK).
13	01 46 53.7	34.236 N	137.255 E	323	4.2	0.7	36 NEAR S. COAST OF HONSHU, JAPAN
13	02 32 56.7*	3.872 S	79.867 W	33 N	4.3	0.8	8 NEAR COAST OF ECUADOR
f	03 00 06.7	1.622 N	126.411 E	51 D	6.4	6.7	1.2 394 MOLUCCA PASSAGE. Ms 6.7 (BRK), 6.6 (PAS). Felt at Manado, Sulawesi.
13	03 42 44.8*	1.643 N	126.324 E	33 N	4.5	1.0	11 MOLUCCA PASSAGE
13	03 51 32.6*	52.001 N	170.094 W	33 N	4.5	0.7	14 FOX ISLANDS, ALEUTIAN ISLANDS
13	04 03 27.8	38.484 N	25.194 E	10 G	4.1	0.9	22 AEGEAN SEA. ML 4.1 (ATH).
13	04 12 39.4	16.976 N	62.481 W	19	5.0	0.9	58 LEEWARD ISLANDS. Felt on Antigua, St. Kitts, Montserrat and Guadeloupe.
13	04 13 46.57	43.29 N	20.83 E	10 G		1.2	5 YUGOSLAVIA
13	04 44 20.9*	45.791 N	14.587 E	10 G		0.5	5 YUGOSLAVIA. ML 2.7 (KBA), DUR 2.6 (TRI). Felt (V) at Dragatuz and (IV) at Crnomelj.
13	04 53 34.8*	1.582 N	126.462 E	33 N	4.7	1.5	14 MOLUCCA PASSAGE
13	05 19 34.47	1.56 N	126.20 E	33 N	4.7	1.2	12 MOLUCCA PASSAGE
13	09 09 46.67	51.17 N	15.53 E	10 G		0.8	4 POLAND
13	09 18 43.3*	23.026 S	68.698 W	163 ?		1.3	7 NORTHERN CHILE
13	10 08 32.47	7.15 S	124.85 E	577 *	4.2	0.4	8 BANDA SEA
13	10 15 25.9*	38.803 N	122.765 W	3		1.5	15 NORTHERN CALIFORNIA. <BRK>. ML 2.9 (BRK).
13	11 09 28.7	1.737 N	126.396 E	33 N	4.9	0.9	22 MOLUCCA PASSAGE
13	11 22 35.4*	44.193 N	10.937 E	10 G		0.6	7 NORTHERN ITALY. ML 2.9 (KBA).
13	11 34 20.3*	49.882 N	12.861 E	10 G		1.0	5 GERMANY. ML 3.7 (VKA), 3.5 (KBA), 3.0 (FUR).
13	12 27 42.77	4.50 S	154.45 E	173 *	4.7	0.8	8 SOLOMON ISLANDS
13	13 05 45.1*	60.375 N	152.490 W	98		1.6	SOUTHERN ALASKA. <AGS-P>.
13	13 20 06.1*	39.000 N	26.563 E	10 G		0.8	5 TURKEY
13	13 55 26.6*	66.058 N	150.152 W	10 G		0.8	7 ALASKA. ML 4.1 (PMR).
13	14 08 06.6*	1.736 N	126.445 E	33 N	4.5	1.5	11 MOLUCCA PASSAGE
13	15 05 02.1*	40.273 N	124.640 W	16		1.2	12 NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.8 (BRK). Mo=8.0*10**20 (BRK). Felt at Ferndale.
13	15 10 02.0*	1.816 N	126.413 E	33 N	4.5	1.2	16 MOLUCCA PASSAGE
13	16 17 39.4*	11.198 S	165.389 E	33 N	5.0	0.7	9 SANTA CRUZ ISLANDS
13	16 46 03.7*	54.854 N	163.872 W	33 N	5.0	0.8	38 UNIMAK ISLAND REGION
13	16 54 26.8*	28.853 S	70.794 W	33 N	4.6	0.7	8 CENTRAL CHILE
13	18 24 14.8	42.213 N	19.609 E	10 G		0.8	11 YUGOSLAVIA. ML 2.9 (TTG).
13	20 52 55.07	44.27 S	15.94 W	10 G	4.5	1.3	11 SOUTH ATLANTIC RIDGE
13	20 54 27.87	16.92 N	62.46 W	33 N		0.7	5 LEEWARD ISLANDS
13	22 28 38.57	16.78 N	62.44 W	33 N		0.4	6 LEEWARD ISLANDS
14	00 24 21.3*	9.426 S	113.977 E	121 *	4.5	0.3	7 SOUTH OF JAVA
14	00 47 53.4*	60.130 N	152.782 W	114		2.0	SOUTHERN ALASKA. <AGS-P>.
14	03 46 41.2*	37.460 N	118.620 W	6 G		1.0	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.1 (PAS).
14	04 11 46.3*	31.940 N	116.360 W	6 G		9	BAJA CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
14	06 55 51.0*	40.502 N	124.735 W	15 G		4	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.4 (BRK).
a	06 58 07.9	18.676 N	145.578 E	212 D	5.0	1.1	146 MARIANA ISLANDS
14	07 12 56.9*	35.905 N	27.406 E	33 N		1.5	11 DODECANESE ISLANDS. ML 3.8 (ATH).
14	07 24 08.1	34.160 N	135.029 E	10 G		0.2	7 NEAR S. COAST OF SOUTHERN HONSHU. Felt (II JMA) at

14	07 42 03.8*	17.114 S	179.152 W	515 ?	4.6	0.9	19	Wakayama.
14	08 31 55.8*	44.452 N	6.774 E	10 G		0.7	9	FIJI ISLANDS REGION
14	08 53 06.4*	26.586 N	127.206 E	84	4.4	1.2	9	FRANCE. ML 2.8 (LDG).
14	09 14 36.9*	66.34 N	149.83 W	10 G		1.0	12	RYUKYU ISLANDS. Felt (I JMA) on Kume-shima.
14	09 30 57.4	33.957 S	72.020 W	33 N	4.8 4.7	1.2	5	ALASKA
14	10 33 57.5*	40.722 N	29.200 E	10 G		1.2	58	OFF COAST OF CENTRAL CHILE
14	11 48 43.7	11.097 S	73.876 W	106 D	4.6	0.9	6	TURKEY
14	13 42 23.0*	26.44 S	175.80 W	33 N		0.5	38	PERU
14	14 26 55.8*	60.327 N	150.003 W	56			7	SOUTH OF TONGA ISLANDS
14	14 49 58.3*	39.040 N	29.752 E	10 G		1.1	38	KENAI PENINSULA, ALASKA. <AGS-P>.
14	15 34 17.5*	31.417 S	68.242 W	10 G		0.7	7	TURKEY
14	15 55 24.9*	39.094 N	27.685 E	10 G		0.5	5	SAN JUAN PROVINCE, ARGENTINA
14	17 03 11.8*	13.530 N	145.609 E	57 *	4.4 3.8	1.1	5	TURKEY
14	17 06 52.3*	38.159 N	38.521 E	33 N		0.9	28	MARIANA ISLANDS
14	17 49 20.7*	31.45 S	68.73 W	114 ?		0.1	6	TURKEY
14	18 16 16.7*	31.17 S	69.04 W	117 ?		0.2	5	SAN JUAN PROVINCE, ARGENTINA
14	20 01 39.2*	40.710 N	29.164 E	10 G		1.3	5	SAN JUAN PROVINCE, ARGENTINA
14	20 06 33.0*	38.802 S	175.993 E	111 ?		0.3	10	TURKEY
14	20 28 13.2	6.464 S	148.881 E	57 *	4.7	1.0	9	NORTH ISLAND, NEW ZEALAND
14	20 44 36.9*	43.263 N	19.829 E	10 G		0.7	12	NEW BRITAIN REGION
14	21 39 03.4*	47.231 N	153.102 E	33 N	4.8	0.6	7	YUGOSLAVIA. ML 2.5 (TTG).
14	21 39 06.4*	43.98 N	113.98 W	5 G		1.0	21	KURIL ISLANDS
14	21 48 00.2	35.174 N	109.071 W	5 G		0.6	5	EASTERN IDAHO. ML 3.0 (NEIS).
							10	EASTERN ARIZONA. ML 3.3 (NEIS). Felt (III) at Zuni, New Mexico.
14	22 53 09.5*	3.13 N	128.29 E	33 N	4.7	0.3	8	NORTH OF HALMAHERA
14	23 01 32.9*	31.41 S	68.85 W	118 ?		0.2	6	SAN JUAN PROVINCE, ARGENTINA
14	23 11 34.8*	31.49 S	68.88 W	116 ?		0.0	5	SAN JUAN PROVINCE, ARGENTINA
14	23 21 59.8*	25.58 S	175.70 W	33 N	4.8	0.6	7	SOUTH OF TONGA ISLANDS
15	00 15 48.8*	11.34 N	72.87 W	33 N		0.7	5	NEAR NORTH COAST OF COLOMBIA
15	02 27 48.4*	39.782 N	26.558 E	10 G		1.3	5	TURKEY
15	02 28 41.2*	58.958 N	152.306 W	65			26	KODIAK ISLAND REGION. <AGS-P>.
15	04 00 23.8*	43.07 N	14.97 W	10 G		0.7	8	NORTH ATLANTIC OCEAN
15	04 07 47.5	55.264 N	156.548 W	33 N	5.0 4.0	0.9	128	SOUTH OF ALASKA. ML 4.8 (PMR).
15	04 36 17.9*	37.317 N	20.849 E	33 N	4.0	1.0	17	IONIAN SEA. ML 3.9 (ATH).
15	04 41 50.9	33.491 S	71.960 W	33 N	5.1 5.2	1.1	68	NEAR COAST OF CENTRAL CHILE. Felt (III) at Santiago.
15	05 45 17.4	28.327 S	69.803 W	33 N		1.0	8	CHILE-ARGENTINA BORDER REGION
15	06 31 05.3*	33.641 S	72.278 W	33 N	4.5	1.5	20	OFF COAST OF CENTRAL CHILE. Felt (III) at Santiago.
15	07 35 17.6*	40.787 N	28.946 E	10 G		0.7	6	TURKEY
15	08 27 52.7*	30.85 S	72.09 W	33 N		0.8	7	OFF COAST OF CENTRAL CHILE
15	08 45 16.7	6.689 S	86.500 E	10 G	4.8	1.1	19	SOUTH INDIAN OCEAN
15	08 48 34.0*	31.21 S	68.71 W	110 ?		0.1	5	SAN JUAN PROVINCE, ARGENTINA
15	09 43 16.7*	39.098 N	27.604 E	10 G		0.3	6	TURKEY
15	10 09 06.8*	15.566 N	95.859 W	33 N	4.1	1.1	16	NEAR COAST OF OAXACA, MEXICO
15	11 06 09.3*	4.672 S	152.728 E	33 N	4.4	1.1	7	NEW BRITAIN REGION
15	11 14 26.6	35.121 N	27.806 E	33 N	4.2	1.0	42	DODECANESE ISLANDS
15	11 24 00.4	30.249 N	66.330 E	33 N	4.8	1.2	54	PAKISTAN. Felt at Quetta.
15	11 49 42.0*	41.148 N	28.475 E	10 G		0.7	6	TURKEY
15	11 56 42.7*	34.05 S	72.16 W	33 N	4.5	1.5	8	NEAR COAST OF CENTRAL CHILE
15	12 17 33.8*	60.277 N	5.377 E	0 G		0.5	5	SOUTHERN NORWAY. DUR 1.6 (BER). Explosion.
15	12 25 04.4	37.328 N	71.727 E	144 *	4.2	1.2	21	AFGHANISTAN-USSR BORDER REGION
15	13 14 20.6*	9.632 S	113.735 E	120 *	4.6	1.1	7	SOUTH OF JAVA
15	15 28 42.7*	1.839 N	126.682 E	66 *	4.6	1.1	17	MOLUCCA PASSAGE
15	15 44 59.5*	16.407 N	61.281 W	33 N		0.1	6	LEEWARD ISLANDS. ML 2.6 (PAG).
15	15 55 53.2	38.865 N	25.657 E	10	4.1	0.9	32	AEGEAN SEA. ML 3.8 (ATH).
15	17 17 54.9*	31.763 S	72.323 W	33 N		0.8	11	OFF COAST OF CENTRAL CHILE
15	17 23 23.3*	18.43 N	62.74 W	33 N		0.7	6	LEEWARD ISLANDS. ML 3.9 (MLG).
15	17 31 29.5*	38.79 N	9.22 W	5 G		1.3	6	PORTUGAL. Felt (III) at Cascais and Guincho.
15	18 09 06.6*	35.182 N	103.944 E	10 G	3.6	1.9	5	GANSU PROVINCE, CHINA
15	18 24 16.4*	15.89 N	62.82 W	33 N		1.5	9	LEEWARD ISLANDS
15	19 02 07.0	51.373 N	1.402 E	10 G		1.2	21	UNITED KINGDOM. ML 3.4 (LDG), 3.1 (HCG).
15	20 42 11.1*	34.02 S	72.52 W	33 N	4.2	1.2	12	NEAR COAST OF CENTRAL CHILE
15	20 43 47.8*	33.87 S	178.65 E	314 ?	3.7	0.8	10	SOUTH OF KERMADec ISLANDS
15	22 25 13.5*	20.46 S	69.55 W	33 N		0.7	5	NORTHERN CHILE
15	23 17 09.2*	46.58 N	0.86 E	10 G		1.0	4	FRANCE. ML 2.0 (LDG).
16	00 25 37.2*	46.956 N	0.621 W	10 G		0.3	5	FRANCE. ML 2.1 (LDG).
16	00 40 23.6	39.764 N	20.479 E	10 G	4.6	1.3	81	GREECE-ALBANIA BORDER REGION. ML 4.2 (ATH), 3.8 (TTG), 3.8 (SKO).
16	03 10 33.3*	35.60 N	141.40 E	33 N	4.6	1.4	9	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Choshi.
16	03 23 46.7	45.247 N	7.504 E	10 G		0.5	16	NORTHERN ITALY. ML 3.0 (LDG).
16	03 31 54.3	33.042 S	72.205 W	33 N	4.8	1.2	60	OFF COAST OF CENTRAL CHILE. Felt (III) at Santiago.
16	04 00 45.0	33.124 S	72.356 W	33 N	4.8	1.1	42	OFF COAST OF CENTRAL CHILE. Felt (II) at Santiago.
16	04 54 40.5*	60.077 N	152.595 W	80			30	SOUTHERN ALASKA. <AGS-P>.
16	04 59 30.7	40.408 N	26.104 E	10 G		0.6	10	TURKEY
16	05 22 32.1*	21.31 S	178.66 W	521 ?		1.0	9	FIJI ISLANDS REGION
16	05 29 46.2*	33.424 S	72.096 W	33 N		0.3	10	OFF COAST OF CENTRAL CHILE
16	05 45 51.3*	20.798 S	178.719 W	546 *	4.5	0.9	24	FIJI ISLANDS REGION
16	07 59 58.8	9.380 N	73.677 W	33 N	4.7	1.3	39	NORTHERN COLOMBIA
16	09 11 52.4*	60.272 N	153.328 W	155			28	SOUTHERN ALASKA. <AGS-P>.
16	09 41 47.3*	40.195 N	122.073 W	5 G			9	NORTHERN CALIFORNIA. <BRK>. ML 2.7 (BRK).
16	09 46 33.0*	40.435 N	26.046 E	10 G		0.5	10	TURKEY
16	10 54 51.9*	42.734 N	0.519 E	10 G		0.8	14	PYRENEES. ML 3.3 (LDG).
16	11 13 12.5*	33.07 S	72.51 W	33 N		1.3	6	OFF COAST OF CENTRAL CHILE
16	11 16 54.1*	39.863 N	20.399 E	10 G	3.5	1.6	10	GREECE-ALBANIA BORDER REGION. ML 3.9 (ATH).
16	12 10 09.7*	44.63 N	6.82 E	10 G		0.4	5	FRANCE. ML 2.8 (LDG).
16	12 30 55.4	24.430 S	179.768 E	503 *	4.7	1.0	42	SOUTH OF FIJI ISLANDS
16	12 46 12.1*	60.473 N	5.478 E	0 G		0.1	5	SOUTHERN NORWAY. DUR 1.6 (BER). Explosion.
16	12 46 45.1	39.790 N	20.559 E	10 G	4.8	1.5	71	GREECE-ALBANIA BORDER REGION. ML 4.3 (TTG), 4.1 (ATH).
16	13 08 01.6	39.773 N	20.527 E	10 G	4.1	1.4	22	GREECE-ALBANIA BORDER REGION. ML 3.7 (ATH).
16	14 03 53.4*	59.597 N	153.025 W	89			28	SOUTHERN ALASKA. <AGS-P>.
16	14 32 31.1*	61.446 N	149.826 W	47			36	SOUTHERN ALASKA. <AGS-P>. ML 2.7 (PMR). Felt at Anchorage.



16	17 03 12.7	61.173 N	151.492 W	71						33	SOUTHERN ALASKA. <AGS-P>.
a 16	17 07 32.9	4.686 N	127.270 E	118	5.2	1.1	95	TALAUD ISLANDS			
16	17 51 29.2	19.086 N	147.198 E	33 N	4.9	1.3	18	MARIANA ISLANDS REGION			
16	18 49 42.8	38.994 N	29.948 E	10 G		1.5	6	TURKEY			
16	19 00 34.6	39.739 N	20.551 E	10 G	4.0	1.3	30	GREECE-ALBANIA BORDER REGION. ML 3.9 (ATH).			
16	19 14 34.2	35.635 N	87.183 E	33 N	3.3	1.5	15	TIBET			
16	19 45 08.2	35.65 S	71.12 W	33 N		1.2	8	CENTRAL CHILE			
16	19 49 17.9	0.247 S	123.987 E	116 ?	4.1	1.3	10	MINAHASSA PENINSULA			
16	20 22 45.6	42.265 N	82.248 E	33 N	4.5	1.1	28	NORTHERN XINJIANG, CHINA			
16	20 32 23.0	28.19 N	129.82 E	33 N	4.2	0.6	9	RYUKYU ISLANDS. Felt (II JMA) at Naze.			
16	21 30 02.8	33.181 S	72.414 W	33 N	4.6	1.4	14	OFF COAST OF CENTRAL CHILE			
16	22 05 48.9	31.361 S	179.529 E	440	5.1	1.2	84	KERMADEC ISLANDS REGION			
a 16	22 38 44.5	3.367 S	143.438 E	25	5.6 5.0	1.0	136	NEAR N COAST OF PAPUA NEW GUINEA			
17	00 27 37.6	40.121 N	142.474 E	47 D	5.1 4.3	0.9	131	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Morioka and Miyako, (II JMA) at Hachinohe, (I JMA) at Aomori.			
17	00 51 05.4	3.46 S	128.36 E	33 N	4.9	0.9	9	CERAM			
17	01 58 14.3	23.997 N	96.024 E	38 *	4.7	1.3	51	BURMA			
17	02 09 34.3	1.846 N	126.511 E	33 N	5.1	1.2	50	MOLUCCA PASSAGE			
a 17	04 16 16.6	52.107 S	14.445 E	10 G	5.1 4.9	1.3	21	SOUTHWEST OF AFRICA			
17	05 44 46.2	40.101 N	29.296 E	10 G		0.7	8	TURKEY			
17	05 45 18.4	60.039 N	153.258 W	118			27	SOUTHERN ALASKA. <AGS-P>.			
17	06 07 47.6	66.429 N	149.678 W	10 G		0.8	8	ALASKA. ML 3.8 (PMR).			
17	06 42 09.5	15.12 N	105.72 W	10 G	4.0 3.9	1.4	14	OFF COAST OF MICHOACAN, MEXICO			
17	07 08 07.3	38.74 N	20.18 E	10 G	3.4	1.1	12	GREECE			
17	08 28 52.6	15.273 N	105.201 W	10 G	4.4 4.5	1.1	34	OFF COAST OF MICHOACAN, MEXICO			
17	08 31 55.1	57.655 S	65.777 W	33 N	4.9	1.5	18	DRAKE PASSAGE			
17	09 49 20.2	15.211 N	105.304 W	10 G	4.4 4.4	1.3	32	OFF COAST OF MICHOACAN, MEXICO			
17	09 54 38.8	39.525 N	29.204 E	10 G		1.0	5	TURKEY			
17	10 22 15.6	33.496 N	133.163 E	33 N		0.5	8	SHIKOKU, JAPAN. Felt (III JMA) at Kochi. Also felt (I JMA) at Okayama, Honshu.			
17	10 29 51.4	44.192 N	113.488 W	10 *		1.3	7	EASTERN IDAHO. ML 3.0 (NEIS), 3.3 (BUT).			
17	10 52 35.3	11.16 N	126.24 E	33 N	4.2	0.8	8	PHILIPPINE ISLANDS REGION			
17	11 23 48.0	18.415 S	67.069 W	272 *	4.0	1.4	10	BOLIVIA			
17	11 36 42.9	47.122 N	3.916 E	10 G		1.4	14	FRANCE. ML 3.0 (LDG).			
17	14 06 09.4	5.708 S	147.079 E	185 *	4.6	1.5	10	EAST PAPUA NEW GUINEA REGION			
17	15 59 55.9	61.101 N	5.492 E	10 G		1.3	6	SOUTHERN NORWAY. DUR 3.1 (BER).			
17	16 04 28.5	18.255 N	145.356 E	460	4.6	0.5	21	MARIANA ISLANDS			
17	16 15 25.3	39.142 N	27.577 E	10 G		0.4	6	TURKEY			
17	16 43 02.9	18.473 S	178.029 W	495	4.6	0.8	24	FILIPINE ISLANDS REGION			
17	17 03 22.9	60.710 N	5.653 E	0 G		0.8	5	SOUTHERN NORWAY. DUR 1.7 (BER). Explosion.			
17	17 39 10.9	47.883 N	7.718 E	10 G		1.2	5	SWITZERLAND. ML 2.9 (LDG).			
17	20 30 08.5	24.335 S	69.104 W	88 *	4.9	1.0	38	NORTHERN CHILE. Felt (II) at Antofagasta.			
17	21 02 56.6	21.061 S	66.589 W	219	4.9	0.9	52	SOUTHERN BOLIVIA			
17	23 04 38.7	42.776 N	20.257 E	10 G		0.5	8	YUGOSLAVIA. ML 2.8 (TTG).			
17	23 25 05.0	60.258 N	153.640 W	175			20	SOUTHERN ALASKA. <AGS-P>.			
a 18	00 06 32.8	52.144 N	159.630 E	33 N	5.7 5.4	1.0	280	OFF EAST COAST OF KAMCHATKA. Ms 5.4 (BRK). Felt (IV) at Petropavlovsk-Kamchatskiy.			
18	02 35 40.2	61.377 N	151.819 W	99			27	SOUTHERN ALASKA. <AGS-P>.			
18	04 06 48.0	52.044 N	159.677 E	33 N	4.9	1.0	74	OFF EAST COAST OF KAMCHATKA			
a 18	05 52 52.8	25.926 N	102.871 E	5 G	5.7 5.8	1.4	239	YUNNAN PROVINCE, CHINA. Twenty-three people killed, 300 injured and damage in the Luquan-Xundian area.			
18	06 14 42.1	25.820 N	102.875 E	5 G	4.5	1.8	18	YUNNAN PROVINCE, CHINA			
18	06 16 51.2	56.255 N	156.678 W	23	4.5	0.9	40	ALASKA PENINSULA			
18	06 33 40.9	4.999 S	152.992 E	59 *	5.0	1.1	14	NEW BRITAIN REGION			
18	06 46 06.4	25.777 N	102.873 E	5 G	4.3	1.2	7	YUNNAN PROVINCE, CHINA			
18	09 39 45.0	0.011 S	126.794 E	71 *	5.3	1.0	77	MOLUCCA SEA			
18	12 02 03.2	33.947 S	72.415 W	33 N	4.6	1.1	17	OFF COAST OF CENTRAL CHILE			
18	14 11 14.7	5.533 N	93.981 E	74 ?	4.3	1.4	14	OFF W COAST OF NORTHERN SUMATERA			
18	14 41 51.9	43.307 N	17.322 E	8	4.5	1.4	60	YUGOSLAVIA. ML 4.3 (KBA), 4.2 (VKA). Felt (VI) in the Mostar-Split area. Also felt strongly in other parts of southwestern Yugoslavia.			
18	14 50 27.5	25.767 N	102.893 E	5 G	4.4	0.8	7	YUNNAN PROVINCE, CHINA			
18	15 58 53.8	40.03 N	30.21 E	10 G		0.6	7	TURKEY			
18	16 29 49.6	39.102 N	122.012 W	10 G	3.8		17	NORTHERN CALIFORNIA. <BRK>. ML 3.7 (BRK). Mo=2.0*10**22 (BRK). Felt (V) at Arbuckle, (IV) at College City, (III) at Grimes and (II) at Williams.			
18	16 34 41.1	39.783 N	44.799 E	33 N	4.5	1.3	12	N.W. IRAN-USSR BORDER REGION			
18	20 56 51.2	52.216 N	159.674 E	33 N	4.7	0.9	39	OFF EAST COAST OF KAMCHATKA			
18	21 26 04.1	32.810 N	116.100 W	6 G			3	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.1 (PAS).			
18	22 09 37.0	17.391 S	66.227 E	10 G	4.7	0.5	11	MASCARENE ISLANDS REGION			
18	23 17 05.5	43.077 N	0.650 W	10 G		0.2	8	PYRENEES			
19	00 08 56.8	40.847 N	23.640 E	12		0.2	7	GREECE			
19	02 16 49.3	61.159 N	152.351 W	115			26	SOUTHERN ALASKA. <AGS-P>.			
19	02 46 40.2	46.410 N	13.661 E	10 G		1.5	6	AUSTRIA. ML 1.8 (KBA).			
19	03 55 52.3	32.210 N	116.940 W	6 G			17	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.8 (PAS). Felt (IV) at Campo, La Mesa and Potrero. Felt (III) at El Cajon. Also felt at San Diego.			
19	04 50 12.8	10.552 S	124.403 E	33 N	5.2	1.2	32	TIMOR			
19	06 22 33.0	41.676 N	13.898 E	10 G		1.3	17	SOUTHERN ITALY. ML 3.1 (KBA).			
19	07 45 16.3	27.539 N	56.316 E	33 N	4.4	1.2	20	SOUTHERN IRAN. Felt in the Kerman area.			
19	08 20 16.1	45.803 N	11.088 E	10 G		0.9	24	NORTHERN ITALY. ML 3.6 (KBA), 3.4 (LDG), 3.3 (TRI).			
19	08 59 07.6	33.62 S	72.13 W	33 N		0.6	5	OFF COAST OF CENTRAL CHILE			
19	09 07 26.4	20.29 N	143.62 E	33 N	3.8	0.4	6	MARIANA ISLANDS REGION			
19	09 23 13.8	51.165 N	178.626 E	67 *	4.2	1.0	14	RAT ISLANDS, ALEUTIAN ISLANDS			
19	10 05 09.5	39.34 N	29.75 E	10 G		1.1	5	TURKEY			
19	11 00 58.2	6.02 S	129.43 E	211 ?		1.7	5	BANDA SEA			
19	12 39 18.4	42.573 N	24.080 E	10 G		0.3	6	BULGARIA			
19	13 53 58.7	44.439 N	57.928 E	33 N	4.7	0.9	7	UZBEK SSR			
19	14 47 35.2	50.448 N	19.042 E	10 G	4.3	0.9	11	POLAND. ML 3.8 (KBA), 3.8 (VKA).			
19	16 53 16.1	31.374 S	67.946 W	15 G		0.5	5	SAN JUAN PROVINCE, ARGENTINA			
19	17 07 44.9	7.05 S	130.11 E	116 ?	3.9	1.6	6	TANIMBAR ISLANDS REGION			
a 19	17 43 10.8	11.848 N	86.651 W	72	5.3	1.1	248	NEAR COAST OF NICARAGUA. Ms 5.8 (PAS), mb 5.8 (PAS).			

										Felt along the west coast and at Managua. Also felt in western Costa Rica.									
19	17	55	34.6	11.766 N	86.851 W	60	5.3	1.2	137	NEAR COAST OF NICARAGUA. Felt along the west coast. Also felt in western Costa Rica.									
19	18	33	28.6*	11.459 N	86.946 W	96 ?	4.6	1.0	33	NEAR COAST OF NICARAGUA									
19	19	47	25.8*	35.739 N	140.094 E	33 N		1.4	8	NEAR EAST COAST OF HONSHU, JAPAN									
19	21	36	03.7*	66.354 N	149.780 W	10 G		1.1	8	ALASKA. ML 3.4 (PMR).									
19	22	18	21.57	33.85 S	71.79 W	33 N		1.5	7	NEAR COAST OF CENTRAL CHILE									
19	22	26	35.2*	11.457 S	165.599 E	33 N		1.5	14	SANTA CRUZ ISLANDS									
19	22	28	13.3	40.612 N	23.589 E	10 G		0.3	6	GREECE									
19	22	45	21.7*	31.890 S	67.898 W	33 N		1.2	5	SAN JUAN PROVINCE, ARGENTINA									
19	23	27	09.8	44.296 N	10.060 E	10 G		0.7	7	NORTHERN ITALY. ML 2.9 (LDG).									
19	23	59	13.6	28.304 N	53.646 E	33 N	4.6	1.0	26	SOUTHERN IRAN									
20	01	37	58.9*	7.489 N	73.207 W	150 *	4.4	1.2	15	NORTHERN COLOMBIA									
20	02	26	30.5*	56.170 S	27.499 W	110 ?	5.0	1.1	39	SOUTH SANDWICH ISLANDS REGION									
20	02	37	29.9*	18.386 N	105.102 W	33 N	4.2	1.2	26	OFF COAST OF JALISCO, MEXICO									
20	02	54	10.7*	46.030 N	113.561 W	5 G		1.2	9	MONTANA. ML 3.2 (NEIS).									
20	03	08	28.0	38.144 N	74.197 E	144 *	4.7	1.1	26	TAJIK-XINJIANG BORDER REGION									
20	03	18	43.4*	45.354 S	168.134 E	10 G	3.9	1.2	8	SOUTH ISLAND, NEW ZEALAND									
20	04	40	58.1*	33.869 S	71.735 W	33 N		1.3	13	NEAR COAST OF CENTRAL CHILE									
20	06	20	34.3	44.474 N	114.273 W	10 G		0.8	10	WESTERN IDAHO. ML 3.3 (NEIS).									
20	06	21	32.37	33.40 S	71.61 W	33 N		1.5	10	NEAR COAST OF CENTRAL CHILE									
20	06	45	09.6*	6.523 S	154.942 E	49	4.6	1.0	15	SOLOMON ISLANDS. Felt (III) at Arawa, Bougainville.									
20	08	49	29.87	24.25 N	122.31 E	10 G		0.5	6	TAIWAN REGION									
20	09	33	56.9*	37.420 N	118.650 W	6 G			10	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.0 (PAS).									
20	09	47	36.27	6.22 S	136.19 E	33 N		1.4	5	WEST IRIAN REGION									
20	10	35	39.3	37.405 N	142.383 E	54	4.8	1.0	71	OFF EAST COAST OF HONSHU, JAPAN									
20	10	36	40.87	33.23 S	73.08 W	33 N		0.9	8	OFF COAST OF CENTRAL CHILE									
20	11	48	52.7*	36.547 N	139.898 E	33 N		0.5	6	HONSHU, JAPAN									
20	11	57	41.87	14.41 N	92.74 W	33 N	3.7	1.0	9	NEAR COAST OF CHIAPAS, MEXICO									
20	12	31	50.7	33.161 S	72.419 W	33 N	4.5	1.0	25	OFF COAST OF CENTRAL CHILE									
20	12	45	49.6*	61.941 N	146.915 W	28			48	SOUTHERN ALASKA. <AGS-P>.									
20	13	29	51.5*	31.057 S	68.854 W	134 *		1.2	8	SAN JUAN PROVINCE, ARGENTINA									
20	14	47	33.0*	29.178 N	53.127 E	33 N	4.6	0.9	16	SOUTHERN IRAN									
20	14	48	54.8*	18.666 N	61.939 W	33 N		0.3	7	LEEWARD ISLANDS									
20	15	52	58.5*	33.988 S	70.688 W	33 N		1.6	10	CHILE-ARGENTINA BORDER REGION. Felt (II) at San Antonio, Santiago and Melipilla.									
a 20	18	23	48.0	9.004 N	77.460 W	38 D	5.6 5.9	1.1	283	NEAR NORTH COAST OF COLOMBIA. Ms 6.2 (BRK), 5.7 (PAS). Felt in the Cartagena-Medellin area. Felt (IV) at Panama City, Panama.									
20	18	51	44.9*	32.014 S	68.067 W	33 N		0.5	5	MENDOZA PROVINCE, ARGENTINA									
20	19	24	02.5	8.966 N	77.306 W	33 N		1.3	14	PANAMA-COLOMBIA BORDER REGION									
20	20	09	29.6	41.403 N	23.518 E	10 G		1.1	10	GREECE-BULGARIA BORDER REGION									
20	21	08	33.7*	39.032 N	31.280 E	10 G		0.9	14	TURKEY									
20	21	18	26.07	45.60 N	14.40 E	10 G		1.0	5	YUGOSLAVIA. ML 2.1 (KBA).									
20	21	29	34.47	39.78 N	22.59 E	10 G		1.2	9	GREECE									
20	23	30	49.9*	38.101 N	23.234 E	10 G		0.8	5	GREECE. ML 2.7 (ATH).									
21	00	13	18.97	51.15 N	169.44 W	33 N	4.8	1.5	10	FOX ISLANDS, ALEUTIAN ISLANDS									
21	01	25	41.9*	37.604 N	20.025 E	10 G		0.6	13	IONIAN SEA. ML 3.8 (ATH).									
21	01	46	27.8	17.060 N	62.389 W	32		0.6	13	LEEWARD ISLANDS									
21	02	41	37.07	30.88 S	70.01 W	145 ?		0.7	6	CHILE-ARGENTINA BORDER REGION									
21	02	45	42.8*	24.546 N	121.699 E	60 ?		0.3	8	TAIWAN									
21	04	27	43.77	2.93 S	139.90 E	33 N	4.0	1.4	5	NEAR N. COAST OF WEST IRIAN									
21	05	32	54.3	39.017 N	72.378 E	33 N	4.7 3.9	1.1	34	KIRGHIZ SSR									
21	05	44	31.8*	42.567 N	142.826 E	52 *	4.4	0.9	10	HOKKAIDO, JAPAN REGION. Felt (I JMA) at Hirao and Urakawa.									
21	06	06	37.2	44.168 N	10.317 E	10 G		0.6	8	NORTHERN ITALY. ML 3.2 (LDG), 2.8 (KBA).									
21	06	39	08.1	8.977 N	77.331 W	33 N	4.2	1.2	17	PANAMA-COLOMBIA BORDER REGION. Felt (II) at Panama City, Panama.									
21	07	08	57.6*	38.949 N	27.126 E	10 G		1.0	6	TURKEY									
a 21	08	49	40.5	35.665 N	22.192 E	35	5.0 5.2	1.2	214	MEDITERRANEAN SEA. ML 5.1 (ATH).									
21	10	27	32.5	26.044 N	123.624 E	287	4.3	0.8	33	NORTHEAST OF TAIWAN									
21	11	51	45.7*	39.112 N	27.618 E	10 G		0.3	5	TURKEY									
21	12	14	45.87	33.97 S	72.23 W	33 N		1.3	10	OFF COAST OF CENTRAL CHILE									
21	12	15	54.4*	25.135 S	179.517 E	526 *	5.2	0.9	25	SOUTH OF FIJI ISLANDS									
21	13	18	22.2*	39.095 N	27.641 E	10 G		0.4	6	TURKEY									
a 21	13	21	27.5	35.527 N	87.283 E	33 N	5.0 5.4	1.0	106	TIBET									
21	13	28	23.3	29.734 N	137.776 E	511	5.1	1.1	250	SOUTH OF HONSHU, JAPAN									
21	13	29	55.2*	59.982 N	5.309 E	10 G		0.4	5	SOUTHERN NORWAY. DUR 1.8 (BER).									
a 21	13	53	00.7	5.181 S	130.443 E	79 D	5.9	1.0	240	BANDA SEA									
21	13	56	46.2*	33.282 S	72.111 W	33 N		1.2	17	OFF COAST OF CENTRAL CHILE									
21	14	06	13.2*	39.103 N	27.621 E	10 G		0.3	7	TURKEY									
21	14	29	08.2	35.767 N	140.149 E	87	4.4	0.9	41	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajiro and Utsunomiya and (I JMA) at Kofu, Tateyama, Tokyo, Yokohama and on Oshima.									
21	14	57	01.2*	19.952 S	121.878 E	33 N	5.0	1.6	9	WESTERN AUSTRALIA									
21	15	04	51.3	55.793 N	154.441 W	33 N	4.8 4.8	1.1	64	SOUTH OF ALASKA. ML 4.8 (PMR).									
21	15	08	38.8*	39.093 N	27.532 E	10 G		0.3	6	TURKEY									
21	15	17	42.1*	33.658 S	72.300 W	33 N	4.6	1.4	12	OFF COAST OF CENTRAL CHILE									
21	15	25	04.5*	55.545 N	154.415 W	33 N		0.2	5	SOUTH OF ALASKA									
21	15	25	15.1	55.618 N	154.515 W	33 N	5.2 4.8	0.9	153	SOUTH OF ALASKA. ML 5.3 (PMR).									
21	15	47	00.2	55.729 N	154.428 W	33 N	4.8 4.7	1.0	76	SOUTH OF ALASKA. ML 4.6 (PMR).									
21	15	53	39.5*	7.510 S	154.914 E	33 N	5.1	0.6	18	SOLOMON ISLANDS									
21	16	29	39.7*	33.803 S	71.997 W	33 N	4.3	1.5	15	NEAR COAST OF CENTRAL CHILE									
21	16	43	50.4	55.793 N	154.511 W	33 N	4.5	0.9	25	SOUTH OF ALASKA									
21	17	27	00.9	35.809 N	70.105 E	101 *	4.6	1.1	15	HINDU KUSH REGION									
21	17	39	49.5	0.501 S	80.510 W	33 N	4.6	1.2	19	NEAR COAST OF ECUADOR									
a 21	17	54	27.3	22.806 S	174.784 W	33 N	5.3 5.1	1.1	81	TONGA ISLANDS REGION									
21	18	13	18.9	43.888 N	16.506 E	10 G		1.3	62	YUGOSLAVIA. ML 4.5 (KBA), 4.3 (TRI). Felt at Split and along the Dalmatian coastal area from Makarska to Sibenik.									
21	18	50	43.2*	37.320 N	121.710 W	5 G			13	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK). Mo=9.7*10**19 (BRK).									

21	19 00 40.6*	66.039 N	150.137 W	10 G	0.6	5	ALASKA. ML 3.2 (PMR).
21	19 26 57.8*	55.778 N	154.500 W	33 N 4.5	0.6	17	SOUTH OF ALASKA
21	20 06 02.3*	61.485 N	149.947 W	57		31	SOUTHERN ALASKA. <AGS-P>.
21	21 03 09.5*	17.503 N	62.755 W	125 *	0.4	14	LEEWARD ISLANDS
21	21 15 57.27	34.12 S	72.27 W	33 N	1.2	8	NEAR COAST OF CENTRAL CHILE
21	21 24 03.0	42.954 N	20.760 E	10 G	1.2	10	YUGOSLAVIA. ML 2.6 (TTG).
21	21 33 00.6*	60.145 N	153.096 W	132		20	SOUTHERN ALASKA. <AGS-P>.
21	21 56 52.77	6.24 S	148.02 E	33 N	1.2	7	NEW BRITAIN REGION
21	22 14 56.8*	62.410 N	148.555 W	35		39	CENTRAL ALASKA. <AGS-P>. ML 4.3 (PMR). Felt (II) at Palmer.
21	23 16 19.67	24.35 N	122.93 E	33 N	0.3	6	TAIWAN REGION
22	00 48 46.1*	40.133 N	29.296 E	10 G	0.4	5	TURKEY
22	01 06 30.97	33.56 S	71.95 W	33 N	1.5	7	NEAR COAST OF CENTRAL CHILE
22	02 51 05.5*	39.739 N	20.612 E	10 G 3.4	1.4	13	GREECE-ALBANIA BORDER REGION
22	03 31 35.8	39.810 N	118.888 E	33 N 4.5	1.5	22	NORTHEASTERN CHINA
22	04 19 24.8	33.455 S	72.244 W	33 N 4.9 4.7	1.1	52	OFF COAST OF CENTRAL CHILE. Felt (III) at Santiago.
22	04 44 19.47	17.44 N	98.28 W	33 N	1.2	6	GUERRERO, MEXICO
22	04 49 01.87	35.53 N	21.91 E	33 N 3.8	0.5	8	MEDITERRANEAN SEA
22	05 05 06.8*	36.371 N	32.321 E	10 G	0.9	10	TURKEY
22	05 21 38.7	41.444 N	142.040 E	72 4.7	1.2	34	HOKKAIDO, JAPAN REGION. Felt (I JMA) at Hachinohe, Honshu.
22	05 43 39.07	33.40 S	71.88 W	33 N	0.6	5	NEAR COAST OF CENTRAL CHILE
22	06 53 07.7*	39.502 N	96.887 E	33 N 4.1	0.6	6	GANSU PROVINCE, CHINA
22	06 53 40.4*	33.515 S	72.250 W	33 N 4.3	1.3	14	OFF COAST OF CENTRAL CHILE
22	07 04 02.0*	39.656 N	20.969 E	10 G	1.6	5	GREECE-ALBANIA BORDER REGION
22	07 14 38.7*	33.513 S	72.435 W	33 N 4.7	1.3	16	OFF COAST OF CENTRAL CHILE
22	07 38 05.9*	39.762 N	20.353 E	10 G	1.2	8	GREECE-ALBANIA BORDER REGION
22	08 55 30.3*	33.425 S	72.077 W	33 N	0.8	9	OFF COAST OF CENTRAL CHILE
22	09 06 44.6*	0.066 E	124.906 E	33 N 4.8	1.1	9	MOLUCCA SEA
22	09 07 51.7*	39.655 N	29.506 E	10 G	1.7	5	TURKEY
22	09 36 54.4	0.045 N	124.258 E	113 * 5.4	1.2	86	MINAHASSA PENINSULA
22	10 01 43.5	39.651 N	20.844 E	10 G	0.8	16	GREECE-ALBANIA BORDER REGION
22	11 02 39.8*	39.770 N	118.656 E	33 N	1.4	9	NORTHEASTERN CHINA
22	11 19 48.4*	9.723 N	126.812 E	50 ? 5.0	1.4	23	MINDANAO, PHILIPPINE ISLANDS
22	11 25 12.8	42.550 N	7.850 E	33 N	0.8	28	WESTERN MEDITERRANEAN SEA. ML 3.8 (LDG).
22	11 57 01.2	39.650 N	118.786 E	33 N 4.0	0.8	10	NORTHEASTERN CHINA
22	13 32 49.6	18.415 N	145.911 E	165 * 4.9	0.9	42	MARIANA ISLANDS
22	13 38 55.07	17.42 N	101.25 W	33 N	0.7	5	NEAR COAST OF GUERRERO, MEXICO
22	14 43 44.7*	40.205 N	29.935 E	10 G	1.3	6	TURKEY
22	15 28 19.67	45.35 N	25.14 E	10 G	1.4	5	ROMANIA
22	16 11 27.3*	60.090 N	152.595 W	91		34	SOUTHERN ALASKA. <AGS-P>.
22	17 34 56.4*	37.127 N	121.542 W	5 G		15	CENTRAL CALIFORNIA. <BRK>. ML 2.9 (BRK). Mo=1.2*10**20 (BRK).
22	17 50 19.7*	60.910 N	151.751 W	84		43	KENAI PENINSULA, ALASKA. <AGS-P>.
22	18 02 05.6*	62.232 N	151.240 W	81		26	CENTRAL ALASKA. <AGS-P>.
22	18 41 27.77	33.96 S	71.59 W	33 N	1.2	7	NEAR COAST OF CENTRAL CHILE
22	19 06 36.2*	0.221 N	98.537 E	91 ?	0.5	6	NORTHERN SUMATRA
22	19 20 19.47	33.95 S	71.58 W	33 N	1.5	6	NEAR COAST OF CENTRAL CHILE
22	19 28 03.97	33.65 S	71.61 W	33 N	1.6	7	NEAR COAST OF CENTRAL CHILE
22	20 41 24.1	59.773 N	153.407 W	135 4.5	0.8	71	SOUTHERN ALASKA
22	23 38 52.77	32.31 N	137.77 E	400 * 4.5	1.0	12	SOUTH OF HONSHU, JAPAN
22	23 53 28.17	39.40 N	24.07 E	10 G	0.7	6	AEGEAN SEA
23	00 24 35.7	42.069 N	19.990 E	10 G	1.0	19	YUGOSLAVIA. ML 3.1 (TTG).
23	00 28 55.3*	38.148 N	38.166 E	10 G	0.5	7	TURKEY
23	01 04 51.37	33.95 S	71.70 W	33 N	1.0	8	NEAR COAST OF CENTRAL CHILE
23	01 43 00.1*	19.599 S	68.683 W	151 * 4.9	1.2	15	CHILE-BOLIVIA BORDER REGION
23	02 53 36.7*	18.473 N	61.986 W	33 N	0.5	7	LEEWARD ISLANDS
23	03 50 36.6*	36.497 N	121.105 W	5 G		13	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
23	04 38 14.9	6.594 S	154.648 E	33 N 4.8	0.6	13	SOLOMON ISLANDS. Felt (III) at Panguna, Bougainville.
23	05 42 28.47	5.14 S	144.57 E	33 N	0.8	5	PAPUA NEW GUINEA
23	05 45 47.0	57.053 N	156.150 W	73 4.6	0.7	46	ALASKA PENINSULA. Felt (III) at Chignik Lake.
23	06 01 54.6*	59.340 N	153.395 W	99		21	SOUTHERN ALASKA. <AGS-P>.
23	06 06 47.8*	60.181 N	152.208 W	66		29	SOUTHERN ALASKA. <AGS-P>.
23	06 32 04.8*	59.316 N	144.764 W	30 4.2		58	GULF OF ALASKA. <AGS-P>. ML 3.8 (PMR).
23	07 36 59.9*	37.132 N	121.520 W	5 G		13	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
23	08 11 09.6	19.631 N	146.766 E	70 * 4.7	0.9	26	MARIANA ISLANDS REGION
23	08 12 11.8*	23.796 N	121.871 E	32 *	0.2	7	TAIWAN
23	08 23 59.6	41.683 N	20.817 E	10 G	1.0	8	ALBANIA. ML 2.6 (TTG).
23	08 28 24.97	33.16 S	72.97 W	33 N	0.6	8	OFF COAST OF CENTRAL CHILE
23	08 45 29.0*	39.587 N	29.363 E	10 G	1.2	5	TURKEY
23	08 59 42.0*	60.369 N	5.361 E	10 G	0.9	6	SOUTHERN NORWAY. DUR 1.9 (BER).
23	10 11 52.27	17.22 N	62.12 W	33 N	1.2	7	LEEWARD ISLANDS
23	10 47 25.2*	44.706 N	112.143 W	5 G	1.2	10	EASTERN IDAHO. ML 3.2 (NEIS), 3.5 (BUT).
23	11 03 18.2	42.104 N	19.973 E	10 G	1.3	10	YUGOSLAVIA. ML 3.0 (TTG).
23	11 06 24.97	33.51 S	71.71 W	33 N	1.6	9	NEAR COAST OF CENTRAL CHILE
23	12 05 45.27	46.04 N	15.09 E	10 G	0.2	5	YUGOSLAVIA. ML 2.5 (KBA).
23	12 14 11.27	11.80 N	145.28 E	33 N 4.9	1.2	9	SOUTH OF MARIANA ISLANDS
23	12 23 53.4	33.015 N	73.252 E	33 N 4.7	0.7	25	PAKISTAN
23	12 29 25.5	8.832 S	29.333 E	10 G 4.9	1.3	13	LAKE TANGANYIKA REGION
23	12 46 43.3	36.280 N	26.924 E	135 4.1	1.0	34	DODECANESE ISLANDS
23	13 16 36.97	59.19 N	6.25 E	0 G	0.9	5	SOUTHERN NORWAY. DUR 2.7 (BER). Explosion.
23	14 38 10.4*	39.635 N	29.460 E	10 G	0.9	8	TURKEY
23	14 40 21.9*	40.278 N	124.101 W	10 G	0.2	5	NEAR COAST OF NORTHERN CALIF. ML 3.4 (BRK).
23	14 47 02.9*	37.122 N	121.547 W	7		12	CENTRAL CALIFORNIA. <BRK>. ML 2.9 (BRK). Mo=2.9*10**20 (BRK).
23	15 16 21.9	13.469 N	88.611 W	37 * 4.8	1.1	51	EL SALVADOR. Felt (VI) at Berlin, Chinameca and Santiago de Moria, and (II) at San Salvador. Also felt in southern Honduras. Thirty cm. graben 800 m. to 1 km. wide formed 4 days later on Tecapa Volcano.
23	16 02 07.7*	60.316 N	5.273 E	10 G	0.3	5	SOUTHERN NORWAY. DUR 1.7 (BER).
f 23	16 15 12.0	15.344 N	120.610 E	188 6.3	1.1	511	LUZON, PHILIPPINE ISLANDS. mb 6.0 (PAS). Felt (IV RF) at Manila and Santa and (III RF) at Callao Caves, Pasuquin and Quezan City. Felt by personnel on four

23	17 14 57.57	23.59 N	122.12 E	10 G		0.3	5	naval vessels in Subic Bay.
23	17 22 32.27	33.80 S	71.71 W	33 N		1.0	6	TAIWAN REGION
23	17 59 03.7	11.510 S	116.998 E	33 N	5.0	1.2	20	NEAR COAST OF CENTRAL CHILE
23	18 17 08.47	39.078 N	28.573 E	10 G		1.3	5	SOUTH OF SUMBAWA ISLAND
23	19 00 36.6*	24.128 S	67.567 W	188 ?		1.4	7	TURKEY
23	19 08 35.4*	61.268 N	146.121 W	22			50	CHILE-ARGENTINA BORDER REGION
23	19 11 40.6*	23.598 S	66.688 W	239 *	4.5	0.4	6	SOUTHERN ALASKA. <AGS-P>.
23	19 39 46.3*	43.226 N	21.024 E	10 G		0.5	7	JUJUY PROVINCE, ARGENTINA
23	21 20 13.27	39.217 N	28.755 E	10 G		0.9	5	YUGOSLAVIA
23	21 24 08.0*	59.366 N	153.609 W	123			28	TURKEY
23	22 10 38.7	8.746 S	111.333 E	33 N	5.4 4.9	1.2	115	SOUTHERN ALASKA. <AGS-P>.
23	22 45 37.57	28.14 N	57.63 E	33 N	4.4	1.4	6	JAVA
24	00 21 53.57	36.72 N	140.83 E	33 N		1.1	6	SOUTHERN IRAN
24	00 22 00.4*	4.085 S	151.392 E	13 *	4.5	1.5	10	NEAR EAST COAST OF HONSHU, JAPAN
a 24	01 07 14.5	16.498 N	120.815 E	33 N	5.6 6.1	1.3	203	NEW BRITAIN REGION
								LUZON, PHILIPPINE ISLANDS. Six people killed, 11 injured and damage (VII RF) and landslides in Benguet Province. Some damage (VII RF) at Baguio. Felt (IV RF) at Carmen, Pangasinan and Santa. (III RF) at Baler, Dagupan and Manila and (II RF) at Quezon City.
24	02 08 22.2*	36.131 N	139.821 E	84 ?		0.6	7	HONSHU, JAPAN
24	02 26 41.9*	40.443 N	26.267 E	10 G		1.1	7	TURKEY
24	02 48 56.6	26.820 S	26.665 E	5 G	4.8	1.3	18	REPUBLIC OF SOUTH AFRICA
24	03 04 16.17	11.08 S	119.73 E	33 N		0.8	6	SOUTH OF SUMBA ISLAND
24	05 08 32.3*	40.455 N	23.077 E	10 G		0.2	5	GREECE
24	06 17 18.87	39.081 N	27.552 E	10 G		0.7	6	TURKEY
a 24	06 47 42.8	26.218 N	96.013 E	28 D	5.3 5.1	1.1	171	BURMA. Felt in Nepal.
24	07 12 05.57	39.29 N	22.07 E	10 G		1.0	6	GREECE
24	07 14 21.27	59.868 N	4.850 E	10 G		0.3	6	SOUTHERN NORWAY. DUR 2.3 (BER).
24	07 18 30.47	59.880 N	4.792 E	10 G		0.2	5	SOUTHERN NORWAY. DUR 2.1 (BER).
24	07 36 06.2*	40.800 N	19.318 E	10 G		1.1	5	ALBANIA
24	08 14 58.8	35.940 N	141.596 E	45 *	4.9	1.0	33	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Choshi.
24	08 20 08.5*	18.774 N	62.007 W	33 N		0.6	7	LEEWARD ISLANDS
24	08 39 24.5	3.406 N	126.783 E	51 *	5.2	0.9	54	TALAUD ISLANDS
24	09 33 05.1	63.194 N	150.714 W	150 ?		0.4	8	CENTRAL ALASKA
24	09 36 37.87	39.597 N	29.432 E	10 G		1.5	5	TURKEY
24	09 46 38.97	39.510 N	29.511 E	10 G		1.1	5	TURKEY
24	09 48 47.07	39.564 N	29.478 E	10 G		0.8	6	TURKEY
24	10 31 05.1	24.327 N	121.502 E	10 G		0.7	6	TAIWAN
24	10 52 11.2*	59.724 S	148.776 E	10 G	5.2	0.7	15	WEST OF MACQUARIE ISLAND
a 24	11 30 25.1	39.113 N	15.790 E	223 *	4.3	1.4	34	SOUTHERN ITALY
24	12 16 07.6	5.823 S	149.167 E	122	5.4	1.0	80	NEW BRITAIN REGION
24	12 38 57.37	60.294 N	5.390 E	10 G		0.3	6	SOUTHERN NORWAY. DUR 2.0 (BER).
24	12 57 59.6	42.204 N	24.408 E	10 G		1.5	7	BULGARIA
24	13 24 29.07	16.194 N	61.279 W	78 ?		0.4	8	LEEWARD ISLANDS
24	15 25 17.67	14.98 S	167.42 E	134 ?		1.2	6	VANUATU ISLANDS
24	16 21 16.07	1.96 N	123.79 E	362 ?	4.5	0.4	7	MINAHASSA PENINSULA
24	16 21 59.4*	51.302 S	160.282 E	10 G	5.2	1.6	10	NORTH OF MACQUARIE ISLAND
24	16 39 44.17	5.63 S	29.27 E	10 G	4.2	0.9	5	LAKE TANGANYIKA REGION
24	17 05 16.3	36.515 N	141.741 E	33 N	4.8	0.9	19	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Mito.
24	17 17 48.6*	60.146 N	153.299 W	138			52	SOUTHERN ALASKA. <AGS-P>.
24	17 40 18.17	17.74 N	63.67 W	33 N		0.3	5	LEEWARD ISLANDS
24	17 46 15.7*	60.672 N	152.119 W	83			28	SOUTHERN ALASKA. <AGS-P>.
24	18 17 56.7	36.359 N	70.683 E	212	4.9	0.8	142	HINDU KUSH REGION
24	20 00 59.1*	9.608 N	126.314 E	58 ?	5.1	1.0	19	MINDANAO, PHILIPPINE ISLANDS
24	20 01 14.3*	15.478 N	121.344 E	33 N	4.8	1.5	17	LUZON, PHILIPPINE ISLANDS
24	22 06 49.1	55.066 N	158.374 W	33 N	4.9 4.5	0.9	126	ALASKA PENINSULA. ML 5.1 (PMR). Felt (III) at Chignik Lake and (II) at Chignik.
25	00 01 45.1*	23.839 N	121.785 E	10 G		0.5	5	TAIWAN
25	00 45 24.47	39.059 N	28.669 E	10 G		0.8	9	TURKEY
25	00 57 06.5	49.924 N	78.969 E	0 G	5.9 5.0	0.9	311	EASTERN KAZAKH SSR. Underground nuclear explosion (Dept of Energy press release N85-016).
25	01 13 14.5*	59.980 N	153.173 W	113			30	SOUTHERN ALASKA. <AGS-P>.
25	02 41 51.3*	61.819 N	150.816 W	65	4.1		46	SOUTHERN ALASKA. <AGS-P>.
25	03 10 06.8	46.420 N	154.236 E	36 D	5.1	1.0	128	KURIL ISLANDS REGION
25	04 10 03.4*	9.027 S	118.549 E	33 N		1.5	8	SUMBAWA ISLAND REGION
25	04 30 16.8	2.317 S	146.884 E	33 N		0.7	11	ADMIRALTY ISLANDS REGION
25	04 58 41.8	29.297 N	52.669 E	10 G	4.8	1.0	79	SOUTHERN IRAN. Felt at Shiraz.
25	08 46 24.9*	33.523 S	71.649 W	33 N		0.8	12	NEAR COAST OF CENTRAL CHILE. Felt (III) at San Antonio and Melipilla.
a 25	09 06 38.1*	60.693 S	154.332 E	10 G	4.9 5.4	1.3	19	WEST OF MACQUARIE ISLAND
25	09 27 43.2*	33.027 S	72.220 W	33 N		1.4	14	OFF COAST OF CENTRAL CHILE
25	09 28 17.67	39.651 N	29.432 E	10 G		1.1	6	TURKEY
25	09 39 01.27	32.67 S	73.09 W	33 N		0.3	5	OFF COAST OF CENTRAL CHILE
25	09 43 45.17	39.618 N	29.407 E	10 G		1.2	9	TURKEY
25	09 58 24.87	47.53 N	148.64 E	33 N	4.6 5.3	0.7	15	NORTHWEST OF KURIL ISLANDS
25	10 36 52.37	60.709 N	5.587 E	10 G		0.3	6	SOUTHERN NORWAY. DUR 2.1 (BER).
25	11 05 13.7*	33.053 S	68.614 W	10 G		1.2	5	MENDOZA PROVINCE, ARGENTINA
25	11 54 49.4	7.901 N	77.393 W	33 N	4.8	1.0	60	PANAMA-COLOMBIA BORDER REGION. Felt (IV) at Jaque and (III) at Puerto Obaldia, Panama.
25	12 05 35.5	40.812 N	20.348 E	10 G	4.5	1.5	54	GREECE-ALBANIA BORDER REGION. ML 4.2 (ATH), 3.9 (TTG).
25	12 31 44.07	17.76 N	62.98 W	10 G		0.4	6	LEEWARD ISLANDS
25	13 13 50.37	39.32 N	29.43 E	10 G		1.5	5	TURKEY
25	13 21 42.97	39.699 N	29.249 E	10 G		0.6	7	TURKEY
25	13 48 59.8	56.103 N	164.672 E	33 N	4.9 4.3	1.0	49	KOMANDORSKY ISLANDS REGION
25	14 10 27.0	8.535 N	93.737 E	33 N	4.8	1.2	24	NICOBAR ISLANDS REGION
a 25	14 14 59.1	7.717 S	108.036 E	82	5.3	1.1	111	JAVA. Felt at Bandung.
25	14 28 46.3*	8.038 N	93.821 E	33 N	4.9	1.0	17	NICOBAR ISLANDS REGION
25	14 50 19.2*	8.648 N	93.646 E	33 N	4.8	1.4	16	NICOBAR ISLANDS REGION
25	15 15 05.1	1.517 N	127.476 E	172 *	5.1	1.1	44	HALMAHERA
25	15 27 25.6	8.515 N	93.711 E	33 N	5.1 5.4	1.2	80	NICOBAR ISLANDS REGION
a 25	15 30 24.2	8.494 N	93.653 E	33 N	5.4 5.3	1.1	161	NICOBAR ISLANDS REGION

25	15 49 18.6	6.833 S	143.481 E	33 N	5.2	1.0	31	PAPUA NEW GUINEA
25	16 04 40.8	43.238 N	20.960 E	10 G		0.9	25	YUGOSLAVIA. ML 3.0 (TTG). Felt in the Brus area.
25	16 17 40.0	11.392 S	118.892 E	33 N	4.7	1.6	22	SOUTH OF SUMBAWA ISLAND
25	19 25 04.0	15.475 N	61.413 W	132	4.7	0.5	19	LEEWARD ISLANDS
25	20 56 46.0*	48.428 N	1.473 W	10 G		0.5	6	FRANCE. ML 2.9 (LDG).
25	21 35 49.9*	32.58 S	73.44 W	33 N		0.6	7	OFF COAST OF CENTRAL CHILE
25	21 57 45.7*	9.20 S	160.89 E	33 N	4.3	1.4	8	SOLOMON ISLANDS. Felt at Honiara.
25	22 19 02.4	41.821 N	23.042 E	10 G		0.6	14	GREECE-BULGARIA BORDER REGION
25	22 50 19.4*	36.614 N	141.487 E	48 *	4.4	0.9	15	NEAR EAST COAST OF HONSHU, JAPAN
25	23 03 08.5*	12.85 N	88.42 W	33 N	4.6 3.7	0.6	13	OFF COAST OF CENTRAL AMERICA
25	23 27 08.4	25.518 S	177.614 W	33 N	5.4 5.5	1.4	81	SOUTH OF FIJI ISLANDS
25	23 52 56.7	39.699 N	24.813 E	10 G		0.8	15	AEGEAN SEA. ML 3.5 (ATH).
26	00 22 38.2	35.712 N	135.224 E	368	4.5	0.8	57	SOUTHERN HONSHU, JAPAN
26	00 36 26.6	39.677 N	20.806 E	10 G		0.9	15	GREECE-ALBANIA BORDER REGION
26	01 17 01.9*	66.258 N	150.065 W	10 G		1.1	10	ALASKA. ML 3.9 (PMR).
26	02 48 57.1*	60.233 N	152.552 W	95			48	SOUTHERN ALASKA. <AGS-P>.
26	04 03 07.7*	37.430 N	118.620 W	6 G			42	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 4.2 (PAS), 4.0 (BRK). Felt (III) at Bishop, Bass Lake, Lemonvace, Miramonte and Kings Canyon National Park, California. Also felt at Mino, Nevada.
26	04 35 34.2*	15.25 N	60.75 W	128 ?		0.7	10	LEEWARD ISLANDS
26	04 40 47.5	51.475 N	130.289 W	10 G	4.3 4.1	1.1	31	QUEEN CHARLOTTE ISLANDS REGION
26	05 21 38.2*	44.774 N	110.713 W	5 G		1.6	9	YELLOWSTONE NATIONAL PARK, WYO. ML 3.3 (NEIS). Felt (II) at Old Faithful, Modison Junction and Mammoth Hot Springs.
26	06 08 17.9*	31.637 S	68.717 W	10 G		0.9	5	SAN JUAN PROVINCE, ARGENTINA
26	06 10 21.8*	62.233 N	148.562 W	45			39	CENTRAL ALASKA. <AGS-P>.
26	06 25 54.9*	33.16 S	71.87 W	33 N		1.1	9	NEAR COAST OF CENTRAL CHILE
26	08 57 24.5*	39.594 N	29.396 E	10 G		0.9	6	TURKEY
26	10 07 54.0*	42.078 N	19.842 E	10 G		1.3	5	YUGOSLAVIA. ML 2.4 (TTG).
26	10 20 15.2*	39.117 N	27.553 E	10 G		0.5	5	TURKEY
26	10 25 50.7*	8.607 N	93.631 E	33 N	4.6	1.1	14	NICOBAR ISLANDS REGION
26	10 34 34.5*	32.41 S	73.88 W	33 N		0.5	7	OFF COAST OF CENTRAL CHILE
26	12 02 21.6	15.745 S	178.421 W	446	5.0	1.1	121	FIJI ISLANDS REGION
26	12 12 36.4	39.376 N	23.051 E	10 G		1.1	15	AEGEAN SEA. ML 3.0 (ATH).
26	14 00 09.0*	60.633 N	5.966 E	10 G		0.9	5	SOUTHERN NORWAY. DUR 1.9 (BER).
26	14 33 07.5*	28.89 N	130.79 E	33 N	4.7	1.4	9	RYUKYU ISLANDS
26	15 43 46.5	1.657 N	126.508 E	48 *	5.1	1.2	82	MOLUCCA PASSAGE
26	15 53 18.5*	17.735 S	168.346 E	108	5.5	1.1	39	VANUATU ISLANDS
26	16 40 12.3*	32.062 S	67.580 W	10 G		1.5	5	MENDOZA PROVINCE, ARGENTINA
26	16 55 14.7*	38.898 N	27.460 E	10 G		0.3	8	TURKEY
26	17 32 51.8	49.076 N	6.607 E	10 G		0.9	17	GERMANY. ML 3.2 (LDG).
26	17 34 56.6	33.848 N	135.420 E	28	5.0	0.9	35	NEAR S. COAST OF SOUTHERN HONSHU. Felt (I JMA) at Owase and Wakayama.
26	18 09 49.0*	32.77 S	72.92 W	33 N		0.4	6	OFF COAST OF CENTRAL CHILE
26	19 06 49.6*	36.425 N	121.028 W	5 G			17	CENTRAL CALIFORNIA. <BRK>. ML 3.0 (BRK).
26	21 59 46.1*	32.954 S	71.433 W	33 N		1.3	12	NEAR COAST OF CENTRAL CHILE
26	22 18 08.7*	33.641 S	71.424 W	33 N		1.1	8	NEAR COAST OF CENTRAL CHILE
26	22 44 31.8*	31.267 S	178.863 W	85 *	5.3	1.5	20	KERMADEC ISLANDS REGION
26	23 23 40.3	58.117 N	154.554 W	105	4.7	0.8	91	ALASKA PENINSULA
26	23 26 21.3*	34.03 S	71.63 W	33 N		0.8	7	NEAR COAST OF CENTRAL CHILE
27	00 14 54.4*	32.61 S	72.70 W	33 N		0.9	7	OFF COAST OF CENTRAL CHILE
27	00 33 13.0	15.798 S	173.503 W	81 D	5.7	0.9	224	TONGA ISLANDS
27	01 31 27.5	38.599 N	73.173 E	104 D	5.5	0.8	221	TAJIK-XINJIANG BORDER REGION. Felt (IV) at Dzhihgatal and Sufi-Kurgan, and (III) at Andizhan, Dushanbe, Fergana, Garm and Tashkent.
27	01 35 33.5	31.728 S	67.921 W	10 G		0.4	6	SAN JUAN PROVINCE, ARGENTINA
27	01 48 50.9*	40.751 N	30.038 E	10 G		1.6	5	TURKEY
27	01 52 13.1	43.160 N	18.853 E	10 G		0.7	14	YUGOSLAVIA. ML 3.1 (TTG).
27	03 52 03.5*	24.276 S	67.239 W	207 *	4.1	0.5	6	CHILE-ARGENTINA BORDER REGION
27	04 00 52.1*	60.255 N	152.679 W	103			21	SOUTHERN ALASKA. <AGS-P>.
27	04 07 32.6*	31.184 S	68.487 W	128 *		1.3	12	SAN JUAN PROVINCE, ARGENTINA
27	04 14 27.4	40.722 N	71.179 E	33 N	5.0 4.2	1.0	97	TAJIK SSR. Felt (VI) at Pap and (IV) at Andizhan and Namongan.
27	04 15 18.4	9.711 N	124.195 E	598	5.1	0.9	51	MINDANAO, PHILIPPINE ISLANDS
27	04 49 50.8	40.723 N	71.151 E	33 N	5.1 4.4	1.0	124	TAJIK SSR. Felt (VI) at Pap, (IV) at Andizhan, Fergana and Namongan, (III) at Tashkent, and (II) at Dzhihgatal and Leninabad.
27	04 54 09.2	37.207 N	142.202 E	42 *	4.8	1.2	45	OFF EAST COAST OF HONSHU, JAPAN. Felt (I JMA) in the Onahama-Sendai area.
27	05 28 13.6*	37.28 N	142.13 E	10 G		1.0	7	OFF EAST COAST OF HONSHU, JAPAN
27	06 04 48.8	40.803 N	71.374 E	33 N	4.7	1.0	37	TAJIK SSR. Felt (IV) at Pap, (III) at Namongan and (II) at Andizhan.
27	08 21 19.2*	41.115 N	71.139 E	33 N	4.6	0.8	13	KIRGHIZ SSR. Felt (III) at Pap and (II) at Namongan.
27	08 43 53.5*	39.500 N	29.442 E	10 G		0.7	5	TURKEY
27	09 57 21.2*	39.462 N	29.496 E	10 G		0.9	6	TURKEY
27	10 11 42.6	21.032 S	176.820 W	260 D	5.8	0.9	279	FIJI ISLANDS REGION
27	11 38 33.2*	9.589 N	92.750 E	33 N	4.6	0.8	6	NICOBAR ISLANDS REGION
27	11 38 57.5*	36.957 N	121.572 W	5 G			14	CENTRAL CALIFORNIA. <BRK>. ML 3.0 (BRK). Felt at Gilroy.
27	12 07 34.1*	41.45 N	23.21 E	10 G		0.8	7	GREECE-BULGARIA BORDER REGION
27	12 33 06.7	40.770 N	27.344 E	7	4.3	1.0	98	TURKEY. Felt in the Marmara area.
27	13 06 38.5*	36.653 N	121.332 W	5 G			17	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK).
27	13 31 55.2*	8.752 N	93.647 E	33 N	4.5	1.5	7	NICOBAR ISLANDS REGION
27	15 07 41.0*	24.663 N	121.654 E	33 N		1.4	6	TAIWAN
27	15 13 12.3*	39.45 N	23.00 E	10 G		0.3	9	AEGEAN SEA
27	16 25 42.5	45.712 N	26.579 E	81	4.5	1.1	56	ROMANIA
27	16 50 15.0*	9.731 S	159.424 E	531	4.6	0.5	15	SOLOMON ISLANDS
27	17 53 11.5*	8.766 S	118.575 E	111 ?	3.3	0.5	10	SUMBAWA ISLAND REGION
27	17 56 31.2*	31.576 S	69.264 W	142 ?		0.7	14	SAN JUAN PROVINCE, ARGENTINA
27	18 43 29.7*	31.064 S	68.108 W	10 G		0.2	5	SAN JUAN PROVINCE, ARGENTINA
27	19 00 12.7	37.784 N	21.041 E	48	4.2	1.1	34	SOUTHERN GREECE
27	20 24 21.4	52.775 N	172.387 W	130 *	4.9	1.0	68	ANDREANOF ISLANDS, ALEUTIAN IS.

27	21 04 03.7	45.843 N	10.088 E	10 G	1.1	24	NORTHERN ITALY. ML 3.0 (LDG), 2.4 (KBA).
28	01 35 55.9	40.700 N	20.869 E	10 G	1.1	12	GREECE-ALBANIA BORDER REGION
28	01 40 26.3*	17.380 S	70.636 W	117 *	4.7	1.2	15 NEAR COAST OF PERU
28	02 15 10.3	12.434 N	126.055 E	33 N	5.0 4.7	1.1	56 PHILIPPINE ISLANDS REGION
a 28	02 53 41.5	32.998 S	71.766 W	33 N	5.3 5.2	1.3	74 NEAR COAST OF CENTRAL CHILE. Felt (III) at Santiago.
28	02 56 48.6*	10.082 S	161.171 E	112 *	4.5	0.4	12 SOLOMON ISLANDS
28	03 23 45.2?	33.99 N	139.55 E	182 *	4.1	0.4	13 SOUTH OF HONSHU, JAPAN
28	04 30 54.3	1.210 N	126.262 E	33 N	5.2	0.7	21 MOLUCCA PASSAGE
28	04 34 58.1	51.675 N	7.228 E	10 G		1.2	10 GERMANY. ML 3.4 (KOE).
28	04 56 55.6	51.603 N	173.443 W	33 N	4.5	1.0	42 ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.3 (PMR).
28	06 48 35.5	36.943 N	7.416 W	10 G		1.2	17 STRAIT OF GIBRALTAR. DUR 3.0 (SFS).
28	07 15 18.3%	31.596 S	67.964 W	33 N		0.9	5 SAN JUAN PROVINCE, ARGENTINA
28	07 31 45.8?	9.48 S	122.20 E	33 N	4.6	1.1	10 SAVU SEA
28	08 19 03.3	38.755 N	26.573 E	10 G		0.7	11 AEGEAN SEA
f 28	08 30 29.0	39.728 S	75.664 W	10 G	6.1 5.5	1.1	215 OFF COAST OF CENTRAL CHILE. Ms 5.7 (BRK). Felt (V) at Valparaiso.
28	09 45 46.5?	0.24 N	121.06 E	167 ?	4.1	0.3	6 MINAHASSA PENINSULA
28	10 12 20.8&	60.152 N	153.213 W	133			17 SOUTHERN ALASKA. <AGS-P>.
28	12 29 47.8*	16.583 N	95.797 W	33 N	3.7	1.0	6 OAXACA, MEXICO
28	12 42 55.7*	55.548 S	1.317 W	10 G	5.1	1.4	11 BOUVET ISLAND REGION
28	14 36 40.2*	22.605 S	66.240 W	274 *		0.8	8 JUJUY PROVINCE, ARGENTINA
28	14 48 36.9&	62.326 N	147.934 W	41			25 CENTRAL ALASKA. <AGS-P>.
28	15 30 20.4	6.587 S	155.225 E	33 N	4.5	1.3	18 SOLOMON ISLANDS. Felt (III) at Arawa, Bougainville.
28	15 44 22.4?	6.57 N	74.29 W	191 *		0.5	8 NORTHERN COLOMBIA
28	16 56 10.1&	37.847 N	122.245 W	5			10 CENTRAL CALIFORNIA. <BRK>. ML 2.0 (BRK). Ma=6.0*10**18 (BRK). Felt at Albany.
28	17 26 22.1?	33.79 S	71.39 W	33 N		0.3	6 NEAR COAST OF CENTRAL CHILE
28	18 19 40.7*	9.100 S	112.013 E	33 N	5.0	1.4	16 SOUTH OF JAVA
28	21 47 40.6*	6.603 S	105.015 E	80 ?	4.6	0.9	22 SUNDA STRAIT
28	21 48 34.6?	23.77 N	121.69 E	33 ?		0.1	5 TAIWAN
28	22 12 06.3*	41.606 N	141.990 E	76 *	4.6	1.3	13 HOKKAIDO, JAPAN REGION
28	22 23 53.7&	34.020 N	117.040 W	12			8 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS). Felt at Yucaipa.
a 28	22 56 51.3	55.494 S	26.149 W	33 N	5.7 5.6	1.0	126 SOUTH SANDWICH ISLANDS REGION
28	23 00 56.1	37.638 S	176.539 E	10 G	4.9 5.4	1.1	18 NORTH ISLAND, NEW ZEALAND. Felt at Whakatane and Tauranga.
28	23 10 37.9&	62.098 N	149.443 W	51			25 CENTRAL ALASKA. <AGS-P>.
28	23 12 44.3&	59.861 N	153.398 W	126			18 SOUTHERN ALASKA. <AGS-P>.
29	01 11 06.0%	16.721 N	61.901 W	33 N		0.9	5 LEEWARD ISLANDS
29	01 22 49.5*	36.283 N	106.167 E	33 N		0.8	5 NORTHERN CHINA
29	01 32 13.7?	33.40 S	72.73 W	33 N		0.4	7 OFF COAST OF CENTRAL CHILE
f 29	02 19 59.6	41.479 N	142.043 E	71	5.7	0.9	326 HOKKAIDO, JAPAN REGION. Felt (IV JMA) at Mutsu, (III JMA) at Urakawa, (II JMA) at Kushira and Sapporo and (I JMA) at Muroran. Felt (III JMA) at Aomori, Hachinohe and Miyako, (II JMA) at Hakodate and Mariaka and (I JMA) at Akita and Mito, Honshu. Felt (II) on Skikotan, Kuril Islands.
29	03 47 03.6	5.652 N	125.862 E	171 *	4.9	0.8	26 MINDANAO, PHILIPPINE ISLANDS
29	04 31 25.3?	32.20 S	69.70 W	131 ?		0.1	5 MENDOZA PROVINCE, ARGENTINA
29	05 12 46.6*	15.629 N	60.442 W	33 N		1.2	9 LEEWARD ISLANDS
29	05 42 00.5?	32.94 S	71.85 W	33 N		0.5	7 NEAR COAST OF CENTRAL CHILE
29	06 04 03.2*	7.300 N	126.109 E	33 N	4.9	1.4	16 MINDANAO, PHILIPPINE ISLANDS
29	06 24 26.5?	32.50 S	73.59 W	33 N		0.3	7 OFF COAST OF CENTRAL CHILE
29	07 05 30.9&	60.632 N	151.941 W	80			20 KENAI PENINSULA, ALASKA. <AGS-P>.
29	07 09 25.7	55.566 S	26.141 W	33 N	5.1	0.9	25 SOUTH SANDWICH ISLANDS REGION
29	07 43 23.4	34.162 N	135.091 E	12	4.4	1.2	15 NEAR S. COAST OF SOUTHERN HONSHU. Felt (III JMA) at Wakayama.
29	08 41 39.0?	31.55 S	69.22 W	129 ?		0.3	5 SAN JUAN PROVINCE, ARGENTINA
29	09 59 23.5	40.342 N	20.642 E	10 G	3.8	1.3	22 GREECE-ALBANIA BORDER REGION. ML 3.7 (TTG).
29	09 59 37.4?	33.65 S	72.18 W	33 N		1.5	6 OFF COAST OF CENTRAL CHILE
a 29	10 17 10.0	13.398 N	145.540 E	62	5.5	1.0	189 MARIANA ISLANDS. Felt (III) on Guam.
29	11 13 54.3?	33.38 S	72.01 W	33 N		1.3	10 OFF COAST OF CENTRAL CHILE
29	11 15 23.9?	33.45 S	72.29 W	33 N		0.2	5 OFF COAST OF CENTRAL CHILE
29	11 38 39.8	38.427 N	29.905 E	16	4.5	1.2	68 TURKEY
29	12 13 51.6*	40.623 N	23.436 E	10 G		0.4	5 GREECE
29	14 38 16.6?	32.81 S	72.43 W	33 N		0.4	6 OFF COAST OF CENTRAL CHILE
29	15 05 33.7*	5.501 N	123.725 E	33 N	4.9	1.1	16 MINDANAO, PHILIPPINE ISLANDS
a 29	16 13 33.3	35.307 N	36.011 W	10 G	5.0 4.7	0.9	120 NORTH ATLANTIC RIDGE
29	17 18 37.2	42.327 N	19.332 E	10 G		1.3	18 YUGOSLAVIA. DUR 3.3 (TTG), ML 3.0 (BRY). Felt (IV) at Titograd.
29	17 46 30.8	51.563 N	173.360 W	33 N	4.6	0.9	66 ANDREANOF ISLANDS, ALEUTIAN IS.
29	18 08 26.4&	37.288 N	121.678 W	5 G			15 CENTRAL CALIFORNIA. <BRK>. ML 3.1 (BRK). Ma=5.1*10**20 (BRK). Felt in the Morgan Hill area.
29	18 17 42.4*	7.504 S	128.676 E	173 ?	5.0	1.0	22 BANDA SEA
29	18 57 15.0	40.166 N	63.246 E	33 N	4.3	1.1	20 UZBEK SSR. Felt (IV) at Gazli.
29	21 53 34.3*	7.253 N	76.419 W	33 N		1.0	6 NORTHERN COLOMBIA
29	21 55 20.2?	16.17 S	179.91 W	593 ?		0.5	9 FIJI ISLANDS REGION
29	23 36 55.2%	39.611 N	29.339 E	10 G		1.2	5 TURKEY
29	23 46 06.1?	31.24 S	68.80 W	103 ?		0.5	6 SAN JUAN PROVINCE, ARGENTINA
30	00 17 45.5*	13.801 N	144.716 E	133	4.8	0.9	28 MARIANA ISLANDS. Felt (III) on Guam.
30	00 43 21.9	7.461 S	128.070 E	179	5.3	0.9	89 BANDA SEA
30	01 21 52.4%	16.913 N	62.059 W	10 G		0.3	6 LEEWARD ISLANDS
30	01 39 29.2?	16.94 N	62.15 W	10 G		0.1	5 LEEWARD ISLANDS
30	02 16 00.7?	15.47 N	96.25 W	33 N		1.5	5 NEAR COAST OF OAXACA, MEXICO
30	02 51 37.1	31.442 S	67.890 W	10 G		0.6	6 SAN JUAN PROVINCE, ARGENTINA
30	02 58 05.1	40.620 N	23.520 E	10 G		0.8	6 GREECE
30	03 09 50.0	5.137 S	143.244 E	33 N	5.2	1.1	51 PAPUA NEW GUINEA
30	04 10 13.4?	12.31 S	159.89 E	33 N	5.0	1.3	7 SOLOMON ISLANDS
30	04 20 32.9	44.588 N	111.269 W	5 G		0.7	16 HEBGEN LAKE REGION. ML 3.6 (NEIS). Felt (III) at West Yellowstone, Montana. Also felt in parts of Yellowstone National Park.
30	04 33 25.6	11.170 N	62.344 W	130	4.5	1.2	49 WINDWARD ISLANDS. Felt (III) on Trinidad.
30	05 38 20.2*	66.275 N	150.042 W	10 G		1.4	7 ALASKA. ML 3.5 (PMR).

30	05 51 11.8	0.630 S	133.488 E	33 N	5.2 4.3	1.0	72	WEST IRIAN REGION
30	06 58 38.0%	40.113 N	29.365 E	10 G		0.7	7	TURKEY
30	08 07 23.4	30.251 N	138.480 E	428	4.4	0.7	26	SOUTH OF HONSHU, JAPAN
30	08 45 29.1	24.763 N	125.302 E	56	5.3	1.0	153	SOUTHWESTERN RYUKYU ISLANDS. Felt (11 JMA) on Miyako-jima.
30	10 03 11.5	32.175 S	71.581 W	33 N	4.3	1.4	14	NEAR COAST OF CENTRAL CHILE
30	10 04 49.3%	39.645 N	29.389 E	10 G		0.9	7	TURKEY
30	10 06 20.4%	39.572 N	29.412 E	10 G		1.5	5	TURKEY
30	11 32 31.7	42.206 N	26.047 E	10 G		1.0	6	BULGARIA
30	11 49 53.0	45.414 N	17.987 E	10 G		0.8	25	YUGOSLAVIA. ML 3.6 (KBA), 3.6 (TRI), 3.5 (TTG). Felt at Bosanki Brod, Dakovo and Slavonski Brod.
30	11 54 58.9	0.741 S	133.578 E	33 N	5.0	1.1	33	WEST IRIAN REGION
30	12 05 04.8	31.549 N	49.852 E	33 N	4.5	0.8	13	WESTERN IRAN
30	12 48 25.57	22.77 N	121.33 E	33 N		0.7	7	TAIWAN REGION
30	13 08 37.7	42.605 N	24.177 E	10 G		1.0	7	BULGARIA
30	13 23 31.2	45.403 N	26.702 E	33 N		1.6	6	ROMANIA
30	15 14 03.7%	60.647 N	6.022 E	10 G		0.4	5	SOUTHERN NORWAY. DUR 1.6 (BER).
30	15 31 31.7	16.070 S	173.160 W	33 N	4.6	0.9	40	TONGA ISLANDS
30	15 56 37.5%	60.284 N	5.202 E	10 G		0.2	6	SOUTHERN NORWAY. DUR 2.1 (BER).
30	17 28 57.97	22.08 S	138.90 W	0 G	4.5	1.0	17	TUAMOTU ARCHIPELAGO REGION
30	17 45 05.6%	39.327 N	29.110 E	10 G		1.3	8	TURKEY
a 30	18 14 12.7	39.266 N	22.810 E	27	5.5 5.5	1.1	317	GREECE. DUR 5.5 (ULC), ML 5.3 (ATH). Seven buildings damaged in the Magnisia Province area. Felt strongly in central Greece.
30	18 34 47.6	25.258 S	71.208 W	33 N	4.2	1.1	9	OFF COAST OF NORTHERN CHILE
30	18 36 33.8	39.241 N	22.916 E	10 G		0.6	13	GREECE. ML 3.1 (ATH).
30	18 51 18.4	39.272 N	22.989 E	10 G	3.7	1.0	25	GREECE. ML 3.8 (ATH).
30	19 06 42.57	28.06 S	21.39 E	5 G		0.5	5	REPUBLIC OF SOUTH AFRICA
30	19 14 50.6	39.286 N	22.809 E	14		0.5	9	GREECE
30	19 39 59.47	43.59 N	18.06 E	10 G		1.6	5	YUGOSLAVIA
30	20 00 13.5	39.223 N	22.797 E	10 G		0.8	13	GREECE. ML 3.0 (ATH).
30	20 02 36.6	39.393 N	23.074 E	10 G		1.0	5	AEGEAN SEA
30	20 26 56.4	39.245 N	22.863 E	10 G		0.4	11	GREECE
30	20 52 19.8	39.267 N	22.802 E	10 G		0.5	10	GREECE
o 30	21 12 50.7	26.085 S	70.882 E	10 G	5.2 4.6	0.9	37	SOUTH INDIAN OCEAN
30	21 18 31.8	39.357 N	29.164 E	10 G		1.4	14	TURKEY
30	21 26 08.1%	39.256 N	29.122 E	10 G		1.1	7	TURKEY
30	21 37 25.57	24.06 S	66.81 W	221 ?		1.3	5	SALTA PROVINCE, ARGENTINA
30	22 07 34.9	39.273 N	22.963 E	10 G		1.0	11	GREECE. ML 3.0 (KBN).
30	22 20 19.5	39.159 N	22.851 E	10 G		0.3	11	GREECE

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

01 10 36 10.26 8.452N 103.202W 10km  
5.0mb ( 14 obs.) 4.8Msz ( 4 obs.)  
OFF COAST OF MEXICO  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 15S, 30C  
Centroid Location:  
Origin Time 10:36:14.7 0.3  
Lat 8.39N FIX; Lon 103.37W FIX  
Dep 12.6 5.7 Half-duration 2.6  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 5.42 Plg=30 Azm= 36  
N -2.41 58 238  
P -3.01 10 131  
Best Double Couple: Mo=4.2\*10\*\*24  
NP1: Strike=178 Dip=62 Slip= 15  
NP2: 80 77 151

02 01 56 06.92 30.549S 179.051E 517km  
4.9mb ( 14 obs.)  
KERMADEC ISLANDS REGION  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 9S, 15C  
Centroid Location:  
Origin Time 01:56:18.1 0.9  
Lat 29.77S 0.16 Lon 178.97E 0.11  
Dep 539.4 5.7 Half-duration 1.6  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 1.70 Plg=17 Azm=203  
N -0.49 5 295  
P -1.21 72 41  
Best Double Couple: Mo=1.4\*10\*\*24  
NP1: Strike=285 Dip=28 Slip=-101  
NP2: 118 62 -84

02 02 35 28.85 28.806S 69.165W 107km  
5.0mb ( 7 obs.)  
CHILE-ARGENTINA BORDER REGION  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 8S, 10C  
Centroid Location:  
Origin Time 02:35:36.5 1.7  
Lat 28.48S 0.18 Lon 69.72W 0.21  
Dep 83.2 9.7 Half-duration 1.4  
Principal Axes:

Scale 10\*\*23 D-CM  
T Val= 6.52 Plg= 0 Azm= 77  
N -2.39 42 167  
P -4.13 48 346  
Best Double Couple: Mo=5.3\*10\*\*23  
NP1: Strike=133 Dip=58 Slip=-143  
NP2: 21 59 -38

02 03 21 41.42 21.236S 179.075W 636km  
5.4mb ( 38 obs.)  
FIJI ISLANDS REGION  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 12S, 20C  
Centroid Location:  
Origin Time 03:21:51.1 0.9  
Lat 20.43S 0.09 Lon 179.28W 0.08  
Dep 637.5 6.0 Half-duration 1.7  
Principal Axes:  
Scale 10\*\*23 D-CM  
T Val= 8.85 Plg=28 Azm=151  
N 3.30 0 60  
P -12.15 62 330  
Best Double Couple: Mo=1.1\*10\*\*24  
NP1: Strike=241 Dip=17 Slip= -89  
NP2: 60 73 -90

03 08 18 06.88 51.883N 158.726E 33km  
5.5mb ( 75 obs.) 5.2Msz ( 11 obs.)  
NEAR EAST COAST OF KAMCHATKA  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 10S, 24C  
Centroid Location:  
Origin Time 08:18:13.5 0.3  
Lat 51.58N 0.03 Lon 159.21E 0.06  
Dep 40.0 2.4 Half-duration 2.3  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 2.61 Plg=76 Azm=324  
N 0.33 3 222  
P -2.94 14 131  
Best Double Couple: Mo=2.8\*10\*\*24  
NP1: Strike=217 Dip=32 Slip= 84  
NP2: 44 59 93

03 13 06 20.26 32.584S 71.656W 33km  
5.8mb ( 51 obs.) 6.1Msz ( 18 obs.)  
NEAR COAST OF CENTRAL CHILE

FAULT PLANE SOLUTION: P-Waves  
NP1: Strike=163 Dip=73 Slip= 90  
NP2: 343 17 90  
Principal Axes:  
T Plg=62 Azm= 73  
P 28 253  
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.  
MOMENT TENSOR SOLUTION  
Dep 28 No. of sta: 12  
Principal Axes:  
Scale 10\*\*25 d-cm  
T Val= 1.93 Plg=60 Azm=165  
N 0.04 26 20  
P -1.97 15 283  
Best Double Couple: Mo=2.0\*10\*\*25  
NP1: Strike=341 Dip=37 Slip= 44  
NP2: 213 65 118  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 12S, 26C  
Centroid Location:  
Origin Time 13:06:26.3 0.2  
Lat 32.62S 0.02 Lon 71.50W 0.03  
Dep 35.5 1.4 Half-duration 3.8  
Principal Axes:  
Scale 10\*\*25 D-CM  
T Val= 1.68 Plg=66 Azm=112  
N 0.10 1 20  
P -1.79 24 290  
Best Double Couple: Mo=1.7\*10\*\*25  
NP1: Strike= 18 Dip=21 Slip= 87  
NP2: 201 69 91

03 18 12 25.90 33.272S 179.235W 33km  
5.5mb ( 8 obs.) 5.3Msz ( 1 obs.)  
SOUTH OF KERMADEC ISLANDS  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 10S, 19C  
Centroid Location:  
Origin Time 18:12:42.0 0.7  
Lat 32.01S 0.07 Lon 179.43W 0.06  
Dep 65.0 3.3 Half-duration 2.0  
Principal Axes:  
Scale 10\*\*24 D-CM

T Vol= 1.64 Plg=21 Azm=202  
N 0.91 64 343  
P -2.54 15 106  
Best Double Couple:Mo=2.1\*10\*\*24  
NP1:Strike=243 Dip=64 Slip= 176  
NP2: 335 86 26

03 20 21 36.26 28.230N 139.525E 469km  
5.9mb (103 obs.)  
BONIN ISLANDS REGION  
FAULT PLANE SOLUTION: P-Waves  
NP1:Strike=332 Dip=82 Slip=-80  
NP2: 100 13 -141  
Principal Axes:  
T Plg=36 Azm= 53  
P 52 254  
Comment: The focal mechanism is moderately well controlled and corresponds to normal faulting with a moderate strike-slip component. The preferred fault plane is not determined.  
MOMENT TENSOR SOLUTION  
Dep 450 No. of sta: 13  
Principal Axes:  
Scale 10\*\*25 d-cm  
T Vol= 6.02 Plg=25 Azm= 37  
N -0.17 29 142  
P -5.86 50 273  
Best Double Couple:Mo=5.9\*10\*\*25  
NP1:Strike= 82 Dip=32 Slip=-154  
NP2: 330 76 -60  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 17S, 34C M.W.: 11S, 26C  
Centroid Location:  
Origin Time 20:21:41.2 0.2  
Lat 28.40N 0.02 Lon 139.61E 0.02  
Dep 455.1 1.0 Half-duration 6.0  
Principal Axes:  
Scale 10\*\*25 D-CM  
T Vol= 5.02 Plg=24 Azm= 36  
N -0.04 23 137  
P -4.98 55 265  
Best Double Couple:Mo=5.0\*10\*\*25  
NP1:Strike= 87 Dip=29 Slip=-143  
NP2: 324 73 -66

04 08 40 47.53 11.465N 95.038E 33km  
5.2mb ( 48 obs.) 4.7Msz ( 2 obs.)  
ANDAMAN ISLANDS REGION  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 10S, 20C  
Centroid Location:  
Origin Time 08:40:47.1 1.1  
Lat 11.31N 0.12 Lon 95.09E 0.13  
Dep 17.814.5 Half-duration 1.6  
Principal Axes:  
Scale 10\*\*23 D-CM  
T Vol= 10.49 Plg=33 Azm=317  
N -0.28 40 80  
P -10.21 32 202  
Best Double Couple:Mo=1.0\*10\*\*24  
NP1:Strike=349 Dip=40 Slip= 179  
NP2: 79 89 50

05 03 41 35.25 35.437S 16.085W 10km  
5.1mb ( 19 obs.) 5.0Msz ( 5 obs.)  
SOUTH ATLANTIC RIDGE  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 10S, 21C  
Centroid Location:  
Origin Time 03:41:47.1 0.4  
Lat 35.05S 0.04 Lon 15.93W 0.06  
Dep 10.0 FIX Half-duration 2.3  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Vol= 2.87 Plg= 7 Azm=126  
N 0.29 73 239  
P -3.17 15 34  
Best Double Couple:Mo=3.0\*10\*\*24  
NP1:Strike=171 Dip=74 Slip=-174  
NP2: 79 84 -16

05 13 00 23.83 1.799N 127.511E 145km  
5.5mb ( 34 obs.)  
HALMAHERA  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 11S, 20C  
Centroid Location:

Origin Time 13:00:25.5 0.5  
Lat 1.98N 0.05 Lon 127.62E 0.09  
Dep 130.8 3.3 Half-duration 1.8  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Vol= 1.63 Plg=69 Azm=134  
N 0.06 13 7  
P -1.69 16 273  
Best Double Couple:Mo=1.7\*10\*\*24  
NP1:Strike=344 Dip=31 Slip= 64  
NP2: 194 63 105

06 19 47 42.02 17.816S 178.658W 580km  
5.3mb ( 32 obs.)  
FIJI ISLANDS REGION  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 7S, 11C  
Centroid Location:  
Origin Time 19:47:53.2 1.2  
Lat 18.07S 0.14 Lon 178.45W 0.14  
Dep 567.6 5.5 Half-duration 1.6  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Vol= 1.47 Plg=15 Azm= 18  
N -0.37 44 123  
P -1.11 42 274  
Best Double Couple:Mo=1.3\*10\*\*24  
NP1:Strike= 65 Dip=49 Slip=-157  
NP2: 320 73 -43

07 00 19 33.19 56.390S 122.309W 10km  
5.6mb ( 13 obs.) 6.1Msz ( 17 obs.)  
EASTER ISLAND CORDILLERA  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 20S, 40C M.W.: 14S, 32C  
Centroid Location:  
Origin Time 00:19:44.4 0.1  
Lat 56.25S 0.02 Lon 122.39W 0.02  
Dep 10.0 FIX Half-duration 6.2  
Principal Axes:  
Scale 10\*\*25 D-CM  
T Vol= 5.14 Plg=11 Azm=150  
N -0.49 74 17  
P -4.64 12 242  
Best Double Couple:Mo=4.9\*10\*\*25  
NP1:Strike=286 Dip=74 Slip= 0  
NP2: 16 90 -164

07 09 31 18.19 4.478N 128.009E 79km  
5.4mb ( 22 obs.)  
NORTH OF HALMAHERA  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 9S, 15C  
Centroid Location:  
Origin Time 09:31:22.5 1.0  
Lat 4.84N 0.09 Lon 128.82E 0.17  
Dep 47.412.6 Half-duration 1.6  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Vol= 1.18 Plg=58 Azm= 87  
N -0.09 1 179  
P -1.09 32 270  
Best Double Couple:Mo=1.1\*10\*\*24  
NP1:Strike= 5 Dip=13 Slip= 95  
NP2: 179 77 89

07 21 27 36.99 21.225N 61.868E 10km  
5.2mb ( 39 obs.) 4.7Msz ( 5 obs.)  
ARABIAN SEA  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 14S, 24C  
Centroid Location:  
Origin Time 21:27:43.1 0.4  
Lat 20.91N 0.06 Lon 62.44E 0.03  
Dep 10.0 FIX Half-duration 1.9  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Vol= 0.99 Plg= 0 Azm=161  
N 0.34 90 180  
P -1.34 0 71  
Best Double Couple:Mo=1.2\*10\*\*24  
NP1:Strike=206 Dip=90 Slip= 180  
NP2: 296 90 0

08 16 17 12.85 5.717S 154.062E 48km  
5.4mb ( 30 obs.) 5.6Msz ( 7 obs.)  
SOLOMON ISLANDS  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN

L.P.B.: 15S, 28C  
Centroid Location:  
Origin Time 16:17:18.2 0.2  
Lat 5.81S 0.03 Lon 153.80E 0.03  
Dep 45.6 2.4 Half-duration 3.5  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Vol= 8.22 Plg=87 Azm= 58  
N 0.89 1 315  
P -9.11 3 225  
Best Double Couple:Mo=8.7\*10\*\*24  
NP1:Strike=314 Dip=42 Slip= 89  
NP2: 136 48 91

08 19 15 06.33 4.124S 136.268E 14km  
5.7mb ( 33 obs.) 5.9Msz ( 17 obs.)  
WEST IRIAN REGION  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 11S, 23C  
Centroid Location:  
Origin Time 19:15:14.2 0.4  
Lat 3.89S 0.04 Lon 136.40E 0.05  
Dep 18.3 3.9 Half-duration 3.5  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Vol= 9.16 Plg=39 Azm=146  
N 2.99 49 346  
P -12.15 10 244  
Best Double Couple:Mo=1.1\*10\*\*25  
NP1:Strike=293 Dip=55 Slip= 23  
NP2: 189 71 143

09 01 56 59.48 34.131S 71.618W 38km  
6.3mb ( 59 obs.) 7.2Msz ( 23 obs.)  
NEAR COAST OF CENTRAL CHILE  
FAULT PLANE SOLUTION: P-Waves  
NP1:Strike=163 Dip=67 Slip= 90  
NP2: 343 23 90  
Principal Axes:  
T Plg=68 Azm= 73  
P 22 253  
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.  
MOMENT TENSOR SOLUTION  
Dep 42 No. of sta: 11  
Principal Axes:  
Scale 10\*\*26 d-cm  
T Vol= 6.46 Plg=60 Azm= 92  
N -0.74 14 337  
P -5.71 26 240  
Best Double Couple:Mo=6.1\*10\*\*26  
NP1:Strike=301 Dip=22 Slip= 51  
NP2: 161 73 104  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 19S, 39C M.W.: 12S, 29C  
Centroid Location:  
Origin Time 01:57: 7.6 0.2  
Lat 34.26S 0.01 Lon 71.86W 0.02  
Dep 46.6 0.8 Half-duration 13.0  
Principal Axes:  
Scale 10\*\*26 D-CM  
T Vol= 4.96 Plg=66 Azm= 74  
N 0.00 3 171  
P -4.97 24 263  
Best Double Couple:Mo=5.0\*10\*\*26  
NP1:Strike= 0 Dip=21 Slip= 99  
NP2: 170 69 86

09 05 15 35.93 34.092N 140.719E 44km  
5.2mb ( 47 obs.) 5.8Msz ( 4 obs.)  
NEAR EAST COAST OF HONSHU, JAPAN  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 12S, 20C  
Centroid Location:  
Origin Time 05:15:42.0 0.7  
Lat 33.70N 0.12 Lon 140.74E 0.09  
Dep 10.0 FIX Half-duration 4.0  
Principal Axes:  
Scale 10\*\*25 D-CM  
T Vol= 1.88 Plg=51 Azm=197  
N 0.34 20 314  
P -2.22 32 57  
Best Double Couple:Mo=2.1\*10\*\*25  
NP1:Strike=194 Dip=23 Slip= 152  
NP2: 310 80 70

10 16 26 20.57 29.962N 138.927E 420km



5.8mb (101 obs.)  
SOUTH OF HONSHU, JAPAN  
FAULT PLANE SOLUTION: P-Waves  
NP1:Strike=330 Dip=80 Slip= -70  
NP2: 86 22 -153  
Principal Axes:  
T P1g=32 Azm= 43  
P 51 263  
Comment: The focal mechanism is well controlled and corresponds to normal faulting with a moderate strike-slip component. The preferred fault plane is not determined.  
MOMENT TENSOR SOLUTION  
Dep 403 No. of sta: 13  
Principal Axes:  
Scale 10\*\*25 d-cm  
T Val= 3.23 P1g=27 Azm= 39  
N -0.02 27 144  
P -3.21 50 272  
Best Double Couple:Mo=3.2\*10\*\*25  
NP1:Strike= 83 Dip=30 Slip=-154  
NP2: 331 77 -62  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 13S, 28C  
Centroid Location:  
Origin Time 16:26:22.1 0.1  
Lat 29.92N 0.02 Lon 138.86E 0.03  
Dep 398.1 0.9 Half-duration 5.2  
Principal Axes:  
Scale 10\*\*25 D-CM  
T Val= 3.10 P1g=26 Azm= 52  
N 0.13 17 151  
P -3.23 58 270  
Best Double Couple:Mo=3.2\*10\*\*25  
NP1:Strike=107 Dip=24 Slip=-136  
NP2: 336 73 -72

10 20 15 36.61 1.560N 77.017W 10km  
5.3mb ( 66 obs.) 4.7Msz ( 3 obs.)  
COLOMBIA  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 12S, 22C  
Centroid Location:  
Origin Time 20:15:45.9 0.8  
Lat 1.94N 0.08 Lon 77.21W 0.15  
Dep 46.7 8.1 Half-duration 1.6  
Principal Axes:  
Scale 10\*\*23 D-CM  
T Val= 8.89 P1g= 7 Azm=342  
N -1.96 8 251  
P -6.93 79 113  
Best Double Couple:Mo=7.9\*10\*\*23  
NP1:Strike= 81 Dip=38 Slip= -76  
NP2: 244 53 -100

10 20 37 33.79 49.988N 159.416E 28km  
5.5mb ( 79 obs.) 4.9Msz ( 6 obs.)  
KURIL ISLANDS REGION  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 13S, 25C  
Centroid Location:  
Origin Time 20:37:40.4 0.5  
Lat 50.03N 0.07 Lon 159.14E 0.07  
Dep 51.0 4.6 Half-duration 1.8  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 1.57 P1g=68 Azm=170  
N 0.20 18 25  
P -1.77 12 291  
Best Double Couple:Mo=1.7\*10\*\*24  
NP1:Strike= 0 Dip=37 Slip= 59  
NP2: 216 59 111

11 11 55 15.15 35.598S 179.001E 108km  
5.7mb ( 43 obs.)  
OFF E. COAST OF N. ISLAND, N.Z.  
FAULT PLANE SOLUTION: P-Waves  
NP1:Strike=140 Dip=60 Slip= 90  
NP2: 320 30 90  
Principal Axes:  
T P1g=75 Azm= 50  
P 15 230  
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.  
MOMENT TENSOR SOLUTION  
Dep 77 No. of sta: 6  
Principal Axes:  
Scale 10\*\*24 d-cm  
T Val= 4.75 P1g=85 Azm=272  
N 0.10 5 122  
P -4.84 3 32  
Best Double Couple:Mo=4.8\*10\*\*24  
NP1:Strike=117 Dip=43 Slip= 83  
NP2: 306 48 96  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 15S, 28C  
Centroid Location:  
Origin Time 11:55:18.9 0.3  
Lat 35.48S 0.05 Lon 179.12E 0.04  
Dep 97.3 1.4 Half-duration 3.0  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 5.41 P1g=44 Azm=288  
N 3.63 46 116  
P -9.04 4 22  
Best Double Couple:Mo=7.2\*10\*\*24  
NP1:Strike= 75 Dip=57 Slip= 32  
NP2: 327 64 143

11 13 12 31.14 53.237S 25.307E 10km  
5.1mb ( 10 obs.) 5.1Msz ( 1 obs.)  
SOUTH OF AFRICA  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 13S, 26C  
Centroid Location:  
Origin Time 13:12:38.1 0.3  
Lat 53.35S 0.05 Lon 26.10E 0.07  
Dep 10.0 10.0 Half-duration 2.5  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 3.47 P1g=11 Azm=342  
N 0.37 66 98  
P -3.84 21 247  
Best Double Couple:Mo=3.7\*10\*\*24  
NP1:Strike= 26 Dip=67 Slip=-173  
NP2: 293 83 -23

12 06 12 45.09 11.343S 165.687E 33km  
5.7mb ( 38 obs.) 5.9Msz ( 16 obs.)  
SANTA CRUZ ISLANDS  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 15S, 31C  
Centroid Location:  
Origin Time 06:12:50.9 0.3  
Lat 11.54S 0.03 Lon 165.51E 0.03  
Dep 14.8 1.4 Half-duration 3.8  
Principal Axes:  
Scale 10\*\*25 D-CM  
T Val= 1.39 P1g=64 Azm= 8  
N -0.32 26 184  
P -1.07 2 275  
Best Double Couple:Mo=1.2\*10\*\*25  
NP1:Strike= 29 Dip=49 Slip= 125  
NP2: 162 52 56

12 14 34 55.79 23.944S 60.553W 25km  
5.3mb ( 40 obs.)  
PARAGUAY  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 12S, 21C  
Centroid Location:  
Origin Time 14:35:1.7 0.6  
Lat 23.88S 0.14 Lon 60.39W 0.07  
Dep 46.2 5.8 Half-duration 1.4  
Principal Axes:  
Scale 10\*\*23 D-CM  
T Val= 5.07 P1g=62 Azm=169  
N 1.15 27 11  
P -6.22 9 276  
Best Double Couple:Mo=5.6\*10\*\*23  
NP1:Strike=338 Dip=43 Slip= 49  
NP2: 208 59 121

13 01 06 00.19 9.245S 114.185E 99km  
6.2mb ( 47 obs.)  
SOUTH OF BALI ISLAND  
FAULT PLANE SOLUTION: P-Waves  
NP1:Strike= 33 Dip=56 Slip= 90  
NP2: 213 34 90  
Principal Axes:  
T P1g=79 Azm=303  
P 11 123  
Comment: The focal mechanism is moderately well controlled and corresponds to reverse faulting. The preferred fault plane is NP2.  
MOMENT TENSOR SOLUTION  
Dep 87 No. of sta: 6  
Principal Axes:  
Scale 10\*\*24 d-cm  
T Val= 9.10 P1g=43 Azm=349  
N -0.08 43 197  
P -9.03 14 93  
Best Double Couple:Mo=9.1\*10\*\*24  
NP1:Strike=142 Dip=49 Slip= 24  
NP2: 35 72 136  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 14S, 26C  
Centroid Location:  
Origin Time 01:06:1.2 0.2  
Lat 9.68S 0.03 Lon 114.49E 0.02  
Dep 71.1 1.9 Half-duration 3.3  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 9.00 P1g=55 Azm=354  
N -0.36 28 216  
P -8.64 20 115  
Best Double Couple:Mo=8.8\*10\*\*24  
NP1:Strike=167 Dip=35 Slip= 36  
NP2: 46 70 119

13 03 00 06.78 1.622N 126.411E 51km  
6.4mb ( 68 obs.) 6.7Msz ( 24 obs.)  
MOLUCCA PASSAGE  
FAULT PLANE SOLUTION: P-Waves  
NP1:Strike=220 Dip=60 Slip= 90  
NP2: 40 30 90  
Principal Axes:  
T P1g=75 Azm=130  
P 15 310  
Comment: The focal mechanism is moderately well controlled and corresponds to reverse faulting. The preferred fault plane is not determined.  
MOMENT TENSOR SOLUTION  
Dep 48 No. of sta: 8  
Principal Axes:  
Scale 10\*\*26 d-cm  
T Val= 2.96 P1g=69 Azm=214  
N 0.84 21 26  
P -3.81 2 117  
Best Double Couple:Mo=3.4\*10\*\*26  
NP1:Strike=227 Dip=46 Slip= 119  
NP2: 9 51 63  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 16S, 33C M.W.: 11S, 23C  
Centroid Location:  
Origin Time 03:00:14.6 0.2  
Lat 1.77N 0.02 Lon 126.71E 0.02  
Dep 39.8 0.8 Half-duration 10.8  
Principal Axes:  
Scale 10\*\*26 D-CM  
T Val= 2.95 P1g=73 Azm=161  
N -0.26 11 29  
P -2.69 12 297  
Best Double Couple:Mo=2.8\*10\*\*26  
NP1:Strike= 12 Dip=34 Slip= 69  
NP2: 216 58 103

14 06 58 07.93 18.676N 145.578E 212km  
5.0mb ( 34 obs.)  
MARIANA ISLANDS  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 13S, 26C  
Centroid Location:  
Origin Time 06:58:12.5 0.3  
Lat 18.90N 0.03 Lon 145.10E 0.05  
Dep 214.4 1.6 Half-duration 2.9  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 6.06 P1g=41 Azm=151  
N -0.62 48 314  
P -5.44 9 54  
Best Double Couple:Mo=5.8\*10\*\*24  
NP1:Strike=184 Dip=55 Slip= 155  
NP2: 289 69 37

15 04 41 50.93 33.491S 71.960W 33km  
5.1mb ( 15 obs.) 5.2Msz ( 3 obs.)  
NEAR COAST OF CENTRAL CHILE  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN

L.P.B.: 10S, 19C  
Centroid Location:  
Origin Time 04:41:53.9 0.7  
Lat 33.64S 0.08 Lon 72.11W 0.16  
Dep 14.2 4.1 Half-duration 1.8  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 2.34 Plg=59 Azm= 61  
N 0.12 12 173  
P -2.46 28 270  
Best Double Couple:Mo=2.4\*10\*\*24  
NP1:Strike= 28 Dip=21 Slip= 127  
NP2: 169 74 77

16 17 07:32.92 4.686N 127.270E 118km  
5.2mb ( 27 obs.)  
TALAUD ISLANDS  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 7S, 13C  
Centroid Location:  
Origin Time 17:07:33.5 1.2  
Lat 4.96N 0.11 Lon 127.36E 0.13  
Dep 98.4 7.1 Half-duration 1.4  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 0.91 Plg=56 Azm=181  
N 0.18 34 0  
P -1.09 0 90  
Best Double Couple:Mo=1.0\*10\*\*24  
NP1:Strike=209 Dip=54 Slip= 133  
NP2: 331 54 47

16 22 38 44.59 3.367S 143.438E 25km  
5.6mb ( 15 obs.) 5.0Msz ( 2 obs.)  
NEAR N COAST OF PAPUA NEW GUINEA  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 10S, 21C  
Centroid Location:  
Origin Time 22:38:50.0 0.8  
Lat 3.27S 0.09 Lon 144.05E 0.11  
Dep 18.3 5.6 Half-duration 1.7  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 1.60 Plg=59 Azm=104  
N -0.18 27 313  
P -1.41 13 216  
Best Double Couple:Mo=1.5\*10\*\*24  
NP1:Strike=275 Dip=40 Slip= 44  
NP2: 148 63 121

17 04 16 16.63 52.107S 14.445E 10km  
5.1mb ( 7 obs.) 4.9Msz ( 3 obs.)  
SOUTHWEST OF AFRICA  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 12S, 24C  
Centroid Location:  
Origin Time 04:16:21.8 0.6  
Lat 52.09S 0.06 Lon 15.22E 0.13  
Dep 10.0 FIX Half-duration 1.7  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 1.62 Plg=22 Azm=194  
N 0.02 2 285  
P -1.64 68 20  
Best Double Couple:Mo=1.6\*10\*\*24  
NP1:Strike=280 Dip=23 Slip= -96  
NP2: 106 67 -88

18 00 06 32.85 52.144N 159.630E 33km  
5.7mb ( 82 obs.) 5.4Msz ( 18 obs.)  
OFF EAST COAST OF KAMCHATKA  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 13S, 26C  
Centroid Location:  
Origin Time 00:06:39.9 0.3  
Lat 52.07N 0.04 Lon 159.85E 0.05  
Dep 35.8 2.7 Half-duration 2.9  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 5.09 Plg=68 Azm=315  
N 0.33 6 210  
P -5.43 21 118  
Best Double Couple:Mo=5.3\*10\*\*24  
NP1:Strike=196 Dip=24 Slip= 75  
NP2: 33 67 97

18 05 52 52.83 25.926N 102.871E 5km  
5.7mb ( 76 obs.) 5.8Msz ( 20 obs.)  
YUNNAN PROVINCE, CHINA

CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 11S, 23C  
Centroid Location:  
Origin Time 05:52:55.7 0.4  
Lat 25.39N 0.05 Lon 102.64E 0.07  
Dep 10.0 FIX Half-duration 3.0  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 5.09 Plg=16 Azm= 57  
N -0.31 56 172  
P -4.78 29 317  
Best Double Couple:Mo=4.9\*10\*\*24  
NP1:Strike=100 Dip=57 Slip=-170  
NP2: 5 82 -33

19 17 43 10.89 11.848N 86.651W 72km  
5.3mb ( 65 obs.)  
NEAR COAST OF NICARAGUA  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 12S, 26C  
Centroid Location:  
Origin Time 17:43:12.7 0.3  
Lat 11.46N 0.04 Lon 87.42W 0.04  
Dep 50.0 1.9 Half-duration 4.4  
Principal Axes:  
Scale 10\*\*25 D-CM  
T Val= 1.49 Plg=69 Azm= 84  
N 0.54 16 305  
P -2.03 13 211  
Best Double Couple:Mo=1.8\*10\*\*25  
NP1:Strike=280 Dip=35 Slip= 60  
NP2: 135 60 109

20 18 23 48.04 9.004N 77.460W 38km  
5.6mb ( 85 obs.) 5.9Msz ( 30 obs.)  
NEAR NORTH COAST OF COLOMBIA  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 13S, 26C  
Centroid Location:  
Origin Time 18:23:56.1 0.2  
Lat 9.01N 0.03 Lon 77.35W 0.04  
Dep 12.3 2.1 Half-duration 4.5  
Principal Axes:  
Scale 10\*\*25 D-CM  
T Val= 3.40 Plg=48 Azm=263  
N 0.03 24 143  
P -3.43 32 37  
Best Double Couple:Mo=3.4\*10\*\*25  
NP1:Strike= 75 Dip=26 Slip= 20  
NP2: 327 82 115

21 08 49 40.55 35.665N 22.192E 35km  
5.0mb ( 64 obs.) 5.2Msz ( 4 obs.)  
MEDITERRANEAN SEA  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 12S, 21C  
Centroid Location:  
Origin Time 08:49:42.3 1.7  
Lat 35.35N 0.17 Lon 22.41E 0.10  
Dep 38.5 7.0 Half-duration 1.5  
Principal Axes:  
Scale 10\*\*23 D-CM  
T Val= 9.40 Plg=75 Azm= 61  
N 1.14 11 284  
P -10.54 10 193  
Best Double Couple:Mo=1.0\*10\*\*24  
NP1:Strike=269 Dip=36 Slip= 71  
NP2: 112 56 103

21 13 21 27.54 35.527N 87.283E 33km  
5.0mb ( 34 obs.) 5.4Msz ( 2 obs.)  
TIBET  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 11S, 22C  
Centroid Location:  
Origin Time 13:21:34.2 0.5  
Lat 35.72N 0.07 Lon 87.26E 0.08  
Dep 33.0 FIX Half-duration 2.6  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 3.06 Plg=18 Azm=109  
N -0.44 70 315  
P -2.63 8 202  
Best Double Couple:Mo=2.8\*10\*\*24  
NP1:Strike=247 Dip=71 Slip= 7  
NP2: 154 83 161

21 13 53 00.70 5.181S 130.443E 79km

5.9mb ( 48 obs.)  
BANDA SEA  
FAULT PLANE SOLUTION: P-Waves  
NP1:Strike=275 Dip=80 Slip= -30  
NP2: 11 61 -168  
Principal Axes:  
T Plg=13 Azm=326  
P 28 229  
Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting with a moderate normal component. The preferred fault plane is not determined.

MOMENT TENSOR SOLUTION  
Dep 86 No. of sta: 5  
Principal Axes:  
Scale 10\*\*25 d-cm  
T Val= 1.35 Plg=50 Azm= 55  
N -0.02 0 146  
P -1.33 40 236  
Best Double Couple:Mo=1.3\*10\*\*25  
NP1:Strike=329 Dip= 5 Slip= 93  
NP2: 146 85 90  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 14S, 24C  
Centroid Location:  
Origin Time 13:53: 6.4 0.4  
Lat 5.08S 0.04 Lon 130.41E 0.05  
Dep 99.0 3.8 Half-duration 3.6  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 10.56 Plg=43 Azm= 59  
N -1.80 25 303  
P -8.76 36 193  
Best Double Couple:Mo=9.7\*10\*\*24  
NP1:Strike=223 Dip=25 Slip= 9  
NP2: 125 86 115

21 17 54 27.33 22.806S 174.784W 33km  
5.3mb ( 18 obs.) 5.1Msz ( 3 obs.)  
TONGA ISLANDS REGION  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 10S, 16C  
Centroid Location:  
Origin Time 17:54:33.3 1.6  
Lat 22.52S 0.18 Lon 174.79W 0.20  
Dep 27.910.4 Half-duration 1.4  
Principal Axes:  
Scale 10\*\*23 D-CM  
T Val= 6.46 Plg=57 Azm=307  
N -1.24 10 53  
P -5.21 31 149  
Best Double Couple:Mo=5.8\*10\*\*23  
NP1:Strike=267 Dip=17 Slip= 126  
NP2: 50 76 80

23 16 15 12.02 15.344N 120.610E 188km  
6.3mb ( 95 obs.)  
LUZON, PHILIPPINE ISLANDS  
FAULT PLANE SOLUTION: P-Waves  
NP1:Strike= 72 Dip=67 Slip=-110  
NP2: 295 30 -51  
Principal Axes:  
T Plg=20 Azm=177  
P 63 310  
Comment: The focal mechanism is well controlled and corresponds to normal faulting with a large strike-slip component. The preferred fault plane is not determined.

MOMENT TENSOR SOLUTION  
Dep 191 No. of sta: 7  
Principal Axes:  
Scale 10\*\*26 d-cm  
T Val= 3.13 Plg=13 Azm=171  
N -0.01 28 74  
P -3.12 59 283  
Best Double Couple:Mo=3.1\*10\*\*26  
NP1:Strike=292 Dip=41 Slip= -44  
NP2: 59 63 -122  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 15S, 34C M.W.: 13S, 31C  
Centroid Location:  
Origin Time 16:15:19.9 0.2  
Lat 15.35N 0.02 Lon 120.69E 0.02  
Dep 182.2 1.1 Half-duration 10.0  
Principal Axes:

Scale 10\*\*26 D-CM  
T Val= 2.28 Plg=12 Azm=189  
N -0.38 30 92  
P -1.90 57 299  
Best Double Couple:Ma=2.1\*10\*\*26  
NP1:Strike=312 Dip=42 Slip=-41  
NP2: 75 64 -124

24 01 07 14.51 16.498N 120.815E 33km  
5.6mb ( 55 abs.) 6.1Msz ( 18 abs.)  
LUZON, PHILIPPINE ISLANDS  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 10S, 20C  
Centroid Location:  
Origin Time 01:07:10.6 0.3  
Lat 16.51N 0.03 Lon 121.22E 0.06  
Dep 31.9 4.9 Half-duration 4.1  
Principal Axes:  
Scale 10\*\*25 D-CM  
T Val= 1.54 Plg=21 Azm=194  
N -0.06 68 33  
P -1.48 6 287  
Best Double Couple:Ma=1.5\*10\*\*25  
NP1:Strike=332 Dip=71 Slip= 10  
NP2: 239 80 160

24 06 47 42.82 26.218N 96.013E 28km  
5.3mb ( 60 abs.) 5.1Msz ( 4 abs.)  
BURMA  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 11S, 17C  
Centroid Location:  
Origin Time 06:47:51.5 1.3  
Lat 25.83N 0.12 Lon 95.97E 0.12  
Dep 56.4 8.2 Half-duration 1.4  
Principal Axes:  
Scale 10\*\*23 D-CM  
T Val= 8.86 Plg=68 Azm=139  
N -0.23 19 350  
P -8.63 10 256  
Best Double Couple:Ma=8.8\*10\*\*23  
NP1:Strike=324 Dip=38 Slip= 58  
NP2: 182 58 113

24 12 16 07.67 5.823S 149.167E 122km  
5.4mb ( 25 abs.)  
NEW BRITAIN REGION  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 10S, 23C  
Centroid Location:  
Origin Time 12:16:12.1 0.4  
Lat 6.19S 0.04 Lon 149.25E 0.04  
Dep 112.2 3.1 Half-duration 2.3  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 2.98 Plg=48 Azm=346  
N -0.53 6 83  
P -2.45 41 178  
Best Double Couple:Ma=2.7\*10\*\*24  
NP1:Strike=322 Dip= 7 Slip= 150  
NP2: 83 86 84

25 09 06 38.14 60.693S 154.332E 10km  
4.9mb ( 2 abs.) 5.4Msz ( 1 abs.)  
WEST OF MACQUARIE ISLAND  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 17S, 34C  
Centroid Location:  
Origin Time 09:06:53.5 0.2  
Lat 60.19S 0.03 Lon 153.00E 0.04  
Dep 10.0 1.0 Half-duration 3.6  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 10.73 Plg= 7 Azm= 21  
N -0.06 71 269  
P -10.67 18 113  
Best Double Couple:Ma=1.1\*10\*\*25  
NP1:Strike=156 Dip=72 Slip= -7  
NP2: 248 83 -162

25 14 14 59.10 7.717S 108.036E 82km  
5.3mb ( 20 abs.)  
JAVA  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 11S, 19C  
Centroid Location:  
Origin Time 14:14:59.8 1.1  
Lat 7.73S 0.12 Lon 107.54E 0.10

Dep 84.010.7 Half-duration 1.5  
Principal Axes:  
Scale 10\*\*23 D-CM  
T Val= 7.38 Plg=60 Azm= 17  
N -0.13 5 278  
P -7.25 29 185  
Best Double Couple:Ma=7.3\*10\*\*23  
NP1:Strike=260 Dip=16 Slip= 71  
NP2: 100 75 95

25 15 30 24.20 8.494N 93.653E 33km  
5.4mb ( 59 abs.) 5.3Msz ( 7 abs.)  
NICOBAR ISLANDS REGION  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 11S, 21C  
Centroid Location:  
Origin Time 15:30:20.8 1.1  
Lat 8.31N 0.06 Lon 93.37E 0.10  
Dep 54.1 7.9 Half-duration 2.3  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 2.50 Plg= 7 Azm=304  
N 0.14 82 95  
P -2.64 4 213  
Best Double Couple:Ma=2.6\*10\*\*24  
NP1:Strike=348 Dip=82 Slip= 178  
NP2: 78 88 8

25 23 27 08.40 25.518S 177.614W 33km  
5.4mb ( 20 abs.) 5.5Msz ( 9 abs.)  
SOUTH OF FIJI ISLANDS  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 13S, 23C  
Centroid Location:  
Origin Time 23:27: 9.5 0.4  
Lat 25.37S 0.04 Lon 177.61W 0.04  
Dep 24.0 3.6 Half-duration 2.3  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 2.71 Plg= 7 Azm=143  
N -0.46 83 334  
P -2.26 1 233  
Best Double Couple:Ma=2.5\*10\*\*24  
NP1:Strike=278 Dip=84 Slip= 4  
NP2: 188 86 174

27 00 33 13.00 15.798S 173.503W 81km  
5.7mb ( 49 abs.)  
TONGA ISLANDS  
FAULT PLANE SOLUTION: P-Waves  
NP1:Strike= 10 Dip=85 Slip= 70  
NP2: 267 21 166  
Principal Axes:  
T Plg=46 Azm=259  
P 37 118  
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.  
MOMENT TENSOR SOLUTION  
Dep 100 No. of sta: 6  
Principal Axes:  
Scale 10\*\*24 d-cm  
T Val= 5.68 Plg=41 Azm=216  
N -0.22 45 64  
P -5.46 15 319  
Best Double Couple:Ma=5.6\*10\*\*24  
NP1:Strike= 6 Dip=50 Slip= 22  
NP2: 262 73 137  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 12S, 21C  
Centroid Location:  
Origin Time 00:33:22.2 0.7  
Lat 15.67S 0.08 Lon 173.35W 0.05  
Dep 90.4 4.0 Half-duration 2.3  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 3.13 Plg=48 Azm=259  
N -0.48 30 30  
P -2.66 25 136  
Best Double Couple:Ma=2.9\*10\*\*24  
NP1:Strike=272 Dip=34 Slip= 156  
NP2: 22 77 59

27 01 31 27.58 38.599N 73.173E 104km  
5.5mb ( 71 abs.)  
TAJIK-XINJIANG BORDER REGION

CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 11S, 20C  
Centroid Location:  
Origin Time 01:31:31.9 0.7  
Lat 38.35N 0.08 Lon 72.96E 0.06  
Dep 117.2 2.6 Half-duration 2.1  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 2.32 Plg=23 Azm= 63  
N 0.58 64 211  
P -2.90 12 328  
Best Double Couple:Ma=2.6\*10\*\*24  
NP1:Strike=103 Dip=65 Slip= 172  
NP2: 197 83 25

27 10 11 42.62 21.032S 176.820W 260km  
5.8mb ( 37 abs.)  
FIJI ISLANDS REGION  
FAULT PLANE SOLUTION: P-Waves  
NP1:Strike= 20 Dip=85 Slip= -50  
NP2: 116 40 -172  
Principal Axes:  
T Plg=29 Azm= 79  
P 37 325  
Comment: The focal mechanism is poorly controlled and corresponds to normal faulting with a large strike-slip component. The preferred fault plane is not determined.  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 13S, 25C  
Centroid Location:  
Origin Time 10:11:47.0 0.3  
Lat 21.23S 0.03 Lon 176.81W 0.03  
Dep 261.8 1.3 Half-duration 3.2  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 7.20 Plg=40 Azm=105  
N 1.61 47 258  
P -8.80 14 3  
Best Double Couple:Ma=8.0\*10\*\*24  
NP1:Strike=136 Dip=51 Slip= 159  
NP2: 240 74 40

28 02 53 41.53 32.998S 71.766W 33km  
5.3mb ( 21 abs.) 5.2Msz ( 6 abs.)  
NEAR COAST OF CENTRAL CHILE  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 13S, 26C  
Centroid Location:  
Origin Time 02:53:47.5 0.3  
Lat 33.18S 0.04 Lon 71.90W 0.05  
Dep 29.6 2.4 Half-duration 2.3  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 3.16 Plg=66 Azm= 78  
N 0.16 4 177  
P -3.32 24 269  
Best Double Couple:Ma=3.2\*10\*\*24  
NP1:Strike= 7 Dip=22 Slip= 100  
NP2: 176 69 86

28 08 30 29.05 39.728S 75.664W 10km  
6.1mb ( 42 abs.) 5.5Msz ( 15 abs.)  
OFF COAST OF CENTRAL CHILE  
FAULT PLANE SOLUTION: P-Waves  
NP1:Strike=335 Dip=64 Slip= -90  
NP2: 155 26 -90  
Principal Axes:  
T Plg=19 Azm= 65  
P 71 245  
Comment: The focal mechanism is poorly controlled and corresponds to normal faulting. The preferred fault plane is NP1.  
MOMENT TENSOR SOLUTION  
Dep 4 No. of sta: 8  
Principal Axes:  
Scale 10\*\*25 d-cm  
T Val= 1.01 Plg=21 Azm= 95  
N 0.05 20 193  
P -1.06 60 323  
Best Double Couple:Ma=1.0\*10\*\*25  
NP1:Strike=153 Dip=30 Slip=-134  
NP2: 21 69 -68  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 15S, 32C

<p>Centroid Location:  Origin Time 08:30:36.0 0.2  Lat 39.99S 0.03 Lon 75.65W 0.06  Dep 10.0 FIX Half-duration 3.2  Principal Axes:  Scale 10**24 D-CM  T Val= 8.40 Plg=18 Azm=325  N -0.21 5 57  P -8.19 71 162  Best Double Couple:Mo=8.3*10**24  NP1:Strike= 46 Dip=27 Slip=-101  NP2: 239 64 -84</p>	<p>Principal Axes:  Scale 10**24 d-cm  T Val= 6.50 Plg=64 Azm=274  N -0.15 13 33  P -6.35 22 128  Best Double Couple:Mo=6.4*10**24  NP1:Strike=241 Dip=26 Slip= 121  NP2: 27 68 76  CENTROID, MOMENT TENSOR (HRV)  Data Used: GDSN  L.P.B.: 13S, 28C  Centroid Location:  Origin Time 02:20: 2.1 0.2  Lat 41.26N 0.02 Lon 142.27E 0.03  Dep 56.8 2.0 Half-duration 3.1  Principal Axes:  Scale 10**24 D-CM  T Val= 6.51 Plg=70 Azm=302  N -0.18 2 207  P -6.33 20 116  Best Double Couple:Mo=6.4*10**24  NP1:Strike=203 Dip=25 Slip= 86  NP2: 27 65 92</p>	<p>Origin Time 16:13:39.8 0.6  Lat 35.51N 0.07 Lon 36.26W 0.10  Dep 10.0 FIX Half-duration 1.5  Principal Axes:  Scale 10**23 D-CM  T Val= 8.27 Plg= 3 Azm=324  N 0.40 66 228  P -8.67 24 55  Best Double Couple:Mo=8.5*10**23  NP1:Strike= 97 Dip=71 Slip= -16  NP2: 192 75 -160</p>
<p>28 22 56 51.33 55.494S 26.149W 33km  5.7mb ( 17 obs.) 5.6MsZ ( 15 obs.)  SOUTH SANDWICH ISLANDS REGION  CENTROID, MOMENT TENSOR (HRV)  Data Used: GDSN  L.P.B.: 17S, 35C  Centroid Location:  Origin Time 22:56:54.4 0.2  Lat 55.66S 0.02 Lon 26.03W 0.06  Dep 10.0 FIX Half-duration 3.0  Principal Axes:  Scale 10**24 D-CM  T Val= 8.16 Plg=19 Azm=202  N -0.90 51 87  P -7.25 32 305  Best Double Couple:Mo=7.7*10**24  NP1:Strike=339 Dip=53 Slip= -11  NP2: 76 82 -142</p>	<p>29 10 17 10.02 13.398N 145.540E 62km  5.5mb ( 53 obs.)  MARIANA ISLANDS  CENTROID, MOMENT TENSOR (HRV)  Data Used: GDSN  L.P.B.: 9S, 20C  Centroid Location:  Origin Time 10:17:10.1 0.3  Lat 13.39N 0.04 Lon 145.48E 0.06  Dep 24.4 6.9 Half-duration 2.2  Principal Axes:  Scale 10**24 D-CM  T Val= 2.47 Plg= 2 Azm=318  N 0.12 81 58  P -2.58 9 228  Best Double Couple:Mo=2.5*10**24  NP1:Strike= 3 Dip=82 Slip=-175  NP2: 272 85 -8</p>	<p>30 18 14 12.71 39.266N 22.810E 27km  5.5mb ( 58 obs.) 5.5MsZ ( 11 obs.)  GREECE  CENTROID, MOMENT TENSOR (HRV)  Data Used: GDSN  L.P.B.: 13S, 27C  Centroid Location:  Origin Time 18:14:16.1 0.2  Lat 39.06N 0.03 Lon 23.15E 0.06  Dep 13.5 1.5 Half-duration 2.6  Principal Axes:  Scale 10**24 D-CM  T Val= 3.57 Plg= 3 Azm=179  N -0.22 12 88  P -3.34 77 284  Best Double Couple:Mo=3.5*10**24  NP1:Strike=281 Dip=43 Slip= -72  NP2: 77 50 -106</p>
<p>29 02 19 59.60 41.479N 142.043E 71km  5.7mb ( 80 obs.)  HOKKAIDO, JAPAN REGION  FAULT PLANE SOLUTION: P-Waves  NP1:Strike= 33 Dip=58 Slip= 75  NP2: 240 35 112  Principal Axes:  T Plg=73 Azm=265  P 12 134  Comment: The focal mechanism is  poorly controlled and  corresponds to reverse  faulting with a small right-  lateral strike-slip component.  The preferred fault plane is  NP2.  MOMENT TENSOR SOLUTION  Dep 49 No. of sto: 16</p>	<p>29 16 13 33.39 35.307N 36.011W 10km  5.0mb ( 55 obs.) 4.7MsZ ( 14 obs.)  NORTH ATLANTIC RIDGE  CENTROID, MOMENT TENSOR (HRV)  Data Used: GDSN  L.P.B.: 10S, 18C  Centroid Location:</p>	<p>30 21 12 50.73 26.085S 70.882E 10km  5.2mb ( 7 obs.) 4.6MsZ ( 1 obs.)  SOUTH INDIAN OCEAN  CENTROID, MOMENT TENSOR (HRV)  Data Used: GDSN  L.P.B.: 10S, 21C  Centroid Location:  Origin Time 21:12:56.6 1.4  Lat 25.67S 0.10 Lon 70.79E 0.12  Dep 10.0 FIX Half-duration 1.4  Principal Axes:  Scale 10**23 D-CM  T Val= 7.62 Plg=14 Azm=227  N -1.88 2 136  P -5.74 76 37  Best Double Couple:Mo=6.7*10**23  NP1:Strike=320 Dip=31 Slip= -85  NP2: 135 59 -93</p>

Compiled by Willis S. Jacobs, Leonard E. Kerry, John H. Minsch, Russell E. Needham, Waverly J. Person,  
Bruce W. Presgrave and William H. Schmieder.

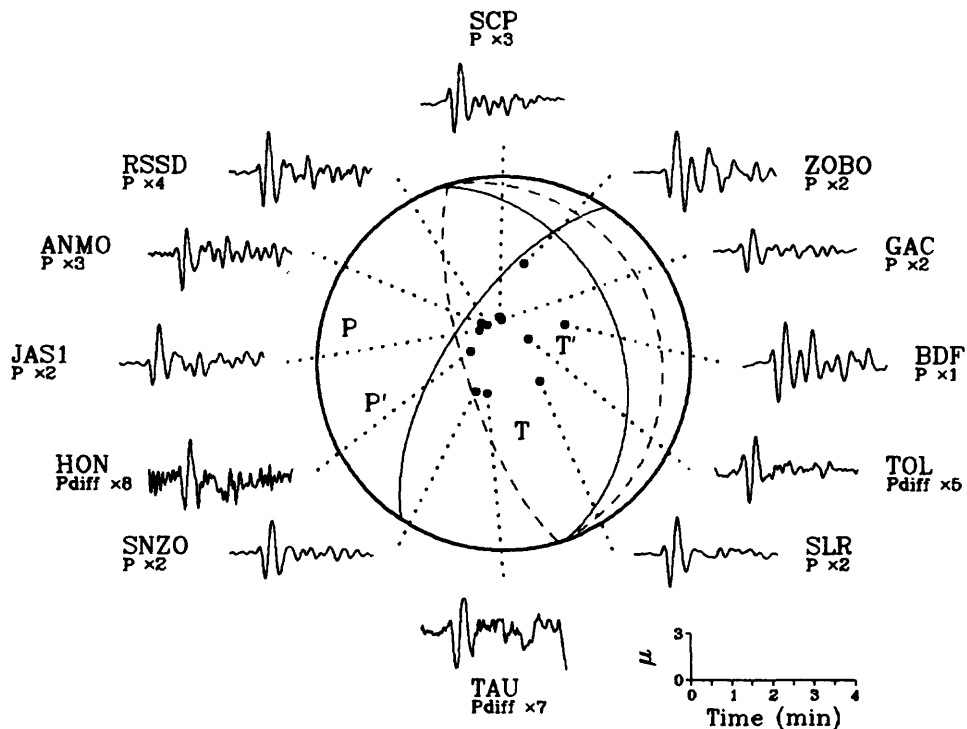
Correction to Monthly Listing for June, 1984

Event of 08:52:53.1 UTC on June 30, 1984 should read:

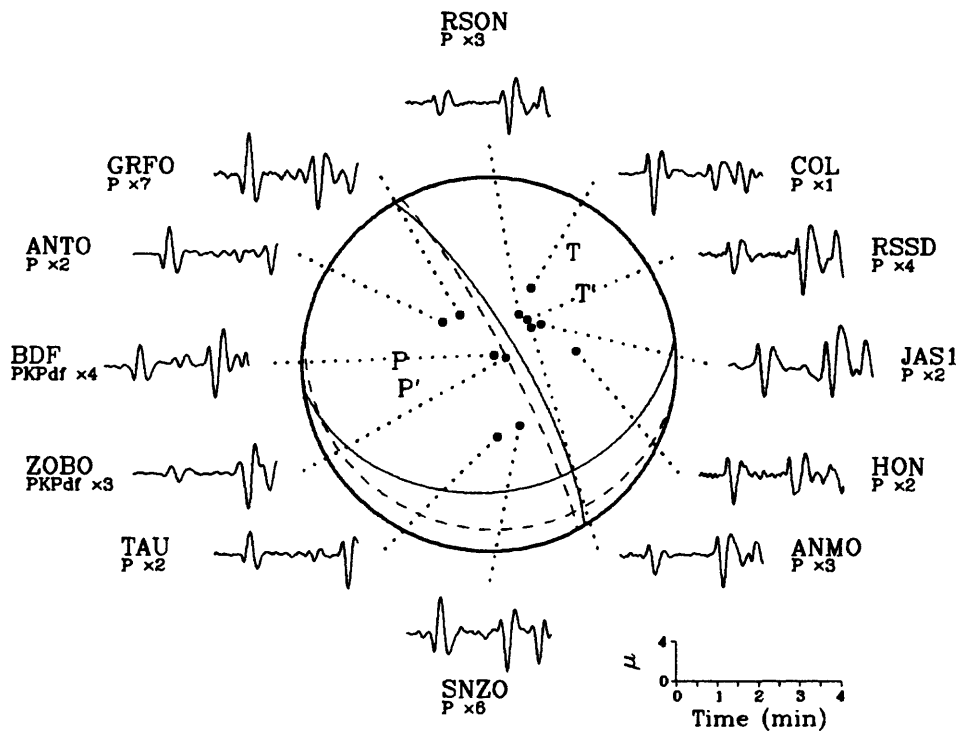
JUNE 1984

30 11 52 50.9+ 43.078 N 0.397 W 20 G 1.1 8 PYRENEES. ML 2.4 (LDG).

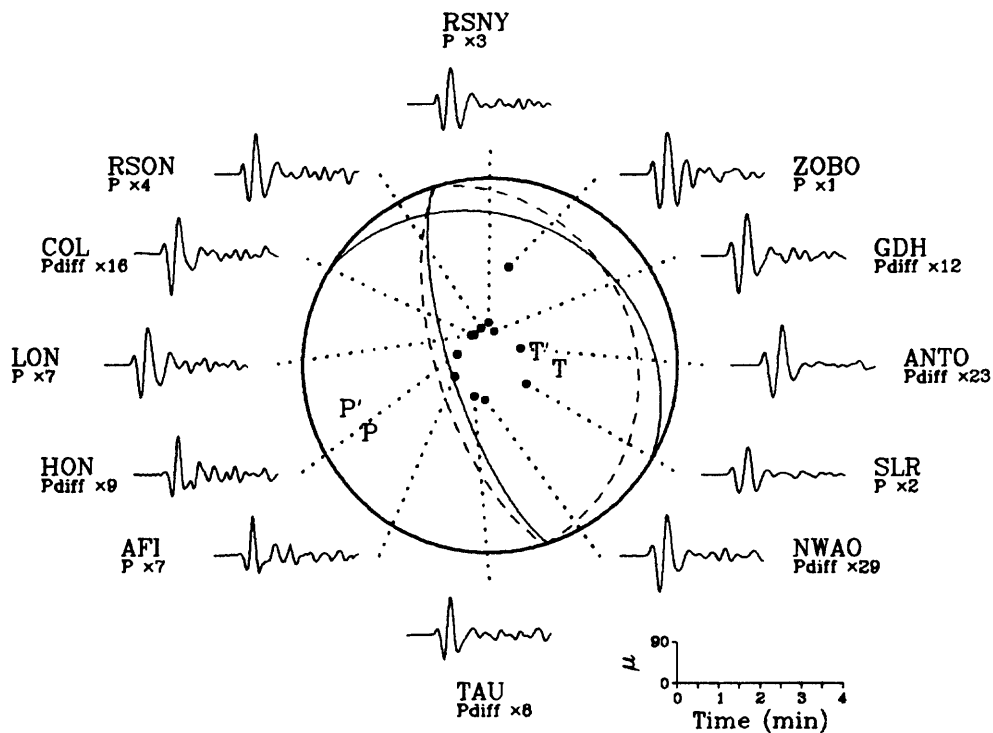
03 April 1985 13:06:20.26  
Near Coast of Central Chile



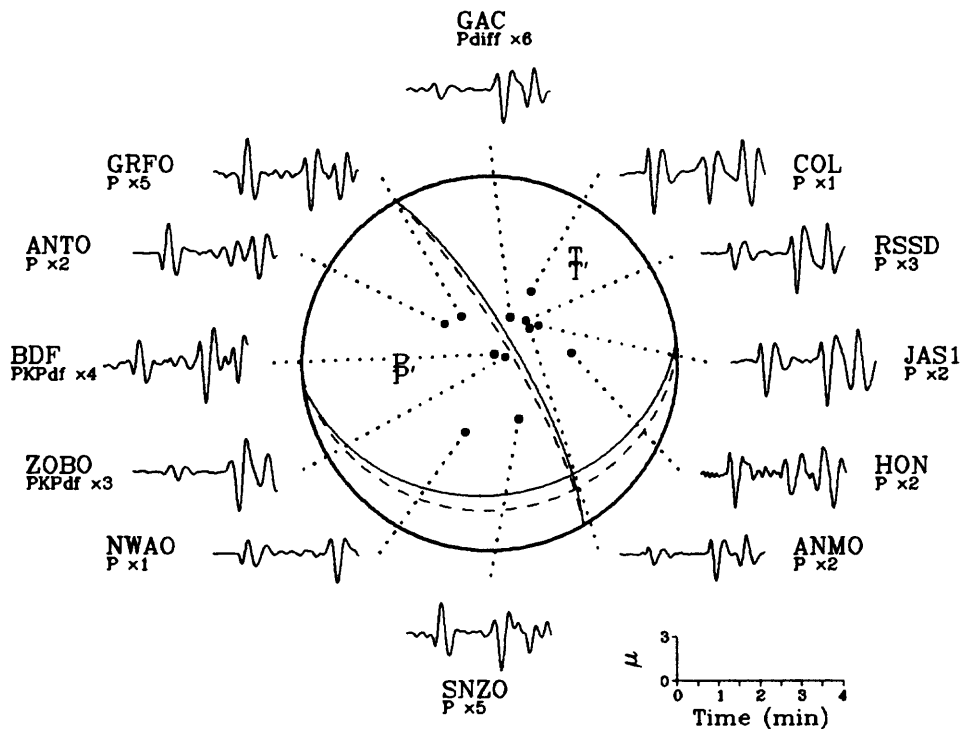
03 April 1985 20:21:36.26  
Bonin Islands Region



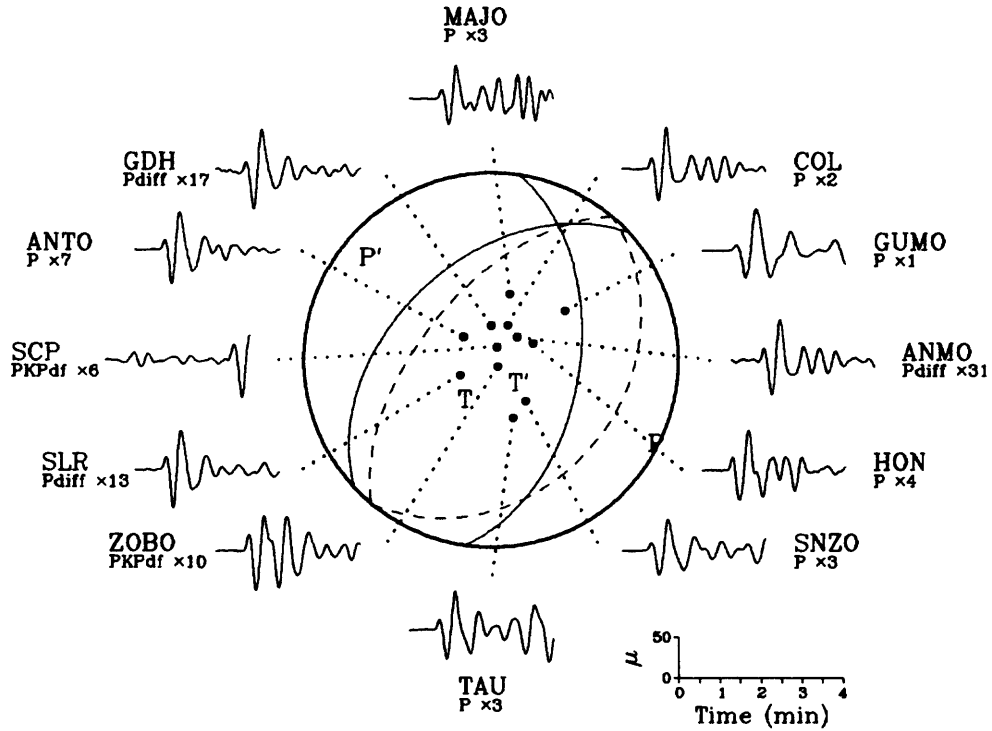
09 April 1985 01:58:59.48  
Near Coast of Central Chile



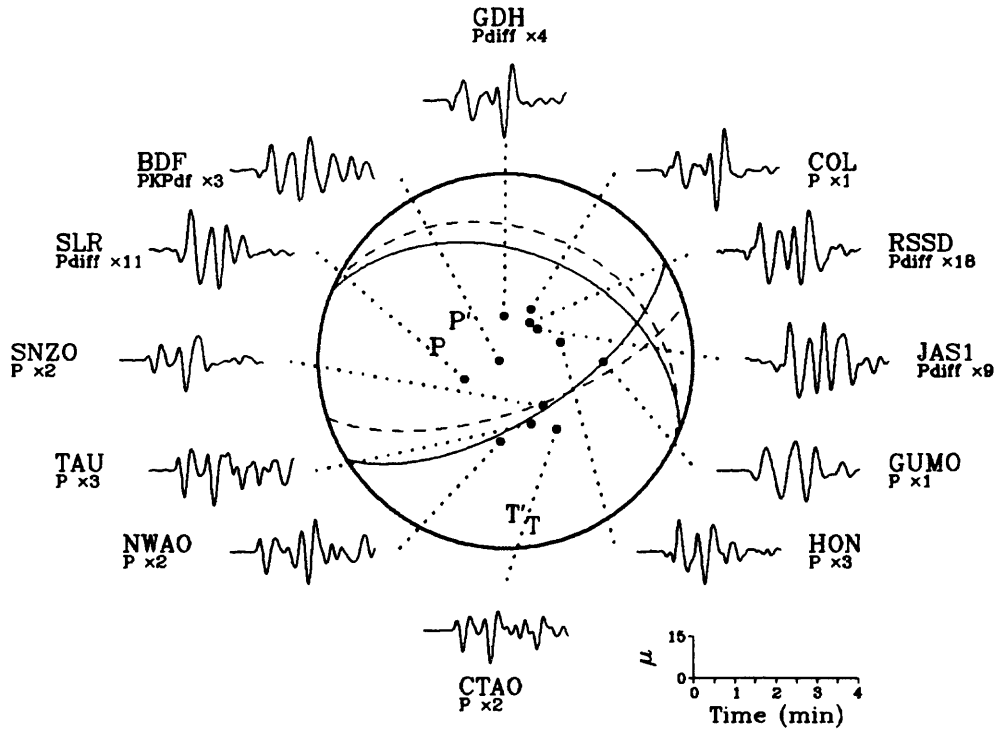
10 April 1985 16:26:20.57  
South of Honshu, Japan



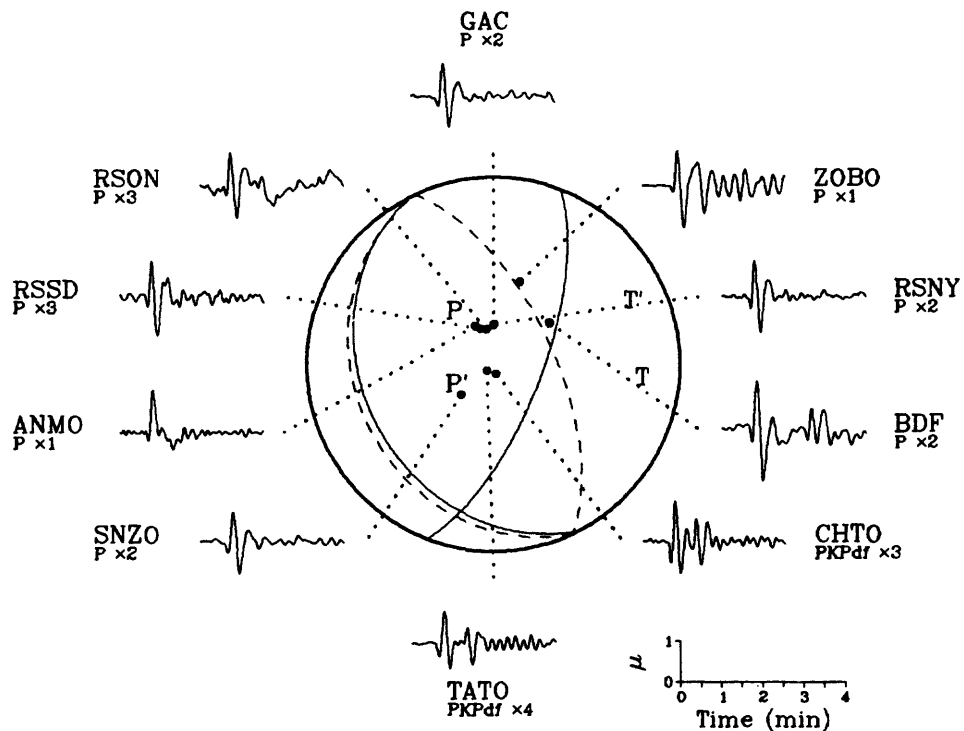
13 April 1985 03:00:06.78  
Molucca Passage



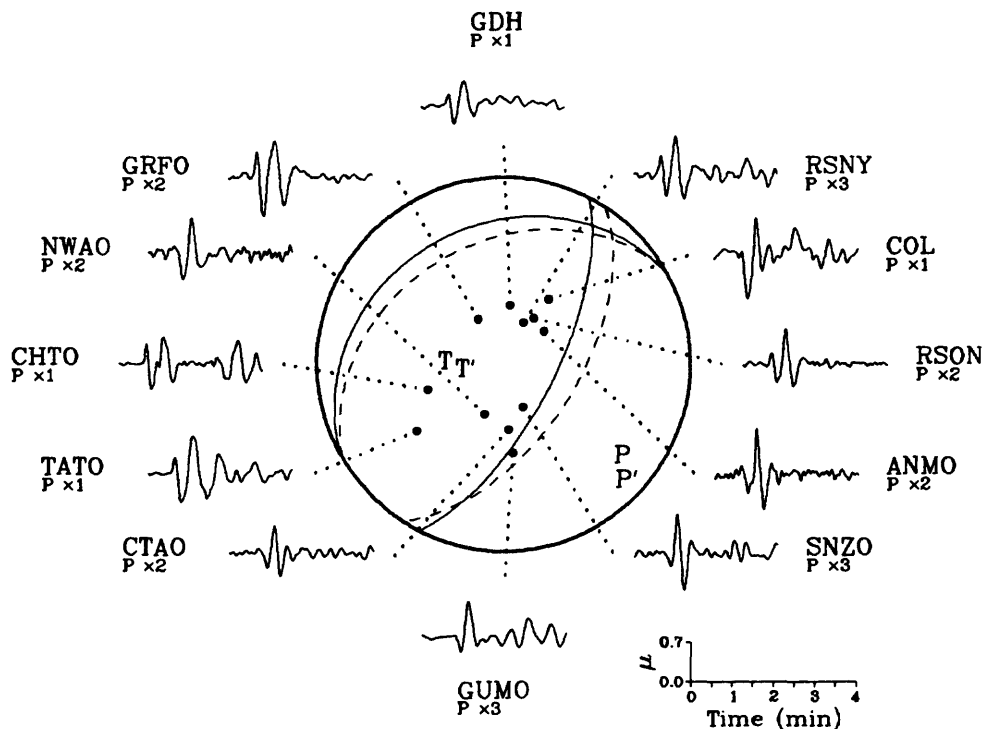
23 April 1985 18:15:12.02  
Luzon, Philippine Islands



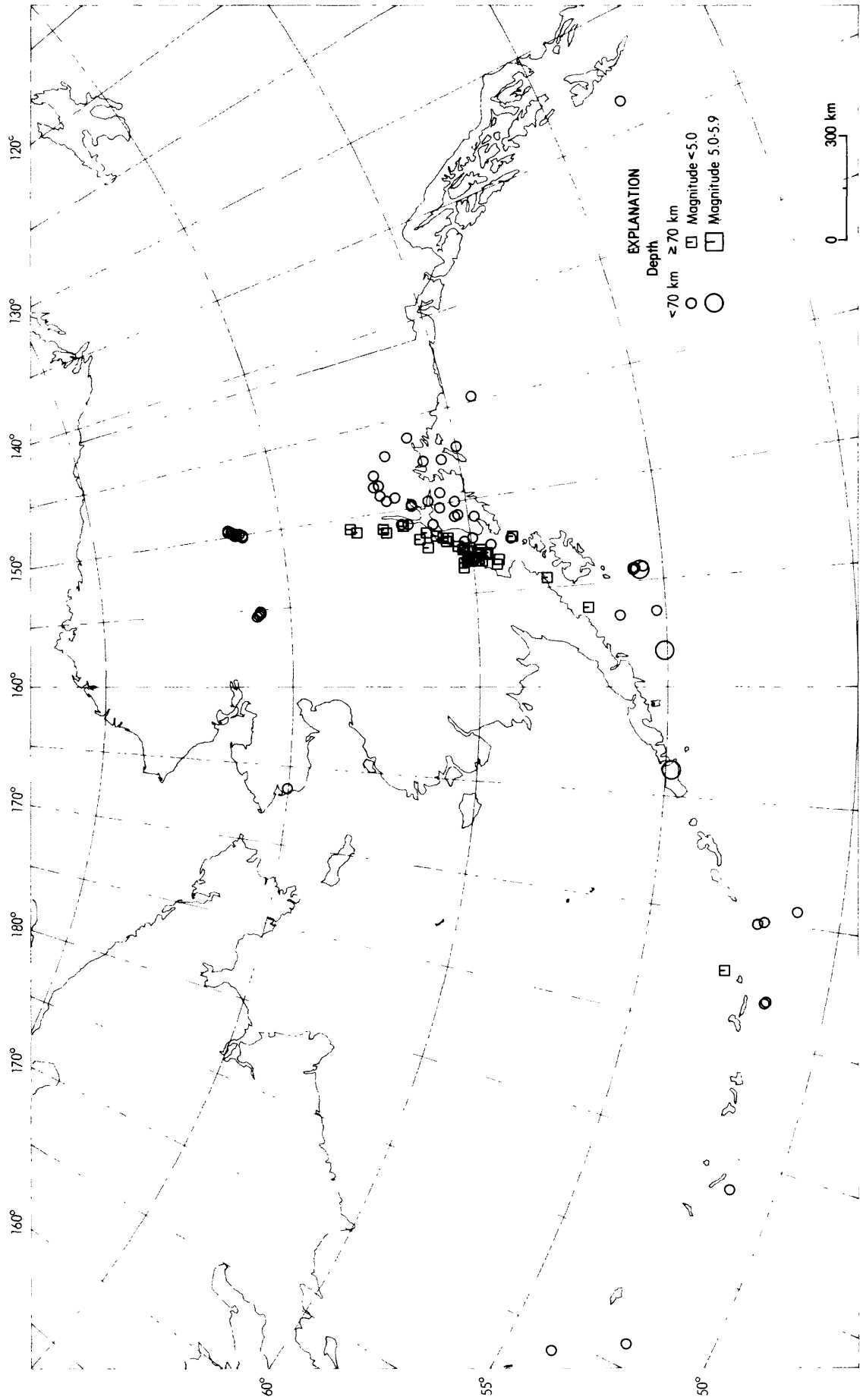
28 April 1985 08:30:29.05  
Off Coast of Central Chile



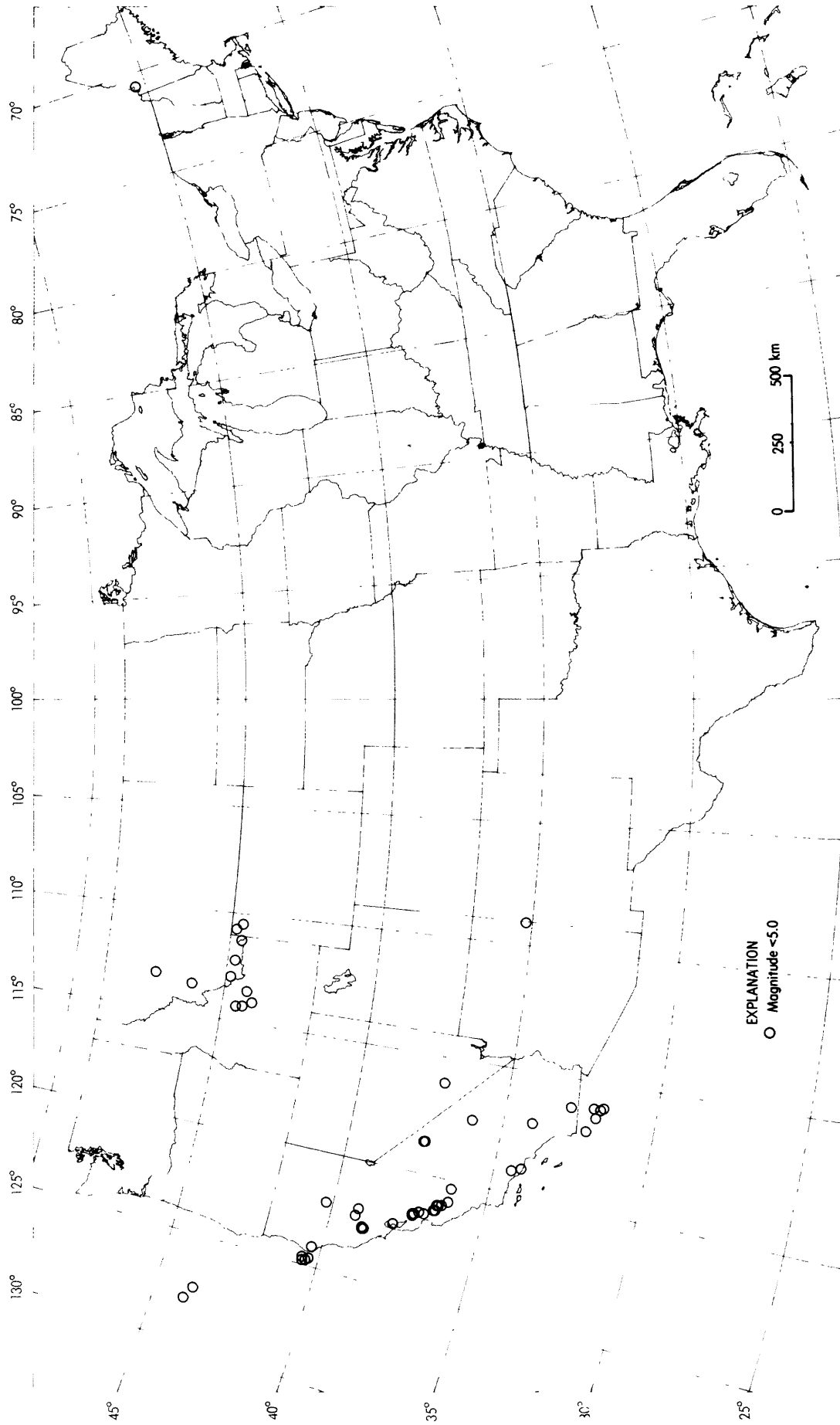
29 April 1985 02:19:59.60  
Hokkaido, Japan Region



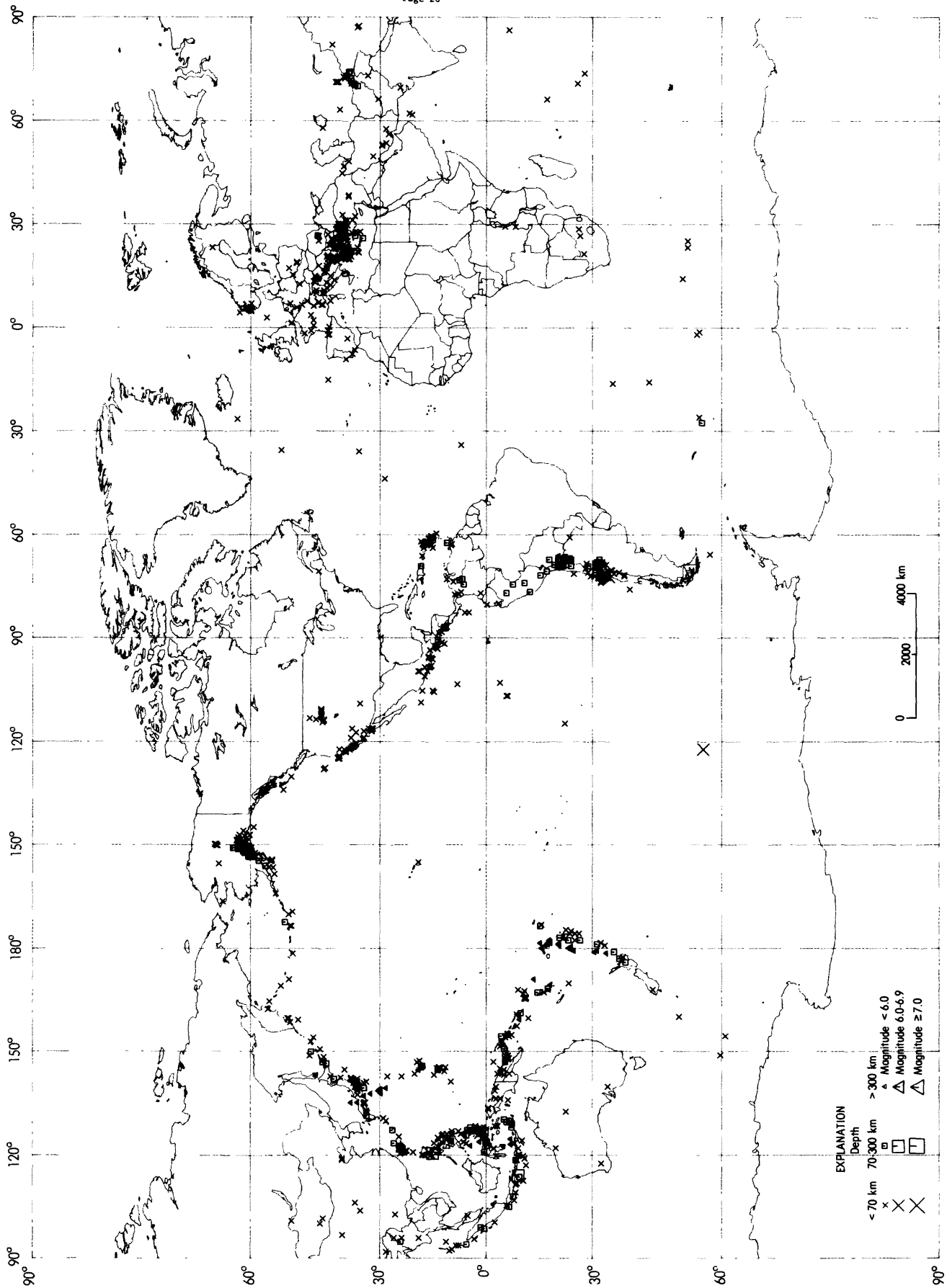




Earthquake epicenters in Alaska and adjacent regions for April, 1985 (C. Stover).



Earthquake epicenters in the conterminous United States and adjacent regions for April, 1985 (C. Stover).



Earthquakes located in April, 1985 (C. Stover).



# PRELIMINARY DETERMINATION OF EPICENTERS

## MONTHLY LISTING

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

M A Y 1 9 8 5

K E Y	DAY	ORIGIN TIME UTC HR MN SEC	GEOGRAPHIC COORDINATES LAT LONG	DEPTH	MAGNITUDES GS MB Msz	SD	NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
	01	00 59 05.3	54.484 N 161.434 W	33 N	5.2 4.5	0.9	160	ALASKA PENINSULA. ML 5.2 (PMR). Felt (IV) at Cold Bay and (III) at Sand Point.
	01	01 16 27.8	37.993 N 87.630 W	10 G			13	KENTUCKY. <SLM>. mbLg 2.9 (SLM). Felt in the western part of Evansville, Indiana.
	01	01 57 55.7*	39.232 N 22.955 E	10 G		1.1	11	GREECE
	01	03 12 55.3*	37.891 S 175.458 E	165 ?		0.8	8	NORTH ISLAND, NEW ZEALAND
	01	05 02 31.7*	39.399 N 22.923 E	10 G		1.3	9	GREECE. ML 3.1 (ATH).
	01	05 13 22.5?	21.78 S 68.43 W	166 ?		0.7	5	CHILE-BOLIVIA BORDER REGION
	01	05 18 35.1*	39.220 N 22.806 E	10 G		0.6	9	GREECE. ML 3.3 (ATH).
	01	05 32 34.9	52.991 N 157.876 E	148 D	4.9	0.8	83	KAMCHATKA
	01	06 01 29.1	0.854 N 29.446 W	10 G	4.7 3.9	0.9	51	CENTRAL MID-ATLANTIC RIDGE
	01	07 02 06.8	39.331 N 29.098 E	10 G		1.3	21	TURKEY
	01	07 14 53.0*	39.329 N 23.094 E	10 G		0.9	7	AEGEAN SEA. ML 2.9 (ATH).
	01	07 31 32.7	39.317 N 29.125 E	10 G		1.1	9	TURKEY
	01	07 51 39.9*	39.305 N 23.060 E	10 G		0.3	5	AEGEAN SEA. ML 2.9 (ATH).
	01	07 52 25.3?	24.09 N 122.69 E	33 N		0.1	5	TAIWAN REGION
	01	08 10 41.6	39.359 N 22.978 E	10 G		1.2	9	GREECE. ML 3.1 (ATH).
	01	08 34 51.7*	39.296 N 23.114 E	10 G		1.3	9	AEGEAN SEA. ML 3.1 (ATH).
	01	08 53 44.3*	31.342 S 68.931 W	120		0.9	10	SAN JUAN PROVINCE, ARGENTINA
	01	08 55 37.2*	60.674 N 152.274 W	90			26	SOUTHERN ALASKA. <AGS-P>.
	01	09 35 53.9*	9.018 S 116.753 E	33 N	4.2	1.5	6	SUMBAWA ISLAND REGION
	01	10 18 11.6	46.168 N 6.926 E	10 G		0.8	11	SWITZERLAND. ML 3.0 (LDG).
	01	10 41 46.9*	7.014 S 130.460 E	33 N		1.1	7	TANIMBAR ISLANDS REGION
	01	11 09 56.3?	39.20 N 29.14 E	10 G		1.1	6	TURKEY
	01	12 34 47.0*	39.235 N 29.066 E	10 G		0.8	7	TURKEY
	01	13 05 38.2*	39.735 N 143.625 E	33 N	4.4	1.4	14	OFF EAST COAST OF HONSHU, JAPAN
f	01	13 27 56.1	9.196 S 71.230 W	600 D	6.0	0.9	376	PERU-BRAZIL BORDER REGION. mb 6.1 (BRK).
	01	13 33 32.9*	39.296 N 23.034 E	10 G		1.5	7	AEGEAN SEA. ML 3.2 (ATH).
	01	13 50 55.2*	4.923 S 139.330 E	33 N	4.6	0.7	7	WEST IRIAN
	01	14 11 15.3	9.027 S 71.231 W	616 D	4.5	0.7	80	PERU-BRAZIL BORDER REGION
	01	14 42 14.6	39.312 N 22.931 E	10 G		0.9	15	GREECE. ML 3.0 (ATH).
	01	14 57 45.5*	60.727 N 5.575 E	10 G		0.6	5	SOUTHERN NORWAY. DUR 2.0 (BER).
	01	15 44 59.9	39.297 N 29.187 E	10 G		1.3	14	TURKEY
	01	16 39 17.6?	39.24 N 28.92 E	10 G		1.3	5	TURKEY
	01	16 57 35.6	43.001 N 13.706 E	18	3.4	1.3	68	CENTRAL ITALY. ML 4.4 (LDG), 4.2 (KBA), 4.1 (TRI).
	01	18 50 56.6?	39.02 N 28.92 E	10 G		0.4	5	TURKEY
	01	19 50 15.0*	39.252 N 29.104 E	10 G		0.9	7	TURKEY
	01	20 29 53.3*	39.306 N 22.945 E	10 G		1.1	9	GREECE
	01	22 24 55.7?	40.96 N 30.55 E	10 G		1.1	5	TURKEY
	01	22 35 22.4*	39.388 N 22.988 E	10 G		0.6	5	GREECE. ML 3.0 (ATH).
	01	23 40 24.5	18.286 S 167.514 E	10 G	4.7	1.1	23	VANUATU ISLANDS
	02	00 40 28.9	32.129 S 69.111 W	33 N		0.4	8	MENDOZA PROVINCE, ARGENTINA
	02	01 16 55.5*	39.234 N 29.042 E	10 G		0.7	5	TURKEY
	02	01 30 44.5*	39.199 N 22.715 E	10 G		1.1	5	GREECE. ML 2.9 (ATH).
	02	02 16 03.8?	12.28 S 117.94 E	33 N	3.0	0.9	7	SOUTH OF SUMBAWA ISLAND
	02	03 12 35.7?	37.67 N 112.09 E	33 N	4.8	1.3	8	NORTHEASTERN CHINA
	02	05 43 37.9*	40.993 N 143.686 E	33 N	5.2	0.7	10	OFF EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Hachinohe.
	02	07 47 51.9*	61.147 N 150.400 W	45			40	SOUTHERN ALASKA. <AGS-P>. Felt (II) at Anchorage.
	02	08 55 04.7*	19.350 S 174.566 W	109 ?	5.3	0.6	10	TONGA ISLANDS
f	02	08 55 16.3	48.871 N 156.329 E	43 D	5.9 6.4	1.0	335	KURIL ISLANDS REGION. Felt (V) on Mys Vasilyeva, Paramushir Island.
	02	10 03 23.9*	39.569 N 29.401 E	10 G		1.5	5	TURKEY
	02	11 21 03.4*	40.104 N 29.310 E	10 G		0.5	5	TURKEY
	02	12 30 29.7	51.688 N 176.724 W	60	4.8	0.9	69	ANDREANOF ISLANDS, ALEUTIAN IS. Felt (IV) on Adak.
	02	12 52 29.3	56.122 N 163.353 E	33 N	5.2 4.6	1.0	150	NEAR EAST COAST OF KAMCHATKA
	02	13 18 59.9?	39.75 N 29.54 E	10 G		1.0	6	TURKEY
	02	13 43 43.3*	17.137 S 176.946 W	33 N	4.6	1.0	11	FIJI ISLANDS REGION

02	15 20 00.0&	37.253 N	116.325 W	0	5.7				239	SOUTHERN NEVADA. <DOE>. ML 5.4 (BRK). 37' 15' 12.26" N., 116' 19' 30.75" W., Surface Elev. 2112 m., Depth of Burial 661 m., Snot Time 152000.083, "TOWANDA", Nevada Test Site (Dept. of Energy).
o 02	15 56 32.4	1.565 N	126.416 E	46	5.3	4.9	1.1		118	MOLUCCA PASSAGE
02	16 07 04.7?	33.31 S	68.65 W	5 G			0.8		5	MENDOZA PROVINCE, ARGENTINA
02	16 45 40.3?	2.88 N	128.85 E	212 ?	4.7		0.5		7	HALMAHERA
02	19 41 49.8*	43.980 N	13.256 E	10 G			0.8		9	CENTRAL ITALY. ML 3.7 (KBA).
o 02	19 57 15.5	19.164 N	145.780 E	116 D	5.2		1.1		113	MARIANA ISLANDS
02	20 12 39.6&	59.968 N	153.418 W	135					27	SOUTHERN ALASKA. <AGS-P>.
02	20 58 48.0*	5.040 S	130.717 E	33 N	4.5		1.5		14	BANDA SEA
02	21 18 02.3*	48.858 N	156.151 E	40 D	4.9	4.3	0.9		31	KURIL ISLANDS REGION
02	22 36 16.1*	36.619 N	140.986 E	10 G			0.5		7	NEAR EAST COAST OF HONSHU, JAPAN
03	00 18 19.5	24.022 N	121.084 E	10 G			0.4		8	TAIWAN
03	00 45 24.8	43.157 N	131.529 E	540	4.4		0.8		70	E. USSR-N.E. CHINA BORDER REG.
03	00 48 01.3*	38.770 N	31.510 E	21			1.1		18	TURKEY
03	01 11 40.5?	12.07 S	166.01 E	33 N			1.3		7	SANTA CRUZ ISLANDS
03	01 37 51.2?	6.89 S	130.43 E	33 N			1.5		5	BANDA SEA
03	01 38 47.4*	39.328 N	23.119 E	10 G			0.8		6	AEGEAN SEA. ML 3.2 (ATH).
03	01 47 43.8?	6.83 S	130.01 E	102 ?			1.0		6	BANDA SEA
03	02 41 55.6*	6.968 S	154.759 E	33 N	4.0		0.7		7	SOLOMON ISLANDS
03	02 58 12.0?	15.01 N	61.57 W	163 ?			0.6		8	LEEWARD ISLANDS
o 03	04 01 56.5	8.451 S	126.629 E	97 *	4.5		1.2		16	TIMOR
03	07 02 53.4	11.853 N	86.930 W	88	5.1		1.1		176	NEAR COAST OF NICARAGUA
03	07 05 54.9*	9.522 N	69.449 W	26	4.9		0.9		37	VENEZUELA. Felt at El Tacuyo.
03	07 12 15.6&	61.772 N	150.738 W	60					33	SOUTHERN ALASKA. <AGS-P>.
03	07 13 21.3?	20.97 S	179.23 W	635 *	4.4		0.9		13	FIJI ISLANDS REGION
03	08 34 40.5?	45.40 N	16.16 E	10 G			0.4		5	YUGOSLAVIA. ML 2.5 (KBA).
03	09 10 46.8&	61.518 N	146.417 W	31					36	SOUTHERN ALASKA. <AGS-P>.
03	09 26 34.7	39.131 N	27.563 E	10 G			0.9		6	TURKEY
03	09 41 02.8*	38.839 N	21.306 E	10 G	3.8		1.2		13	GREECE. ML 3.6 (ATH).
03	09 50 54.7?	39.477 N	29.551 E	10 G			0.9		8	TURKEY
03	09 53 30.2?	39.474 N	29.523 E	10 G			0.6		5	TURKEY
03	09 56 04.6?	39.616 N	29.456 E	10 G			0.3		5	TURKEY
03	10 04 53.5*	63.419 N	145.621 W	33 N			0.9		7	CENTRAL ALASKA. ML 3.6 (PMR).
03	10 58 12.9*	40.416 N	29.209 E	10 G			0.5		10	TURKEY
03	11 23 25.8	7.272 N	93.079 E	39	4.9	4.2	0.9		76	NICOBAR ISLANDS REGION
03	12 07 33.8	58.214 N	148.787 W	28 D	4.7		0.9		72	GULF OF ALASKA. ML 4.5 (PMR).
03	13 12 41.0	18.173 S	176.984 E	10 G	4.7	4.6	1.2		46	FIJI ISLANDS REGION. Felt at western Viti Levu.
03	13 35 39.4	64.269 N	150.398 W	33 N			1.1		16	CENTRAL ALASKA. ML 3.8 (PMR).
03	13 38 04.0*	7.471 S	129.753 E	33 N	4.8		0.8		6	BANDA SEA
03	14 04 18.5?	34.52 S	72.49 W	33 N	4.1		1.4		6	NEAR COAST OF CENTRAL CHILE
o 03	14 47 53.0&	36.650 N	121.293 W	5 G					12	CENTRAL CALIFORNIA. <BRK>. ML 2.7 (BRK).
03	15 28 33.9	9.276 S	71.271 W	603 D	5.1		0.8		172	PERU-BRAZIL BORDER REGION
03	15 47 21.3*	52.505 N	169.478 W	33 N	4.2		1.5		12	FOX ISLANDS, ALEUTIAN ISLANDS
03	16 53 18.3*	39.275 N	23.131 E	10 G			1.3		8	AEGEAN SEA. ML 3.2 (ATH).
03	17 11 50.5?	19.00 S	177.57 W	447 *	4.3		1.0		19	FIJI ISLANDS REGION
03	17 13 03.1*	41.038 N	28.525 E	10 G			0.5		7	TURKEY
03	17 46 10.6%	38.950 N	27.677 E	10 G			0.4		6	TURKEY
03	18 02 30.4	18.090 N	146.668 E	88	4.9		0.7		40	MARIANA ISLANDS
03	18 09 52.6	39.220 N	22.855 E	10 G			0.9		13	GREECE. ML 3.1 (ATH).
03	19 23 47.3*	30.181 N	67.486 E	33 N	4.2		0.9		6	PAKISTAN
03	19 26 26.0	0.503 N	97.992 E	31 D	4.6		1.3		22	NORTHERN SUMATERA
03	21 30 27.7*	33.355 S	71.723 W	10 G			1.4		9	NEAR COAST OF CENTRAL CHILE. Felt (II) at Santiago.
03	21 49 28.3	44.335 N	7.478 E	10 G			0.5		15	NORTHERN ITALY. ML 3.1 (LDG).
03	22 13 55.0	39.334 N	22.911 E	10 G	3.7		1.2		36	GREECE. ML 3.9 (ATH). Felt in the Volos area.
03	22 28 19.8?	39.38 N	22.92 E	10 G			0.6		11	GREECE
03	22 56 40.5?	21.68 S	179.59 W	480 G	4.3		1.1		21	FIJI ISLANDS REGION
o 03	23 40 02.6&	62.137 N	150.187 W	61					42	CENTRAL ALASKA. <AGS-P>. Felt at Palmer.
o 04	00 04 22.2	6.315 S	154.994 E	72	5.3		1.0		82	SOLOMON ISLANDS. Felt (IV) at Panguna and Arowa.
04	00 25 14.4	39.325 N	22.943 E	23			0.9		18	GREECE. ML 3.3 (ATH).
04	00 43 11.7	45.018 N	9.237 E	13			1.3		24	NORTHERN ITALY. ML 3.2 (LDG), 2.7 (KBA).
04	01 25 54.3?	39.58 N	22.93 E	10 G			0.4		9	GREECE
04	03 22 46.1&	37.470 N	118.600 W	6 G	3.7				37	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 4.7 (PAS), 4.6 (BRK). Felt (IV) in parts of Mono, Fresno, Mariposa and Tulare Counties, California. Also felt in Inyo County, California.
04	03 28 44.8&	37.470 N	118.640 W	6 G					20	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.4 (PAS), 3.5 (BRK).
04	03 58 43.1?	39.06 N	22.84 E	10 G			0.5		11	GREECE
04	04 08 25.1?	11.86 N	88.42 W	33 N	4.3	3.8	1.4		12	OFF COAST OF CENTRAL AMERICA
04	04 18 31.2	56.439 N	151.997 W	33 N	4.5		1.3		13	KODIAK ISLAND REGION. ML 4.4 (TTG), 4.2 (ATH).
04	04 27 47.7*	4.934 S	140.254 E	33 N	3.9		1.2		7	WEST IRIAN
04	04 54 34.4&	37.460 N	118.640 W	6 G					14	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.3 (PAS).
04	05 25 49.1*	3.947 S	153.667 E	210 *	4.3		0.6		8	NEW IRELAND REGION
04	06 20 38.4*	33.205 S	71.600 W	10 G			1.0		15	NEAR COAST OF CENTRAL CHILE
04	07 07 12.6&	36.280 N	90.760 W	6					7	NEW MADRID, MISSOURI REGION. <SLM>. mLg 3.1 (SLM). Felt (IV) at Biggers, Arkansas.
04	07 39 35.2*	39.349 N	23.209 E	10 G			1.5		7	AEGEAN SEA. ML 3.1 (ATH).
04	07 53 55.3*	40.846 N	29.221 E	10 G			0.6		5	TURKEY
04	08 27 16.5	49.880 N	18.439 E	10 G			0.5		7	CZECHOSLOVAKIA. ML 2.9 (KBA), 2.6 (KRA).
04	08 59 22.7&	37.460 N	118.640 W	6 G					14	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.4 (PAS).
04	10 00 28.8%	39.481 N	29.531 E	10 G			0.8		5	TURKEY
04	10 14 24.8	3.317 N	96.322 E	84 *	4.6		1.0		33	NORTHERN SUMATERA
04	10 46 41.0?	39.37 N	29.57 E	10 G			1.0		6	TURKEY
04	12 29 58.1*	36.963 N	27.800 E	10 G	3.9		1.5		18	DODECANESE ISLANDS
04	12 47 09.9*	16.668 N	113.529 W	10 G	4.7	4.5	1.5		67	OFF COAST OF MEXICO
04	13 18 04.5%	39.093 N	27.607 E	10 G			0.1		5	TURKEY
04	13 18 09.0?	34.31 S	72.08 W	10 G			0.5		9	NEAR COAST OF CENTRAL CHILE
04	13 19 38.0%	39.491 N	27.919 E	10 G			0.9		8	TURKEY
04	13 34 04.0%	40.805 N	27.348 E	10 G			0.2		5	TURKEY
04	16 51 26.7?	33.51 S	72.61 W	33 N			0.9		8	OFF COAST OF CENTRAL CHILE
04	18 30 09.5	40.779 N	20.554 E	10 G			0.7		7	GREECE-ALBANIA BORDER REGION

04	18 51 43.6?	35.39 N	141.77 E	24 *	0.8	8	NEAR EAST COAST OF HONSHU, JAPAN
04	19 53 53.3?	7.99 S	128.92 E	138 ?	1.4	7	BANDA SEA
04	20 10 02.3*	57.596 S	24.711 W	33 N 5.0	0.9	16	SOUTH SANDWICH ISLANDS REGION
04	20 57 15.8?	21.55 S	68.53 W	155 ?	0.3	5	CHILE-BOLIVIA BORDER REGION
04	22 19 33.7	8.657 S	115.134 E	128 *	4.8	1.1	25 BALI ISLAND REGION
05	02 08 32.9%	45.974 N	2.966 E	10 G	0.4	7	FRANCE. ML 2.3 (LDG).
05	03 18 26.9*	17.005 S	173.522 W	33 N 4.8	1.2	37	TONGA ISLANDS
05	03 54 11.1*	5.183 N	125.351 E	202 ? 4.4	1.3	14	MINDANAO, PHILIPPINE ISLANDS
05	06 37 38.8?	39.55 N	22.94 E	10 G	0.6	5	GREECE
05	06 52 33.9%	37.470 N	118.620 W	6 G	1.1	16	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.4 (PAS).
05	08 01 26.1*	12.953 S	165.492 E	92 *	5.1	1.1	11 SANTA CRUZ ISLANDS
05	10 53 14.8?	4.72 S	142.12 E	93 ? 4.2	0.9	9	PAPUA NEW GUINEA
05	11 22 20.3?	19.55 S	178.23 W	545 ? 4.2	0.8	16	FIJI ISLANDS REGION
05	16 24 24.6*	51.670 N	7.882 E	10 G	0.4	8	GERMANY. mbLg 2.9 (DOU). ML 2.8 (BNS).
05	16 50 23.7	25.947 S	116.855 E	33 N	1.0	9	WESTERN AUSTRALIA
05	16 57 23.1?	39.11 N	21.95 E	10 G	0.8	11	GREECE. ML 3.1 (ATH).
05	17 55 32.2	46.372 N	12.701 E	10 G	1.0	15	NORTHERN ITALY. ML 2.9 (TRI), 2.7 (KBA).
05	18 03 54.3	39.292 N	72.962 E	33 N 4.9 3.9	0.8	128	KIRGHIZ SSR. Felt (III) at Fergana.
05	19 34 59.3	30.771 N	70.289 E	33 5.3 4.1	0.9	157	PAKISTAN
05	19 44 01.3	38.948 N	22.077 E	27	0.7	25	GREECE. ML 3.3 (ATH).
05	21 11 30.9	39.071 N	21.959 E	27 3.6	0.9	26	GREECE. ML 3.4 (ATH).
06	00 16 54.7?	39.42 N	28.99 E	10 G	0.9	5	TURKEY
06	01 06 10.7*	66.243 N	149.921 W	10 G	0.9	6	ALASKA. ML 3.5 (PMR).
06	01 08 05.2%	37.927 N	122.318 W	2 G	0.8	8	CENTRAL CALIFORNIA. <BRK>. ML 2.1 (BRK). Mo=7.4*10**19 (BRK). Felt at El Cerrito.
06	03 13 20.1*	16.747 N	98.030 W	63 *	4.8	1.2	44 NEAR COAST OF GUERRERO, MEXICO
a 06	03 04 22.7	30.885 N	70.269 E	37 5.6 5.5	0.9	254	PAKISTAN. Felt at Peshawar, Mianwali, Lahore and Multan.
06	03 13 42.1%	36.528 N	121.177 W	5 G	0.8	9	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).
06	03 27 00.6	30.788 N	70.337 E	34 *	5.1	0.8	91 PAKISTAN
06	04 53 20.9	48.909 N	156.137 E	42 D 5.0 4.3	1.0	51	KURIL ISLANDS REGION
06	06 07 44.9%	59.766 N	150.562 W	36	0.8	41	KENAI PENINSULA, ALASKA. <AGS-P>.
06	06 27 32.8*	37.594 N	71.462 E	33 N 4.1	0.8	8	AFGHANISTAN-USSR BORDER REGION
a 06	07 33 58.4	36.407 S	98.868 W	10 G 5.2 5.1	1.2	71	SOUTHERN PACIFIC OCEAN
06	10 35 46.7*	17.164 N	62.268 W	30	0.8	12	LEEWARD ISLANDS
06	11 21 49.4*	33.134 S	71.839 W	10 G	1.1	13	NEAR COAST OF CENTRAL CHILE
06	11 53 50.5?	32.80 S	72.73 W	33 N	0.4	10	OFF COAST OF CENTRAL CHILE
06	12 06 55.9	17.304 N	145.507 E	421 4.6	0.8	44	MARIANA ISLANDS
06	13 53 06.4	43.743 N	127.095 W	10 G 5.0 4.5	1.0	25	OFF COAST OF OREGON
06	16 21 31.2?	11.93 S	122.28 E	33 N 4.3	1.1	10	SOUTH OF TIMOR
06	16 41 49.0?	34.06 N	25.55 E	33 N 4.7	1.4	9	CRETE
a 06	17 10 02.9	37.498 S	179.452 E	30 5.8 6.1	1.0	269	OFF E. COAST OF N. ISLAND, N.Z. Ms 6.2 (BRK). Felt at Gisborne and Wellington.
06	18 20 21.8	39.233 N	22.942 E	10 G	0.8	13	GREECE. ML 3.0 (ATH).
06	18 38 22.8	42.288 N	19.454 E	10 3.2	1.2	26	YUGOSLAVIA. ML 4.2 (TRI), 3.7 (TTG), 3.6 (ULC). Felt (IV) at Titograd.
06	19 26 51.8*	31.246 S	67.839 W	10 G	1.5	15	SAN JUAN PROVINCE, ARGENTINA
06	19 42 10.6?	33.34 S	72.62 W	33 N	0.4	8	OFF COAST OF CENTRAL CHILE
06	20 08 16.8*	7.395 N	80.913 W	10 G 4.9	1.2	18	PANAMA
06	20 59 46.3	28.328 N	82.305 E	47 * 4.5	1.4	23	NEPAL
06	21 01 58.5?	66.24 N	150.05 W	10 G	1.3	6	ALASKA. ML 3.6 (PMR).
06	22 23 59.4*	20.730 N	144.932 E	158 ? 4.5	0.9	14	MARIANA ISLANDS
06	23 14 33.0%	35.300 N	119.350 W	24	0.9	39	CENTRAL CALIFORNIA. <PAS-P>. ML 4.4 (PAS), 4.1 (BRK). Felt (V) at Bakersfield, (IV) at Tupman and McKittrick. Felt (III) at Maricopa, Waffard Heights, Lebec, Fellows, Summerland, New Cuyama and Buttonwillow.
06	23 22 30.3*	7.159 S	155.743 E	33 N 4.3	1.3	10	SOLOMON ISLANDS
06	23 34 19.6?	44.47 N	114.28 W	5 G	0.3	4	WESTERN IDAHO. ML 3.1 (BUT).
07	00 58 46.8	45.311 N	26.616 E	33 N	0.8	5	ROMANIA
07	01 43 10.0	40.866 N	21.490 E	10 G	0.4	7	GREECE
07	03 37 54.8	25.867 N	128.426 E	25 D 5.0 4.5	1.0	56	RYUKYU ISLANDS. Felt at Naha.
07	04 03 07.1*	25.891 N	128.472 E	33 N 4.6	0.6	7	RYUKYU ISLANDS
07	04 05 09.6	25.816 N	128.383 E	33 N 4.5	0.9	19	RYUKYU ISLANDS
07	05 10 09.0*	36.427 N	139.049 E	33 N	1.5	5	HONSHU, JAPAN
07	05 56 10.4	43.942 N	16.611 E	10 G	0.8	10	YUGOSLAVIA. ML 3.1 (BRY), 3.1 (TTG).
07	06 14 34.4*	16.488 S	173.899 W	76 D 4.8	1.0	41	TONGA ISLANDS
07	06 27 01.1	6.103 S	149.627 E	61 5.2	1.0	59	NEW BRITAIN REGION
07	08 00 29.0*	15.551 N	94.630 W	50 * 4.5	1.0	36	NEAR COAST OF OAXACA, MEXICO
07	08 38 31.1%	60.234 N	153.068 W	120	0.6	40	SOUTHERN ALASKA. <AGS-P>.
07	09 17 01.0	6.628 N	72.840 W	185 4.2	0.9	30	NORTHERN COLOMBIA
07	09 19 19.6%	39.399 N	29.071 E	10 G	0.9	7	TURKEY
07	10 04 45.7?	19.10 S	119.04 E	33 N	1.1	9	WESTERN AUSTRALIA
07	11 14 12.1	32.797 S	71.834 W	46 * 4.8 4.7	1.0	53	NEAR COAST OF CENTRAL CHILE
07	11 52 9*	50.060 N	12.330 E	10 G	0.8	8	GERMANY. ML 3.5 (KBA), 3.2 (FUR).
07	11 17 04.2*	9.303 S	118.692 E	101 ? 4.8	1.3	10	SUMBAWA ISLAND REGION
07	14 03 59.1	0.096 N	97.857 E	33 N 4.6	1.2	30	NORTHERN SUMATERA
07	16 57 46.9?	15.94 S	121.26 E	33 N	1.1	5	NORTHWEST OF AUSTRALIA
07	18 30 30.2*	4.702 N	73.705 W	33 N	0.8	10	COLOMBIA
07	19 09 01.3%	45.948 N	2.781 E	13	0.3	9	FRANCE. ML 2.5 (LDG).
07	19 09 34.8%	37.470 N	118.640 W	6 G	0.9	9	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.2 (PAS).
07	19 23 42.3	22.077 S	68.313 W	86 * 4.6	0.9	21	NORTHERN CHILE
07	20 06 10.9%	36.590 N	116.150 W	6 G	1.3	7	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.5 (PAS).
07	23 36 41.9*	37.477 N	70.201 E	33 N 4.1	1.1	11	AFGHANISTAN-USSR BORDER REGION. Felt (III) at Kulyab, Obigarm and Dushanbe, USSR.
07	23 59 14.4	3.629 N	126.710 E	77 * 5.2	1.1	60	TALAUD ISLANDS
08	00 29 32.9	43.572 N	10.945 E	10 G	0.6	6	CENTRAL ITALY
08	01 13 56.1	17.699 S	69.911 W	127 4.6	1.1	25	PERU-BOLIVIA BORDER REGION. Felt (III) at Arica, Chile.
08	01 58 00.2*	32.817 S	71.695 W	33 N	1.2	12	NEAR COAST OF CENTRAL CHILE
08	02 01 57.2*	33.312 S	71.686 W	10 G	1.2	15	NEAR COAST OF CENTRAL CHILE
08	03 46 37.7	41.907 N	18.749 E	10 G	1.2	18	ADRIATIC SEA. ML 3.4 (TTG), 3.3 (PLE).
08	04 01 47.4*	66.275 N	150.069 W	10 G	1.0	7	ALASKA. ML 3.5 (PMR).
a 08	08 12 52.0	57.659 S	25.135 W	33 N 5.3 4.6	1.0	68	SOUTH SANDWICH ISLANDS REGION
08	09 20 58.6%	31.960 N	115.870 W	6 G	0.4	4	BAJA CALIFORNIA. <PAS-P>. ML 3.3 (PAS).

08	09	44	50.2%	31.785 S	67.831 W	10 G	0.4	5	SAN JUAN PROVINCE, ARGENTINA
08	11	18	59.1*	31.336 S	67.715 W	10 G	0.9	8	SAN JUAN PROVINCE, ARGENTINA
08	11	35	41.4	29.282 S	25.039 E	5 G 4.8	0.9	20	REPUBLIC OF SOUTH AFRICA. Felt at Bloemfontein, Philippolis, Foursmith and Britstown.
08	11	58	56.6?	47.37 N	152.51 E	60 G 4.7	0.5	7	KURIL ISLANDS
08	13	10	47.4&	60.012 N	152.400 W	79		45	SOUTHERN ALASKA. <AGS-P>.
o 08	13	30	33.2*	62.844 S	155.692 E	10 G 4.9 5.0	1.2	25	BALLENY ISLANDS REGION
08	13	35	53.5?	15.70 N	94.75 W	165 * 4.0	1.2	10	NEAR COAST OF OAXACA, MEXICO
08	14	00	32.3&	61.724 N	151.373 W	74		36	SOUTHERN ALASKA. <AGS-P>.
08	14	52	53.7?	51.19 N	19.73 E	10 G	1.4	5	POLAND. ML 2.6 (KRA).
o 08	17	10	41.2	30.910 N	70.310 E	33 N 5.4 4.9	0.9	173	PAKISTAN
08	17	25	54.6*	8.702 S	118.513 E	116 * 4.6	0.6	15	SUMBABA ISLAND REGION
08	20	05	01.6*	32.809 S	177.548 W	33 N 4.9	1.4	28	SOUTH OF KERMADEC ISLANDS
08	20	27	58.8	21.823 S	139.048 W	0 G 5.7	0.7	153	TUAMOTU ARCHIPELAGO REGION
08	21	03	14.7	42.520 N	13.287 E	25 *	1.2	21	CENTRAL ITALY. ML 3.2 (KBA).
08	22	11	24.5	21.820 S	68.852 W	143 * 4.3	0.8	9	CHILE-BOLIVIA BORDER REGION
08	22	55	45.1?	18.39 S	178.08 W	649 * 4.2	0.5	8	FIJI ISLANDS REGION
08	23	14	01.6*	53.935 N	165.002 W	42 * 4.6	1.4	31	FOX ISLANDS, ALEUTIAN ISLANDS. ML 5.1 (PMR).
08	23	40	18.2&	31.740 N	115.810 W	6 G 5.1	69	69	BAJA CALIFORNIA. <PAS-P>. ML 5.0 (PAS). Felt (IV) at Romana, California. Felt (III) at Calexico, Chula Vista, El Centro, Lakeside and National City, California.
08	23	49	48.7&	31.750 N	115.820 W	6 G		5	BAJA CALIFORNIA. <PAS-P>. ML 4.3 (PAS).
08	23	51	44.7&	31.970 N	115.980 W	6 G		2	BAJA CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
08	23	54	07.5?	33.40 S	72.11 W	10 G	0.3	9	OFF COAST OF CENTRAL CHILE
09	00	00	33.5&	31.940 N	115.900 W	6 G		4	BAJA CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
09	00	24	13.6&	31.910 N	115.840 W	6 G		5	BAJA CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
09	00	38	30.3*	38.325 N	21.728 E	10 G	0.9	6	GREECE. ML 3.2 (ATH).
09	00	42	25.0*	63.292 N	152.738 W	33 N	1.6	7	CENTRAL ALASKA. ML 3.1 (PMR).
09	01	24	05.7*	6.617 S	148.605 E	33 N 4.7	1.3	7	NEW BRITAIN REGION
09	01	31	37.8&	31.950 N	115.890 W	6 G		5	BAJA CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
09	01	54	03.1	36.107 N	139.791 E	33 N	0.5	6	HONSHU, JAPAN
09	01	59	09.6&	31.870 N	115.870 W	6 G		4	BAJA CALIFORNIA. <PAS-P>. ML 3.8 (PAS).
09	02	37	17.9*	49.044 N	6.733 E	10 G	1.0	6	GERMANY. mblg 3.0 (DOU).
09	03	23	38.3&	31.930 N	115.820 W	6 G		6	BAJA CALIFORNIA. <PAS-P>. ML 4.1 (PAS).
09	03	39	15.3&	61.864 N	150.812 W	65		36	SOUTHERN ALASKA. <AGS-P>.
09	04	09	16.9&	62.280 N	141.334 W	2 4.3	53	53	CENTRAL ALASKA. <AGS-P>. ML 3.8 (PMR). Felt (IV) at Beaver Creek and Koidern, Yukon Territory, Canada.
09	04	49	15.4&	31.870 N	115.870 W	6 G		1	BAJA CALIFORNIA. <PAS-P>. ML 3.7 (PAS).
o 09	05	43	25.0	1.337 S	67.677 E	10 G 5.2 5.3	1.1	85	CARLSBERG RIDGE
09	06	35	50.0?	34.02 S	72.14 W	33 N	0.3	9	NEAR COAST OF CENTRAL CHILE
09	07	01	43.3?	34.05 S	72.51 W	33 N	0.3	9	NEAR COAST OF CENTRAL CHILE
09	07	14	05.7?	39.78 N	22.68 E	10 G	0.7	6	GREECE
09	08	22	46.2%	39.910 N	30.024 E	10 G	1.5	5	TURKEY
09	08	24	22.1?	59.40 N	6.57 E	10 G	0.5	5	SOUTHERN NORWAY. DUR 2.7 (BER).
09	09	32	34.1	46.871 N	151.048 E	163 ? 4.8	0.9	58	KURIL ISLANDS
09	09	42	30.4*	66.177 N	149.904 W	10 G	0.7	7	ALASKA
09	09	52	39.3%	37.954 N	29.403 E	10 G	1.1	7	TURKEY
09	10	36	03.3	11.921 N	142.058 E	33 N 4.0	0.7	13	SOUTH OF MARIANA ISLANDS
09	10	44	22.1&	31.720 N	116.970 W	6 G		4	BAJA CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
09	11	13	43.7	10.386 S	120.281 E	33 N 5.1 4.0	1.3	35	SUMBA ISLAND REGION
09	11	34	02.4?	33.85 S	72.15 W	10 G	0.4	9	OFF COAST OF CENTRAL CHILE
09	11	35	38.4&	37.927 N	122.308 W	5 G		4	CENTRAL CALIFORNIA. <BRK>. ML 1.7 (BRK). Mo=1.0*10**19 (BRK). Felt at El Cerrito.
09	11	41	23.0%	39.576 N	29.437 E	10 G	0.6	5	TURKEY
09	11	52	51.2	25.457 S	177.436 W	163 D 4.9	1.0	51	SOUTH OF FIJI ISLANDS
09	13	38	48.4?	39.69 N	26.02 E	10 G	0.7	6	TURKEY
09	14	00	36.4%	40.769 N	29.369 E	10 G	0.2	5	TURKEY
09	14	56	15.6*	30.752 S	178.633 W	33 N 5.1	1.2	14	KERMADEC ISLANDS
09	15	10	03.1*	23.030 N	121.249 E	33 N	0.9	6	TAIWAN
09	15	29	37.6?	44.05 N	114.38 W	5 G	1.2	6	WESTERN IDAHO. ML 3.0 (NEIS).
09	15	35	02.4%	40.112 N	29.311 E	10 G	0.6	9	TURKEY
09	16	10	16.1*	28.403 S	24.836 E	5 G	1.2	8	REPUBLIC OF SOUTH AFRICA. Felt in the Jacobsdal-Jagersfontein-Philippolis area.
o 09	18	22	48.4	2.356 N	126.777 E	33 N 5.5 5.7	1.1	130	MOLUCCA PASSAGE
09	18	50	22.9*	39.299 N	48.771 E	33 N 4.5	1.1	6	N.W. IRAN-USSR BORDER REGION. Some damage in the Masally-Lenkaran area.
o 09	19	05	21.5	51.465 N	177.913 E	33 N 5.7 6.0	1.1	370	RAT ISLANDS, ALEUTIAN ISLANDS. Ms 6.2 (BRK), 5.7 (PAS). Felt (IV) on Adak.
09	19	14	07.7	51.302 N	178.024 E	33 N 5.4 6.0	1.0	224	RAT ISLANDS, ALEUTIAN ISLANDS. Ms 5.9 (BRK). Felt (III) on Adak.
09	19	26	44.8	2.220 N	126.787 E	33 N 5.2	1.2	33	MOLUCCA PASSAGE
09	19	27	57.0	51.298 N	177.977 E	33 N 4.8	1.1	34	RAT ISLANDS, ALEUTIAN ISLANDS
09	19	49	14.1*	51.184 N	178.009 E	33 N 4.6	1.0	15	RAT ISLANDS, ALEUTIAN ISLANDS
09	21	55	48.7	33.834 S	70.556 W	10 G	0.9	13	CHILE-ARGENTINA BORDER REGION
09	22	30	31.5?	12.14 S	118.21 E	33 N 4.2	1.1	8	SOUTH OF SUMBAWA ISLAND
09	22	57	14.0*	14.036 N	91.802 W	53 * 4.9 3.7	1.2	53	GUATEMALA
09	23	13	50.6*	33.572 S	71.973 W	10 G	0.8	12	NEAR COAST OF CENTRAL CHILE
10	00	24	06.6	40.850 N	15.077 E	22 *	1.4	17	SOUTHERN ITALY. ML 2.1 (VOY).
10	01	56	23.2*	30.875 N	70.450 E	33 N 4.4	0.9	11	PAKISTAN
10	02	17	21.8*	23.809 N	121.495 E	10 G	1.4	7	TAIWAN
10	02	41	20.5*	33.080 S	71.992 W	10 G	0.5	12	NEAR COAST OF CENTRAL CHILE
10	03	19	39.5?	11.79 N	89.49 W	33 N 4.2	1.0	17	OFF COAST OF CENTRAL AMERICA. Felt (II) at San Salvador, El Salvador.
10	03	51	38.1*	47.653 N	152.423 E	51 D 4.6	0.9	10	KURIL ISLANDS
10	03	57	44.5*	55.580 S	28.309 W	33 N 4.4	0.9	10	SOUTH SANDWICH ISLANDS REGION
10	03	58	55.5?	24.14 N	119.94 E	33 N	1.2	8	TAIWAN REGION
10	04	01	17.5	35.526 N	27.279 E	43 4.4	1.2	98	DODECANESE ISLANDS. ML 4.3 (ATH), 4.0 (CSS).
10	04	28	37.9	43.342 N	142.200 E	184 4.8	0.9	109	HOKKAIDO, JAPAN REGION. Felt (I JMA) at Kushiro.
10	04	30	08.9	7.222 S	129.128 E	112 5.2	1.0	112	BANDA SEA
10	05	39	36.3&	31.710 N	115.770 W	6 G 4.6		29	BAJA CALIFORNIA. <PAS-P>. ML 4.8 (PAS).
10	05	41	23.4&	32.020 N	115.850 W	6 G		1	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.6 (PAS).
10	06	31	10.5?	17.04 N	60.60 W	10 G	1.3	8	LEEWARD ISLANDS

10	07 01 47.8*	33.703 N	141.249 E	47 ?	4.5	1.4	18	OFF EAST COAST OF HONSHU, JAPAN
10	07 41 23.6	5.673 S	151.176 E	33 N	4.1	0.8	8	NEW BRITAIN REGION
10	08 11 10.3?	16.45 N	94.59 W	33 N	4.4	0.9	14	OAXACA, MEXICO
10	08 59 14.8*	31.930 N	115.850 W	6 G			4	BAJA CALIFORNIA. <PAS-P>. ML 3.7 (PAS).
10	09 20 00.9*	39.113 N	27.637 E	10 G		0.6	5	TURKEY
10	10 51 04.7*	31.949 S	67.345 W	145 ?		0.6	8	SAN JUAN PROVINCE, ARGENTINA
10	11 09 39.9?	12.19 N	90.04 W	125 *	4.1	1.3	20	OFF COAST OF CENTRAL AMERICA. Felt (II) at San Salvador, El Salvador.
10	11 52 02.9?	39.58 N	28.81 E	10 G		1.4	5	TURKEY
10	13 58 26.9*	39.111 N	27.604 E	10 G		0.4	5	TURKEY
10	14 45 41.3	43.488 N	0.696 W	10 G		0.4	12	PYRENEES. ML 3.2 (LDG).
10	14 45 51.7?	31.13 S	69.31 W	120 ?		0.3	6	SAN JUAN PROVINCE, ARGENTINA
10	15 25 34.7*	40.345 N	29.064 E	10 G		1.0	5	TURKEY
f 10	15 35 50.5	5.599 S	151.045 E	27	6.3 7.1	1.3	269	NEW BRITAIN REGION. Ms 7.3 (BRK). One person was killed. Damage (VIII) in the Biaila-Hoskins area. Extensive landslides, debris flows and fallen trees in the Nakana Mountains. Ground cracks and subsidence occurred. A temporary hot springs was observed near Malosi. Felt (V) at Rabaul. Felt strongly in many parts of Papua New Guinea.
10	15 48 00.4*	34.420 N	120.830 W	6			21	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.8 (PAS), 3.9 (BRK). Felt (IV) at Vandenberg Air Force Base. Felt (III) at Santa Maria, Santa Barbara and Ventura. Also felt (II) at Malcom.
10	15 59 00.2	5.602 S	151.022 E	37 *	5.1	1.1	37	NEW BRITAIN REGION
10	16 06 16.6	5.661 S	150.881 E	33 N	5.0	1.3	28	NEW BRITAIN REGION
10	16 36 29.3	5.634 S	151.302 E	33 N	4.7	0.8	10	NEW BRITAIN REGION
10	16 51 56.0?	5.91 S	152.13 E	33 N	4.1	1.0	7	NEW BRITAIN REGION
10	16 55 07.5	43.062 N	1.429 W	10 G		0.5	12	PYRENEES. ML 3.0 (LDG).
10	17 33 32.1?	5.90 S	151.79 E	33 N	4.0	0.8	6	NEW BRITAIN REGION
10	18 14 58.4	5.689 S	150.802 E	33 N	5.6 5.8	1.2	110	NEW BRITAIN REGION
10	18 22 39.9	5.672 S	150.875 E	39 *	4.8	1.2	22	NEW BRITAIN REGION
10	18 33 22.9*	5.688 S	151.158 E	33 N	4.7	1.0	9	NEW BRITAIN REGION
10	18 38 07.5	5.565 S	151.056 E	52	4.9	1.0	36	NEW BRITAIN REGION
10	19 14 08.6?	6.34 S	152.43 E	33 N	4.1	0.2	5	NEW BRITAIN REGION
10	19 18 29.3*	40.798 N	29.140 E	10 G		0.4	5	TURKEY
10	19 31 19.1	43.302 N	20.985 E	10 G		1.3	12	YUGOSLAVIA. ML 2.9 (IVA), 2.8 (TTG). Felt (V) in eastern Yugoslavia.
10	20 06 49.2?	33.51 S	71.84 W	33 N		0.7	11	NEAR COAST OF CENTRAL CHILE
10	20 30 14.3	5.842 S	151.125 E	33 N	3.9	1.0	9	NEW BRITAIN REGION
10	20 31 02.1?	33.99 S	72.34 W	10 G		0.4	10	OFF COAST OF CENTRAL CHILE
10	20 34 44.2?	34.22 S	72.79 W	10 G		0.4	10	NEAR COAST OF CENTRAL CHILE
10	20 56 13.2	5.546 S	150.930 E	43	5.0	1.1	46	NEW BRITAIN REGION
10	21 07 20.5	40.230 N	23.269 E	10 G		0.3	10	GREECE
10	21 07 33.0*	5.572 S	150.922 E	33 N	3.9	1.1	8	NEW BRITAIN REGION
10	21 23 35.6*	51.224 N	15.707 E	10 G		1.1	16	POLAND
10	22 00 58.4?	44.60 N	114.12 W	5 G		0.7	6	WESTERN IDAHO. ML 3.1 (BUT).
10	22 11 29.5?	29.40 N	69.77 E	87 ?	4.2	1.4	8	PAKISTAN
10	22 24 18.4*	5.596 S	151.311 E	33 N	4.1	1.5	7	NEW BRITAIN REGION
10	23 11 55.6*	6.044 S	151.830 E	33 N	4.0	0.5	6	NEW BRITAIN REGION
10	23 34 09.3?	5.98 S	151.45 E	33 N	3.9	1.3	5	NEW BRITAIN REGION
10	23 36 01.8*	23.696 N	121.450 E	10 G		0.5	6	TAIWAN
10	23 45 29.5	43.313 N	20.926 E	19	5.2 4.6	1.1	198	YUGOSLAVIA. ML 5.0 (TTG), 5.0 (LJU). Damage (VIII) in the Kapoanik Mountains region. Felt at Belgrade and in many parts of southeastern Yugoslavia.
11	00 30 33.8?	45.92 N	26.11 E	217 ?		1.0	10	ROMANIA
11	01 03 05.5?	31.39 S	68.64 W	113 ?		0.1	6	SAN JUAN PROVINCE, ARGENTINA
11	01 03 18.9*	37.460 N	118.610 W	6 G			9	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.3 (PAS).
11	01 19 40.3?	6.01 S	151.79 E	33 N	3.6	0.9	6	NEW BRITAIN REGION
11	01 24 16.6*	5.811 S	151.188 E	57 ?	3.8	0.8	8	NEW BRITAIN REGION
11	01 27 27.8	6.870 S	117.065 E	33 N	5.1 4.6	1.4	49	BALI SEA
11	01 32 11.7	5.529 S	150.907 E	33 N	5.1	1.3	20	NEW BRITAIN REGION
11	01 44 39.0?	6.26 S	150.92 E	77 ?	3.9	0.6	6	NEW BRITAIN REGION
11	02 13 04.0*	45.227 N	3.048 E	10 G		1.2	9	FRANCE. ML 2.2 (LDG).
11	02 22 42.7*	31.880 N	115.850 W	6 G			5	BAJA CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
11	04 02 46.0	5.290 S	150.893 E	33 N	4.1	0.7	7	NEW BRITAIN REGION
11	04 26 16.6*	33.114 S	72.130 W	10 G		0.2	10	OFF COAST OF CENTRAL CHILE
11	05 44 54.5*	9.551 N	62.455 W	33 N	4.2	0.7	10	NEAR COAST OF VENEZUELA
11	07 09 40.4	31.738 S	67.792 W	10 G		0.3	6	SAN JUAN PROVINCE, ARGENTINA
11	07 29 59.2	39.153 N	20.752 E	13	4.3	1.2	48	GREECE-ALBANIA BORDER REGION. ML 4.1 (ATH). Felt in the Preveza-Arta area.
11	07 49 08.5*	5.931 S	151.753 E	33 N	3.7	0.4	6	NEW BRITAIN REGION
11	07 57 20.8*	6.140 S	151.483 E	33 *	4.2	1.3	13	NEW BRITAIN REGION
11	08 46 55.9*	12.961 N	89.522 W	67 *	4.5	1.3	11	OFF COAST OF CENTRAL AMERICA. Felt (III) at San Salvador, El Salvador.
11	08 57 15.0	36.622 N	117.124 W	5 G		0.7	17	CALIFORNIA-NEVADA BORDER REGION. ML 3.1 (PAS).
11	08 59 23.8*	36.158 N	120.280 W	5 G	3.9		34	CENTRAL CALIFORNIA. <BRK>. ML 4.0 (BRK), 4.4 (PAS). MO=2.8*10**22 (BRK). Felt (IV) at Avenal and Huron. Also felt in the Coalingo area.
11	09 20 04.7*	6.182 S	151.403 E	40 *	4.2	1.3	11	NEW BRITAIN REGION
11	10 02 21.2*	41.019 N	28.569 E	10 G		0.8	6	TURKEY
11	10 04 59.5?	39.36 N	22.89 E	10 G		0.7	12	GREECE
11	10 10 49.1	5.808 S	151.312 E	33 N	4.1	0.8	9	NEW BRITAIN REGION
11	10 16 41.5	5.547 S	152.755 E	32	4.9 4.8	1.3	45	NEW BRITAIN REGION
11	10 40 39.6	37.092 N	141.426 E	56	5.5	0.8	245	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Onahama, Mito and Utsunomiya, (II JMA) at Fukushima, Sendai and Tokyo, (I JMA) at Choshi, Kumagaya and Tateyama. Felt at Ofunato.
11	10 49 20.8*	40.845 N	20.516 E	10 G		0.7	6	GREECE-ALBANIA BORDER REGION
11	10 58 11.9	5.579 S	151.287 E	46 *	4.6	1.2	31	NEW BRITAIN REGION
11	11 21 41.8*	25.615 S	175.179 W	33 N	4.7	0.8	14	SOUTH OF TONGA ISLANDS
11	11 25 01.5	5.764 S	151.444 E	34	4.9	1.0	28	NEW BRITAIN REGION
11	11 57 41.9	33.976 N	137.021 E	343	4.6	0.8	81	NEAR S. COAST OF HONSHU, JAPAN



11	12 12 49.2&	62.478 N	151.246 W	87					31	CENTRAL ALASKA. <AGS-P>.
a 11	12 45 00.3*	2.047 N	101.121 W	10 G	4.7 4.7	0.9			34	EAST CENTRAL PACIFIC OCEAN
11	13 17 32.9	39.320 N	22.858 E	10 G		0.9			20	GREECE. ML 3.2 (ATH).
11	14 02 57.0	5.597 S	151.101 E	44 *	4.5	0.9			29	NEW BRITAIN REGION
11	16 11 35.5&	40.397 N	124.418 W	5 G					6	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.3 (BRK).
11	16 29 29.8*	36.254 N	70.639 E	33 N	4.3	1.3			9	HINDU KUSH REGION
11	18 01 18.4	5.705 S	151.246 E	33 N	4.4	1.2			14	NEW BRITAIN REGION
11	18 46 24.2*	0.118 N	123.723 E	185 *	4.3	0.9			13	MINAHASSA PENINSULA
11	20 18 38.9	42.216 N	143.083 E	68	5.2	1.0			153	HOKKAIDO, JAPAN REGION. Felt (III JMA) at Urukawa and Obihiro, (II JMA) at Sapporo and Kushiro, (I JMA) at Nemuro. Felt also at Hachinohe, Hanshu.
11	20 41 47.3*	40.287 N	74.196 E	33 N	4.2	1.5			11	KIRGHIZ-XINJIANG BORDER REGION
11	20 53 13.1	6.781 N	72.999 W	170	4.2	1.0			22	NORTHERN COLOMBIA
11	21 29 54.5&	59.928 N	151.072 W	64					40	KENAI PENINSULA, ALASKA. <AGS-P>.
11	22 40 19.3%	39.441 N	26.211 E	10 G		0.8			8	TURKEY
11	23 13 27.4*	50.308 N	19.323 E	10 G		1.4			6	POLAND. ML 2.9 (KRA).
11	23 29 02.27	1.44 N	101.60 W	10 G	4.4	1.1			17	EAST CENTRAL PACIFIC OCEAN
12	00 43 12.2*	38.610 N	20.214 E	23	3.5	1.2			17	GREECE. ML 4.0 (ATH).
12	01 03 54.0%	39.414 N	26.363 E	10 G		0.5			7	TURKEY
12	02 02 14.3*	43.412 N	13.226 E	10 G		0.6			5	CENTRAL ITALY
12	03 22 12.1*	6.111 S	151.737 E	33 N	3.9	1.5			6	NEW BRITAIN REGION
12	04 10 39.87	33.32 S	72.11 W	10 G		0.4			9	OFF COAST OF CENTRAL CHILE
12	04 29 51.7*	9.987 S	113.744 E	33 N	4.7	1.4			10	SOUTH OF JAVA
12	04 47 58.3	5.639 S	151.311 E	33 N	4.2	1.4			11	NEW BRITAIN REGION
12	04 57 17.9	15.459 S	70.275 W	225	4.5	0.9			24	SOUTHERN PERU
12	05 23 03.37	4.66 N	73.69 W	33 N		1.0			7	COLOMBIA
12	07 13 26.4	52.152 N	159.076 E	67 D	4.8	0.9			57	OFF EAST COAST OF KAMCHATKA. Felt (III) at Petropavlovsk-Kamchatskiy.
12	07 31 19.6	33.631 S	72.051 W	33 N	4.7	1.1			31	OFF COAST OF CENTRAL CHILE
12	07 32 36.2*	50.616 N	129.791 W	10 G	4.0	1.2			12	VANCOUVER ISLAND REGION
12	08 47 40.57	33.07 S	72.18 W	10 G		0.5			9	OFF COAST OF CENTRAL CHILE
12	09 44 36.7	39.383 N	22.814 E	13	3.9	0.8			19	GREECE. ML 3.4 (ATH).
12	10 32 04.9%	41.077 N	27.762 E	10 G		0.7			5	TURKEY
12	10 34 50.6	39.257 N	22.854 E	10 G	3.4	1.1			19	GREECE. ML 3.3 (ATH).
12	11 27 33.67	33.67 S	72.14 W	10 G		0.3			9	OFF COAST OF CENTRAL CHILE
12	13 09 48.0%	39.131 N	27.562 E	10 G		0.3			5	TURKEY
12	13 21 57.4	5.664 S	151.355 E	33 N	4.3	1.3			11	NEW BRITAIN REGION
12	13 24 54.6*	21.835 S	68.330 W	152 *		0.9			9	CHILE-BOLIVIA BORDER REGION
12	13 47 56.4%	38.810 N	27.171 E	10 G		0.5			6	TURKEY
12	13 55 08.2	40.375 N	125.181 W	10 G	4.6 4.3	1.3			50	OFF COAST OF NORTHERN CALIFORNIA. ML 4.2 (BRK).
12	13 57 43.3&	33.450 N	116.520 W	11					1	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
12	15 23 42.1	17.014 S	167.574 E	33	5.1 4.5	1.1			66	VANUATU ISLANDS
12	15 28 46.2&	37.470 N	118.570 W	6 G					25	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.7 (PAS), 3.6 (BRK).
12	16 38 46.5*	7.877 S	157.292 E	33 N	4.0	0.7			7	SOLOMON ISLANDS
12	18 19 23.6*	32.995 S	72.033 W	10 G		0.2			10	OFF COAST OF CENTRAL CHILE
12	18 41 51.9	44.012 N	18.197 E	10 G		1.3			59	YUGOSLAVIA. ML 4.2 (TRI).
12	20 51 34.7&	62.645 N	151.098 W	94					37	CENTRAL ALASKA. <AGS-P>.
12	21 18 55.7	59.405 N	152.340 W	102	4.5	0.7			66	SOUTHERN ALASKA. Felt (IV) at Homer.
12	21 47 50.3	50.423 N	6.005 E	18		1.0			22	GERMANY. ML 3.1 (LDG), 2.7 (BNS). Felt (IV) in the Malmédy region, Belgium.
12	23 00 05.0	24.381 N	122.238 E	38	4.6	1.1			34	TAIWAN REGION. Felt on Taiwan.
12	23 02 51.2%	31.646 S	68.053 W	33 N		0.6			6	SAN JUAN PROVINCE, ARGENTINA
12	23 33 18.3*	32.573 S	72.016 W	10 G		0.2			10	OFF COAST OF CENTRAL CHILE
13	01 02 15.6*	8.289 N	104.122 W	10 G	4.8 4.4	1.1			27	OFF COAST OF MEXICO
13	01 56 12.9*	6.362 S	151.871 E	33 N	4.0	0.5			7	NEW BRITAIN REGION
13	02 06 46.0*	5.932 S	151.411 E	33 N	3.8	0.9			6	NEW BRITAIN REGION
13	02 59 08.0*	16.952 N	62.565 W	33 N		1.2			10	LEEWARD ISLANDS
13	03 40 56.5	16.474 N	120.918 E	10 G	5.2 5.4	1.3			84	LUZON, PHILIPPINE ISLANDS. Felt (IV RF) at Baguio and Santa. Felt (II RF) in the port area of Manila.
13	03 47 47.8*	42.939 N	0.744 W	5 G		1.0			13	PYRENEES
13	04 07 52.8*	5.666 S	151.249 E	14 *	4.4	1.4			9	NEW BRITAIN REGION
13	04 13 24.27	13.46 N	91.62 W	144 *	4.2	1.4			15	NEAR COAST OF GUATEMALA
13	04 28 29.2	4.892 S	151.437 E	170	4.4	0.9			17	NEW BRITAIN REGION
13	04 46 03.17	16.53 N	121.01 E	10 G	4.3	1.8			5	LUZON, PHILIPPINE ISLANDS. Felt (II RF) at Baguio.
13	06 12 40.37	6.10 S	151.76 E	33 N	3.7	1.2			5	NEW BRITAIN REGION
13	06 13 20.4&	31.940 N	115.860 W	6 G					5	BAJA CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
13	06 33 10.8*	16.964 S	167.811 E	33 N	4.0	0.3			5	VANUATU ISLANDS
13	07 00 08.6	0.392 N	98.651 E	64 *	4.6	1.1			33	NORTHERN SUMATRA
13	07 21 33.6*	31.296 S	67.891 W	10 G		0.5			5	SAN JUAN PROVINCE, ARGENTINA
13	07 27 29.5&	31.930 N	115.850 W	6 G					5	BAJA CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
13	08 04 59.77	31.54 N	131.60 E	33 N	4.3	1.4			6	KYUSHU, JAPAN. Felt (I JMA) at Miyazaki.
13	08 05 09.47	33.04 S	71.69 W	33 N		1.2			12	NEAR COAST OF CENTRAL CHILE
13	08 23 35.2	44.045 N	113.874 W	5 G		0.5			11	EASTERN IDAHO. ML 3.2 (NEIS).
a 13	08 49 03.2	51.466 N	175.760 E	33 N	5.4 4.8	1.1			172	RAT ISLANDS, ALEUTIAN ISLANDS
13	09 01 19.07	33.71 S	72.04 W	33 N		1.1			12	OFF COAST OF CENTRAL CHILE
13	09 21 41.2	32.638 S	71.024 W	55 D	4.7	0.9			36	NEAR COAST OF CENTRAL CHILE. Felt (V) at San Antonio and Valparaiso and (IV) at Santiago.
13	09 36 36.27	44.36 N	114.48 W	5 G		0.5			5	WESTERN IDAHO. ML 3.0 (BUT).
13	09 38 22.27	21.64 S	178.19 W	345 ?	4.3	1.1			11	FII ISLANDS REGION
13	09 55 37.2&	34.230 N	119.600 W	14					8	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
13	10 06 48.6*	5.631 S	151.276 E	14 *	3.9	0.9			8	NEW BRITAIN REGION
13	10 21 29.07	66.26 N	149.99 W	10 G		1.3			4	ALASKA. ML 3.3 (PMR).
13	10 25 23.67	66.18 N	150.04 W	10 G		1.3			4	ALASKA. ML 3.4 (PMR).
13	10 29 56.37	5.34 S	150.90 E	33 N	3.5	1.5			6	NEW BRITAIN REGION
a 13	10 40 59.9	32.975 N	132.509 E	44	5.7 5.2	1.1			307	SHIKOKU, JAPAN. Felt (IV JMA) at Uwajima and (III JMA) at Kochi, Ashizuri and Matsuyama. Also felt (III JMA) in eastern Kyushu and (II JMA) at Hirashima, Honshu.
13	10 44 28.87	60.31 N	5.02 E	10 G		0.8			4	SOUTHERN NORWAY. DUR 1.4 (BER).
13	10 55 04.07	66.38 N	149.86 W	10 G		1.2			4	ALASKA. ML 3.4 (PMR).
13	10 59 18.9	51.390 N	175.703 E	33 N	4.8	0.9			58	RAT ISLANDS, ALEUTIAN ISLANDS
13	11 31 10.9	0.335 S	124.492 E	71 *	4.9	1.3			26	MOLUCCA SEA
13	11 36 26.07	31.67 S	177.92 W	33 N	5.3	0.9			8	KERMADEC ISLANDS REGION

13	12 15 46.2*	40.038 N	27.282 E	10 G		1.1	5	TURKEY
13	13 04 12.8*	17.029 S	167.672 E	33 N		0.8	6	VANUATU ISLANDS
13	14 26 09.7	42.077 N	24.461 E	10 G		1.1	6	BULGARIA
13	14 51 05.0*	37.312 N	121.702 W	6			16	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK).
13	14 54 55.6*	7.929 N	103.639 W	10 G	4.5 3.9	0.8	25	OFF COAST OF MEXICO
13	15 07 57.8*	7.705 N	103.670 W	10 G	4.3 3.9	0.7	13	OFF COAST OF MEXICO
13	15 17 40.9*	35.42 N	26.45 E	33 N		1.6	5	CRETE
13	15 18 01.2*	35.300 N	27.482 E	33 N	4.6	1.4	12	DODECANESE ISLANDS. ML 4.4 (ATH).
13	15 22 21.3*	35.229 N	27.382 E	33 N	4.6	1.6	9	DODECANESE ISLANDS. ML 4.4 (ATH).
13	15 37 33.7*	39.58 N	28.60 E	10 G		1.9	5	TURKEY
13	15 59 51.8*	60.32 N	5.19 E	10 G		0.8	4	SOUTHERN NORWAY. DUR 1.5 (BER).
13	16 11 05.4*	17.24 S	177.10 W	430 *		1.2	7	FIJI ISLANDS REGION
13	16 17 13.0*	60.71 N	5.54 E	10 G		0.8	4	SOUTHERN NORWAY. DUR 1.8 (BER).
13	17 54 33.8*	36.975 N	29.439 E	10 G		1.6	6	TURKEY
13	18 22 10.8*	7.92 N	104.03 W	10 G	4.0	0.6	5	OFF COAST OF MEXICO
13	18 27 22.3*	7.80 N	103.57 W	10 G	4.2	1.0	9	OFF COAST OF MEXICO
13	20 28 20.1	38.098 N	15.722 E	10 G		1.2	23	SICILY. Felt at Messina, Reggio di Calabria and Villa San Giovanni.
13	20 59 12.0	6.787 N	73.046 W	131 *	3.4	0.9	12	NORTHERN COLOMBIA
13	21 07 50.8*	58.778 N	154.700 W	133			44	ALASKA PENINSULA. <AGS-P>.
13	21 23 13.7*	31.930 N	115.860 W	6 G			3	BAJA CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
13	21 24 00.4*	35.790 N	117.730 W	6 G			15	CENTRAL CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
13	21 43 38.6*	17.51 N	62.62 W	33 N		0.4	8	LEEWARD ISLANDS
13	21 54 52.4*	35.82 N	27.36 E	33 N		0.7	8	DODECANESE ISLANDS
13	22 13 08.8*	31.920 N	115.850 W	6 G			3	BAJA CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
13	22 35 37.9	31.831 S	70.716 W	99 *		1.2	24	CHILE-ARGENTINA BORDER REGION
13	23 10 49.1*	38.12 N	15.75 E	10 G		1.9	6	SICILY. Felt at Messina.
14	00 52 01.0*	33.82 S	72.08 W	33 N		1.0	11	OFF COAST OF CENTRAL CHILE
14	01 32 13.9*	31.690 N	115.800 W	6 G			5	BAJA CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
14	02 42 04.8*	33.300 N	116.300 W	10			5	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
14	02 54 23.4*	27.764 S	67.422 W	158 *	3.8	1.1	8	CATAMARCA PROVINCE, ARGENTINA
14	02 55 44.7*	31.910 N	115.840 W	6 G			2	BAJA CALIFORNIA. <PAS-P>. ML 2.3 (PAS).
14	02 57 52.2*	38.049 N	15.786 E	10 G		1.4	8	SICILY. Felt at Messina.
14	03 15 33.0*	5.33 S	150.88 E	33 N	3.6	0.4	5	NEW BRITAIN REGION
14	03 45 59.4*	16.570 N	120.830 E	10 G	4.2	1.3	8	LUZON, PHILIPPINE ISLANDS. Felt (II RF) at Baguio and (I RF) at Santa.
14	04 52 16.9	39.695 N	26.025 E	10 G		0.9	26	TURKEY. ML 3.6 (ATH).
14	05 44 11.2*	5.922 S	151.344 E	22 *	3.7	1.4	10	NEW BRITAIN REGION
14	05 44 34.9	38.220 N	15.678 E	10 G	4.0	1.2	40	SICILY. Felt at Messina.
14	07 16 13.3*	17.842 N	61.598 W	33 N		0.7	7	LEEWARD ISLANDS
14	09 14 37.4*	39.099 N	27.597 E	10 G		0.3	5	TURKEY
14	09 58 15.1*	0.82 N	101.06 W	10 G	4.3	0.9	14	EAST CENTRAL PACIFIC OCEAN
14	10 19 51.5	63.100 N	150.462 W	113 *		0.8	17	CENTRAL ALASKA
14	10 50 25.4	8.134 S	117.946 E	33 N	5.3	1.1	39	SUMBAWA ISLAND REGION
14	11 33 02.2*	5.660 S	151.244 E	28 *	3.9	0.8	11	NEW BRITAIN REGION
14	12 03 39.4	5.806 S	151.466 E	33 N	4.7	1.4	27	NEW BRITAIN REGION
14	12 18 57.2*	5.640 S	151.253 E	33 N	3.4	1.2	6	NEW BRITAIN REGION
14	12 28 50.0*	5.657 S	151.278 E	33 N	3.5	1.7	5	NEW BRITAIN REGION
a 14	13 24 57.8	10.610 S	41.423 E	10 G	6.0 5.5	0.9	287	NORTHWEST OF MADAGASCAR. Felt at Mtwara and Newala, Tanzania and in Cabo Delgado Province, Mozambique.
14	13 37 14.5*	5.809 S	151.481 E	28 *	4.2	1.1	9	NEW BRITAIN REGION
14	15 38 00.1*	31.805 S	67.870 W	10 G		0.4	5	SAN JUAN PROVINCE, ARGENTINA
14	15 45 56.0*	40.148 N	27.196 E	10 G		1.2	6	TURKEY
14	16 13 33.2*	33.67 S	72.39 W	33 N		1.2	15	OFF COAST OF CENTRAL CHILE. Felt (II) at Santiago.
14	16 16 17.7*	40.609 N	26.190 E	33 N		0.7	6	TURKEY
14	16 27 28.9*	42.991 N	0.709 W	17		1.2	21	PYRENEES. ML 3.4 (LDG).
14	17 11 50.4*	34.16 S	70.44 W	159 ?		0.3	6	CHILE-ARGENTINA BORDER REGION
14	17 29 54.8	35.808 N	139.535 E	104	4.8	0.8	33	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajiro and Utsunomiya and (I JMA) at Tokyo, Yokohama, Kofu and Tateyama.
14	17 35 36.3*	33.520 N	116.800 W	1			12	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.7 (PAS). Felt (IV) at Anzo and Aquango. Felt (III) at Big Bear City, Miro Loma and Santa Ysabel.
14	17 40 36.2*	0.857 N	101.705 W	10 G	5.0 4.6	1.2	50	EAST CENTRAL PACIFIC OCEAN
14	17 45 32.1*	37.264 N	20.749 E	33 N	3.9	1.2	22	IONIAN SEA. ML 3.9 (ATH).
f 14	18 11 08.9	10.562 S	41.424 E	10 G	6.4 6.0	0.9	355	NORTHWEST OF MADAGASCAR. Ms 6.3 (BRK). Felt at Mtwara and Newala, Tanzania and in the Mocimboa da Praia area, Mozambique. Believed to be the largest instrumentally located hypocenter in this area.
14	18 24 24.7*	20.077 S	177.712 W	575	5.1	0.9	35	FIJI ISLANDS REGION
14	18 44 25.6*	43.009 N	144.943 E	72	4.4	1.2	11	HOKKAIDO, JAPAN REGION. Felt (I JMA) at Kushiro and Nemuro.
14	18 45 06.0*	10.20 S	42.27 E	10 G		1.5	7	NORTHWEST OF MADAGASCAR
14	18 50 34.9	33.074 S	72.078 W	33 N	4.9 4.8	1.3	45	OFF COAST OF CENTRAL CHILE. Felt (II) at Santiago.
14	19 35 07.9*	10.99 S	40.68 E	10 G	4.0	1.1	5	TANZANIA
14	19 41 57.4*	14.252 S	165.995 E	33 N	4.8	1.1	22	VANUATU ISLANDS
14	19 54 42.2	10.705 S	41.345 E	10 G	5.4 5.1	0.9	147	NORTHWEST OF MADAGASCAR. Felt in Cabo Delgado Province, Mozambique.
14	20 45 44.8	36.286 N	73.391 E	33 N	4.6	1.1	34	NORTHWESTERN KASHMIR
14	21 09 47.7*	36.324 N	27.029 E	33 N		0.9	8	DODECANESE ISLANDS. ML 3.8 (ATH).
14	21 39 04.7	3.768 N	128.581 E	43 D	5.4	1.1	105	NORTH OF HALMAHERA
14	22 51 16.8	14.337 N	146.023 E	78 *	4.7	1.0	43	MARIANA ISLANDS
14	23 36 14.3	2.843 S	138.989 E	33 N	4.6	1.1	17	WEST IRIAN
14	23 42 59.0*	34.220 N	119.600 W	18			5	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
15	00 04 34.4*	8.444 S	119.908 E	195 *	4.3	1.4	11	FLORES ISLAND REGION
15	00 32 08.7	43.006 N	0.732 W	14		1.1	25	PYRENEES. ML 3.4 (LDG).
15	01 15 18.1	39.697 N	26.002 E	10 G		1.0	41	TURKEY. ML 3.8 (ATH).
15	02 01 05.8*	11.945 S	34.620 E	10 G		0.2	5	MALAWI
15	02 27 37.6	23.380 N	121.331 E	10 G		0.7	7	TAIWAN
15	02 34 58.7*	15.350 S	172.729 W	33 N	4.4	1.2	16	SAMOA ISLANDS REGION
15	02 49 38.9	43.039 N	0.758 W	16		1.2	24	PYRENEES. ML 3.3 (LDG).
15	02 50 51.7	0.143 S	123.855 E	146 *	4.6	1.2	19	MINAHASSA PENINSULA
a 15	02 52 31.6	51.792 S	28.263 E	10 G	5.5 5.4	1.1	71	SOUTH OF AFRICA

15	03 00 55.97	66.40 N	149.93 W	10 G	1.8	5	ALASKA. ML 3.2 (PMR).
15	04 06 37.1*	16.563 N	120.840 E	10 G 4.4	1.4	11	LUZON, PHILIPPINE ISLANDS. Felt (II RF) at Baguio and Santa.
15	04 18 39.7?	7.12 S	129.01 E	119 ? 4.4	1.3	7	BANDA SEA
15	05 11 48.4	30.035 N	138.512 E	432 4.9	0.8	164	SOUTH OF HONSHU, JAPAN
15	05 47 13.7	16.664 N	120.911 E	10 G 4.6	1.5	23	LUZON, PHILIPPINE ISLANDS. Felt (II RF) at Baguio.
15	07 26 55.2	11.690 N	86.930 W	97 * 4.7	1.3	47	NEAR COAST OF NICARAGUA
15	07 48 54.5?	16.56 N	120.87 E	10 G	0.1	4	LUZON, PHILIPPINE ISLANDS. Felt (II RF) at Baguio.
15	07 51 17.6*	5.621 S	151.254 E	33 N 3.9	1.4	7	NEW BRITAIN REGION
15	08 37 13.1?	6.25 S	151.69 E	33 N 3.4	1.2	5	NEW BRITAIN REGION
15	09 05 11.3%	39.140 N	27.617 E	10 G	1.2	5	TURKEY
15	09 32 42.7*	16.416 N	120.975 E	10 G 3.8	1.8	6	LUZON, PHILIPPINE ISLANDS. Felt (II RF) at Baguio.
15	10 33 25.8%	57.341 N	150.701 W	37		41	GULF OF ALASKA. <AGS-P>.
15	10 45 56.9?	20.24 S	175.96 W	33 N	0.7	6	TONGA ISLANDS
15	10 59 21.7*	10.950 S	41.331 E	10 G 4.9	1.1	21	NORTHWEST OF MADAGASCAR
15	11 00 28.4*	39.221 N	5.590 E	10 G 4.5	1.0	48	WESTERN MEDITERRANEAN SEA. ML 4.0 (LDG), 4.0 (FOUF).
15	11 10 17.9*	36.779 N	71.597 E	109 ? 4.3	0.5	11	AFGHANISTAN-USSR BORDER REGION
15	13 20 02.5?	33.94 S	179.54 W	33 N 4.1	1.5	9	SOUTH OF KERMADec ISLANDS
15	13 34 56.6?	33.64 S	72.24 W	33 N	0.4	8	OFF COAST OF CENTRAL CHILE
15	14 12 00.9	10.011 N	57.903 E	10 G 4.8	1.1	48	CARLSBERG RIDGE
15	14 44 05.1*	9.837 N	57.886 E	10 G 4.7	1.3	13	CARLSBERG RIDGE
15	15 03 53.4*	8.903 S	118.621 E	33 N 4.2	1.2	6	SUMBABA ISLAND REGION
15	16 37 44.1*	36.526 N	34.339 E	33 N	1.6	6	TURKEY
15	17 52 09.3*	7.099 S	146.657 E	33 N 4.3	1.1	6	EAST PAPUA NEW GUINEA REGION
15	19 02 39.0*	66.505 N	149.928 W	10 G	0.2	6	ALASKA. ML 3.5 (PMR).
15	19 55 53.7?	3.76 S	147.52 E	33 N 3.8	1.5	5	BISMARCK SEA
f	20 12 45.8	56.637 S	25.330 W	33 N 5.8 6.3	1.1	196	SOUTH SANDWICH ISLANDS REGION. Ms 6.5 (BRK), 6.0 (PAS).
15	20 22 44.9?	5.59 S	151.37 E	33 N 4.2	1.2	6	NEW BRITAIN REGION
15	20 32 34.9?	56.68 S	25.17 W	33 N 5.1	1.4	9	SOUTH SANDWICH ISLANDS REGION
15	21 02 18.8*	5.603 S	152.786 E	33 N 4.0	1.6	6	NEW BRITAIN REGION
15	21 51 34.4?	55.05 N	162.06 W	68 ? 4.6	1.1	16	ALASKA PENINSULA
15	22 08 27.2	24.095 N	122.526 E	10 G 4.2	1.3	19	TAIWAN REGION
15	23 46 19.6*	17.779 S	168.641 E	204 4.8	1.1	67	VANUATU ISLANDS
a	00 22 03.9	56.593 S	25.308 W	33 N 5.1 5.1	1.1	37	SOUTH SANDWICH ISLANDS REGION
16	00 32 59.9*	56.561 S	25.093 W	33 N 5.2	0.8	22	SOUTH SANDWICH ISLANDS REGION
16	01 06 18.6	17.786 S	178.633 W	577 5.2	1.0	120	FIJI ISLANDS REGION
16	02 59 47.4*	6.300 S	130.251 E	113 ? 4.8	1.1	19	BANDA SEA
16	04 10 54.3	40.383 N	19.466 E	10 G 3.7	1.4	50	ALBANIA. ML 3.7 (TTG). Felt (VI) in southern Albania.
16	04 34 41.5	45.526 N	27.047 E	31 * 4.6	0.7	8	ROMANIA
16	05 57 35.9*	41.912 N	19.271 E	10 G	1.1	8	ALBANIA. ML 2.4 (TTG).
16	06 56 50.7?	31.27 S	68.62 W	112 ? 4.6	0.2	5	SAN JUAN PROVINCE, ARGENTINA
16	07 23 45.2	18.817 N	69.405 W	96 * 4.6	1.2	21	DOMINICAN REPUBLIC REGION
16	08 42 05.8*	16.584 N	97.090 W	33 N	0.3	5	OAXACA, MEXICO
16	10 00 19.2*	44.166 N	7.565 E	10 G	1.2	5	NORTHERN ITALY. ML 2.8 (LDG).
16	10 22 47.4	48.319 N	155.635 E	33 N 5.1 5.0	1.0	107	KURIL ISLANDS
16	10 55 06.2	5.648 S	151.231 E	37 4.9	1.2	47	NEW BRITAIN REGION
16	13 38 24.1	42.032 N	24.511 E	10 G	1.2	6	BULGARIA
f	14 20 25.1	29.081 S	77.735 E	10 G 5.9 6.0	1.0	316	MID-INDIAN RISE. Ms 6.1 (PAS).
16	18 12 26.2?	33.68 S	71.78 W	33 N	0.6	11	NEAR COAST OF CENTRAL CHILE
16	18 23 57.9	40.546 N	26.621 E	10 G	0.9	9	TURKEY
16	18 34 00.8	31.354 S	68.671 W	100	0.9	19	SAN JUAN PROVINCE, ARGENTINA
16	19 01 12.5	46.485 N	9.407 E	10 G	1.3	9	SWITZERLAND
16	19 18 14.9*	18.717 S	173.102 W	33 N 4.9	0.6	7	TONGA ISLANDS
16	22 04 21.1%	40.083 N	29.892 E	10 G	0.3	5	TURKEY
16	23 07 43.4%	58.845 N	154.030 W	121		27	ALASKA PENINSULA. <AGS-P>.
17	00 29 04.5?	39.49 N	22.89 E	10 G	0.4	8	GREECE
a	00 37 21.9*	30.150 S	177.916 W	33 N 5.3	1.4	45	KERMADec ISLANDS. Felt on Raoul.
17	01 14 00.9	37.102 N	29.476 E	10 G	1.0	9	TURKEY
a	02 44 07.8	34.273 S	72.473 W	33 N 5.1 5.1	1.1	70	NEAR COAST OF CENTRAL CHILE. Felt (II) at Santiago.
17	03 23 51.5?	34.10 S	71.97 W	33 N	1.0	10	NEAR COAST OF CENTRAL CHILE
17	03 30 09.4	46.177 N	6.935 E	10 G	0.9	9	SWITZERLAND. ML 2.7 (LDG).
17	04 11 23.6*	38.140 N	23.295 E	10 G	1.4	10	GREECE. ML 3.1 (ATH).
17	05 42 37.9	38.201 N	23.355 E	10 G	0.8	13	GREECE. ML 3.4 (ATH).
17	06 00 09.2*	38.783 N	142.766 E	33 N 4.3	1.1	10	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Miyako.
17	09 28 58.5*	21.434 S	169.779 E	33 N 4.0	1.4	19	LOYALTY ISLANDS REGION
17	10 03 04.7*	11.516 S	166.609 E	33 N 4.6	1.3	17	SANTA CRUZ ISLANDS
17	12 34 06.4*	53.415 N	165.960 W	33 N 4.7	1.1	21	FOX ISLANDS, ALEUTIAN ISLANDS
17	12 44 10.5*	36.546 N	69.713 E	33 N 4.5	0.3	6	HINDU KUSH REGION
a	13 00 00.4	5.253 S	151.907 E	63 5.3	1.1	91	NEW BRITAIN REGION
17	13 17 59.6%	39.083 N	27.591 E	10 G	0.6	5	TURKEY
17	13 40 31.7%	45.208 N	25.172 E	10 G	1.6	7	ROMANIA
17	16 00 34.0	6.385 S	147.505 E	43 * 4.3	1.1	15	EAST PAPUA NEW GUINEA REGION
17	16 02 13.5*	52.634 N	160.433 E	33 N 4.9	0.7	18	OFF EAST COAST OF KAMCHATKA
17	16 21 05.0*	5.676 S	147.245 E	210 * 4.4	1.2	9	EAST PAPUA NEW GUINEA REGION
17	16 38 08.7%	39.145 N	27.564 E	10 G	0.3	5	TURKEY
17	16 50 03.5?	16.21 S	178.08 W	463 * 4.4	1.0	20	FIJI ISLANDS REGION
17	16 53 55.4%	61.494 N	149.906 W	53		34	SOUTHERN ALASKA. <AGS-P>.
17	17 01 23.8	26.616 N	57.359 E	33 N 4.7	0.9	22	SOUTHERN IRAN
17	17 25 18.1*	28.316 S	177.979 W	210 * 5.0	1.4	29	KERMADec ISLANDS REGION
17	18 11 25.8	5.645 S	151.286 E	33 N 4.0	1.0	8	NEW BRITAIN REGION
17	18 12 55.8%	39.074 N	28.571 E	10 G	1.4	8	TURKEY
17	18 16 21.4*	5.569 S	151.195 E	33 N 3.8	1.2	5	NEW BRITAIN REGION
17	18 26 13.3*	6.013 S	146.694 E	33 N 3.3	1.7	5	EAST PAPUA NEW GUINEA REGION
17	18 39 41.7*	40.130 N	20.197 E	10 G	0.3	5	GREECE-ALBANIA BORDER REGION
17	18 49 30.3	40.129 N	20.181 E	10 G	0.5	10	GREECE-ALBANIA BORDER REGION
17	18 57 08.6*	40.113 N	29.216 E	10 G	0.5	7	TURKEY
17	19 27 44.7%	46.901 N	2.348 E	10 G	1.1	9	FRANCE. ML 2.4 (LDG).
17	20 23 05.1	1.935 N	125.587 E	52 * 5.0	1.2	52	MOLUCCA PASSAGE
17	20 54 12.7?	17.05 N	145.46 E	330 ? 4.2	0.6	17	MARIANA ISLANDS
17	21 35 16.1*	27.968 S	27.277 E	5 G 4.8	1.2	7	REPUBLIC OF SOUTH AFRICA
17	22 12 56.7*	6.555 S	154.682 E	33 N 4.9	0.5	8	SOLOMON ISLANDS
17	22 20 42.0*	51.708 S	138.943 E	10 G 5.0	1.4	32	SOUTH OF AUSTRALIA

17	22 46 05.8*	36.007 N	141.348 E	33 N	4.4	0.7	8	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Choshi.
17	23 45 22.5&	40.437 N	125.407 W	5 G			6	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.4 (BRK).
18	00 36 42.8?	5.46 S	151.10 E	33 N	4.0	1.5	6	NEW BRITAIN REGION
18	01 13 37.3	43.300 N	20.935 E	10 G	4.5	1.1	143	YUGOSLAVIA. ML 4.2 (TTG). Many homes destroyed or damaged (VII) and landslides in the Kopaonik region.
18	02 11 55.7*	28.838 S	68.370 W	33 N		0.8	9	LA RIOJA PROVINCE, ARGENTINA
18	03 12 57.6	8.423 N	82.732 W	33 N	5.1 3.9	1.1	74	PANAMA-COSTA RICA BORDER REGION. Felt at Chiriqui, Panama.
18	03 44 37.3?	5.46 S	150.87 E	33 N	3.6	1.4	5	NEW BRITAIN REGION
18	03 56 17.6*	66.416 N	149.901 W	10 G		1.3	5	ALASKA. ML 3.7 (PMR).
18	04 16 28.2*	6.509 S	130.014 E	33 N	4.5	1.7	10	BANDA SEA
18	04 29 51.3*	44.295 N	6.845 E	10 G		0.2	5	FRANCE. ML 2.7 (LDG), 2.7 (FOUF).
18	05 09 23.9*	17.755 S	178.126 W	611	5.5	0.8	28	FIJI ISLANDS REGION
18	06 50 52.4	40.727 N	71.325 E	33 N	4.7 3.9	1.2	31	TAJIK SSR. Felt (V) at Pap, (IV) at Namangan, (III) at Andizhan and (II) at Tashkent.
18	07 26 00.2*	34.286 S	73.203 W	33 N	4.7	1.5	10	OFF COAST OF CENTRAL CHILE
18	08 54 20.6	40.714 N	15.235 E	10 G		0.9	7	SOUTHERN ITALY
18	09 02 08.8?	31.70 S	69.54 W	126 ?		0.2	6	SAN JUAN PROVINCE, ARGENTINA
18	09 54 01.4*	31.784 S	67.725 W	33 N		0.9	5	SAN JUAN PROVINCE, ARGENTINA
18	09 57 28.5*	36.269 S	100.661 W	10 G	4.6	1.1	34	SOUTHERN PACIFIC OCEAN
18	10 20 22.0*	42.743 N	23.516 E	10 G		1.5	7	BULGARIA
18	10 21 55.9*	41.052 N	19.727 E	10 G		1.3	8	ALBANIA. ML 2.6 (TTG).
18	10 42 04.1%	40.165 N	28.925 E	10 G		1.0	9	TURKEY
18	11 09 09.7?	7.71 S	27.05 E	33 N	4.3	1.8	5	ZAIRE REPUBLIC
18	12 05 47.8?	40.54 N	123.97 W	10 G		1.0	6	NORTHERN CALIFORNIA. ML 3.9 (BRK).
18	12 23 01.3*	40.105 N	138.573 E	33 N	4.4	1.8	9	EASTERN SEA OF JAPAN
18	13 11 39.1	81.851 N	3.804 W	10 G	4.8 5.0	0.8	76	NORTH OF SVALBARD
18	13 20 50.7%	39.123 N	27.561 E	10 G		0.8	6	TURKEY
18	13 30 22.0*	6.646 E	147.816 E	33 N	3.4	1.1	8	EAST PAPUA NEW GUINEA REGION
18	13 39 09.4*	24.535 N	121.464 E	33 N		0.7	6	TAIWAN
18	15 19 38.8	36.597 N	71.144 E	33 N	4.4	0.2	7	AFGHANISTAN-USSR BORDER REGION
a 18	16 59 13.8	19.000 S	69.053 W	110 D	5.5	1.0	243	NORTHERN CHILE. mb 5.7 (BRK). Felt (IV) in the Arico-Putre area. Felt (III) at Arequipa, Peru.
18	17 17 55.0*	13.027 N	144.079 E	123	4.8	0.8	19	MARIANA ISLANDS
18	18 03 58.2&	59.530 N	153.732 W	126			43	SOUTHERN ALASKA. <AGS-P>.
18	18 39 23.7*	39.009 N	29.982 E	10 G		1.2	9	TURKEY
18	19 30 35.3*	43.551 N	5.227 E	10 G		1.3	5	NEAR SOUTH COAST OF FRANCE. ML 2.7 (LDG).
18	22 06 56.1&	58.507 N	154.592 W	10	4.3		53	ALASKA PENINSULA. <AGS-P>. ML 4.0 (PMR).
18	22 08 36.1*	13.937 N	91.642 W	33 N	4.6 3.6	1.1	41	NEAR COAST OF GUATEMALA
19	00 00 17.3?	15.42 N	60.67 W	33 N		0.1	5	LEEWARD ISLANDS
19	00 13 13.2?	23.73 N	121.78 E	33 N		0.4	5	TAIWAN
19	00 28 24.4*	22.036 S	179.612 W	590 *	4.8	0.9	23	SOUTH OF FIJI ISLANDS
19	00 55 11.0	29.738 N	51.127 E	33 N	4.7	0.9	90	SOUTHERN IRAN
19	01 28 59.9?	17.60 N	99.75 W	33 N		1.6	5	GUERRERO, MEXICO
19	01 29 07.5	29.345 N	69.393 E	33 N	4.7	0.9	53	PAKISTAN
19	01 54 10.3*	41.379 N	20.540 E	10 G		1.6	6	ALBANIA. ML 2.2 (TTG).
19	01 58 24.0*	16.985 N	62.308 W	44 *		0.4	12	LEEWARD ISLANDS. Felt on Guadeloupe.
19	02 06 59.2?	25.14 N	109.63 W	10 G	3.8	1.2	8	GULF OF CALIFORNIA
19	02 58 40.2*	32.477 S	68.446 W	148 ?		1.1	9	MENDOZA PROVINCE, ARGENTINA
19	04 04 40.0?	16.15 S	172.56 W	33 N	4.6	1.4	24	SAMOA ISLANDS REGION
19	06 29 18.2*	38.302 N	23.233 E	10 G		0.5	5	GREECE. ML 2.9 (ATH).
19	06 37 21.4	42.280 N	13.346 E	10 G		1.1	26	CENTRAL ITALY. ML 3.9 (TRI), 3.6 (LDG), 3.5 (KBA).
19	06 43 58.3*	33.984 S	72.381 W	33 N	4.5	1.3	25	OFF COAST OF CENTRAL CHILE
19	06 57 35.2*	55.940 N	165.683 E	33 N	4.7	1.3	17	KOMANDORSKY ISLANDS REGION
a 19	07 07 46.1	33.894 S	72.287 W	33 N	5.2 5.3	1.2	97	OFF COAST OF CENTRAL CHILE. Felt (II) at Santiago.
19	07 17 39.0&	61.718 N	150.846 W	60			41	SOUTHERN ALASKA. <AGS-P>.
19	07 23 06.2	33.989 S	72.358 W	33 N	4.9	0.8	40	OFF COAST OF CENTRAL CHILE
a 19	08 07 48.2	53.611 N	160.526 E	63 D	6.1	0.9	318	NEAR EAST COAST OF KAMCHATKA. Ms 5.3 (BRK). Felt (V) at Petropavlovsk-Kamchatskiy.
19	08 41 08.9*	16.417 N	120.883 E	13	4.7	1.4	20	LUZON, PHILIPPINE ISLANDS. Felt (III RF) at Baguio.
19	08 50 35.2	3.419 N	124.117 E	387	5.1	1.0	76	CELEBES SEA
19	09 24 25.2*	42.558 N	13.480 E	10 G		0.3	5	CENTRAL ITALY. DUR 3.3 (KBA).
19	10 55 25.7%	39.132 N	27.640 E	10 G		1.1	6	TURKEY
19	11 25 24.7?	10.82 S	40.50 E	10 G		0.3	5	TANZANIA
19	11 32 22.9*	10.813 S	41.365 E	10 G	4.7	1.1	13	NORTHWEST OF MADAGASCAR
19	11 58 09.2*	44.906 N	9.714 E	33 N		1.0	9	NORTHERN ITALY
19	12 08 20.1*	50.682 N	9.898 E	10 G		0.8	5	GERMANY. ML 2.3 (GRF).
19	13 33 41.6*	42.287 N	13.271 E	10 G		1.4	6	CENTRAL ITALY
19	13 44 54.4%	39.153 N	27.522 E	10 G		1.0	5	TURKEY
19	14 08 48.7*	22.238 S	170.001 E	33 N	5.1	1.2	38	LOYALTY ISLANDS REGION
19	14 40 27.8	42.312 N	13.314 E	13	3.9	1.0	50	CENTRAL ITALY. ML 4.1 (TRI), 3.9 (KBA), 3.6 (LDG).
19	14 43 45.1?	10.56 S	40.65 E	10 G	4.1	1.3	10	TANZANIA
19	15 01 41.9	19.148 N	64.814 W	33 N	4.6	1.0	17	VIRGIN ISLANDS
19	15 20 42.4	33.836 S	72.401 W	33 N	4.6	1.1	35	OFF COAST OF CENTRAL CHILE
19	15 27 06.8?	10.53 S	40.79 E	10 G		0.7	6	TANZANIA
19	16 28 35.2*	34.101 N	135.102 E	5 G		0.8	6	NEAR S. COAST OF SOUTHERN HONSHU. Felt (II JMA) at Wakayama.
19	17 42 36.9	39.365 N	25.472 E	10 G		0.5	18	AEGEAN SEA. ML 3.5 (ATH).
f 19	18 09 15.6	30.253 S	71.329 W	39 D	5.9 6.0	1.0	286	NEAR COAST OF CENTRAL CHILE. Ms 6.0 (BRK). Felt (VI) at Coquimbo, (V) at Pahuana and La Sereno and (II) at Santiago. Felt also at Mendoza, Argentina.
19	18 44 39.3*	7.306 S	129.314 E	138 *	4.8	1.2	22	BANDA SEA
19	18 47 25.9*	30.074 S	71.826 W	33 N		1.1	16	NEAR COAST OF CENTRAL CHILE
19	19 04 02.9?	5.82 S	151.19 E	33 N	3.9	1.6	6	NEW BRITAIN REGION
19	23 41 25.2	36.097 N	136.588 E	10 G		0.7	10	NEAR WEST COAST OF HONSHU, JAPAN. Felt (I JMA) at Fukui. Felt also at Kyoto.
19	23 51 45.8*	38.492 N	26.782 E	10 G		0.2	6	AEGEAN SEA
20	00 59 56.2?	38.51 N	20.33 E	10 G		1.7	5	GREECE
20	01 17 49.3?	4.83 S	151.43 E	33 N	4.2	1.3	6	NEW BRITAIN REGION
20	02 45 33.0	10.312 S	118.742 E	33 N		1.5	6	SOUTH OF SUMBAWA ISLAND. ML 2.7 (LDG).
20	02 53 55.4&	31.890 N	115.850 W	6 G			7	BAJA CALIFORNIA. <PAS-P>. ML 3.9 (PAS).
a 20	05 44 42.4	56.971 S	26.590 W	145 D	5.6	0.9	100	SOUTH SANDWICH ISLANDS REGION

20	07 46 29.0& 59.976 N	153.527 W	139			20	SOUTHERN ALASKA. <AGS-P>.
20	07 51 15.1 38.317 N	20.196 E	17	4.6	1.3	62	GREECE. ML 4.4 (TTG), 4.2 (ATH).
20	08 11 32.87 66.17 N	150.08 W	10 G		1.4	6	ALASKA. ML 2.6 (PMR).
20	08 39 43.27 1.96 N	126.46 E	176 *	5.0	1.2	14	MOLUCCA PASSAGE
20	10 00 29.2 42.246 N	13.295 E	13	4.7	1.1	97	CENTRAL ITALY. ML 4.5 (LDG), 4.5 (TRI), 4.2 (TTG).
20	10 22 46.0 33.494 S	72.184 W	33 N	4.9 4.5	1.3	48	OFF COAST OF CENTRAL CHILE. Felt (III) at Santiago.
20	10 33 41.2 36.142 N	28.813 E	45	4.7 3.8	1.2	145	DODECANESE ISLANDS
20	10 50 49.87 32.99 S	70.88 W	33 N		0.1	6	CHILE-ARGENTINA BORDER REGION
20	11 03 39.5% 60.385 N	5.342 E	10 G		0.7	6	SOUTHERN NORWAY. DUR 2.1 (BER).
20	11 13 00.37 23.36 N	122.17 E	10 G		0.5	6	TAIWAN REGION
20	12 07 35.3* 6.333 S	130.080 E	33 N		1.2	6	BANDA SEA
20	13 19 35.0 43.320 N	20.930 E	10 G		1.1	20	YUGOSLAVIA. 3.3 (TTG). Felt at Knezevo.
20	13 50 40.47 24.42 N	121.91 E	10 G		0.5	5	TAIWAN
20	13 54 31.4& 60.644 N	147.616 W	30	4.1		73	SOUTHERN ALASKA. <AGS-P>. ML 4.4 (PMR). Felt (IV) at Cooper Landing, (III) at Valdez and (II) at Anchorage.
20	14 34 40.27 20.09 N	122.51 E	129 ?	4.7	0.6	7	PHILIPPINE ISLANDS REGION
20	14 57 42.9* 13.139 S	130.260 E	33 N		0.5	5	NORTHERN TERRITORY, AUSTRALIA
20	15 11 40.6 35.489 N	87.173 E	33 N	5.2 6.1	1.1	140	TIBET
20	15 51 36.87 22.62 S	178.38 W	33 N	4.8	0.6	8	SOUTH OF FIJI ISLANDS
20	17 33 13.9* 9.893 S	28.365 E	10 G	3.9	0.9	5	ZAIRE REPUBLIC
20	17 59 41.7* 42.240 N	13.302 E	10 G		1.5	10	CENTRAL ITALY
20	19 37 07.37 37.08 N	20.05 E	10 G		1.5	8	IONIAN SEA. ML 3.8 (ATH).
20	20 03 58.07 2.23 N	101.06 W	10 G	4.2	1.4	10	EAST CENTRAL PACIFIC OCEAN
20	20 11 34.8* 38.344 N	14.989 E	313 *	4.2	1.2	37	SICILY
20	20 52 20.67 10.43 S	40.66 E	10 G		1.1	5	TANZANIA
20	21 31 19.2* 66.082 N	150.350 W	10 G		1.1	6	ALASKA. ML 2.6 (PMR).
20	21 41 45.1% 45.682 N	1.885 W	10 G		1.1	6	FRANCE
20	21 56 44.3& 31.960 N	115.890 W	6 G			4	BAJA CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
20	22 12 32.6& 60.430 N	152.061 W	71			35	SOUTHERN ALASKA. <AGS-P>.
20	23 44 27.07 31.21 S	68.25 W	107 ?		0.8	7	SAN JUAN PROVINCE, ARGENTINA
21	00 03 43.17 36.78 N	22.21 E	118 ?		0.1	5	SOUTHERN GREECE
21	00 05 35.8* 28.860 N	142.312 E	33 N	4.2	0.8	12	BONIN ISLANDS REGION
21	00 31 15.4* 34.402 N	25.736 E	10 G		1.5	7	CRETE
21	00 36 43.5 32.236 N	58.752 E	33 N	4.5	1.1	45	IRAN
21	00 37 38.9* 33.076 S	70.752 W	33 N		1.2	7	CHILE-ARGENTINA BORDER REGION
21	01 13 06.0 55.113 N	160.473 W	59	4.8	0.9	55	ALASKA PENINSULA
21	01 21 15.5& 39.155 N	122.220 W	2 G			13	NORTHERN CALIFORNIA. <BRK>. ML 3.2 (BRK).
21	01 46 51.1* 1.259 N	90.704 W	10 G	4.3	1.0	10	GALAPAGOS ISLANDS REGION
21	01 50 55.9& 39.148 N	122.160 W	10 G			7	NORTHERN CALIFORNIA. <BRK>. ML 2.4 (BRK).
21	02 00 16.6* 1.302 N	90.816 W	10 G	4.6	1.1	36	GALAPAGOS ISLANDS REGION
21	03 27 44.6* 38.250 N	142.120 E	48 *	4.3	0.9	10	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Ofunato and (I JMA) at Ishinomaki.
21	03 59 49.4* 6.866 S	129.549 E	79 ?	3.0	1.2	9	BANDA SEA
21	04 39 25.0* 44.615 N	17.311 E	10 G		1.4	7	YUGOSLAVIA. DUR 3.0 (TRI).
21	05 50 00.5& 57.291 N	153.788 W	111			14	KODIAK ISLAND REGION. <AGS-P>.
21	06 24 29.8 33.608 S	72.026 W	33 N	4.6	1.2	29	OFF COAST OF CENTRAL CHILE
21	06 57 29.6 45.693 N	27.352 E	33 N		1.3	8	ROMANIA
21	07 03 52.8* 41.245 N	20.227 E	10 G		1.3	7	ALBANIA
21	07 15 33.8 10.144 N	93.928 E	33 N	4.7	0.9	56	ANDAMAN ISLANDS REGION
21	08 09 50.87 33.75 S	71.77 W	33 N		1.4	11	NEAR COAST OF CENTRAL CHILE
21	08 48 37.7* 4.075 S	130.985 E	33 N	3.6	0.9	11	BANDA SEA
21	09 31 12.0* 6.830 S	128.439 E	282 *	4.5	0.7	15	BANDA SEA
21	09 37 43.4& 58.234 N	137.244 W	35			6	SOUTHEASTERN ALASKA. <AGS-P>.
21	10 01 01.7 15.109 S	75.313 W	33 N	4.7 4.3	0.8	50	NEAR COAST OF PERU
21	10 03 28.6% 39.101 N	27.620 E	10 G		0.1	5	TURKEY
21	10 14 22.8% 41.130 N	27.741 E	10 G		0.1	5	TURKEY
21	10 33 53.5% 38.880 N	31.152 E	10 G		0.6	12	TURKEY
21	10 34 46.9& 39.123 N	122.042 W	10 G			16	NORTHERN CALIFORNIA. <BRK>. ML 2.9 (BRK).
21	10 47 59.97 32.84 S	72.82 W	33 N		0.4	9	OFF COAST OF CENTRAL CHILE
21	11 59 50.1 39.214 N	28.314 E	16		0.7	14	TURKEY
21	12 08 37.07 59.26 N	5.74 E	10 ?		1.8	5	SOUTHERN NORWAY. DUR 2.1 (BER).
21	12 43 58.5% 60.307 N	5.399 E	10 G		0.6	5	SOUTHERN NORWAY. DUR 1.8 (BER).
21	13 24 20.9& 35.807 N	120.358 W	8			23	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK).
21	16 02 28.5 15.897 S	173.776 W	33 N	4.6	0.4	14	TONGA ISLANDS
21	16 07 32.1& 61.378 N	151.483 W	78			27	SOUTHERN ALASKA. <AGS-P>.
21	16 26 57.07 40.91 N	123.80 W	5 G		0.9	6	NORTHERN CALIFORNIA. ML 2.8 (BRK).
21	16 39 47.4& 59.732 N	152.918 W	92			34	SOUTHERN ALASKA. <AGS-P>.
21	17 43 29.9 46.743 N	10.461 E	10 G		1.1	50	NORTHERN ITALY. ML 3.7 (GRF), 3.7 (VKA), 3.6 (KBA), 3.5 (FUR), 3.5 (LDG).
21	18 10 49.27 42.97 N	1.23 W	10 G		0.8	6	PYRENEES
21	18 39 52.1* 48.701 S	126.233 E	10 G	5.0	1.0	13	SOUTH OF AUSTRALIA
21	19 12 53.2 0.292 N	121.518 E	184	5.4	1.0	144	MINAHASSA PENINSULA
21	21 53 03.8* 7.412 S	127.603 E	77 ?	4.7	1.3	14	BANDA SEA
21	22 20 48.2 53.815 N	166.890 W	71	5.1	1.0	141	FOX ISLANDS, ALEUTIAN ISLANDS
21	22 52 57.0* 27.422 S	176.401 W	33 N	4.9 4.4	1.2	42	KERMADEC ISLANDS REGION
21	23 27 04.3 39.995 N	20.079 E	38	4.3	1.2	86	GREECE-ALBANIA BORDER REGION. ML 4.1 (ATH).
22	00 00 04.47 57.20 S	25.27 W	33 N		0.9	5	SOUTH SANDWICH ISLANDS REGION
22	02 03 21.07 47.79 N	1.56 W	10 G		0.4	5	FRANCE. ML 2.7 (LDG).
22	02 09 19.57 33.04 S	72.35 W	33 N		0.2	9	OFF COAST OF CENTRAL CHILE
22	02 39 56.57 33.15 S	72.17 W	33 N		0.3	9	OFF COAST OF CENTRAL CHILE
22	03 27 19.2* 47.493 S	13.499 W	10 G	5.1	1.3	58	SOUTH ATLANTIC RIDGE
22	03 42 13.1& 39.605 N	120.442 W	12			13	NORTHERN CALIFORNIA. <BRK>. ML 3.3 (BRK). Felt (IV) at Calpine, (III) at Blairsden and Sierra City.
22	04 26 29.8* 31.673 S	67.801 W	33 N		1.2	8	SAN JUAN PROVINCE, ARGENTINA
22	04 28 12.67 31.60 S	69.67 W	133 ?		0.2	6	SAN JUAN PROVINCE, ARGENTINA
22	05 01 05.1 26.547 S	64.706 W	41 *	4.7	1.3	41	TUCUMAN PROVINCE, ARGENTINA
22	05 30 59.7* 53.426 N	159.461 E	51 D	4.7	1.0	18	NEAR EAST COAST OF KAMCHATKA
22	05 53 18.8% 57.466 N	7.699 E	10 G		0.6	6	NORTH SEA. DUR 2.5 (BER).
22	06 28 14.4* 62.669 S	165.055 E	10 G	5.4 5.3	0.8	11	BALLENY ISLANDS REGION
22	06 55 58.27 38.90 S	178.35 W	33 N	4.7	1.5	9	EAST OF NORTH ISLAND, N.Z.
22	07 13 22.97 26.59 S	64.71 W	33 N		1.6	5	TUCUMAN PROVINCE, ARGENTINA
22	07 16 42.6 36.041 N	139.895 E	62	4.5	0.9	25	HONSHU, JAPAN. Felt (III JMA) at Utsunomiya, (II JMA) at Mito and (I JMA) at Choshi, Kumagaya and Yokohama.

22	07	28	30.0*	5.887 S	151.408 E	33 N	3.7	1.5	6	NEW BRITAIN REGION
22	07	44	20.5*	37.470 N	118.640 W	6 G			10	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.3 (PAS).
22	09	20	20.9*	26.482 S	64.453 W	105 ?		0.9	7	TUCUMAN PROVINCE, ARGENTINA
22	09	32	37.7*	30.568 S	177.813 W	33 N	5.3 4.9	1.4	23	KERMADEC ISLANDS
22	10	10	37.4*	31.930 N	115.860 W	6 G			5	BAJA CALIFORNIA. <PAS-P>. ML 3.7 (PAS).
22	11	00	01.4*	43.668 N	24.052 E	10 G		1.1	5	BULGARIA
22	11	04	14.17	7.36 S	128.96 E	170 ?	4.2	0.2	6	BANDA SEA
22	12	03	29.97	36.53 N	71.41 E	183 ?	4.0	1.5	9	AFGHANISTAN-USSR BORDER REGION
22	13	57	56.6	30.886 N	73.394 E	33 N	5.0 4.0	0.9	64	INDIA-PAKISTAN BORDER REG. Felt at Lahore, Pakistan.
22	14	38	16.4*	58.919 N	154.294 W	130			27	ALASKA PENINSULA. <AGS-P>.
22	15	38	38.3*	63.328 N	147.168 W	44			28	CENTRAL ALASKA. <AGS-P>.
22	17	48	07.1	39.018 N	26.185 E	13		0.7	17	TURKEY
22	17	51	08.67	38.96 N	26.16 E	10 G		1.6	5	AEGEAN SEA
22	17	52	11.2*	50.457 N	19.048 E	10 G		0.7	7	POLAND. ML 3.5 (KBA), 3.3 (KRA).
22	18	40	33.9	1.863 S	145.578 E	33 N	4.8	1.1	27	ADMIRALTY ISLANDS REGION
22	20	33	16.1*	62.216 N	148.405 W	40			34	CENTRAL ALASKA. <AGS-P>.
22	21	39	34.9	9.034 N	77.322 W	33 N		1.4	12	NEAR NORTH COAST OF COLOMBIA
22	21	53	12.47	39.48 N	33.99 E	10 G		0.7	6	TURKEY
22	22	43	32.1*	22.017 N	143.821 E	164 ?	4.6	1.1	33	VOLCANO ISLANDS REGION
22	23	01	50.1	6.541 S	129.811 E	150 *	4.7	1.0	24	BANDA SEA
22	23	14	39.4*	32.980 N	132.718 E	33 N		1.7	5	SHIKOKU, JAPAN
22	23	40	04.4*	32.660 S	71.571 W	33 N		1.2	17	NEAR COAST OF CENTRAL CHILE
22	23	46	48.9	7.047 S	102.577 E	33 N	5.1	0.9	51	SOUTHWEST OF SUMATERA
23	00	25	22.4*	60.196 N	153.141 W	125			29	SOUTHERN ALASKA. <AGS-P>.
23	01	04	16.5	42.279 N	13.341 E	11	4.0	1.1	56	CENTRAL ITALY. ML 4.1 (TRI), 3.8 (KBA), 3.7 (LDG). Felt at L'Aquila.
23	02	09	51.07	66.26 N	149.89 W	10 G		0.8	5	ALASKA
23	02	39	16.2*	5.038 N	123.397 E	585 *	4.8	0.5	12	MINDANAO, PHILIPPINE ISLANDS
23	06	03	37.17	5.71 S	147.31 E	180 *	4.7	1.3	7	EAST PAPUA NEW GUINEA REGION
23	07	14	20.9*	37.470 N	118.650 W	6 G			6	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.1 (PAS).
23	08	10	59.0*	23.031 S	66.386 W	237 *	4.1	1.4	10	JUJUY PROVINCE, ARGENTINA
23	08	41	24.9*	18.845 N	64.870 W	33 N		0.9	5	VIRGIN ISLANDS. Felt on St. Thomas. Felt also in the San Juan area and at Roosevelt Roads, Puerto Rico.
23	09	24	58.4	16.818 N	91.546 W	33 N	4.5	1.0	45	MEXICO-GUATEMALA BORDER REGION
23	10	18	24.2	36.264 S	73.141 W	33 N	4.5	0.9	28	NEAR COAST OF CENTRAL CHILE
23	11	14	04.6*	37.025 S	144.561 E	33 N		0.5	5	NEAR S.E. COAST OF AUSTRALIA
23	11	21	36.1*	11.787 N	88.157 W	33 N	4.6	0.9	32	OFF COAST OF CENTRAL AMERICA
23	11	33	14.7*	12.084 N	88.260 W	33 N	4.7	0.8	33	OFF COAST OF CENTRAL AMERICA
23	11	42	34.27	11.93 N	88.26 W	33 N	4.8	0.7	19	OFF COAST OF CENTRAL AMERICA
23	11	45	39.3*	38.798 N	122.813 W	4	4.1		19	NORTHERN CALIFORNIA. <BRK>. ML 3.2 (BRK). Felt at The Geysers.
23	11	53	28.5*	23.011 S	66.681 W	232 *	3.7	1.2	6	JUJUY PROVINCE, ARGENTINA
23	12	00	17.27	66.25 N	149.87 W	10 G		2.3	6	ALASKA
23	12	19	14.7	43.388 N	24.748 E	10 G		1.1	5	BULGARIA
23	12	48	55.4*	59.338 N	153.729 W	120			30	SOUTHERN ALASKA. <AGS-P>.
23	13	08	57.77	39.54 N	22.93 E	10 G		1.3	6	GREECE
23	13	14	04.17	57.90 N	5.72 E	10 G		0.8	5	NORTH SEA. DUR 2.5 (BER).
23	14	05	18.5	5.302 S	143.362 E	33 N	5.2	1.2	26	PAPUA NEW GUINEA
23	14	43	41.6*	36.418 N	22.124 E	67 *	3.6	1.3	23	SOUTHERN GREECE
a 23	16	02	22.5	36.575 N	22.208 E	39	4.8 4.9	1.3	192	SOUTHERN GREECE
23	16	07	44.4	1.926 N	128.863 E	58 *	5.1 4.3	1.0	21	HALMAHERA
23	16	11	48.5*	10.600 S	40.922 E	10 G	4.7	1.3	19	TANZANIA
23	16	57	06.1*	36.610 N	22.077 E	63 ?	3.7	1.4	10	SOUTHERN GREECE
23	18	24	10.6*	17.916 S	178.186 E	33 N		1.3	5	FILIPIN ISLANDS
23	18	40	12.47	61.60 N	2.58 E	10 G		0.3	5	NORWEGIAN SEA. DUR 2.0 (BER).
a 23	18	51	00.5	10.245 S	165.270 E	36 *	5.3 4.5	1.0	110	SANTA CRUZ ISLANDS
23	19	24	16.7	28.639 S	67.230 W	141	4.7	1.5	35	LA RIOJA PROVINCE, ARGENTINA
23	19	32	29.3*	33.390 S	72.327 W	33 N	4.5	1.1	9	OFF COAST OF CENTRAL CHILE
23	19	59	32.1	40.559 N	22.867 E	10 G		0.5	10	GREECE
23	21	29	30.0*	38.920 N	27.717 E	10 G		1.5	9	TURKEY
23	23	23	53.9	36.395 N	22.071 E	57 *	3.4	1.1	24	SOUTHERN GREECE
24	00	09	55.7*	10.532 S	40.970 E	10 G		0.6	7	TANZANIA
24	00	10	22.3*	18.901 S	169.605 E	277 *	4.2	1.1	14	VANUATU ISLANDS
24	00	11	43.1*	61.016 N	151.994 W	90			28	SOUTHERN ALASKA. <AGS-P>.
24	00	13	05.3	38.872 N	21.262 E	10 G		1.1	13	GREECE. ML 3.2 (ATH).
24	00	34	39.2*	36.488 N	22.088 E	69 ?	3.6	1.2	20	SOUTHERN GREECE
24	02	04	53.6*	10.541 S	40.967 E	10 G		0.2	6	TANZANIA
24	03	59	55.5*	59.404 N	6.617 E	10 G		0.8	5	SOUTHERN NORWAY. DUR 2.7 (BER).
a 24	05	15	29.8	6.303 S	154.817 E	63	5.3	1.0	89	SOLOMON ISLANDS. Felt (IV) at Arawa and Panguna, Bougainville.
24	06	08	22.9*	58.116 N	151.135 W	46			37	KODIAK ISLAND REGION. <AGS-P>.
24	06	13	52.0*	38.936 N	26.066 E	10 G		0.8	12	AEGEAN SEA
24	06	34	12.0*	1.996 N	73.886 W	33 N		0.2	7	COLOMBIA
24	07	40	07.37	61.28 N	7.85 E	10 G		0.6	5	SOUTHERN NORWAY. DUR 2.4 (BER).
24	09	58	51.0	39.750 N	139.158 E	10 G	4.3	0.9	11	NEAR WEST COAST OF HONSHU, JAPAN
24	10	26	15.6*	33.330 S	72.208 W	56 *	4.6	1.2	26	OFF COAST OF CENTRAL CHILE
24	11	38	25.27	60.87 N	3.44 E	10 G		1.0	5	NORTH SEA. DUR 2.5 (BER).
24	11	39	03.4*	37.004 N	22.196 E	33 N		1.2	6	SOUTHERN GREECE. ML 3.5 (ATH).
24	12	02	58.8*	16.814 N	95.334 W	152 *	4.6	1.2	22	OAXACA, MEXICO
24	12	41	05.0*	53.515 N	166.672 W	100 *	4.6	1.0	11	FOX ISLANDS, ALEUTIAN ISLANDS
24	13	52	06.8*	18.450 N	146.171 E	77 *	4.9	0.7	18	MARIANA ISLANDS
24	14	19	57.17	59.41 N	6.57 E	10 G		1.3	5	SOUTHERN NORWAY. DUR 2.1 (BER).
24	15	52	45.4*	27.226 N	44.382 W	10 G	4.6 4.3	0.7	13	NORTH ATLANTIC RIDGE
24	16	39	33.3*	5.146 S	152.395 E	33 N	4.0	1.1	6	NEW BRITAIN REGION
24	16	43	56.2	41.183 N	20.259 E	10 G		1.1	11	ALBANIA. ML 3.2 (TTG).
24	17	21	17.5*	60.718 N	5.592 E	10 G		1.1	5	SOUTHERN NORWAY. DUR 1.8 (BER).
24	19	28	44.0*	32.091 S	116.634 E	33 N		1.1	5	WESTERN AUSTRALIA
24	19	29	33.4	38.930 N	25.984 E	10 G		0.4	14	AEGEAN SEA. ML 3.5 (ATH).
24	19	42	26.6	38.906 N	26.032 E	10 G		1.1	11	AEGEAN SEA
24	20	00	38.6*	37.313 N	71.375 E	33 N	4.6	0.7	9	AFGHANISTAN-USSR BORDER REGION
24	20	25	50.77	33.17 S	71.88 W	33 N		1.2	14	NEAR COAST OF CENTRAL CHILE
24	20	36	11.97	10.08 N	81.30 W	33 N		1.3	5	NORTH OF PANAMA
24	20	52	41.0	35.899 N	68.878 E	33 N	5.0	1.2	80	HINDU KUSH REGION

f	24	22 04 43.4	51.422 N	178.430 W	34 D	5.8 5.8	1.0	399	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.8 (PMR), Ms 5.6 (BRK). Felt (III) on Adak.
	24	22 53 14.2*	24.450 N	121.890 E	10 G		0.7	6	TAIWAN
	24	23 44 38.4*	26.495 S	64.439 W	33 N		1.6	5	TUCUMAN PROVINCE, ARGENTINA
	24	23 50 59.7	16.549 N	120.917 E	12	5.0	1.2	60	LUZON, PHILIPPINE ISLANDS. Felt (III RF) at Baguio and (II RF) at Santa.
	25	00 31 34.2?	33.09 S	72.36 W	33 N		0.5	10	OFF COAST OF CENTRAL CHILE
	25	01 47 06.9*	11.818 S	74.571 W	33 N	4.5	1.1	14	PERU
	25	02 58 41.4?	33.04 S	71.98 W	33 N		0.7	10	NEAR COAST OF CENTRAL CHILE
	25	03 22 01.1&	35.390 N	118.630 W	6 G			6	CENTRAL CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
	25	03 43 28.8?	2.49 N	128.11 E	33 W	4.1	0.1	6	HALMAHERA
	25	03 50 08.4?	33.46 S	71.95 W	33 N		1.3	11	NEAR COAST OF CENTRAL CHILE
	25	04 19 39.2&	35.913 N	120.517 W	10			15	CENTRAL CALIFORNIA. <BRK>. ML 3.1 (BRK), 3.3 (PAS).
	25	04 34 18.5*	40.528 N	22.351 E	13 *		0.4	7	GREECE
	25	04 35 35.2	40.542 N	22.400 E	11		0.6	8	GREECE
	25	04 55 38.9?	39.52 N	28.61 E	10 G		1.3	6	TURKEY
	25	06 43 42.3%	60.820 N	5.109 E	10 G		0.9	5	SOUTHERN NORWAY. DUR 2.2 (BER).
	25	09 40 47.5?	33.36 N	31.50 E	33 N		1.0	8	EASTERN MEDITERRANEAN SEA
	25	10 14 54.3*	15.399 S	71.732 W	167 *		0.4	7	SOUTHERN PERU
	25	10 39 57.0	46.084 N	6.840 E	10 G		0.9	39	SWITZERLAND. ML 2.9 (KBA).
	25	10 42 55.4&	31.960 N	115.880 W	6 G			5	BAJA CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
a	25	12 44 33.2	17.623 N	145.619 E	195 D	5.2	1.1	171	MARIANA ISLANDS
	25	13 02 19.2*	31.584 S	67.873 W	10 G		0.9	5	SAN JUAN PROVINCE, ARGENTINA
	25	13 46 09.8?	33.00 S	72.29 W	33 N		0.6	10	OFF COAST OF CENTRAL CHILE
	25	14 03 49.8?	26.28 S	27.45 E	5 G		1.3	5	REPUBLIC OF SOUTH AFRICA
	25	14 17 39.0	36.530 N	22.132 E	63 *	3.8	1.5	36	SOUTHERN GREECE
	25	14 24 35.5	20.919 S	178.776 W	549 *	4.9	0.8	58	FIJI ISLANDS REGION
	25	15 09 14.8?	25.05 N	121.93 E	144 ?		0.2	7	TAIWAN
	25	15 50 45.4&	33.950 N	116.650 W	13			12	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS). Felt (IV) at Desert Hot Springs, Palm Springs and Thousand Palms. Also felt at Fawnskin, Palm Desert and Rancho Mirage.
	25	16 12 05.5?	51.67 N	16.37 E	10 G		0.4	8	POLAND. ML 3.5 (GRF), 3.4 (KBA).
	25	17 13 15.7?	19.77 S	65.93 E	10 G	4.5	1.1	7	MASCARENE ISLANDS REGION
	25	17 32 14.4*	49.381 N	7.723 W	33 N		0.7	20	NORTH ATLANTIC OCEAN
	25	17 35 43.0*	4.771 S	144.721 E	33 N	3.5	1.0	6	NEAR N COAST OF PAPUA NEW GUINEA
	25	18 00 59.1?	48.57 N	2.36 W	10 G		1.0	7	FRANCE
	25	18 01 58.0*	33.442 S	71.348 W	33 N		0.4	14	NEAR COAST OF CENTRAL CHILE
	25	18 04 34.8*	11.649 S	117.500 E	33 N	3.8	0.9	9	SOUTH OF SUMBAWA ISLAND
	25	19 14 04.5?	51.63 N	16.26 E	10 G		0.3	11	POLAND. ML 3.6 (VKA), 3.5 (GRF), 3.5 (KBA).
	25	20 47 54.0*	31.604 S	67.821 W	10 G		1.1	7	SAN JUAN PROVINCE, ARGENTINA
	25	21 57 03.0*	45.516 N	26.391 E	157 ?		0.5	10	ROMANIA
	25	22 55 19.4*	2.611 N	95.299 W	10 G	4.4 4.7	1.0	21	GALAPAGOS ISLANDS REGION
a	25	23 29 21.7	54.055 N	160.992 E	46 D	5.9 5.4	0.9	341	NEAR EAST COAST OF KAMCHATKA. Ms 5.5 (BRK).
	26	00 03 55.0?	33.65 N	138.61 E	291 *	4.2	0.8	17	SOUTH OF HONSHU, JAPAN
	26	01 54 38.7*	2.225 N	95.576 W	10 G	4.2 4.9	1.2	18	GALAPAGOS ISLANDS REGION
	26	01 54 39.2*	26.766 S	26.636 E	5 G	4.8	1.5	13	REPUBLIC OF SOUTH AFRICA
	26	03 18 03.3*	7.727 S	121.424 E	70 ?	4.3	1.4	9	FLORES SEA
	26	04 24 57.4	35.561 N	140.632 E	60	4.9	1.1	69	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Choshi and (I JMA) at Tokyo.
	26	05 17 44.1*	3.819 S	128.794 E	133 *	4.7	0.9	15	CERAM
	26	05 33 56.1	31.875 N	40.696 W	10 G	4.6 4.3	0.6	39	NORTH ATLANTIC RIDGE
	26	05 38 32.4?	16.65 N	94.89 W	157 ?	3.9	0.6	9	OAXACA, MEXICO
	26	05 50 09.6	34.345 N	136.327 E	365	4.6	0.8	88	SOUTHERN HONSHU, JAPAN
	26	08 09 53.5*	40.272 N	25.736 E	10 G		0.5	5	AEGEAN SEA
	26	08 16 44.3&	61.244 N	147.293 W	26			55	SOUTHERN ALASKA. <AGS-P>. ML 3.6 (PMR).
	26	08 39 13.1?	17.12 S	179.14 W	562 *	4.6	0.4	9	FIJI ISLANDS REGION
	26	08 59 29.2*	31.150 S	179.526 W	334 *	4.3	1.4	14	KERMADEC ISLANDS REGION
	26	09 09 26.1?	39.053 N	29.998 E	10 G		1.3	7	TURKEY
	26	09 17 44.1?	28.72 N	140.31 E	77 ?	4.3	0.6	13	BONIN ISLANDS REGION
	26	10 44 08.6*	16.382 S	168.181 E	215 *	4.7	1.0	38	VANUATU ISLANDS
	26	11 27 44.9%	49.258 N	0.017 E	10 G		1.3	9	FRANCE. ML 3.0 (LDG).
	26	11 41 39.1*	2.629 N	95.533 W	10 G	4.1 4.2	0.8	11	GALAPAGOS ISLANDS REGION
	26	11 47 08.1%	40.232 N	27.091 E	10 G		0.9	5	TURKEY
	26	11 57 53.6&	38.803 N	122.332 W	2 G			14	NORTHERN CALIFORNIA. <BRK>. ML 3.1 (BRK).
	26	12 45 34.9%	39.168 N	27.610 E	10 G		0.5	5	TURKEY
	26	12 55 09.5*	15.643 S	32.008 E	10 G	4.6	0.6	5	MOZAMBIQUE
	26	13 42 27.8?	31.96 S	69.62 W	135 ?		0.2	7	SAN JUAN PROVINCE, ARGENTINA
	26	17 12 00.8&	62.056 N	148.027 W	35			36	CENTRAL ALASKA. <AGS-P>.
	26	17 14 55.2&	62.099 N	148.027 W	35			47	CENTRAL ALASKA. <AGS-P>. ML 3.4 (PMR).
	26	18 05 08.6	37.847 N	4.592 W	13	4.4 4.5	1.1	83	SPAIN. Felt (VI) at C6bra and Priego. Felt in Albacete, Almerio, Cordoba, Granada and Malaga Provinces.
	26	19 04 47.6?	39.51 N	22.88 E	10 G		0.4	7	GREECE
	26	19 07 41.0	37.884 N	4.939 W	24 *		1.0	19	SPAIN. Felt at Cordoba.
	26	19 10 45.1?	33.72 S	71.90 W	33 N		0.7	11	NEAR COAST OF CENTRAL CHILE
	26	19 29 08.7&	61.379 N	152.334 W	119			32	SOUTHERN ALASKA. <AGS-P>.
	26	19 57 01.5	6.397 S	147.439 E	49	5.0	0.7	31	EAST PAPUA NEW GUINEA REGION
	26	20 31 08.9*	15.213 N	60.588 W	33 N		0.3	7	LEEWARD ISLANDS
	26	21 38 25.5?	10.34 S	41.09 E	10 G		0.8	6	NORTHWEST OF MADAGASCAR
	26	22 19 24.3	5.630 N	126.585 E	104 *	4.9	1.1	34	MINDANAO, PHILIPPINE ISLANDS
	26	22 56 39.4*	38.982 N	89.138 E	33 N	4.1	1.4	13	SOUTHERN XINJIANG, CHINA
	27	01 01 48.6*	9.903 S	75.065 W	33 N	4.8	1.0	17	PERU
	27	02 32 35.9?	50.26 N	129.43 W	10 G	4.0	1.6	7	VANCOUVER ISLAND REGION
	27	02 58 10.5*	4.098 S	128.929 E	127 *	4.7	1.2	17	BANDA SEA
	27	04 34 50.8	10.670 S	41.231 E	10 G	4.8	1.0	38	NORTHWEST OF MADAGASCAR
	27	04 36 00.5%	38.408 N	28.173 E	10 G		1.4	8	TURKEY
a	27	06 22 22.8	15.392 N	119.911 E	65	5.1	1.0	122	LUZON, PHILIPPINE ISLANDS. Felt (IV RF) at Pasay and Manila International Airport; (III RF) at Iba, Manila and Baguio; and (II RF) at Quezon City.
	27	06 36 20.2?	33.80 S	72.05 W	33 N		0.5	6	OFF COAST OF CENTRAL CHILE
	27	06 44 51.2*	34.768 S	179.669 E	33 N	4.9	1.2	16	SOUTH OF KERMADEC ISLANDS
	27	06 57 12.5?	34.13 S	71.81 W	33 N		0.5	9	NEAR COAST OF CENTRAL CHILE
	27	07 52 41.4?	65.26 S	179.41 E	10 G	4.7	1.8	7	BALLENY ISLANDS REGION
	27	07 52 44.8*	37.806 N	4.832 W	10 G		1.2	7	SPAIN

27	10 04 43.7	51.212 N	176.561 W	33 N	4.7	1.4	60	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.5 (PMR). Felt (II) on Adok.
27	10 43 20.3*	10.222 S	40.392 E	10 G	4.3	1.5	8	TANZANIA
27	11 32 52.0	22.710 S	68.574 W	96 D	4.9	1.0	52	NORTHERN CHILE. Felt (IV) at Coloma.
27	12 31 18.2%	39.077 N	26.436 E	10 G		0.8	5	TURKEY
27	12 40 55.7*	14.014 N	92.488 W	60 *	4.4 3.7	1.3	35	NEAR COAST OF CHIAPAS, MEXICO
27	12 43 41.4*	32.743 S	71.943 W	33 N	4.5	1.4	20	NEAR COAST OF CENTRAL CHILE
27	13 03 29.7%	60.809 N	5.091 E	10 G		0.6	5	SOUTHERN NORWAY. DUR 1.9 (BER).
27	13 21 31.6?	5.35 S	102.54 E	33 N	4.2	1.3	9	SOUTHERN SUMATERA
27	15 09 57.2?	60.93 N	3.52 E	10 G		1.0	5	NORTH SEA. DUR 2.4 (BER).
27	15 28 54.4*	40.351 N	25.845 E	10 G		1.2	8	AEGEAN SEA
27	17 15 43.9	22.679 S	66.006 W	253	4.6	1.2	49	JUJUY PROVINCE, ARGENTINA
27	17 49 11.3	4.116 S	68.393 E	10 G	4.7 3.8	0.8	30	CHAGOS ARCHIPELAGO REGION
27	18 46 14.6*	1.457 S	24.488 W	10 G	4.9	1.5	19	CENTRAL MID-ATLANTIC RIDGE
27	19 52 21.2?	31.18 S	68.43 W	112 ?		0.2	6	SAN JUAN PROVINCE, ARGENTINA
27	20 19 05.8*	42.113 N	77.972 E	33 N	4.3	0.7	6	ALMA-ATA REGION
27	22 35 26.0*	31.464 S	71.778 W	33 N		0.5	15	NEAR COAST OF CENTRAL CHILE
28	00 32 09.7?	35.77 N	137.22 E	5 G		0.5	6	HONSHU, JAPAN
28	00 42 18.5%	37.530 N	118.860 W	6 G			6	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.1 (PAS).
28	00 42 23.7%	37.450 N	118.680 W	6 G			8	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.1 (PAS).
28	00 49 40.8	43.421 N	5.453 E	10 G		0.8	22	NEAR SOUTH COAST OF FRANCE. ML 3.2 (LDG).
28	01 25 01.0?	51.66 N	16.27 E	10 G		0.7	12	POLAND. ML 3.6 (VKA), 3.3 (GRF).
28	01 31 35.8*	20.492 S	178.028 W	547 *	4.5	1.3	26	FIJI ISLANDS REGION
28	01 38 06.7%	31.780 N	115.920 W	6 G			5	BAJA CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
28	01 41 58.1*	6.433 S	129.629 E	98 ?	4.4	1.2	7	BANDA SEA
28	03 48 13.6*	28.240 S	74.226 W	33 N		1.0	18	OFF COAST OF CENTRAL CHILE
28	04 00 10.7	31.717 S	139.355 E	33 N	4.5	1.1	19	SOUTH AUSTRALIA
28	04 04 35.8?	9.02 S	67.11 E	10 G	4.6	0.7	7	MID-INDIAN RISE
28	04 36 23.5	35.638 N	23.654 E	18	4.7	1.1	118	CRETE. ML 4.3 (ATH).
28	05 40 58.4*	31.427 S	67.998 W	33 N		0.9	6	SAN JUAN PROVINCE, ARGENTINA
28	05 45 09.9%	60.152 N	151.447 W	42			44	KENAI PENINSULA, ALASKA. <AGS-P>.
28	06 01 32.3*	4.984 S	30.636 E	10 G		0.7	5	LAKE TANGANYIKA REGION
28	06 45 25.7	36.209 N	71.206 E	99 *	4.8	0.9	63	AFGHANISTAN-USSR BORDER REGION
28	07 05 40.2?	32.77 S	178.91 W	33 N	4.8	1.4	11	SOUTH OF KERMADEC ISLANDS
28	07 54 37.7%	58.638 N	151.138 W	3			45	KODIAK ISLAND REGION. <AGS-P>.
28	07 56 45.8%	39.510 N	119.478 W	5 G	3.5		29	NEVADA. <BRK>. ML 4.3 (BRK). Felt (IV) at Virginia City and Silver City. Also felt (IV) at Blairsdien and Sattley, California. Felt (III) at Dayton, Sparks and Wadsworth, Nevada. Also felt at Reno, Carson City and Lockwood, Nevada.
28	08 33 56.7	36.548 N	71.084 E	211	4.8	0.7	104	AFGHANISTAN-USSR BORDER REGION
28	08 51 04.0%	60.031 N	140.830 W	5			18	SOUTHEASTERN ALASKA. <AGS-P>.
28	11 26 12.8*	1.237 S	24.526 W	10 G	4.8 4.2	1.3	36	CENTRAL MID-ATLANTIC RIDGE
28	11 37 39.5%	61.851 N	151.118 W	82			31	SOUTHERN ALASKA. <AGS-P>.
28	11 56 28.5?	33.46 S	72.27 W	33 N		0.7	12	OFF COAST OF CENTRAL CHILE
28	12 08 37.1%	60.467 N	152.044 W	78			38	SOUTHERN ALASKA. <AGS-P>.
28	14 15 26.9	36.404 N	71.290 E	118	5.3	0.9	181	AFGHANISTAN-USSR BORDER REGION. Felt (IV) at Ishkashim and Khorag, (III) at Dushanbe and (II) at Tashkent, USSR.
28	15 10 57.7?	4.63 S	149.03 E	558 *	4.6	0.4	11	BISMARCK SEA
28	15 19 16.1*	7.742 S	127.830 E	136 ?	4.4	1.2	10	BANDA SEA
28	16 12 03.8*	20.452 S	178.045 W	545 *	4.8	1.3	29	FIJI ISLANDS REGION
28	16 48 30.0*	45.726 N	10.749 E	10 G		1.1	7	NORTHERN ITALY. ML 3.1 (KBA).
28	17 11 33.6?	66.28 N	149.95 W	10 G		1.2	5	ALASKA. ML 4.0 (PMR).
28	17 49 47.0%	39.690 N	28.926 E	10 G		0.1	5	TURKEY
28	18 31 47.4%	37.550 N	118.850 W	6 G			16	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.8 (PAS), 3.4 (BRK).
28	19 19 36.8*	21.834 S	68.370 W	150 *	4.5	1.3	8	CHILE-BOLIVIA BORDER REGION
28	19 27 52.2	18.907 N	101.862 W	106	5.2	1.0	146	GUERRERO, MEXICO
28	19 54 26.1%	36.302 N	122.117 W	5 G			10	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK).
28	20 13 20.9*	32.198 S	67.901 W	10 G		1.3	5	MENDOZA PROVINCE, ARGENTINA
28	23 12 12.6*	45.441 N	10.269 E	10 G		1.0	7	NORTHERN ITALY
28	23 48 07.0	40.064 N	29.360 E	10 G		1.2	14	TURKEY
29	00 25 51.7?	20.94 S	177.79 W	517 ?	4.8	1.0	14	FIJI ISLANDS REGION
29	01 07 43.7*	33.162 S	72.389 W	33 N		1.1	19	OFF COAST OF CENTRAL CHILE
29	01 12 35.3?	33.32 S	71.77 W	33 N		1.4	15	NEAR COAST OF CENTRAL CHILE
29	01 32 00.5*	43.097 N	2.000 W	10 G		1.3	15	SPAIN. ML 3.3 (LDG). Felt (II) at Pamplona.
29	02 03 06.2	46.252 N	6.979 E	10 G		1.4	10	SWITZERLAND. ML 2.9 (LDG).
29	02 51 58.4?	51.12 N	178.41 W	33 N	4.6	1.4	17	ANDREANOF ISLANDS, ALEUTIAN IS.
29	03 42 31.4*	5.841 S	150.997 E	33 N	3.5	1.1	7	NEW BRITAIN REGION
29	04 24 57.3*	5.913 S	151.329 E	33 N	3.3	1.4	7	NEW BRITAIN REGION
29	05 36 42.8	40.395 N	26.233 E	10 G		1.0	8	TURKEY
29	06 01 36.5	46.272 N	6.831 E	9		0.8	21	SWITZERLAND. ML 3.4 (LDG), 2.7 (KBA).
29	06 21 58.5*	21.966 N	121.034 E	33 N	3.6	0.7	7	TAIWAN REGION
29	06 59 24.6	5.936 S	146.451 E	33 N	3.2	0.7	7	EAST PAPUA NEW GUINEA REGION
29	08 23 31.7?	33.89 S	71.78 W	33 N		0.6	11	NEAR COAST OF CENTRAL CHILE
29	08 52 27.3*	23.696 N	142.015 E	33 N	4.9	0.6	17	VOLCANO ISLANDS REGION
29	09 05 42.3	28.417 S	67.492 W	96 ?		1.2	19	LA RIOJA PROVINCE, ARGENTINA
29	09 27 04.3%	39.072 N	27.617 E	10 G		0.2	6	TURKEY
29	11 16 48.0*	6.087 S	147.419 E	97 *		1.4	10	EAST PAPUA NEW GUINEA REGION
29	12 23 31.9	6.300 S	146.443 E	33 N	3.2	1.1	8	EAST PAPUA NEW GUINEA REGION
29	13 38 57.3%	60.102 N	152.558 W	75			29	SOUTHERN ALASKA. <AGS-P>.
29	15 15 16.2	29.914 S	178.582 W	33 N	5.3 5.6	1.3	50	KERMADEC ISLANDS. Ms 5.7 (BRK). Felt on Raoul.
29	15 38 57.4?	29.45 S	177.14 W	33 N	4.8	1.4	10	KERMADEC ISLANDS. Felt on Raoul.
29	16 45 01.1	0.186 S	80.720 W	33 N	4.3	0.6	9	NEAR COAST OF ECUADOR
29	16 45 15.6*	34.055 S	72.631 W	33 N	4.6	1.3	15	NEAR COAST OF CENTRAL CHILE
29	17 49 30.1*	38.407 S	145.964 E	33 N		0.8	6	NEAR S.E. COAST OF AUSTRALIA
29	18 20 47.8*	13.061 N	144.772 E	98	5.1	0.7	12	MARIANA ISLANDS. Felt (III) on Guam.
29	20 52 22.9	46.315 N	7.026 E	10 G		1.4	11	SWITZERLAND. ML 2.8 (LDG).
29	20 55 25.2%	38.999 N	27.760 E	10 G		0.9	6	TURKEY
29	21 00 39.4	28.776 N	103.798 E	33 N	4.2	1.5	12	SICHUAN PROVINCE, CHINA
29	21 25 27.3*	46.358 N	7.179 E	10 G		1.1	8	SWITZERLAND. ML 2.7 (LDG).
29	22 35 42.6?	32.64 S	73.03 W	33 N		0.2	6	OFF COAST OF CENTRAL CHILE



29	23 02 34.9%	39.890 N	25.613 E	10 G	0.8	7	AEGEAN SEA
29	23 15 37.0%	30.336 N	102.902 E	33 N 4.2	1.2	6	SICHUAN PROVINCE, CHINA
30	00 40 42.1	30.807 N	98.254 E	33 N 4.8 4.5	1.1	77	TIBET
30	02 10 00.3	46.304 N	13.225 E	10 G	1.0	16	AUSTRIA. ML 3.1 (GRF), 3.0 (VKA), 2.9 (KBA), 2.9 (TRI).
30	02 45 29.7%	36.565 N	29.322 E	10 G	0.8	5	TURKEY
30	04 23 31.3%	39.169 N	29.259 E	10 G	1.6	6	TURKEY
30	04 26 13.6%	39.442 N	29.291 E	10 G	1.2	6	TURKEY
30	05 05 47.3%	23.858 N	95.179 E	33 N	0.9	6	BURMA
30	06 27 00.6%	6.356 S	153.189 E	15	4.1	11	NEW BRITAIN REGION
o 30	08 32 17.5	10.657 S	41.355 E	10 G 5.4 4.8	1.0	172	NORTHWEST OF MADAGASCAR
30	09 40 57.4	35.486 N	27.389 E	33 N	1.0	10	DODECANESE ISLANDS. ML 2.6 (ATH).
30	10 08 32.8	50.134 N	5.370 E	13	0.9	13	BELGIUM. ML 2.7 (LDG), mblg 2.2 (DOU).
30	10 43 26.8	15.380 S	72.482 W	119 4.8	1.1	44	SOUTHERN PERU
30	10 50 56.9%	40.680 N	30.138 E	10 G	0.5	5	TURKEY
30	12 04 43.7%	60.360 N	145.986 W	27		54	SOUTHERN ALASKA. <AGS-P>. ML 3.4 (PMR).
30	12 14 38.1%	30.073 S	177.532 W	56 D 5.0	1.4	44	KERMADEC ISLANDS
30	12 18 09.1	33.889 N	132.374 E	60 4.2	1.2	15	SHIKOKU, JAPAN. Felt (II JMA) at Matsuyama, Shikoku and Hirashima, Honshu. Felt (I JMA) at Kochi, Shikoku and Okayama, Honshu.
30	12 18 11.9	42.512 N	24.236 E	10 G	0.7	8	BULGARIA
30	12 45 02.1	24.303 S	67.011 W	181 D 5.0	1.2	73	CHILE-ARGENTINA BORDER REGION
o 30	13 06 21.7	49.133 N	154.094 E	150 D 5.5	0.9	264	KURIL ISLANDS
30	13 10 56.7%	36.517 N	22.079 E	22 4.0	1.2	20	SOUTHERN GREECE. ML 3.8 (ATH).
30	13 21 39.0	28.695 N	140.479 E	45 * 4.8	1.1	84	BONIN ISLANDS REGION
30	13 42 44.4	6.649 S	147.868 E	43 * 4.2	0.8	15	EAST PAPUA NEW GUINEA REGION
o 30	13 48 23.9	56.750 S	25.518 W	33 N 5.2 5.4	1.3	89	SOUTH SANDWICH ISLANDS REGION
30	14 41 41.8%	11.580 S	118.016 E	33 N 4.5	1.5	9	SOUTH OF SUMBAWA ISLAND
30	15 13 16.6	36.259 N	22.166 E	33 N 4.2	1.3	24	SOUTHERN GREECE. ML 3.7 (ATH).
30	16 54 58.7	62.036 N	150.733 W	89 4.4	0.8	55	CENTRAL ALASKA. Felt (IV) at Skwentna and Willaw. Felt (II) at Anchorage.
30	16 56 19.6	19.221 S	168.999 E	177 4.9	1.1	77	VANUATU ISLANDS
30	17 11 33.3%	45.853 N	14.423 E	10 G	1.4	5	YUGOSLAVIA. ML 2.4 (KBA).
o 30	18 47 23.6	28.798 N	140.344 E	40 5.3 5.2	1.1	142	BONIN ISLANDS REGION. Ms 5.2 (BRK).
30	18 48 12.4%	40.738 N	27.381 E	10 G	0.9	6	TURKEY
30	18 54 30.4	28.832 N	140.454 E	33 N 4.9	1.0	54	BONIN ISLANDS REGION
30	19 50 21.8	28.893 N	140.259 E	79 * 4.5	1.0	31	BONIN ISLANDS REGION
30	19 58 50.6	28.637 N	140.259 E	33 N 4.7	1.0	60	BONIN ISLANDS REGION
30	20 00 34.6	28.551 N	140.489 E	52 * 4.9 4.7	1.0	40	BONIN ISLANDS REGION
30	21 35 26.4%	28.811 N	140.383 E	80 * 4.5	0.9	10	BONIN ISLANDS REGION
30	21 41 34.3	39.689 N	20.515 E	10 G	1.0	9	GREECE-ALBANIA BORDER REGION. ML 4.0 (ATH).
30	21 54 03.0%	28.820 N	140.285 E	85 ? 4.7	0.9	16	BONIN ISLANDS REGION
30	22 17 34.2%	60.548 N	149.722 W	60		33	KENAI PENINSULA, ALASKA. <AGS-P>.
30	22 48 59.3%	40.807 N	28.079 E	10 G	0.8	6	TURKEY
30	23 20 10.8	28.774 N	140.401 E	37 * 4.6 3.8	0.9	46	BONIN ISLANDS REGION
30	23 39 22.8%	35.94 N	139.62 E	118 ?	1.5	7	NEAR S. COAST OF HONSHU, JAPAN
31	01 34 25.2	28.864 N	140.402 E	33 4.7 4.1	1.0	71	BONIN ISLANDS REGION
31	01 50 31.9	42.965 N	0.737 W	10 G	1.3	15	PYRENEES. ML 3.1 (LDG).
31	02 01 43.6	33.627 N	132.396 E	70 4.3	0.9	12	SHIKOKU, JAPAN. Felt (II JMA) at Kure, Matsuyama and Uwajima and (I JMA) at Fukuyama, Hiroshima and Oita.
31	02 42 07.9%	60.419 N	152.079 W	83		31	SOUTHERN ALASKA. <AGS-P>.
31	03 37 08.5	55.377 S	27.526 W	33 N 5.1	0.5	21	SOUTH SANDWICH ISLANDS REGION
31	03 43 58.3%	55.391 S	27.645 W	33 N 4.9	0.7	15	SOUTH SANDWICH ISLANDS REGION
31	04 13 22.8%	44.698 N	112.906 W	5 G	0.7	8	EASTERN IDAHO. ML 3.1 (BUT).
31	04 46 39.5%	24.81 N	122.07 E	109 * 3.7	0.9	8	TAIWAN REGION
31	06 00 02.6	15.852 N	92.948 W	112 * 4.8	1.1	45	MEXICO-GUATEMALA BORDER REGION
31	06 44 25.9%	31.816 S	68.492 W	33 N	1.4	5	SAN JUAN PROVINCE, ARGENTINA
31	07 09 35.0%	12.247 N	144.167 E	33 N 4.9	0.9	16	SOUTH OF MARIANA ISLANDS
o 31	07 24 34.1	12.246 N	144.280 E	32 5.5 6.0	1.3	167	SOUTH OF MARIANA ISLANDS. Ms 5.9 (BRK), 5.8 (PAS). Felt (III) on Guam.
31	07 54 26.2%	6.890 N	123.627 E	619 * 4.7	0.7	19	MINDANAO, PHILIPPINE ISLANDS
31	10 15 53.4%	32.713 N	142.298 E	41 ? 4.7	1.1	46	SOUTH OF HONSHU, JAPAN
31	10 28 33.6%	26.85 N	139.70 E	33 N 4.1	1.4	6	BONIN ISLANDS REGION
31	10 40 37.1%	42.307 N	26.073 E	10 G	1.7	5	BULGARIA
31	11 30 30.4%	31.830 N	115.810 W	6 G		8	BAJA CALIFORNIA. <PAS-P>. ML 3.9 (PAS).
31	11 39 00.7%	66.212 N	149.959 W	10 G	0.2	5	ALASKA. ML 3.6 (PMR).
31	12 55 39.0	38.884 N	25.988 E	10	1.1	13	AEGEAN SEA. ML 3.4 (ATH).
31	13 19 19.1	30.084 N	51.656 E	33 N 4.7 3.6	1.1	66	IRAN
31	14 53 35.0%	27.924 N	127.772 E	13 4.0	1.2	12	RYUKYU ISLANDS
31	15 07 27.5%	39.105 N	122.028 W	10 G		15	NORTHERN CALIFORNIA. <BRK>. ML 2.7 (BRK). Felt (II) at Williams.
31	15 17 10.8%	23.985 N	122.584 E	33 N 4.2	1.5	17	TAIWAN REGION
31	15 26 53.0%	40.072 N	28.907 E	10 G	0.8	10	TURKEY
31	15 35 06.0	43.294 N	21.048 E	10 G	0.7	23	YUGOSLAVIA. ML 3.3 (TTG).
31	15 39 04.9%	31.19 S	71.04 W	33 N	1.4	11	NEAR COAST OF CENTRAL CHILE
31	18 16 02.1%	33.90 S	71.94 W	33 N	0.7	10	NEAR COAST OF CENTRAL CHILE
31	18 16 30.1%	60.804 N	5.008 E	10 G	1.0	5	SOUTHERN NORWAY. DUR 1.8 (BER).
31	18 55 28.0	38.219 N	23.201 E	10 G 3.9	0.7	15	GREECE. ML 3.8 (ATH).
31	19 10 35.3%	12.14 N	144.40 E	33 N	1.1	6	SOUTH OF MARIANA ISLANDS
31	19 42 47.5%	19.999 S	173.725 W	33 N 4.9 4.5	1.2	31	TONGA ISLANDS
31	20 16 34.7%	54.24 S	135.98 W	10 G 4.8	1.4	8	SOUTH PACIFIC CORDILLERA
31	20 26 56.6%	35.930 N	118.310 W	6 G		5	CENTRAL CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
31	20 34 44.3%	39.091 N	28.152 E	10 G	0.8	6	TURKEY
31	21 06 35.1%	15.811 S	178.876 E	33 N	1.2	12	FIJI ISLANDS
31	21 06 51.9%	27.543 N	127.761 E	70 * 4.7	1.3	17	RYUKYU ISLANDS
31	21 18 03.7%	8.654 S	147.876 E	110 *	1.5	6	EAST PAPUA NEW GUINEA REGION
31	22 38 25.1%	42.257 N	80.619 E	33 N 4.4	1.5	11	KIRGHIZ-XINJIANG BORDER REGION
31	23 39 04.3%	52.18 N	172.03 E	33 N 4.4	1.1	13	NEAR ISLANDS, ALEUTIAN ISLANDS

## ADDITIONAL SOURCE PARAMETERS

01 13 27 56.14 9.196S 71.230W 600km  
 6.0mb (115 obs.)  
 PERU-BRAZIL BORDER REGION  
 FAULT PLANE SOLUTION: P-Waves  
 NP1:Strike= 8 Dip=33 Slip=-68  
 NP2: 162 60 -104  
 Principal Axes:  
 T P1g=14 Azm=262  
 P 72 40  
 Comment: The focal mechanism is moderately well controlled and corresponds to normal faulting with a small strike-slip component. The preferred fault plane is not determined.  
 MOMENT TENSOR SOLUTION  
 Dep 592 No. of sta: 12  
 Principal Axes:  
 Scale 10\*\*25 d-cm  
 T Val= 10.34 P1g=11 Azm=252  
 N -2.05 0 342  
 P -8.29 79 72  
 Best Double Couple:Mo=9.3\*10\*\*25  
 NP1:Strike=341 Dip=34 Slip=-90  
 NP2: 162 56 -90  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 16S, 39C M.W.: 11S, 24C  
 Centroid Location:  
 Origin Time 13:28: 2.3 0.2  
 Lat 9.12S 0.01 Lon 71.15W 0.02  
 Dep 615.9 1.2 Half-duration 7.2  
 Principal Axes:  
 Scale 10\*\*25 D-CM  
 T Val= 8.10 P1g=16 Azm=261  
 N 0.31 1 351  
 P -8.41 74 85  
 Best Double Couple:Mo=8.3\*10\*\*25  
 NP1:Strike=349 Dip=29 Slip=-92  
 NP2: 172 61 -89

02 08 55 16.31 48.871N 156.329E 43km  
 5.9mb ( 83 obs.) 6.4Msz ( 27 obs.)  
 KURIL ISLANDS REGION  
 FAULT PLANE SOLUTION: P-Waves  
 NP1:Strike= 35 Dip=80 Slip= 90  
 NP2: 215 10 90  
 Principal Axes:  
 T P1g=55 Azm=305  
 P 35 125  
 Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.  
 MOMENT TENSOR SOLUTION  
 Dep 14 No. of sta: 19  
 Principal Axes:  
 Scale 10\*\*25 d-cm  
 T Val= 3.67 P1g=56 Azm=321  
 N 0.00 13 210  
 P -3.68 30 112  
 Best Double Couple:Mo=3.7\*10\*\*25  
 NP1:Strike=167 Dip=19 Slip= 45  
 NP2: 33 77 103  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 14S, 28C  
 Centroid Location:  
 Origin Time 08:55:20.4 0.2  
 Lat 48.69N 0.03 Lon 156.36E 0.04  
 Dep 10.0 FIX Half-duration 5.4  
 Principal Axes:  
 Scale 10\*\*25 D-CM  
 T Val= 3.77 P1g=64 Azm=302  
 N 0.14 3 38  
 P -3.91 26 129  
 Best Double Couple:Mo=3.8\*10\*\*25  
 NP1:Strike=226 Dip=19 Slip= 99  
 NP2: 37 71 87

02 15 56 32.46 1.565N 126.416E 46km  
 5.3mb ( 24 obs.) 4.9Msz ( 1 obs.)  
 MOLUCCA PASSAGE  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 10S, 18C  
 Centroid Location:  
 Origin Time 15:56:32.2 1.0  
 Lat 1.77N 0.08 Lon 126.27E 0.09

Dep 37.8 5.3 Half-duration 2.1  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 2.90 P1g=69 Azm=207  
 N -0.46 17 347  
 P -2.43 13 81  
 Best Double Couple:Mo=2.7\*10\*\*24  
 NP1:Strike=192 Dip=35 Slip= 120  
 NP2: 337 60 71

02 19 57 15.53 19.164N 145.780E 116km  
 5.2mb ( 36 obs.)  
 MARIANA ISLANDS  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 8S, 16C  
 Centroid Location:  
 Origin Time 19:57:17.1 0.6  
 Lat 19.05N 0.06 Lon 145.97E 0.08  
 Dep 113.4 4.7 Half-duration 1.6  
 Principal Axes:  
 Scale 10\*\*23 D-CM  
 T Val= 8.58 P1g=21 Azm=179  
 N 1.66 30 282  
 P -10.23 52 60  
 Best Double Couple:Mo=9.4\*10\*\*23  
 NP1:Strike=228 Dip=36 Slip=-149  
 NP2: 113 73 -58

03 07 02 53.44 11.853N 86.930W 88km  
 5.1mb ( 46 obs.)  
 NEAR COAST OF NICARAGUA  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 16S, 30C  
 Centroid Location:  
 Origin Time 07:02:53.0 0.3  
 Lat 11.68N 0.04 Lon 87.45W 0.04  
 Dep 43.2 2.3 Half-duration 3.2  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 5.53 P1g=68 Azm= 67  
 N 2.88 14 300  
 P -8.41 17 206  
 Best Double Couple:Mo=7.0\*10\*\*24  
 NP1:Strike=275 Dip=30 Slip= 62  
 NP2: 127 64 106

03 15 28 33.90 9.276S 71.271W 603km  
 5.1mb ( 67 obs.)  
 PERU-BRAZIL BORDER REGION  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 14S, 25C  
 Centroid Location:  
 Origin Time 15:28:38.6 0.6  
 Lat 9.12S 0.05 Lon 70.99W 0.07  
 Dep 605.8 4.2 Half-duration 1.6  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 0.88 P1g=13 Azm=235  
 N 0.31 12 328  
 P -1.18 72 99  
 Best Double Couple:Mo=1.0\*10\*\*24  
 NP1:Strike=310 Dip=34 Slip=-112  
 NP2: 155 59 -76

04 00 04 22.24 6.315S 154.994E 72km  
 5.3mb ( 13 obs.)  
 SOLOMON ISLANDS  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 11S, 18C  
 Centroid Location:  
 Origin Time 00:04:25.6 0.6  
 Lat 6.75S 0.08 Lon 155.11E 0.09  
 Dep 57.6 6.3 Half-duration 1.4  
 Principal Axes:  
 Scale 10\*\*23 D-CM  
 T Val= 4.93 P1g=67 Azm=133  
 N -0.61 23 313  
 P -4.32 0 43  
 Best Double Couple:Mo=4.6\*10\*\*23  
 NP1:Strike=154 Dip=49 Slip= 121  
 NP2: 291 49 59

06 03 04 22.71 30.885N 70.269E 37km  
 5.6mb ( 81 obs.) 5.5Msz ( 14 obs.)  
 PAKISTAN  
 CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN  
 L.P.B.: 16S, 29C  
 Centroid Location:  
 Origin Time 03:04:28.5 0.2  
 Lat 30.53N 0.04 Lon 70.54E 0.04  
 Dep 15.0 FIX Half-duration 2.8  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 7.68 P1g=59 Azm=291  
 N -0.27 2 24  
 P -7.41 31 115  
 Best Double Couple:Mo=7.5\*10\*\*24  
 NP1:Strike=211 Dip=14 Slip= 98  
 NP2: 23 76 88

06 07 33 58.41 36.407S 98.86BW 10km  
 5.2mb ( 19 obs.) 5.1Msz ( 3 obs.)  
 SOUTHERN PACIFIC OCEAN  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 14S, 29C  
 Centroid Location:  
 Origin Time 07:34: 4.2 0.2  
 Lat 36.23S 0.03 Lon 98.90W 0.04  
 Dep 10.0 FIX Half-duration 2.5  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 3.88 P1g= 5 Azm= 47  
 N -0.32 85 247  
 P -3.56 2 137  
 Best Double Couple:Mo=3.7\*10\*\*24  
 NP1:Strike=182 Dip=85 Slip= 2  
 NP2: 92 88 175

06 17 10 02.93 37.498S 179.452E 30km  
 5.8mb ( 32 obs.) 6.1Msz ( 12 obs.)  
 OFF E. COAST OF N. ISLAND, N.Z.  
 FAULT PLANE SOLUTION: P-Waves  
 NP1:Strike=257 Dip=75 Slip=-140  
 NP2: 155 52 -19  
 Principal Axes:  
 T P1g=15 Azm= 21  
 P 38 123  
 Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting with a large normal component. The preferred fault plane is not determined.  
 MOMENT TENSOR SOLUTION  
 Dep 16 No. of sta: 10  
 Principal Axes:  
 Scale 10\*\*25 d-cm  
 T Val= 2.02 P1g=20 Azm=325  
 N 0.02 23 226  
 P -2.04 59 91  
 Best Double Couple:Mo=2.0\*10\*\*25  
 NP1:Strike= 89 Dip=32 Slip=-42  
 NP2: 216 69 -115  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 15S, 29C  
 Centroid Location:  
 Origin Time 17:10: 8.1 0.2  
 Lat 37.55S 0.02 Lon 179.84E 0.04  
 Dep 10.0 FIX Half-duration 4.7  
 Principal Axes:  
 Scale 10\*\*25 D-CM  
 T Val= 2.60 P1g=14 Azm=311  
 N -0.24 23 47  
 P -2.35 63 193  
 Best Double Couple:Mo=2.5\*10\*\*25  
 NP1:Strike= 13 Dip=37 Slip=-130  
 NP2: 240 62 -64

08 08 12 52.01 57.659S 25.135W 33km  
 5.3mb ( 5 obs.) 4.6Msz ( 2 obs.)  
 SOUTH SANDWICH ISLANDS REGION  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 13S, 22C  
 Centroid Location:  
 Origin Time 08:13: 0.1 0.6  
 Lat 57.82S 0.07 Lon 25.24W 0.12  
 Dep 10.0 FIX Half-duration 1.8  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 1.78 P1g=63 Azm=278  
 N 0.20 9 168  
 P -1.98 25 74

Best Double Couple: Mo=1.9\*10\*\*24  
 NP1: Strike=144 Dip=22 Slip= 64  
 NP2: 352 70 100

08 13 30 33.25 62.844S 155.692E 10km  
 4.9mb ( 3 obs.) 5.0Msz ( 1 obs.)  
 BALLENY ISLANDS REGION  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 12S, 24C  
 Centroid Location:  
 Origin Time 13:30:43.1 0.2  
 Lat 62.88S 0.05 Lon 155.27E 0.08  
 Dep 10.0 FIX Half-duration 2.4  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 3.01 Plg= 2 Azm=199  
 N 0.84 70 104  
 P -3.85 20 290  
 Best Double Couple: Mo=3.4\*10\*\*24  
 NP1: Strike=333 Dip=74 Slip= -13  
 NP2: 67 78 -164

08 17 10 41.28 30.910N 70.310E 33km  
 5.4mb ( 46 obs.) 4.9Msz ( 3 obs.)  
 PAKISTAN  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 10S, 20C  
 Centroid Location:  
 Origin Time 17:10:44.9 0.5  
 Lat 30.67N 0.06 Lon 70.62E 0.06  
 Dep 33.0 FIX Half-duration 1.8  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 1.62 Plg=66 Azm=299  
 N 0.10 0 30  
 P -1.72 24 120  
 Best Double Couple: Mo=1.7\*10\*\*24  
 NP1: Strike=211 Dip=21 Slip= 91  
 NP2: 30 69 90

09 05 43 25.04 1.337S 67.677E 10km  
 5.2mb ( 42 obs.) 5.3Msz ( 5 obs.)  
 CARLSBERG RIDGE  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 13S, 26C  
 Centroid Location:  
 Origin Time 05:43:31.4 0.3  
 Lat 1.00S 0.03 Lon 67.45E 0.02  
 Dep 10.0 FIX Half-duration 2.9  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 6.77 Plg= 5 Azm=259  
 N -1.47 75 7  
 P -5.30 15 168  
 Best Double Couple: Mo=6.0\*10\*\*24  
 NP1: Strike=304 Dip=76 Slip= -173  
 NP2: 213 83 -14

09 18 22 48.46 2.356N 126.777E 33km  
 5.5mb ( 32 obs.) 5.7Msz ( 1 obs.)  
 MOLUCCA PASSAGE  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 11S, 22C  
 Centroid Location:  
 Origin Time 18:22:53.0 0.6  
 Lat 2.59N 0.09 Lon 126.61E 0.12  
 Dep 32.1 4.5 Half-duration 2.4  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 2.83 Plg=69 Azm=140  
 N 0.12 0 49  
 P -2.95 21 319  
 Best Double Couple: Mo=2.9\*10\*\*24  
 NP1: Strike= 49 Dip=24 Slip= 89  
 NP2: 229 66 90

09 19 05 21.59 51.465N 177.913E 33km  
 5.7mb ( 86 obs.) 6.0Msz ( 33 obs.)  
 RAT ISLANDS, ALEUTIAN ISLANDS  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 13S, 29C  
 Centroid Location:  
 Origin Time 19:05:25.2 0.2  
 Lat 51.36N 0.03 Lon 177.99E 0.05  
 Dep 25.1 1.7 Half-duration 5.1  
 Principal Axes:  
 Scale 10\*\*25 D-CM  
 T Val= 2.73 Plg=56 Azm=314

N 0.16 14 66  
 P -2.89 30 164  
 Best Double Couple: Mo=2.8\*10\*\*25  
 NP1: Strike=291 Dip=19 Slip= 137  
 NP2: 63 77 76

10 15 35 50.59 5.599S 151.045E 27km  
 6.3mb ( 36 obs.) 7.1Msz ( 25 obs.)  
 NEW BRITAIN REGION  
 FAULT PLANE SOLUTION: P-Waves  
 NP1: Strike=188 Dip=80 Slip= -175  
 NP2: 97 85 -10  
 Principal Axes:  
 T Plg= 4 Azm=143  
 P 11 52  
 Comment: The focal mechanism is well controlled and corresponds to strike-slip faulting with a small reverse component. The preferred fault plane is not determined.  
 MOMENT TENSOR SOLUTION  
 Dep 22 No. of sta: 9  
 Principal Axes:  
 Scale 10\*\*26 d-cm  
 T Val= 6.31 Plg= 1 Azm=142  
 N 0.18 85 40  
 P -6.49 5 232  
 Best Double Couple: Mo=6.4\*10\*\*26  
 NP1: Strike=277 Dip=85 Slip= -3  
 NP2: 7 87 -175  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 7S, 17C M.W.: 15S, 45C  
 Centroid Location:  
 Origin Time 15:36: 1.4 0.2  
 Lat 5.68S 0.01 Lon 150.97E 0.01  
 Dep 25.4 0.8 Half-duration 14.8  
 Principal Axes:  
 Scale 10\*\*26 D-CM  
 T Val= 5.92 Plg= 7 Azm=147  
 N 2.01 64 251  
 P -7.93 25 53  
 Best Double Couple: Mo=6.9\*10\*\*26  
 NP1: Strike=193 Dip=67 Slip= -166  
 NP2: 97 77 -23

11 10 40 39.65 37.092N 141.426E 56km  
 5.5mb ( 84 obs.)  
 NEAR EAST COAST OF HONSHU, JAPAN  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 11S, 16C  
 Centroid Location:  
 Origin Time 10:40:44.5 1.0  
 Lat 37.01N 0.11 Lon 141.19E 0.11  
 Dep 58.0 9.2 Half-duration 1.4  
 Principal Axes:  
 Scale 10\*\*23 D-CM  
 T Val= 6.21 Plg=73 Azm=270  
 N 3.10 4 11  
 P -9.31 17 102  
 Best Double Couple: Mo=7.8\*10\*\*23  
 NP1: Strike=198 Dip=28 Slip= 97  
 NP2: 9 62 86

11 12 45 00.33 2.047N 101.121W 10km  
 4.7mb ( 9 obs.) 4.7Msz ( 3 obs.)  
 EAST CENTRAL PACIFIC OCEAN  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 14S, 23C  
 Centroid Location:  
 Origin Time 12:45: 2.8 0.6  
 Lat 1.92N 0.06 Lon 101.19W 0.08  
 Dep 10.0 FIX Half-duration 1.7  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 1.29 Plg=21 Azm=345  
 N 0.13 62 207  
 P -1.42 17 82  
 Best Double Couple: Mo=1.4\*10\*\*24  
 NP1: Strike=125 Dip=62 Slip= 3  
 NP2: 33 87 152

13 08 49 03.22 51.466N 175.760E 33km  
 5.4mb ( 55 obs.) 4.8Msz ( 7 obs.)  
 RAT ISLANDS, ALEUTIAN ISLANDS  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 11S, 21C  
 Centroid Location:  
 Origin Time 08:49: 7.3 0.5

Lat 52.20N 0.05 Lon 175.40E 0.12  
 Dep 13.6 3.6 Half-duration 1.7  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 1.28 Plg=70 Azm= 58  
 N -0.05 14 287  
 P -1.23 15 193  
 Best Double Couple: Mo=1.3\*10\*\*24  
 NP1: Strike=264 Dip=33 Slip= 64  
 NP2: 114 61 106

13 10 40 59.93 32.975N 132.509E 44km  
 5.7mb ( 87 obs.) 5.2Msz ( 7 obs.)  
 SHIKOKU, JAPAN  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 11S, 22C  
 Centroid Location:  
 Origin Time 10:41: 4.1 0.4  
 Lat 32.83N 0.05 Lon 132.52E 0.06  
 Dep 38.9 3.7 Half-duration 2.2  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 2.57 Plg=13 Azm=279  
 N -0.05 7 11  
 P -2.52 75 128  
 Best Double Couple: Mo=2.6\*10\*\*24  
 NP1: Strike= 0 Dip=33 Slip= -103  
 NP2: 195 58 -82

14 13 24 57.83 10.610S 41.423E 10km  
 6.0mb ( 68 obs.) 5.5Msz ( 15 obs.)  
 NORTHWEST OF MADAGASCAR  
 FAULT PLANE SOLUTION: P-Waves  
 NP1: Strike=177 Dip=73 Slip= -90  
 NP2: 357 17 -90  
 Principal Axes:  
 T Plg=28 Azm=267  
 P 62 87  
 Comment: The focal mechanism is poorly controlled and corresponds to normal faulting. The preferred fault plane is not determined.  
 MOMENT TENSOR SOLUTION  
 Dep 28 No. of sta: 4  
 Principal Axes:  
 Scale 10\*\*25 d-cm  
 T Val= 1.19 Plg=12 Azm= 83  
 N -0.06 29 346  
 P -1.14 58 192  
 Best Double Couple: Mo=1.2\*10\*\*25  
 NP1: Strike=205 Dip=42 Slip= -43  
 NP2: 330 63 -123  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 11S, 24C  
 Centroid Location:  
 Origin Time 13:25: 5.8 0.3  
 Lat 10.27S 0.04 Lon 41.54E 0.03  
 Dep 10.0 FIX Half-duration 3.6  
 Principal Axes:  
 Scale 10\*\*25 D-CM  
 T Val= 1.19 Plg= 4 Azm= 74  
 N -0.08 14 343  
 P -1.11 76 180  
 Best Double Couple: Mo=1.1\*10\*\*25  
 NP1: Strike=178 Dip=43 Slip= -70  
 NP2: 331 51 -108

14 18 11 08.95 10.562S 41.424E 10km  
 6.4mb ( 61 obs.) 6.0Msz ( 19 obs.)  
 NORTHWEST OF MADAGASCAR  
 FAULT PLANE SOLUTION: P-Waves  
 NP1: Strike=353 Dip=72 Slip= -22  
 NP2: 90 69 -161  
 Principal Axes:  
 T Plg= 2 Azm= 42  
 P 28 311  
 Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting with a moderate normal component. The preferred fault plane is not determined.  
 MOMENT TENSOR SOLUTION  
 Dep 32 No. of sta: 4  
 Principal Axes:  
 Scale 10\*\*25 d-cm  
 T Val= 4.29 Plg=25 Azm= 26  
 N 0.05 3 118  
 P -4.34 0.1

Best Double Couple: Mo=4.3\*10\*\*25  
 NP1: Strike=110 Dip=20 Slip= -99  
 NP2: 299 70 -87  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 13S, 32C M.W.: 13S, 23C  
 Centroid Location:  
 Origin Time 18:11:16.7 0.2  
 Lat 10.26S 0.02 Lon 41.36E 0.01  
 Dep 13.9 0.7 Half-duration 5.3  
 Principal Axes:  
 Scale 10\*\*25 D-CM  
 T Val= 3.28 Plg=11 Azm= 79  
 N 0.00 1 349  
 P -3.28 79 255  
 Best Double Couple: Mo=3.3\*10\*\*25  
 NP1: Strike=170 Dip=34 Slip= -89  
 NP2: 348 56 -91

15 02 52 31.67 51.792S 28.263E 10km  
 5.5mb ( 20 obs.) 5.4Msz ( 1 obs.)  
 SOUTH OF AFRICA  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 14S, 28C  
 Centroid Location:  
 Origin Time 02:52:38.0 0.4  
 Lat 51.84S FIX; Lon 28.23E FIX  
 Dep 10.0 FIX Half-duration 2.6  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 4.31 Plg= 6 Azm=336  
 N -0.34 69 229  
 P -3.96 20 68  
 Best Double Couple: Mo=4.1\*10\*\*24  
 NP1: Strike=110 Dip=71 Slip= -10  
 NP2: 204 81 -161

15 20 12 45.81 56.637S 25.330W 33km  
 5.8mb ( 18 obs.) 6.3Msz ( 24 obs.)  
 SOUTH SANDWICH ISLANDS REGION  
 FAULT PLANE SOLUTION: P-Waves  
 NP1: Strike=335 Dip=75 Slip= 90  
 NP2: 155 15 90  
 Principal Axes:  
 T Plg=60 Azm=245  
 P 30 65  
 Comment: The focal mechanism is  
 poorly controlled and  
 corresponds to reverse  
 faulting. The preferred fault  
 plane is NP2.  
 MOMENT TENSOR SOLUTION  
 Dep 8 No. of sta: 6  
 Principal Axes:  
 Scale 10\*\*25 d-cm  
 T Val= 6.17 Plg=62 Azm=239  
 N 0.05 13 123  
 P -6.23 24 26  
 Best Double Couple: Mo=6.2\*10\*\*25  
 NP1: Strike= 90 Dip=24 Slip= 55  
 NP2: 307 71 104  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 18S, 36C  
 Centroid Location:  
 Origin Time 20:12:52.9 0.2  
 Lat 56.62S 0.02 Lon 25.50W 0.04  
 Dep 10.0 FIX Half-duration 6.1  
 Principal Axes:  
 Scale 10\*\*25 D-CM  
 T Val= 5.65 Plg=65 Azm=292  
 N 0.24 15 168  
 P -5.89 20 73  
 Best Double Couple: Mo=5.8\*10\*\*25  
 NP1: Strike=139 Dip=28 Slip= 58  
 NP2: 355 66 106

16 00 22 03.96 56.593S 25.308W 33km  
 5.1mb ( 8 obs.) 5.1Msz ( 1 obs.)  
 SOUTH SANDWICH ISLANDS REGION  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 11S, 23C  
 Centroid Location:  
 Origin Time 00:22:11.9 0.7  
 Lat 56.50S 0.08 Lon 25.17W 0.15  
 Dep 10.0 FIX Half-duration 2.1  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 2.08 Plg=70 Azm=330  
 N -0.12 20 157  
 P -1.96 2 66

Best Double Couple: Mo=2.0\*10\*\*24  
 NP1: Strike=136 Dip=46 Slip= 62  
 NP2: 354 50 116

16 14 20 25.16 29.081S 77.735E 10km  
 5.9mb ( 57 obs.) 6.0Msz ( 22 obs.)  
 MID-INDIAN RISE  
 FAULT PLANE SOLUTION: P-Waves  
 NP1: Strike= 8 Dip=70 Slip= -90  
 NP2: 188 20 -90  
 Principal Axes:  
 T Plg=25 Azm= 98  
 P 65 278  
 Comment: The focal mechanism is  
 poorly controlled and  
 corresponds to normal  
 faulting. The preferred fault  
 plane is not determined.  
 MOMENT TENSOR SOLUTION  
 Dep 7 No. of sta: 10  
 Principal Axes:  
 Scale 10\*\*25 d-cm  
 T Val= 3.73 Plg=10 Azm=109  
 N -0.02 8 18  
 P -3.71 77 250  
 Best Double Couple: Mo=3.7\*10\*\*25  
 NP1: Strike=209 Dip=36 Slip= -77  
 NP2: 12 55 -99  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 18S, 43C  
 Centroid Location:  
 Origin Time 14:20:34.4 0.2  
 Lat 29.13S 0.03 Lon 77.81E 0.03  
 Dep 10.0 FIX Half-duration 5.4  
 Principal Axes:  
 Scale 10\*\*25 D-CM  
 T Val= 3.68 Plg= 4 Azm=130  
 N -0.23 20 39  
 P -3.45 69 232  
 Best Double Couple: Mo=3.6\*10\*\*25  
 NP1: Strike=241 Dip=44 Slip= -60  
 NP2: 22 53 -116

17 00 37 21.96 30.150S 177.916W 33km  
 5.3mb ( 11 obs.)  
 KERMADEC ISLANDS  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 11S, 17C  
 Centroid Location:  
 Origin Time 00:37:28.7 0.7  
 Lat 30.23S 0.11 Lon 177.78W 0.08  
 Dep 49.3 7.7 Half-duration 1.5  
 Principal Axes:  
 Scale 10\*\*23 D-CM  
 T Val= 7.19 Plg=62 Azm=216  
 N 0.72 20 349  
 P -7.91 19 86  
 Best Double Couple: Mo=7.6\*10\*\*23  
 NP1: Strike=205 Dip=32 Slip= 130  
 NP2: 340 66 68

17 02 44 07.89 34.273S 72.473W 33km  
 5.1mb ( 19 obs.) 5.1Msz ( 3 obs.)  
 NEAR COAST OF CENTRAL CHILE  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 13S, 24C  
 Centroid Location:  
 Origin Time 02:44:10.4 0.6  
 Lat 34.19S 0.07 Lon 72.59W 0.09  
 Dep 36.1 4.9 Half-duration 1.8  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 1.45 Plg=56 Azm= 44  
 N 0.10 25 177  
 P -1.55 22 278  
 Best Double Couple: Mo=1.5\*10\*\*24  
 NP1: Strike= 46 Dip=32 Slip= 143  
 NP2: 168 71 63

17 13 00 00.46 5.253S 151.907E 63km  
 5.3mb ( 23 obs.)  
 NEW BRITAIN REGION  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 11S, 25C  
 Centroid Location:  
 Origin Time 13:00: 2.4 0.5  
 Lat 5.73S 0.06 Lon 151.80E 0.08  
 Dep 51.0 6.1 Half-duration 1.7  
 Principal Axes:

Scale 10\*\*24 D-CM  
 T Val= 1.05 Plg=74 Azm= 24  
 N 0.29 9 262  
 P -1.34 14 169  
 Best Double Couple: Mo=1.2\*10\*\*24  
 NP1: Strike=247 Dip=32 Slip= 73  
 NP2: 87 59 100

18 16 59 13.87 19.000S 69.053W 110km  
 5.5mb ( 64 obs.)  
 NORTHERN CHILE  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 15S, 38C  
 Centroid Location:  
 Origin Time 16:59:20.5 0.2  
 Lat 19.05S 0.03 Lon 69.57W 0.03  
 Dep 126.0 1.4 Half-duration 3.4  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 11.51 Plg=30 Azm= 92  
 N -4.03 20 350  
 P -7.48 53 231  
 Best Double Couple: Mo=9.5\*10\*\*24  
 NP1: Strike=226 Dip=24 Slip= -32  
 NP2: 346 78 -111

19 07 07 46.19 33.894S 72.287W 33km  
 5.2mb ( 21 obs.) 5.3Msz ( 3 obs.)  
 OFF COAST OF CENTRAL CHILE  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 16S, 29C  
 Centroid Location:  
 Origin Time 07:07:48.8 0.3  
 Lat 34.00S 0.04 Lon 72.54W 0.05  
 Dep 37.5 2.7 Half-duration 2.3  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 2.22 Plg=72 Azm= 79  
 N 0.44 6 188  
 P -2.66 17 280  
 Best Double Couple: Mo=2.4\*10\*\*24  
 NP1: Strike= 20 Dip=28 Slip= 103  
 NP2: 185 62 83

19 08 07 48.21 53.611N 160.526E 63km  
 6.1mb ( 88 obs.)  
 NEAR EAST COAST OF KAMCHATKA  
 MOMENT TENSOR SOLUTION  
 Dep 38 No. of sta: 16  
 Principal Axes:  
 Scale 10\*\*24 d-cm  
 T Val= 7.71 Plg=58 Azm=285  
 N 0.63 27 68  
 P -8.35 16 167  
 Best Double Couple: Mo=8.0\*10\*\*24  
 NP1: Strike=290 Dip=37 Slip= 138  
 NP2: 56 66 61  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 14S, 30C  
 Centroid Location:  
 Origin Time 08:07:51.9 0.2  
 Lat 53.37N 0.02 Lon 160.79E 0.04  
 Dep 46.8 1.9 Half-duration 3.1  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 5.74 Plg=74 Azm=287  
 N 1.12 5 33  
 P -6.86 16 125  
 Best Double Couple: Mo=6.3\*10\*\*24  
 NP1: Strike=221 Dip=30 Slip= 99  
 NP2: 31 61 85

19 18 09 15.60 30.253S 71.329W 39km  
 5.9mb ( 67 obs.) 6.0Msz ( 30 obs.)  
 NEAR COAST OF CENTRAL CHILE  
 FAULT PLANE SOLUTION: P-Waves  
 NP1: Strike=173 Dip=72 Slip= 82  
 NP2: 17 20 113  
 Principal Axes:  
 T Plg=62 Azm= 71  
 P 27 269  
 Comment: The focal mechanism is  
 moderately well controlled and  
 corresponds to reverse  
 faulting with a small right-  
 lateral strike-slip component.  
 The preferred fault plane is  
 NP2.  
 MOMENT TENSOR SOLUTION  
 Dep 45 No. of sta: 15

Principal Axes:  
Scale 10\*\*25 d-cm  
T Val= 3.57 Plg=75 Azm= 98  
N 0.06 2 2  
P -3.63 15 272  
Best Double Couple:Mo=3.6\*10\*\*25  
NP1:Strike=360 Dip=30 Slip= 87  
NP2: 183 60 92  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 16S, 39C  
Centroid Location:  
Origin Time 18:09:21.8 0.2  
Lat 30.38S 0.02 Lon 71.81W 0.02  
Dep 46.1 1.2 Half-duration 4.7  
Principal Axes:  
Scale 10\*\*25 D-CM  
T Val= 2.50 Plg=79 Azm= 66  
N 0.12 3 174  
P -2.62 10 265  
Best Double Couple:Mo=2.6\*10\*\*25  
NP1:Strike=359 Dip=35 Slip= 96  
NP2: 172 55 86

20 05 44 42.45 56.971S 26.590W 145km  
5.6mb ( 14 obs.)  
SOUTH SANDWICH ISLANDS REGION  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 13S, 25C  
Centroid Location:  
Origin Time 05:44:47.9 1.1  
Lat 57.00S 0.11 Lon 27.23W 0.21  
Dep 137.9 4.1 Half-duration 1.5  
Principal Axes:  
Scale 10\*\*23 D-CM  
T Val= 7.93 Plg=56 Azm=225  
N 0.77 7 325  
P -8.70 33 60  
Best Double Couple:Mo=8.3\*10\*\*23  
NP1:Strike=174 Dip=14 Slip= 119  
NP2: 324 78 83

20 15 11 40.68 35.489N 87.173E 33km  
5.2mb ( 50 obs.) 6.1Msz ( 7 obs.)  
TIBET  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 16S, 35C  
Centroid Location:  
Origin Time 15:11:47.0 0.3  
Lat 35.62N 0.04 Lon 87.18E 0.04  
Dep 33.0 FIX Half-duration 3.1  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 6.35 Plg= 9 Azm=112  
N -0.53 81 283  
P -5.82 1 21  
Best Double Couple:Mo=6.1\*10\*\*24  
NP1:Strike=156 Dip=83 Slip= 175  
NP2: 247 85 7

21 19 12 53.24 0.292N 121.518E 184km  
5.4mb ( 37 obs.)  
MINAHASSA PENINSULA  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 13S, 21C  
Centroid Location:  
Origin Time 19:12:52.8 1.0  
Lat 0.29N 0.08 Lon 121.34E 0.13  
Dep 149.2 4.0 Half-duration 1.5  
Principal Axes:  
Scale 10\*\*23 D-CM  
T Val= 10.34 Plg=73 Azm= 53  
N 0.10 2 151  
P -10.44 17 241  
Best Double Couple:Mo=1.0\*10\*\*24  
NP1:Strike=335 Dip=28 Slip= 95  
NP2: 150 62 87

22 03 27 19.24 47.493S 13.499W 10km  
5.1mb ( 13 obs.)  
SOUTH ATLANTIC RIDGE  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 15S, 29C  
Centroid Location:  
Origin Time 03:27:24.9 0.5  
Lat 47.49S FIX;Lon 13.50W FIX  
Dep 10.0 FIX Half-duration 1.7  
Principal Axes:  
Scale 10\*\*23 D-CM  
T Val= 11.10 Plg= 1 Azm= 71  
N -0.57 17 161  
P -10.53 73 337  
Best Double Couple:Mo=1.1\*10\*\*24  
NP1:Strike=144 Dip=46 Slip=-114  
NP2: 357 49 -67

23 16 02 22.50 36.575N 22.208E 39km  
4.8mb ( 53 obs.) 4.9Msz ( 2 obs.)  
SOUTHERN GREECE  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 15S, 25C  
Centroid Location:  
Origin Time 16:02:27.2 0.6  
Lat 36.99N 0.09 Lon 22.81E 0.10  
Dep 22.1 5.6 Half-duration 1.6  
Principal Axes:  
Scale 10\*\*23 D-CM  
T Val= 8.03 Plg=12 Azm=138  
N 1.32 50 242  
P -9.36 38 39  
Best Double Couple:Mo=8.7\*10\*\*23  
NP1:Strike=186 Dip=55 Slip=-159  
NP2: 83 73 -37

23 18 51 00.53 10.245S 165.270E 36km  
5.3mb ( 24 obs.) 4.5Msz ( 3 obs.)  
SANTA CRUZ ISLANDS  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 13S, 24C  
Centroid Location:  
Origin Time 18:51: 4.0 0.9  
Lat 9.90S 0.10 Lon 165.20E 0.09  
Dep 10.0 FIX Half-duration 1.4  
Principal Axes:  
Scale 10\*\*23 D-CM  
T Val= 5.34 Plg=16 Azm=188  
N 1.67 13 94  
P -7.01 69 326  
Best Double Couple:Mo=6.2\*10\*\*23  
NP1:Strike=296 Dip=31 Slip= -65  
NP2: 87 62 -105

24 05 15 29.82 6.303S 154.817E 63km  
5.3mb ( 25 obs.)  
SOLOMON ISLANDS  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 10S, 13C  
Centroid Location:  
Origin Time 05:15:33.8 0.6  
Lat 6.54S 0.12 Lon 154.75E 0.12  
Dep 56.5 6.7 Half-duration 1.4  
Principal Axes:  
Scale 10\*\*23 D-CM  
T Val= 4.43 Plg=88 Azm=352  
N 1.00 2 153  
P -5.43 1 243  
Best Double Couple:Mo=4.9\*10\*\*23  
NP1:Strike=335 Dip=44 Slip= 93  
NP2: 151 46 87

24 22 04 43.41 51.422N 178.430W 34km  
5.8mb ( 85 obs.) 5.8Msz ( 30 obs.)  
ANDREANOF ISLANDS, ALEUTIAN IS.  
FAULT PLANE SOLUTION: P-Waves  
NP1:Strike= 70 Dip=70 Slip= 90  
NP2: 250 20 90  
Principal Axes:  
T Plg=65 Azm=340  
P 25 160  
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.  
MOMENT TENSOR SOLUTION  
Dep 33 No. of sta: 20  
Principal Axes:  
Scale 10\*\*25 d-cm  
T Val= 2.44 Plg=53 Azm=291  
N 0.06 33 78  
P -2.50 16 179  
Best Double Couple:Mo=2.5\*10\*\*25  
NP1:Strike=306 Dip=41 Slip= 146  
NP2: 64 68 54  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 17S, 37C  
Centroid Location:  
Origin Time 22:04:47.9 0.2

Lat 51.36N 0.02 Lon 178.06W 0.03  
Dep 39.3 1.4 Half-duration 4.4  
Principal Axes:  
Scale 10\*\*25 D-CM  
T Val= 1.78 Plg=68 Azm=308  
N 0.20 10 62  
P -1.98 20 156  
Best Double Couple:Mo=1.9\*10\*\*25  
NP1:Strike=262 Dip=27 Slip= 112  
NP2: 58 66 80

25 12 44 33.25 17.623N 145.619E 195km  
5.2mb ( 53 obs.)  
MARIANA ISLANDS  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 13S, 25C  
Centroid Location:  
Origin Time 12:44:37.0 0.5  
Lat 17.40N 0.06 Lon 145.60E 0.07  
Dep 205.6 3.3 Half-duration 1.8  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 1.27 Plg=47 Azm=144  
N 0.17 23 262  
P -1.43 33 9  
Best Double Couple:Mo=1.4\*10\*\*24  
NP1:Strike=153 Dip=25 Slip= 162  
NP2: 259 83 66

25 23 29 21.72 54.055N 160.992E 46km  
5.9mb ( 89 obs.) 5.4Msz ( 14 obs.)  
NEAR EAST COAST OF KAMCHATKA  
MOMENT TENSOR SOLUTION  
Dep 35 No. of sta: 20  
Principal Axes:  
Scale 10\*\*24 d-cm  
T Val= 6.48 Plg= 6 Azm=325  
N -0.31 17 233  
P -6.17 72 75  
Best Double Couple:Mo=6.3\*10\*\*24  
NP1:Strike= 73 Dip=41 Slip= -64  
NP2: 220 54 -111  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 15S, 32C  
Centroid Location:  
Origin Time 23:29:25.0 0.3  
Lat 53.83N 0.02 Lon 161.36E 0.06  
Dep 62.3 1.4 Half-duration 2.8  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 4.92 Plg= 3 Azm=320  
N 0.10 8 229  
P -5.02 82 72  
Best Double Couple:Mo=5.0\*10\*\*24  
NP1:Strike= 58 Dip=42 Slip= -78  
NP2: 222 49 -100

27 06 22 22.84 15.392N 119.911E 65km  
5.1mb ( 41 obs.)  
LUZON, PHILIPPINE ISLANDS  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 9S, 17C  
Centroid Location:  
Origin Time 06:22:21.1 0.8  
Lat 15.20N 0.09 Lon 120.31E 0.14  
Dep 83.3 9.3 Half-duration 1.6  
Principal Axes:  
Scale 10\*\*23 D-CM  
T Val= 9.98 Plg=36 Azm=314  
N -3.27 54 123  
P -6.70 6 220  
Best Double Couple:Mo=8.3\*10\*\*23  
NP1:Strike=351 Dip=61 Slip= 157  
NP2: 93 70 31

28 14 15 26.95 36.404N 71.290E 118km  
5.3mb ( 59 obs.)  
AFGHANISTAN-USSR BORDER REGION  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 12S, 21C  
Centroid Location:  
Origin Time 14:15:29.4 1.1  
Lat 36.25N 0.14 Lon 70.94E 0.21  
Dep 136.3 3.9 Half-duration 1.5  
Principal Axes:  
Scale 10\*\*23 D-CM  
T Val= 8.07 Plg=57 Azm= 25  
N -0.73 31 227  
P -7.34 10 131

Best Double Couple:Mo=7.7*10**23	NP1:Strike=148 Dip=38 Slip=-104	NP2:	0	73	108
NP1:Strike=189 Dip=44 Slip= 42	NP2:	345	53	-80	
NP2:	66	62	126		
29 15 15 16.26 29.914S 178.582W 33km	30 13 06 21.76 49.133N 154.094E 150km	30 18 47 23.67 28.798N 140.344E 40km			
5.3mb ( 16 obs.) 5.6Msz ( 15 obs.)	5.5mb ( 75 obs.)	5.3mb ( 44 obs.) 5.2Msz ( 8 obs.)			
KERMADEC ISLANDS	KURIL ISLANDS	BONIN ISLANDS REGION			
CENTROID, MOMENT TENSOR (HRV)	CENTROID, MOMENT TENSOR (HRV)	CENTROID, MOMENT TENSOR (HRV)			
Data Used: GDSN	Data Used: GDSN	Data Used: GDSN			
L.P.B.: 17S, 34C	L.P.B.: 15S, 28C	L.P.B.: 13S, 27C			
Centroid Location:	Centroid Location:	Centroid Location:			
Origin Time 15:15:19.3 0.3	Origin Time 13:06:25.7 0.4	Origin Time 18:47:24.6 0.5			
Lat 29.64S 0.03 Lon 178.69W 0.03	Lat 48.76N 0.04 Lon 153.96E 0.09	Lat 28.68N 0.07 Lon 140.39E 0.08			
Dep 10.0 FIX Half-duration 2.9	Dep 150.7 1.8 Half-duration 2.2	Dep 10.0 FIX Half-duration 1.9			
Principal Axes:	Principal Axes:	Principal Axes:			
Scale 10**24 D-CM	Scale 10**24 D-CM	Scale 10**24 D-CM			
T Val= 6.77 Plg= 7 Azm=145	T Val= 2.48 Plg=31 Azm=316	T Val= 2.06 Plg=14 Azm=104			
N -0.92 75 29	N 0.20 10 53	N -0.06 3 195			
P -5.86 13 237	P -2.68 57 159	P -2.00 75 295			
Best Double Couple:Mo=6.3*10**24	Best Double Couple:Mo=2.6*10**24	Best Double Couple:Mo=2.0*10**24			
NP1:Strike=280 Dip=76 Slip= -5	NP1:Strike= 15 Dip=17 Slip=-129	NP1:Strike=191 Dip=31 Slip= -95			
NP2:	NP2:	NP2:			
12	235	17			
86	77	59			
-166	-79	-87			
30 08 32 17.52 10.657S 41.355E 10km	30 13 48 23.98 56.750S 25.518W 33km	31 07 24 34.12 12.246N 144.280E 32km			
5.4mb ( 52 obs.) 4.8Msz ( 3 obs.)	5.2mb ( 8 obs.) 5.4Msz ( 4 obs.)	5.5mb ( 40 obs.) 6.0Msz ( 18 obs.)			
NORTHWEST OF MADAGASCAR	SOUTH SANDWICH ISLANDS REGION	SOUTH OF MARIANA ISLANDS			
CENTROID, MOMENT TENSOR (HRV)	CENTROID, MOMENT TENSOR (HRV)	CENTROID, MOMENT TENSOR (HRV)			
Data Used: GDSN	Data Used: GDSN	Data Used: GDSN			
L.P.B.: 11S, 24C	L.P.B.: 14S, 32C	L.P.B.: 13S, 29C			
Centroid Location:	Centroid Location:	Centroid Location:			
Origin Time 08:32:24.5 1.0	Origin Time 13:48:28.8 0.4	Origin Time 07:24:40.2 0.2			
Lat 10.25S 0.08 Lon 41.62E 0.09	Lat 56.66S 0.04 Lon 26.05W 0.09	Lat 12.02N 0.03 Lon 144.26E 0.03			
Dep 10.0 FIX Half-duration 1.6	Dep 10.0 FIX Half-duration 2.7	Dep 16.9 2.3 Half-duration 4.0			
Principal Axes:	Principal Axes:	Principal Axes:			
Scale 10**23 D-CM	Scale 10**24 D-CM	Scale 10**24 D-CM			
T Val= 12.18 Plg= 8 Azm= 67	T Val= 4.72 Plg=58 Azm=295	T Val= 10.06 Plg=65 Azm=289			
N -2.61 8 158	N -0.06 18 174	N 1.96 14 51			
P -9.57 79 295	P -4.66 25 75	P -12.02 20 146			
Best Double Couple:Mo=1.1*10**24	Best Double Couple:Mo=4.7*10**24	Best Double Couple:Mo=1.1*10**25			
	NP1:Strike=132 Dip=25 Slip= 45	NP1:Strike=259 Dip=28 Slip= 121			
		NP2:			
		45			
		67			
		75			

Compiled by Willis S. Jacobs, Leonard E. Kerry, Jahn H. Minsch, Russell E. Needham, Waverly J. Person, Bruce W. Presgrave and William H. Schmieder.

## ANNOUNCEMENT

The QED is now available on a toll-free WATS number to all users in the United States outside the state of Colorado. The telephone number is:

800-358-2663

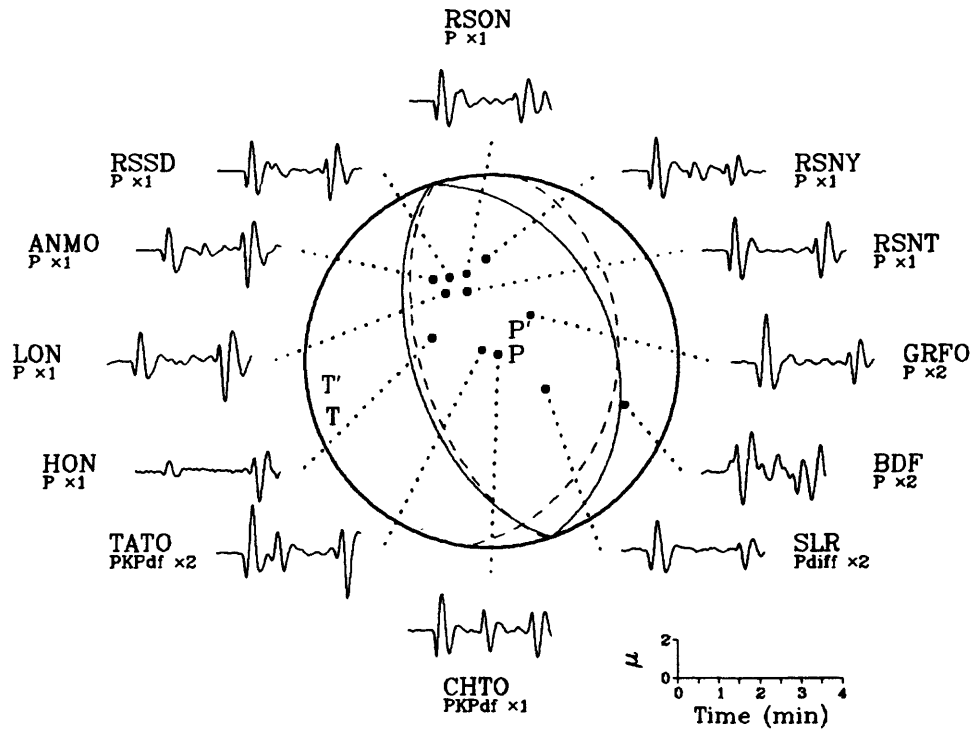
After dialing this number, type "carriage-return" until the computer responds with:

Welcome to the USGS/NEIC QED System. (etc)

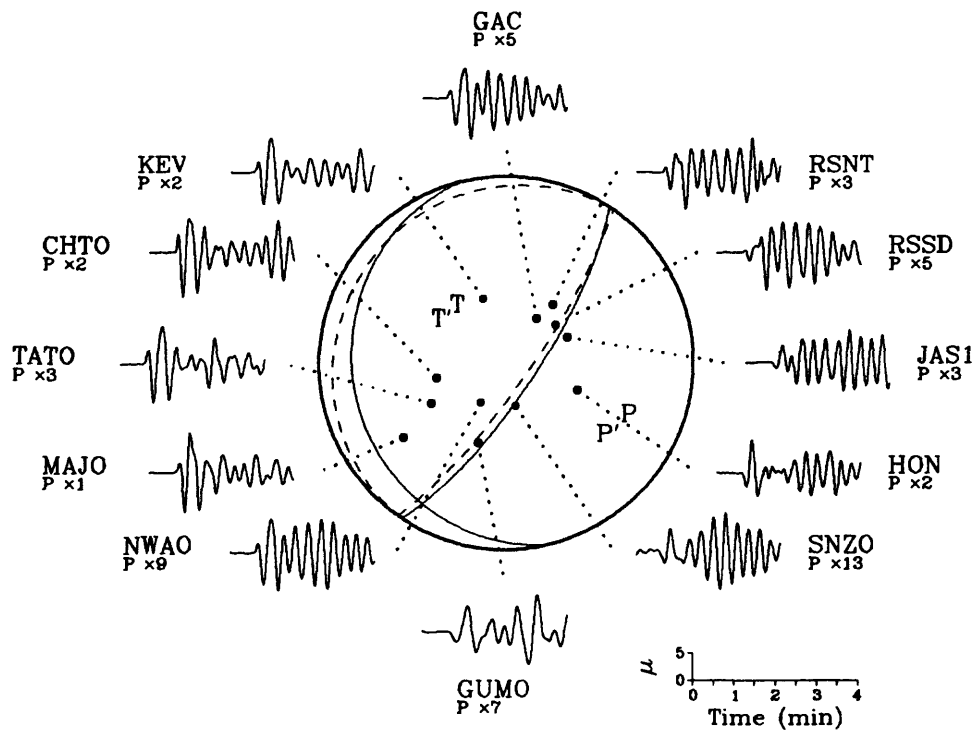
Please note that users dialing on the WATS line are automatically logged on to the VAX 11/780 and into the QED directory. The first response required of the user is to enter name and organization.

If there are any problems with this new service, please call Bruce Presgrave at (303) 236-1500.

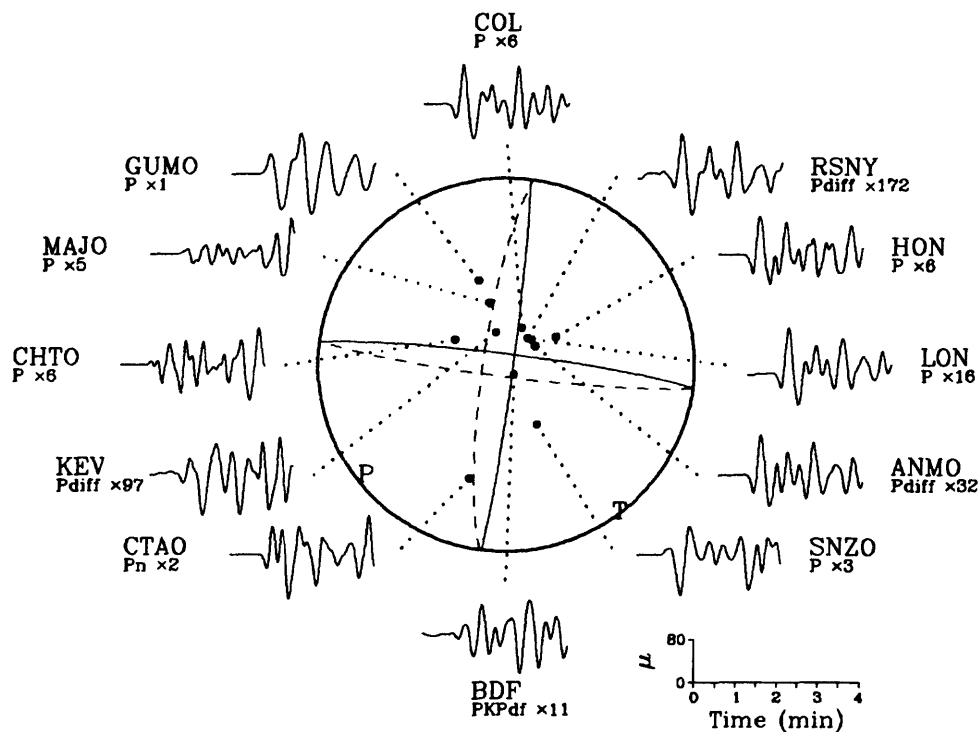
01 May 1985 13:27:56.14  
Peru-Brazil Border Region



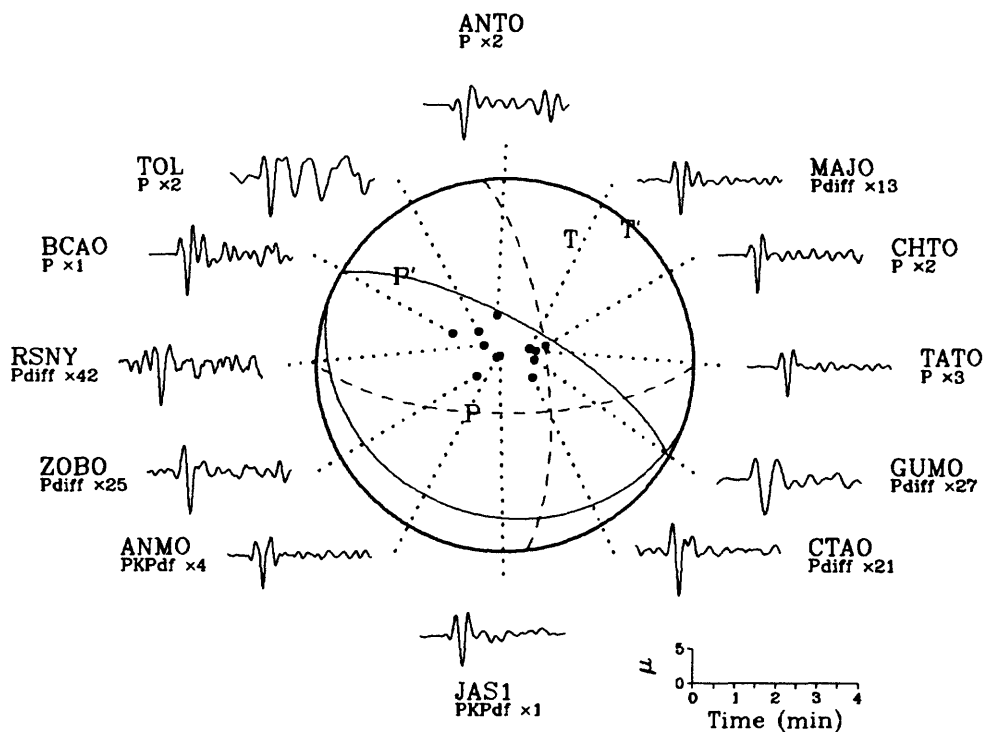
02 May 1985 08:55:16.31  
Kuril Islands Region



10 May 1985 15:35:50.59  
New Britain Region

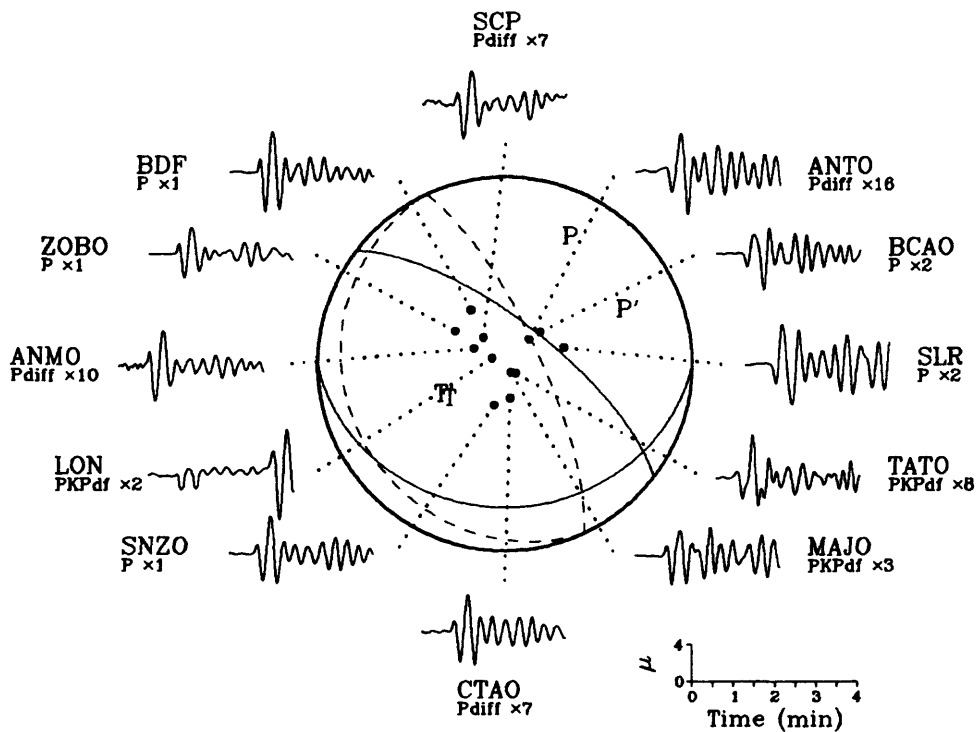


14 May 1985 18:11:08.95  
Northwest of Madagascar

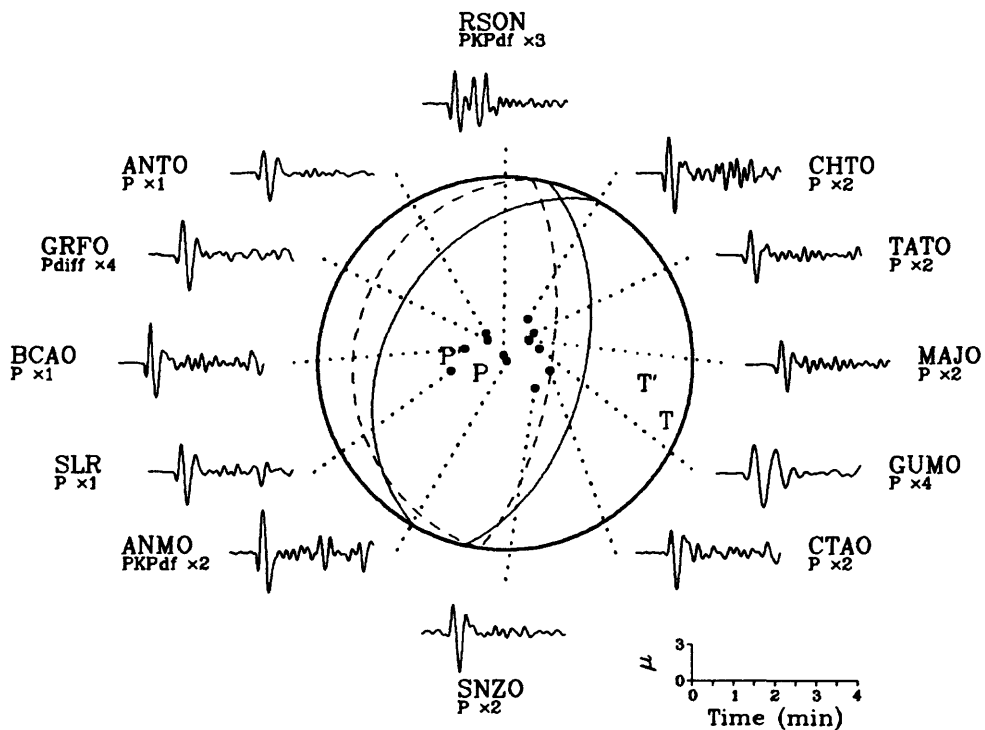




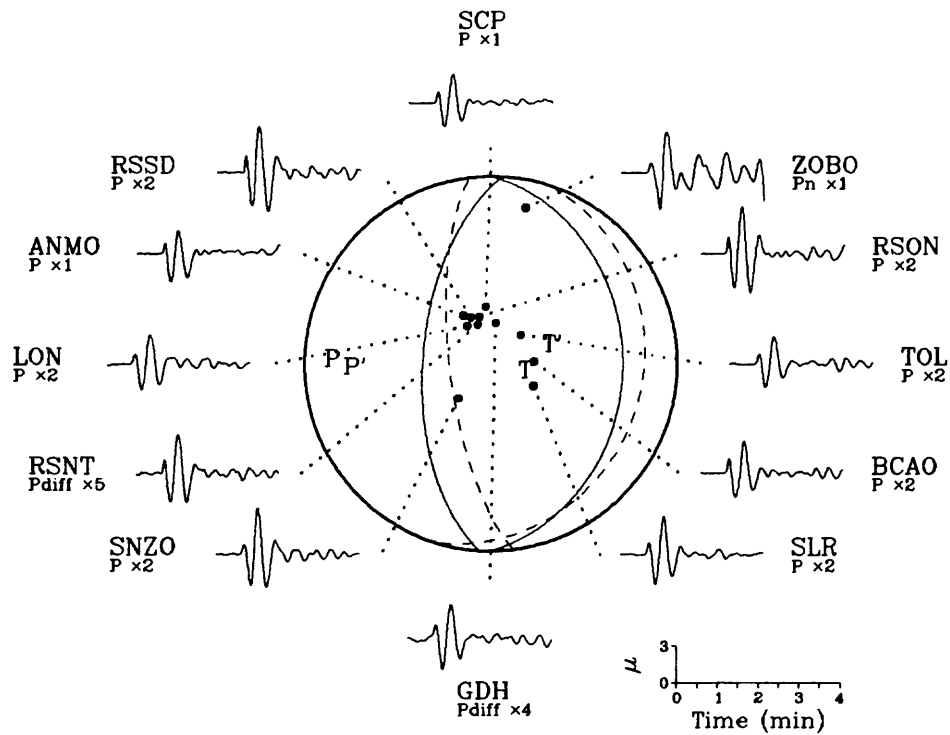
15 May 1985 20:12:45.81  
South Sandwich Islands Region



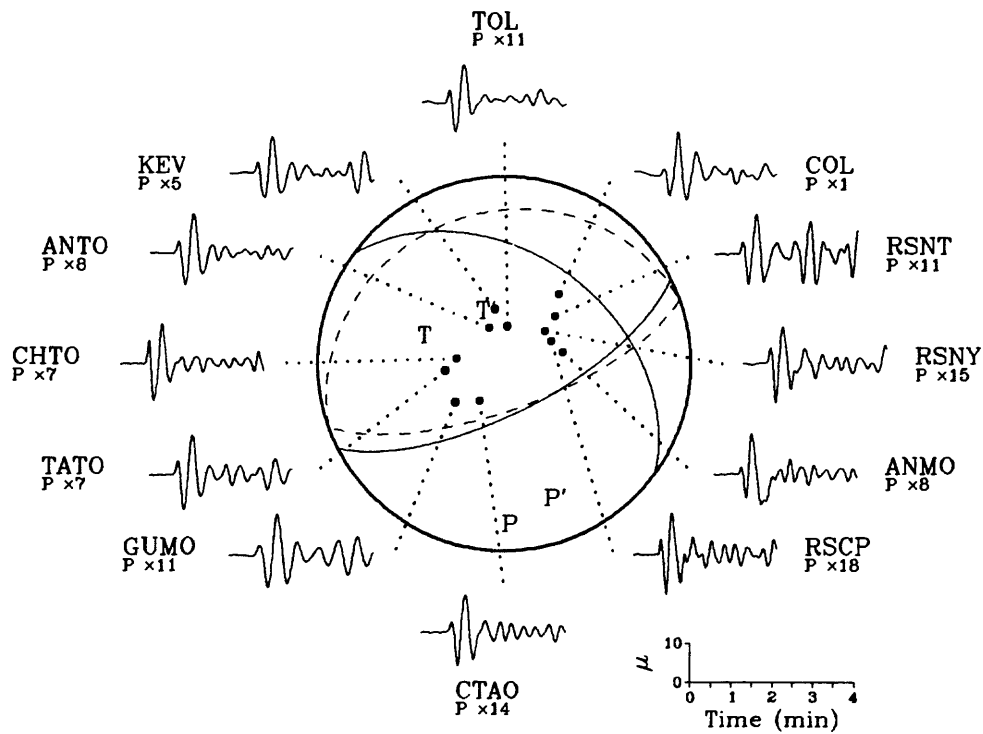
16 May 1985 14:20:25.16  
Mid-Indian Rise

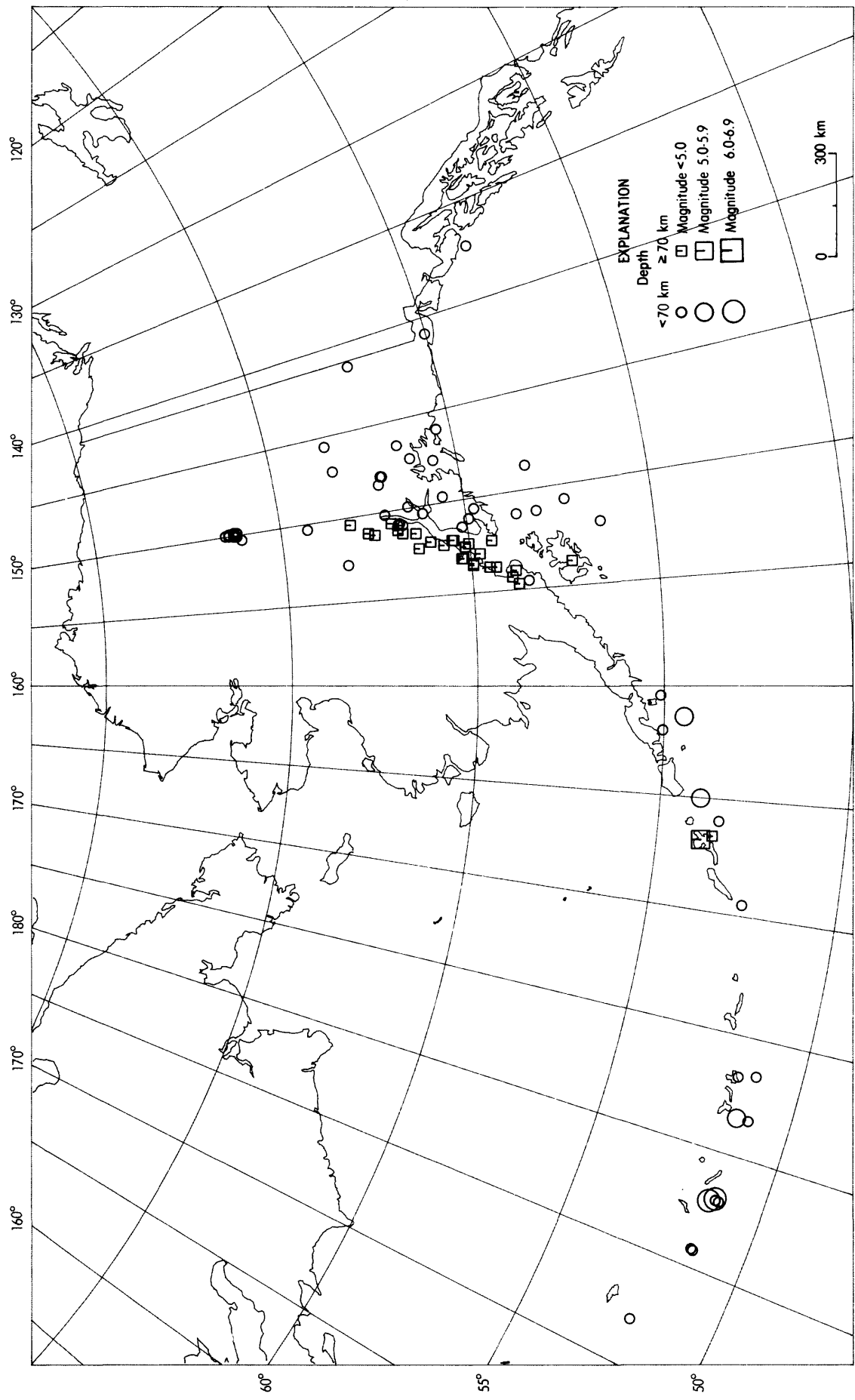


19 May 1985 18:09:15.60  
Near Coast of Central Chile

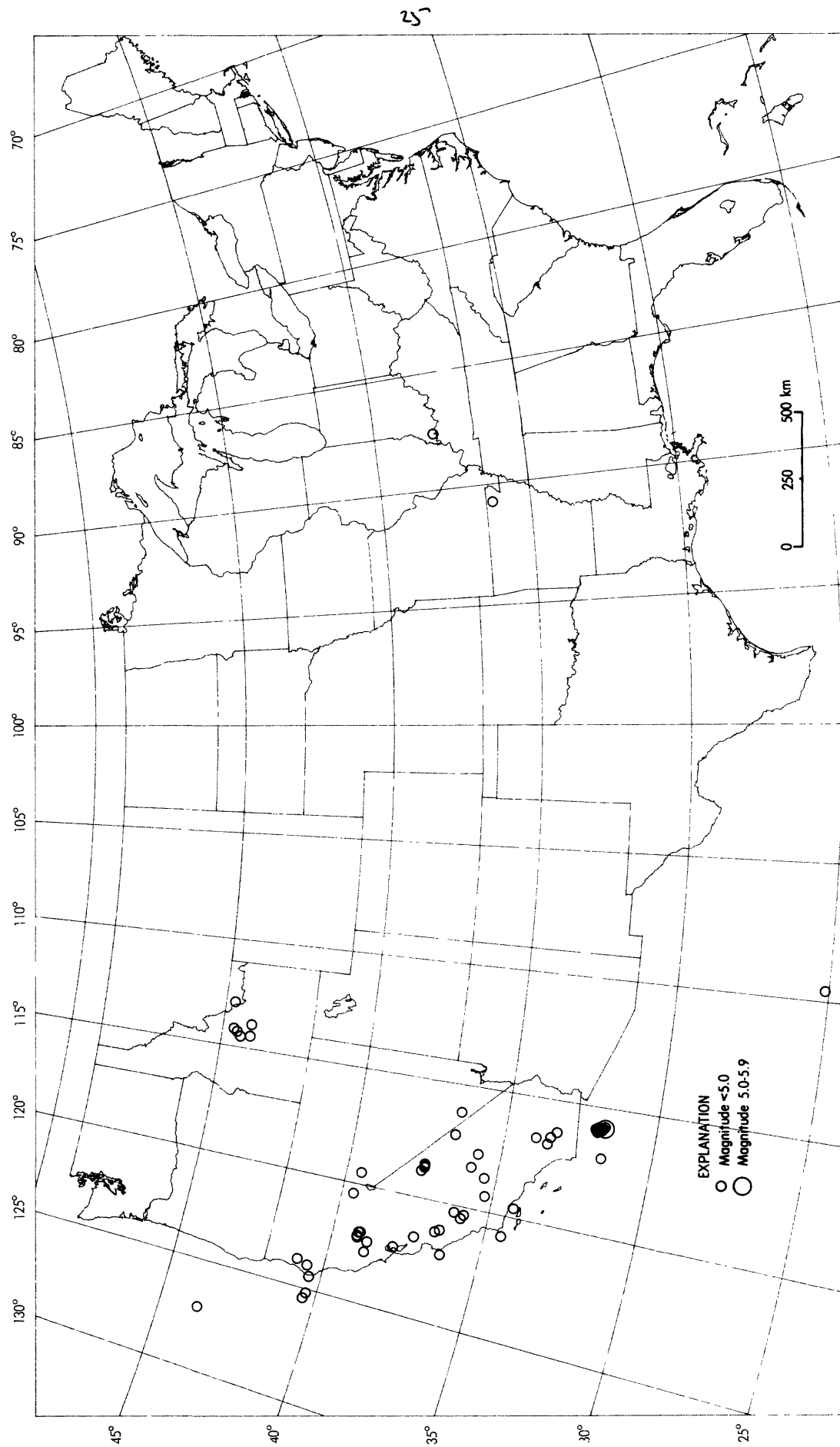


24 May 1985 22:04:43.41  
Andreanof Islands, Aleutian Is.

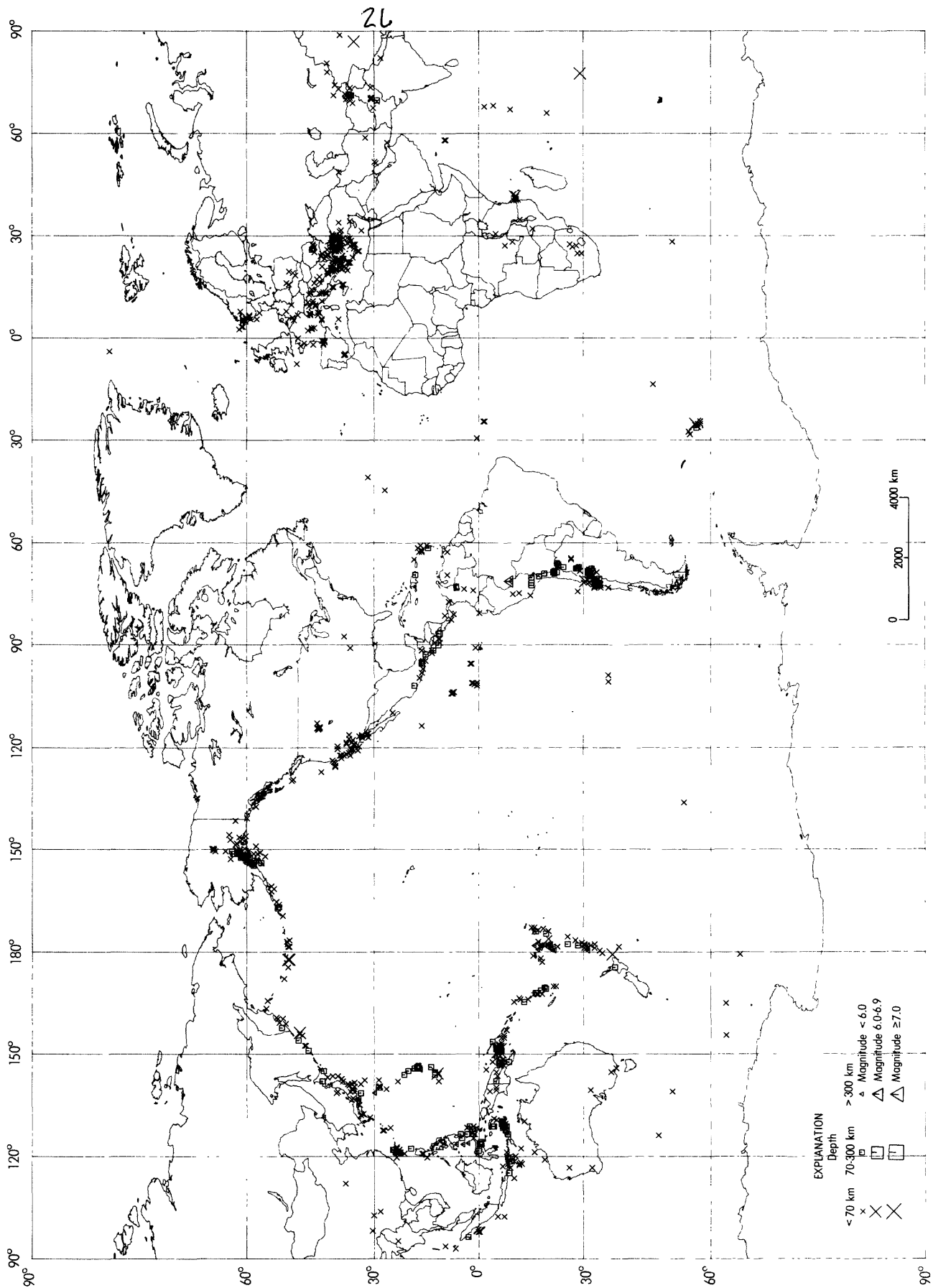




Earthquake epicenters in Alaska for May, 1985 (C. Stover).



Earthquake epicenters in the conterminous United States and adjacent regions for May, 1985 (C. Stover).



Earthquakes located in May, 1985 (C. Stover).



# PRELIMINARY DETERMINATION OF EPICENTERS

## MONTHLY LISTING

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

J U N E 1 9 8 5

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 21.5*	27.333 N 127.447 E	31 *		1.3	9	RYUKYU ISLANDS
01	00 50 18.8*	27.630 N 127.614 E	78 *		1.0	12	RYUKYU ISLANDS
01	01 08 43.7&	61.654 N 151.813 W	94			22	SOUTHERN ALASKA. <AGS-P>.
a 01	02 03 12.5	12.167 N 144.421 E	23	5.7 5.4	1.1	198	SOUTH OF MARIANA ISLANDS
01	04 02 01.2*	11.969 N 82.302 W	33 N	4.4	1.0	14	NORTH OF PANAMA
01	04 33 41.9?	37.24 N 20.49 E	10 G	3.7	1.0	8	IONIAN SEA. ML 3.8 (ATH).
01	06 27 54.2?	32.86 S 71.83 W	15		1.2	11	NEAR COAST OF CENTRAL CHILE
01	06 31 03.9	40.827 N 19.737 E	10 G		1.0	11	ALBANIA
01	06 36 49.0	6.230 S 130.139 E	119 ?	5.2	0.9	20	BANDA SEA
01	07 47 45.8	22.675 S 176.176 W	110 D	4.9	1.2	43	SOUTH OF FIJI ISLANDS
01	08 04 25.7&	31.930 N 115.870 W	6 G			10	BAJA CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
01	08 14 10.7	5.665 S 154.344 E	130	4.9	1.0	39	SOLOMON ISLANDS
01	08 46 04.0*	35.359 N 21.423 E	10 G	3.9	1.1	22	MEDITERRANEAN SEA. ML 3.7 (ATH).
a 01	09 46 08.1	41.584 N 142.033 E	72 D	5.2	1.0	200	HOKKAIDO, JAPAN REGION. Felt (II JMA) at Urakawa. Also felt (II JMA) at Hachinohe and Miyako, Honshu.
01	09 56 58.1*	2.892 S 143.205 E	33 N		1.4	14	PAPUA NEW GUINEA REGION
01	10 00 19.3*	39.321 N 23.071 E	10 G		1.4	12	AEGEAN SEA. ML 3.0 (ATH).
01	10 39 34.0*	2.516 S 78.641 W	104 *	4.7	1.3	14	ECUADOR
01	11 58 45.4	7.653 S 127.421 E	186	4.9	1.1	59	BANDA SEA
01	12 01 20.5*	6.317 S 154.741 E	60 *	5.4	1.2	12	SOLOMON ISLANDS. Felt (III) at Arawa, Bougainville.
01	13 05 29.3*	33.213 S 71.998 W	33 N	3.5	1.2	18	NEAR COAST OF CENTRAL CHILE
01	13 21 45.6*	43.039 N 23.701 E	10 G		1.4	5	BULGARIA
a 01	14 47 12.9	11.239 S 162.409 E	33 N	4.8 5.6	1.4	34	SOLOMON ISLANDS
01	17 01 07.2	46.183 N 6.785 E	10 G		1.1	14	SWITZERLAND. ML 3.0 (LDG).
01	17 24 06.0*	5.533 S 146.242 E	120 *	4.4	0.9	7	EAST PAPUA NEW GUINEA REGION
01	17 53 34.4*	19.606 S 70.237 W	33 N		0.4	5	NEAR COAST OF NORTHERN CHILE
01	18 11 01.1?	15.80 N 122.70 E	33 N	5.0	0.3	6	PHILIPPINE ISLANDS REGION
01	18 14 53.4*	37.326 N 21.742 E	10 G	3.8	1.2	7	SOUTHERN GREECE. ML 3.4 (ATH).
01	18 16 14.0	24.472 N 121.674 E	10 G		0.5	7	TAIWAN
01	18 46 55.4?	31.36 S 68.93 W	101 ?		0.5	5	SAN JUAN PROVINCE, ARGENTINA
01	19 08 20.5	63.812 N 149.296 W	81 ?		0.9	13	CENTRAL ALASKA
01	19 47 45.5*	12.134 N 143.626 E	23	5.0	1.1	32	SOUTH OF MARIANA ISLANDS
01	20 03 47.1	46.205 N 7.287 E	10 G		0.8	8	SWITZERLAND. ML 2.8 (LDG).
01	20 30 09.3?	37.08 N 21.33 E	10 G		1.3	5	SOUTHERN GREECE. ML 3.4 (ATH).
01	20 38 39.1	11.105 S 119.409 E	33 N	4.8	0.8	15	SOUTH OF SUMBA ISLAND
01	21 15 34.0	18.806 S 177.673 W	632	4.5	0.9	38	FIJI ISLANDS REGION
01	22 32 35.4%	39.301 N 26.251 E	10 G		1.0	7	TURKEY
01	23 01 39.3	24.188 S 67.193 W	203 *		0.7	13	CHILE-ARGENTINA BORDER REGION
01	23 41 04.8*	31.855 S 67.730 W	10 G		0.5	5	SAN JUAN PROVINCE, ARGENTINA
02	00 04 40.6	37.001 N 96.873 E	33 N	4.7 4.2	1.4	28	QINGHAI PROVINCE, CHINA
02	00 26 37.9*	23.269 S 114.944 W	10 G	4.6 4.5	0.9	11	EASTER ISLAND REGION
02	02 47 53.1	46.976 N 150.732 E	173 D	4.6	0.9	67	KURIL ISLANDS
02	02 55 25.6*	37.172 N 21.736 E	66 *	3.6	0.8	12	SOUTHERN GREECE
02	03 10 31.5*	13.546 N 91.892 W	33 N	4.6	1.0	22	NEAR COAST OF GUATEMALA
02	04 35 35.4*	28.152 S 177.320 W	58 D	4.8	1.3	15	KERMADEC ISLANDS REGION
02	04 55 55.2*	66.101 N 150.037 W	10 G		0.4	6	ALASKA. ML 3.6 (PMR).
02	06 05 24.6%	31.167 S 68.532 W	33 N		0.7	6	SAN JUAN PROVINCE, ARGENTINA
02	06 37 43.3*	15.423 N 91.793 W	168 *	5.0	1.2	29	MEXICO-GUATEMALA BORDER REGION
02	07 18 08.6	28.823 N 140.354 E	33 N	4.5	0.7	19	BONIN ISLANDS REGION
02	08 10 58.7*	37.480 N 21.867 E	59 ?	3.8	0.7	6	SOUTHERN GREECE
02	08 35 29.5?	16.63 N 92.73 W	33 N		0.8	5	CHIAPAS, MEXICO
02	08 41 36.0*	12.767 N 89.493 W	33 N	4.5	0.6	17	OFF COAST OF CENTRAL AMERICA
02	08 42 41.1&	61.681 N 150.904 W	74			32	SOUTHERN ALASKA. <AGS-P>.
02	09 27 55.6*	5.730 N 126.176 E	135 ?	4.6	0.8	11	MINDANAO, PHILIPPINE ISLANDS
02	09 46 06.1*	66.149 N 150.054 W	10 G		0.4	5	ALASKA. ML 3.9 (PMR).
02	10 25 24.0?	44.74 S 80.72 W	10 G		1.0	7	OFF COAST OF SOUTHERN CHILE
02	10 53 37.8*	56.678 S 27.138 W	180 G	4.8	0.6	17	SOUTH SANDWICH ISLANDS REGION
a 02	12 02 30.9	6.485 S 154.761 E	370 D	5.3	1.0	188	SOLOMON ISLANDS. Felt (IV) at Panguna and Arawa.

02	15 01 17.5&	34.390 N	120.100 W	2				7	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
o 02	16 26 58.4	37.728 S	73.653 W	33 N	5.5 5.5	1.1	133		NEAR COAST OF CENTRAL CHILE. Ms 5.5 (BRK). Felt (V) at Concepcion and (IV) at Chillan and Valdivia.
02	16 44 07.9?	37.03 S	73.56 W	33 N		0.7	11		NEAR COAST OF CENTRAL CHILE
02	16 47 42.9*	37.115 N	7.490 W	10 G		0.7	9		PORTUGAL
o 02	17 03 15.0	52.395 N	160.508 E	38 D	5.2 5.3	1.0	211		OFF EAST COAST OF KAMCHATKA. Felt (IV) at Petropavlovsk-Kamchatskiy.
02	17 15 03.8*	37.769 S	73.603 W	33 N	4.5	1.1	21		NEAR COAST OF CENTRAL CHILE
02	17 36 25.5*	43.822 N	85.695 E	45 *	4.9 4.2	0.8	94		NORTHERN XINJIANG, CHINA
02	19 14 04.9*	42.851 N	0.820 W	10 G		0.1	6		PYRENEES. ML 2.5 (LDG).
02	19 18 51.2*	38.254 N	21.768 E	10 G		1.3	6		GREECE. ML 3.5 (ATH).
02	20 25 58.9?	31.08 S	68.31 W	91 ?		0.8	6		SAN JUAN PROVINCE, ARGENTINA
02	20 36 52.4	47.299 N	146.553 E	389 D	4.7	1.1	66		NORTHWEST OF KURIL ISLANDS
02	20 47 25.8?	18.80 N	108.61 W	10 G	4.4	1.1	22		REVILLA GIGEDO ISLANDS REGION
02	21 05 08.2	37.851 N	29.308 E	10 G	3.6	1.0	22		TURKEY
02	22 22 40.3?	31.80 S	69.77 W	118 ?		0.9	8		SAN JUAN PROVINCE, ARGENTINA
02	22 48 43.1?	31.81 S	74.11 W	33 N		1.0	8		OFF COAST OF CENTRAL CHILE
02	23 02 38.4&	60.412 N	152.564 W	103			28		SOUTHERN ALASKA. <AGS-P>.
02	23 15 23.5	46.779 N	10.111 E	10 G		1.1	7		NORTHERN ITALY. ML 2.2 (KBA).
03	00 11 57.1?	36.66 N	141.48 E	33 N		1.1	8		NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Mito and Fukushima.
03	00 26 26.2?	37.25 S	73.05 W	33 N		1.2	14		NEAR COAST OF CENTRAL CHILE
03	00 34 36.9*	37.401 N	71.324 E	33 N	4.5	1.4	8		AFGHANISTAN-USSR BORDER REGION
03	02 05 30.4&	34.000 N	116.000 W	9			4		SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
03	02 43 09.9	24.050 S	179.893 W	524	5.2	0.9	25		SOUTH OF FIJI ISLANDS
o 03	02 45 32.0	13.175 N	90.138 W	66	5.2	1.0	251		NEAR COAST OF GUATEMALA. Ms 6.3 (BRK), 5.8 (PAS).
03	03 14 17.0*	48.599 N	154.637 E	33 N	4.7	0.3	11		KURIL ISLANDS
03	03 15 54.3	52.349 N	160.849 E	41 D	4.9	1.2	84		OFF EAST COAST OF KAMCHATKA
03	05 47 52.4%	40.536 N	26.204 E	10 G		1.3	7		TURKEY
03	06 53 27.5&	33.040 N	115.970 W	11			7		SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
03	07 06 18.7	4.910 N	75.876 W	135 *	5.0	0.9	47		COLOMBIA
03	07 48 29.8*	18.520 S	68.662 W	10 G		1.0	5		CHILE-BOLIVIA BORDER REGION
o 03	08 14 41.1	52.452 N	160.411 E	37 D	5.1 5.0	1.1	195		OFF EAST COAST OF KAMCHATKA
03	09 30 57.6%	60.742 N	5.512 E	10 G		0.5	5		SOUTHERN NORWAY. DUR 1.8 (BER).
03	10 33 02.6*	54.187 S	132.458 W	10 G	5.2 5.0	1.2	18		SOUTH PACIFIC CORDILLERA
03	10 59 44.2%	60.415 N	5.280 E	10 G		0.8	6		SOUTHERN NORWAY. DUR 1.7 (BER).
03	12 05 09.5	52.698 N	160.056 E	33 N	4.9	1.1	72		OFF EAST COAST OF KAMCHATKA
f 03	12 06 21.1	15.289 S	173.516 W	33 N	6.2 6.8	1.0	374		TONGA ISLANDS. Ms 7.0 (BRK), 6.7 (PAS). Felt (IV) at Apia, Western Samoa.
03	12 34 06.9*	11.943 S	134.982 E	33 N	3.9	0.9	9		NORTHERN TERRITORY, AUSTRALIA
03	13 32 57.6	4.252 S	143.504 E	76 *	4.5	0.8	9		PAPUA NEW GUINEA
03	15 16 19.1*	8.781 S	123.902 E	33 N	5.1	1.3	8		FLORES ISLAND REGION
03	16 17 45.4?	37.31 N	140.84 E	10 G		1.2	6		HONSHU, JAPAN
03	17 29 58.0	22.056 S	138.862 W	0 G	5.2	1.0	22		TUAMOTU ARCHIPELAGO REGION
03	17 56 51.0	27.990 S	71.096 W	33 N	5.4	1.3	51		NEAR COAST OF NORTHERN CHILE
03	18 26 21.6%	60.347 N	5.312 E	10 G		0.8	5		SOUTHERN NORWAY. DUR 1.6 (BER).
03	18 32 53.3	78.202 N	126.397 E	10 G	5.1 4.7	0.9	146		EAST OF SEVERNAYA ZEMLYA
03	19 06 58.1?	10.72 S	40.81 E	33 N	4.2	1.0	8		TANZANIA
03	19 20 35.4?	39.60 N	20.79 E	10 G		1.2	8		GREECE-ALBANIA BORDER REGION
03	19 22 49.3*	51.230 N	15.986 E	10 G		0.7	6		POLAND
03	19 26 21.1*	10.946 S	40.528 E	33 N		0.7	6		TANZANIA
o 03	20 11 56.1*	7.803 S	13.473 W	10 G	4.8 4.8	1.2	47		ASCENSION ISLAND REGION
03	20 25 51.5	49.784 N	1.203 E	10 G		0.9	16		FRANCE. ML 2.9 (LDG).
03	20 41 56.6*	21.612 S	67.025 W	33 N	4.8	0.7	6		CHILE-BOLIVIA BORDER REGION
o 03	21 57 52.3	5.855 S	151.414 E	41	5.4 5.0	0.8	154		NEW BRITAIN REGION
03	22 14 11.0%	40.783 N	28.017 E	10 G		1.3	9		TURKEY
03	22 42 24.1?	6.48 S	152.94 E	33 N	5.0	1.4	5		NEW BRITAIN REGION
03	22 49 51.5	11.585 S	117.730 E	33 N	5.1	1.2	41		SOUTH OF SUMBAWA ISLAND
03	22 54 02.7?	39.24 N	21.71 E	10 G		1.2	9		GREECE
03	23 30 02.3?	17.66 N	106.96 W	10 G	4.5	1.0	16		OFF COAST OF JALISCO, MEXICO
03	23 53 42.6*	44.576 N	147.535 E	33 N	5.0	1.0	67		KURIL ISLANDS. Felt (I JMA) at Nemuro, Hokkaido.
04	00 52 26.8*	24.868 S	179.991 E	500 *	4.8	1.0	25		SOUTH OF FIJI ISLANDS
04	01 05 59.5%	40.809 N	27.941 E	10 G		0.8	6		TURKEY
04	02 11 38.4	29.216 S	69.616 W	192 ?		0.8	17		CHILE-ARGENTINA BORDER REGION
o 04	02 43 46.0*	11.884 N	43.769 E	10 G	4.8 4.4	1.4	30		ETHIOPIA
04	03 13 55.7?	59.41 N	6.73 E	10 G		0.7	5		SOUTHERN NORWAY
04	03 34 06.0%	39.604 N	28.964 E	10 G		0.8	8		TURKEY
04	03 52 23.6	11.690 N	43.400 E	10 G	4.8 5.2	1.3	75		ETHIOPIA
o 04	03 56 27.0	4.873 N	127.481 E	94 D	6.0	0.9	263		TALAUD ISLANDS. Felt (I RF) at General Santos, Philippine Islands.
04	04 49 23.4%	40.798 N	27.955 E	10 G		0.4	9		TURKEY
04	05 11 02.5	4.416 S	102.689 E	77 *	5.2	0.9	51		SOUTHERN SUMATRA
04	05 12 57.6	36.635 N	11.507 W	10 G	4.1	1.2	28		NORTH ATLANTIC OCEAN
04	05 20 30.6*	11.431 S	166.499 E	33 N	5.2	1.4	15		SANTA CRUZ ISLANDS
04	06 12 21.3	3.635 S	142.818 E	33 N	5.1	1.2	26		NEAR N COAST OF PAPUA NEW GUINEA
04	07 16 53.7*	39.217 N	140.920 E	33 N		1.3	9		HONSHU, JAPAN. Felt (I JMA) at Ofunato, Miyako and Ishinomaki.
04	09 33 30.7?	44.08 N	129.84 W	10 G	4.2	1.6	9		OFF COAST OF OREGON
04	10 03 19.5*	24.202 N	121.799 E	10 G		0.6	6		TAIWAN
04	10 09 26.8*	31.374 S	72.338 W	33 N		0.9	16		OFF COAST OF CENTRAL CHILE
o 04	11 04 18.6	13.438 N	89.879 W	42	5.0 5.0	1.0	160		EL SALVADOR. Ms 5.4 (BRK).
04	11 15 07.1	22.018 S	67.412 W	207 *	4.3	1.3	16		CHILE-BOLIVIA BORDER REGION
o 04	12 06 03.7	0.379 S	19.541 W	10 G	5.1 5.4	0.8	124		CENTRAL MID-ATLANTIC RIDGE
04	12 09 33.5	33.085 S	70.423 W	10 G		0.8	6		CHILE-ARGENTINA BORDER REGION. Felt (III) at Santiago. Felt strongly at Valparaiso, Chile.
04	12 24 36.8	4.632 S	140.674 E	33 N	4.9	0.9	14		WEST IRIAN
04	12 37 09.8?	12.82 N	142.25 E	33 N		0.8	10		SOUTH OF MARIANA ISLANDS
04	12 41 42.1?	51.56 N	163.38 E	33 N	4.4	0.8	6		OFF EAST COAST OF KAMCHATKA
04	14 56 23.9*	23.796 N	121.748 E	31 *		0.6	7		TAIWAN
04	15 45 22.2?	16.20 S	27.93 E	33 N		1.0	8		ZAMBIA
04	16 33 22.4*	13.229 N	90.133 W	49 *	4.6 4.1	1.2	29		NEAR COAST OF GUATEMALA
04	16 43 37.0*	6.177 S	151.880 E	33 N		1.0	5		NEW BRITAIN REGION
04	17 08 10.4?	40.20 N	14.95 E	10 G		1.1	8		SOUTHERN ITALY

04	17	12	45.0%	40.784	N	28.001	E	10	G	0.6	7	TURKEY			
04	17	17	04.9%	60.310	N	5.234	E	10	G	0.1	5	SOUTHERN NORWAY. DUR 2.0 (BER).			
04	18	52	15.8%	40.814	N	27.933	E	10	G	0.7	6	TURKEY			
04	19	56	41.1%	40.185	N	23.915	E	10	G	1.0	9	GREECE			
04	20	09	01.7	30.174	S	68.668	W	138	?	1.2	18	SAN JUAN PROVINCE, ARGENTINA			
04	20	25	49.7	40.407	N	22.419	E	10	G	0.5	8	GREECE			
04	21	14	12.3%	6.472	S	149.064	E	49	*	4.6	1.4	15	NEW BRITAIN REGION		
a	04	21	38	46.4	57.075	N	33.690	W	10	G	5.1	4.8	0.9	180	NORTH ATLANTIC OCEAN
04	22	02	47.2?	59.37	N	6.71	E	15	G	1.1	5	SOUTHERN NORWAY. DUR 2.6 (BER).			
04	23	40	39.5?	15.09	S	173.57	W	33	N	4.3	1.4	13	TONGA ISLANDS		
a	05	01	04	07.6	28.604	N	141.038	E	87	5.1	0.8	126	BONIN ISLANDS REGION		
05	01	15	26.4%	33.670	S	72.580	W	33	N	3.9	1.1	20	OFF COAST OF CENTRAL CHILE		
05	01	27	58.4	45.693	N	10.778	E	10	G	0.7	10	NORTHERN ITALY. ML 2.9 (KBA).			
a	05	01	41	42.4	56.937	N	33.748	W	10	G	5.1	5.1	1.0	187	NORTH ATLANTIC OCEAN
05	02	12	43.5?	33.56	S	71.78	W	10	G	0.9	10	NEAR COAST OF CENTRAL CHILE			
05	02	44	32.9?	37.83	N	142.38	E	33	N	0.9	7	OFF EAST COAST OF HONSHU, JAPAN			
05	03	41	32.6%	31.727	S	121.817	E	33	N	0.8	5	WESTERN AUSTRALIA			
05	03	46	24.6%	26.260	S	27.392	E	5	G	1.2	6	REPUBLIC OF SOUTH AFRICA			
05	04	21	42.2	14.133	N	91.950	W	69	4.9	0.9	133	GUATEMALA			
05	06	28	59.9	21.814	N	142.796	E	319	4.7	0.9	29	MARIANA ISLANDS REGION			
05	06	52	58.0%	66.919	N	154.613	W	33	N	0.8	10	ALASKA. ML 3.6 (PMR).			
05	07	43	27.9%	17.319	S	179.494	E	102	?	1.3	8	FIJI ISLANDS			
05	08	48	28.1	36.208	N	27.752	E	35	*	4.1	1.5	48	DODECANESE ISLANDS		
05	08	51	06.8%	36.348	N	27.514	E	33	N	1.3	7	DODECANESE ISLANDS. ML 3.7 (ATH).			
05	09	31	16.5%	17.308	N	94.105	W	33	N	1.4	7	CHIAPAS, MEXICO			
05	09	53	14.1%	17.140	N	94.689	W	33	N	0.6	7	CHIAPAS, MEXICO			
05	10	00	50.3%	32.990	N	115.570	W	8			8	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.3 (PAS).			
05	10	36	00.6%	32.562	N	106.916	W	6			4	NEW MEXICO. <GLD>. ML 2.9 (GLD). Felt (IV) at Radium Springs. Also felt at Leasburg.			
05	11	17	11.4?	45.61	N	26.26	E	141	?	0.6	6	ROMANIA			
05	12	04	44.6%	33.714	S	179.741	W	33	N	4.9	1.1	9	SOUTH OF KERMADec ISLANDS		
05	12	32	29.7	5.872	S	145.652	E	116	5.3	0.7	83	EAST PAPUA NEW GUINEA REGION			
05	13	45	08.7%	37.572	N	20.817	E	65	*	3.9	1.2	17	IONIAN SEA		
05	13	58	15.8%	45.261	N	26.799	E	10	G	1.3	6	ROMANIA			
a	05	14	58	12.9	15.084	S	177.432	W	376	4.8	1.0	71	FIJI ISLANDS REGION		
05	15	14	31.8%	5.617	S	150.835	E	33	N	4.0	1.1	7	NEW BRITAIN REGION		
05	15	29	11.3%	37.920	S	73.317	W	33	N	4.2	4.0	1.0	21	NEAR COAST OF CENTRAL CHILE. Felt (IV) in the Chillan-Valdivia area and (III) in the Parral-Talca area.	
05	17	09	57.8%	7.302	S	104.823	E	33	N	5.2	4.3	1.4	11	SOUTHWEST OF SUMATERA	
05	17	51	09.3?	3.20	S	102.39	W	10	G	4.3	1.3	10	NORTHERN EASTER I. CORDILLERA		
05	18	10	05.5%	33.340	N	116.330	W	12			20	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.7 (PAS). Felt (IV) at Borrego Springs.			
05	18	14	23.6	41.288	N	22.605	E	5	G	1.1	14	YUGOSLAVIA. Felt (V) in the Valandova-Pirava area.			
05	18	38	46.3	23.490	N	120.981	E	10	G	0.6	7	TAIWAN			
05	20	49	32.2%	35.958	S	71.396	W	67	?	3.9	0.5	16	CENTRAL CHILE		
05	21	07	05.7%	28.540	S	148.486	E	33	N	1.4	5	QUEENSLAND, AUSTRALIA			
05	21	46	21.0%	61.291	N	146.746	W	30			31	SOUTHERN ALASKA. <AGS-P>.			
a	05	23	04	55.5	4.646	S	153.173	E	68	5.6	1.0	223	NEW IRELAND REGION. Ms 6.3 (BRK). Felt (VI) at Rabaul, New Britain and (III) at Panguna, Bougainville.		
05	23	54	23.4	47.897	N	16.347	E	10	G	1.2	26	AUSTRIA. ML 3.9 (FUR), 3.6 (KBA). Felt (V) at Ebreichsdorf.			
06	00	38	19.2	4.654	S	153.088	E	76	4.7	1.0	19	NEW IRELAND REGION. Felt at Rabaul, New Britain.			
06	01	22	39.2?	15.49	S	173.10	W	33	N	5.2	1.3	32	TONGA ISLANDS		
06	01	26	27.5%	64.005	N	148.861	W	33	N	0.7	6	CENTRAL ALASKA. ML 3.2 (PMR).			
06	02	00	37.5?	51.58	N	16.31	E	10	G	0.4	7	POLAND. ML 3.1 (GRF).			
f	06	02	40	12.9	0.932	N	28.432	W	10	G	6.3	6.5	1.1	316	CENTRAL MID-ATLANTIC RIDGE. Ms 6.6 (BRK), 6.5 (PAS).
06	04	37	26.9	38.796	N	23.472	E	7	3.6	0.8	18	GREECE. ML 3.6 (ATH).			
06	04	44	41.7	28.697	N	140.381	E	39	5.2	0.9	125	BONIN ISLANDS REGION. Felt (I JMA) on Chichi-shima.			
06	06	01	12.4%	28.525	N	140.461	E	33	N	4.7	1.1	32	BONIN ISLANDS REGION		
06	06	09	26.8%	31.558	S	67.997	W	33	N	0.7	5	SAN JUAN PROVINCE, ARGENTINA			
06	06	11	57.6	6.847	N	73.105	W	161			0.7	15	NORTHERN COLOMBIA		
06	06	15	36.0	29.032	N	140.569	E	42	*	4.9	5.2	1.2	69	SOUTH OF HONSHU, JAPAN	
06	08	44	48.8%	37.494	S	73.086	W	33	N	3.4	4.0	1.0	17	NEAR COAST OF CENTRAL CHILE	
06	09	14	54.8%	37.562	N	30.154	E	10	G	0.9	5	TURKEY			
06	11	29	36.9%	31.940	N	115.730	W	6	G		7	BAJA CALIFORNIA. <PAS-P>. ML 3.1 (PAS).			
a	06	11	40	17.9	3.775	S	151.348	E	10	G	5.6	5.2	1.0	87	NEW IRELAND REGION
06	13	08	42.8%	35.901	N	31.523	E	46	*	4.9	0.9	11	CYPRUS		
06	13	31	28.7%	24.203	N	121.852	E	10	G	1.3	9	TAIWAN			
a	06	14	27	54.3	31.261	S	177.824	W	33	N	5.3	5.2	1.2	78	KERMADec ISLANDS REGION. Ms 5.5 (BRK).
06	14	40	30.0%	6.187	S	105.530	E	33	N	4.6	1.2	15	SUNDA STRAIT		
06	15	35	14.6%	17.344	S	175.325	W	33	N	5.5	1.1	37	TONGA ISLANDS		
06	16	53	37.6	42.792	N	144.763	E	63	5.0	1.0	105	HOKKAIDO, JAPAN REGION. Felt (III JMA) at Kushiro. (II JMA) at Nemuro and Urakawa.			
06	17	39	21.0	40.211	N	25.668	E	10	G	1.3	13	AEGEAN SEA			
06	17	42	43.5	7.038	S	128.145	E	34	*	5.4	4.5	1.3	48	BANDA SEA	
06	18	18	18.8?	34.93	N	32.56	E	37	*	4.6	1.6	11	CYPRUS. Felt in the Paphos-Limassol area.		
06	20	03	27.9?	52.76	N	159.47	E	36	D	4.8	0.6	27	OFF EAST COAST OF KAMCHATKA		
06	20	25	30.6%	59.330	N	152.368	W	60			34	SOUTHERN ALASKA. <AGS-P>.			
06	21	27	15.6?	31.28	S	68.77	W	122	?		0.2	6	SAN JUAN PROVINCE, ARGENTINA		
06	21	31	08.8	3.257	N	78.575	W	34	*	5.0	4.2	1.3	112	SOUTH OF PANAMA	
06	21	47	32.5	37.187	N	131.272	E	497	4.5	1.0	52	SEA OF JAPAN			
06	22	33	01.0?	39.04	N	22.73	E	10	G	0.5	6	GREECE			
06	23	12	15.6?	33.40	S	71.75	W	33	N	0.7	6	NEAR COAST OF CENTRAL CHILE			
06	23	21	39.2%	52.800	N	159.084	E	33	N	4.8	3.6	0.7	11	OFF EAST COAST OF KAMCHATKA	
06	23	41	26.5%	38.793	N	23.466	E	10	G	1.2	10	GREECE. ML 3.0 (ATH).			
07	00	44	40.2	34.782	N	32.665	E	33	N	1.0	8	CYPRUS. ML 3.0 (CSS). Felt at Limassol and Paphos.			
07	00	53	15.5	28.835	N	140.475	E	15	5.0	1.0	88	BONIN ISLANDS REGION			
07	01	01	18.4%	25.444	N	140.857	E	195	?	4.5	1.0	25	VOLCANO ISLANDS REGION		
07	01	12	21.4?	19.30	N	96.91	W	33	N	1.5	6	VERA CRUZ, MEXICO			
07	01	40	45.0	44.783	N	111.030	W	10	G	0.8	11	HEBGEN LAKE REGION. ML 3.5 (NEIS). Felt (II) at West Yellowstone, Montana. Also felt (II) at Old Faithful, Yellowstone National Park.			



07	03 04 27.17	21.43 S	34.70 E	33 N	1.3	6	MOZAMBIQUE	
07	04 33 55.2*	30.369 S	67.860 W	30 *	1.3	11	SAN JUAN PROVINCE, ARGENTINA	
07	04 40 47.1*	30.275 S	67.913 W	33 N	1.3	10	SAN JUAN PROVINCE, ARGENTINA	
07	05 21 35.6	44.497 N	149.410 E	52 D	0.9	107	KURIL ISLANDS. Felt (II) at Kurilsk.	
07	05 32 41.3	28.534 N	140.411 E	48 *	0.9	84	BONIN ISLANDS REGION	
07	05 45 46.2	28.701 N	140.373 E	33 N	4.8 4.5	1.1	38	BONIN ISLANDS REGION
07	06 01 34.9	28.621 N	140.383 E	33 N	4.9	1.0	79	BONIN ISLANDS REGION
07	07 32 37.3	32.560 S	69.730 W	128 *	3.3	1.1	22	MENDOZA PROVINCE, ARGENTINA. Felt (II) at Mendoza.
07	07 50 46.2	38.599 N	24.352 E	10 G		0.5	13	AEGEAN SEA. ML 3.8 (ATH).
07	07 54 49.3*	46.362 N	23.023 E	125 ?		1.3	7	ROMANIA
07	08 20 14.6&	59.444 N	153.043 W	95			44	SOUTHERN ALASKA. <AGS-P>.
07	09 35 36.1	28.688 N	140.294 E	59	4.9	0.9	67	BONIN ISLANDS REGION. Felt (I JMA) on Chichi-shima.
a	09 36 12.1	28.735 N	140.342 E	48	5.1 5.4	1.3	122	BONIN ISLANDS REGION. Ms 5.4 (BRK).
07	11 25 04.4	7.993 S	74.382 W	157 D	4.4	0.8	32	PERU-BRAZIL BORDER REGION
07	11 33 55.7*	23.725 N	122.381 E	10 G		0.3	5	TAIWAN REGION
07	12 01 28.3	4.226 S	152.692 E	57	4.9 4.2	1.1	38	NEW BRITAIN REGION
07	12 28 40.1	12.301 N	144.477 E	33 N	5.0	0.9	23	SOUTH OF MARIANA ISLANDS
07	12 30 44.8&	60.260 N	146.365 W	8			48	SOUTHERN ALASKA. <AGS-P>. ML 3.4 (PMR).
07	12 47 12.5	8.442 S	122.034 E	196 *	5.2	1.3	45	FLORES ISLAND REGION
07	13 32 17.9?	51.08 N	178.04 W	33 N	5.1	1.4	11	ANDREANOF ISLANDS, ALEUTIAN IS.
07	14 41 35.2?	59.38 N	6.80 E	10 G		0.8	5	SOUTHERN NORWAY. DUR 2.4 (BER).
07	14 49 06.4?	41.91 N	24.26 E	10 G		0.7	6	GREECE-BULGARIA BORDER REGION
07	16 12 36.0	23.824 S	179.798 W	507 *	5.1	1.0	76	SOUTH OF FIJI ISLANDS
07	16 18 36.3	61.378 N	8.032 E	15 G		1.2	5	SOUTHERN NORWAY. DUR 2.3 (BER).
07	16 29 01.9	35.543 N	140.136 E	64	4.9	0.9	87	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Tokyo and Chiba, (II JMA) at Yokohama and Kofu, (I JMA) at Utsunomiya and Kawaguchi. Also felt (II JMA) on Oshima.
07	18 06 14.3&	34.390 N	120.110 W	2		7	7	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS). Felt at Goleta.
07	18 23 58.5	26.931 N	96.195 E	33 N	4.9	1.3	85	BURMA
07	19 24 48.1*	40.295 N	25.593 E	10 G		0.5	6	AEGEAN SEA
07	20 15 11.6%	45.545 N	2.883 E	10 G		1.1	12	FRANCE. ML 2.3 (LDG).
07	21 04 37.2	57.242 N	155.585 W	64	4.5	1.2	37	ALASKA PENINSULA
07	21 53 29.7	30.376 S	67.643 W	16		1.2	19	SAN JUAN PROVINCE, ARGENTINA
a	08 01 24 50.9*	31.696 S	178.552 W	33 N	5.4	1.4	34	KERMADEC ISLANDS REGION. Felt on Raoul Island.
08	01 58 54.8?	31.17 S	68.40 W	109 ?		0.2	5	SAN JUAN PROVINCE, ARGENTINA
08	02 26 37.3*	44.808 N	112.849 W	5 G		1.1	6	EASTERN IDAHO. ML 2.9 (NEIS).
08	04 49 14.5	43.078 N	1.516 W	10 G		0.9	12	PYRENEES
08	07 54 52.2	46.041 N	7.746 E	10 G		1.1	10	SWITZERLAND. ML 2.5 (LDG).
08	08 15 40.4*	19.384 N	144.076 E	110 *	4.7	0.8	15	MARIANA ISLANDS
08	08 23 11.8*	38.215 S	178.412 E	98 *	4.8	1.1	13	OFF E. COAST OF N. ISLAND, N.Z.
08	09 10 36.1*	55.895 S	27.497 W	33 N	4.8 4.2	0.7	15	SOUTH SANDWICH ISLANDS REGION
08	09 32 38.0*	21.915 N	119.782 E	33 N		0.2	7	TAIWAN REGION
08	09 42 18.2?	39.40 N	29.09 E	10 G		1.5	5	TURKEY
08	10 20 26.9*	18.007 S	176.505 W	371 *	4.9	1.2	26	FIJI ISLANDS REGION
08	10 24 30.2*	33.778 S	71.728 W	21 *		0.5	13	NEAR COAST OF CENTRAL CHILE
08	10 37 44.1	46.832 N	11.402 E	12		0.9	38	NORTHERN ITALY. ML 3.9 (VKA), 3.7 (GRF), 3.5 (KBA).
08	10 55 55.8*	33.488 S	72.054 W	10 G		1.1	14	OFF COAST OF CENTRAL CHILE
08	11 42 21.3?	40.37 N	26.00 E	10 G		1.4	7	TURKEY
08	13 08 23.2*	44.255 N	114.199 W	10 G		0.5	9	WESTERN IDAHO. ML 3.4 (NEIS).
a	13 19 15.8	6.184 N	126.858 E	88	5.7	1.1	139	MINDANAO, PHILIPPINE ISLANDS
08	13 34 55.1?	33.63 S	72.02 W	33 N		0.4	11	OFF COAST OF CENTRAL CHILE
08	13 48 48.6	7.028 N	76.714 W	33 N	4.6 4.3	1.2	57	NORTHERN COLOMBIA
08	14 15 41.6	22.243 N	143.577 E	141	4.9	1.0	96	VOLCANO ISLANDS REGION
08	14 23 40.0?	12.48 N	88.58 W	33 N	4.7	1.5	15	OFF COAST OF CENTRAL AMERICA
08	16 00 44.3	33.296 S	72.074 W	33 N	4.6	1.3	27	OFF COAST OF CENTRAL CHILE. Felt (V) at San Antonio.
08	16 53 41.7?	33.18 S	72.06 W	10 G		0.2	9	OFF COAST OF CENTRAL CHILE
08	17 37 28.5&	62.292 N	151.337 W	83			26	CENTRAL ALASKA. <AGS-P>.
08	18 14 45.0*	31.322 S	68.429 W	114 ?		1.1	15	SAN JUAN PROVINCE, ARGENTINA
08	19 13 18.5	40.428 N	25.835 E	10 G		0.9	15	AEGEAN SEA
08	20 22 59.0*	23.805 S	70.086 W	33 N		1.3	5	NEAR COAST OF NORTHERN CHILE
08	20 30 00.3	38.959 N	26.015 E	18		1.0	17	AEGEAN SEA. ML 3.5 (ATH).
08	20 51 59.2%	18.177 N	98.529 W	33 N		0.7	5	CENTRAL MEXICO
08	22 39 26.5	46.752 N	6.469 E	10 G		0.9	26	SWITZERLAND. ML 3.2 (LDG).
08	22 52 38.1*	34.849 N	32.533 E	34 *	4.0	1.2	14	CYPRUS
08	23 20 17.9*	5.625 S	151.971 E	33 N	3.7	1.4	8	NEW BRITAIN REGION
08	23 34 45.5	7.383 S	107.464 E	61 *	5.1	1.0	71	JAVA
08	23 50 00.0	5.727 S	151.158 E	33 N	4.2	1.1	10	NEW BRITAIN REGION
09	00 38 42.1	33.219 N	81.661 W	5 G		0.7	20	SOUTH CAROLINA. mbLg 2.7 (NEIS). Felt (III) at the Savannah River Plant.
09	00 50 30.0&	31.750 N	115.800 W	6 G			10	BAJA CALIFORNIA. <PAS-P>. ML 4.5 (PAS).
09	01 04 57.4&	31.930 N	115.880 W	6 G			8	BAJA CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
09	01 06 38.9	32.256 N	138.460 E	291	4.3	0.9	39	SOUTH OF HONSHU, JAPAN
09	01 10 53.0	20.469 S	169.118 E	40 D	4.8	1.2	51	VANUATU ISLANDS
09	01 22 59.4*	63.060 N	150.411 W	116 *	4.1	0.8	13	CENTRAL ALASKA
09	03 39 18.1*	33.364 S	71.713 W	26		0.8	12	NEAR COAST OF CENTRAL CHILE
09	03 59 06.4*	39.395 N	73.393 E	33 N	4.2	1.4	11	TAJIK-XINJIANG BORDER REGION
09	04 37 34.2?	27.73 N	139.91 E	463 ?	4.0	1.2	7	BONIN ISLANDS REGION
09	05 22 40.4	21.935 N	102.598 E	33 N	4.3	0.9	7	SOUTHEAST ASIA
09	05 53 01.4	44.881 N	112.694 W	5 G		0.6	10	EASTERN IDAHO. ML 3.0 (NEIS).
09	06 47 54.2?	28.34 N	141.17 E	33 N	4.4	1.0	7	BONIN ISLANDS REGION
09	07 45 45.9%	40.285 N	27.276 E	10 G		0.4	5	TURKEY
09	08 03 44.4	24.376 S	179.867 E	519 ?	4.8	1.0	50	SOUTH OF FIJI ISLANDS
09	08 23 03.9	36.523 N	140.680 E	63	4.5	0.7	15	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Mito.
09	08 44 54.7*	33.419 S	71.619 W	10 G		0.7	13	NEAR COAST OF CENTRAL CHILE
09	11 23 17.9	60.084 N	152.608 W	98 D	4.5	1.3	71	SOUTHERN ALASKA
09	12 53 45.3	5.214 S	68.626 E	10 G	5.0	0.7	48	CHAGOS ARCHIPELAGO REGION
09	12 54 24.0	0.135 N	122.029 E	208 *	4.9	0.9	52	MINAHASSA PENINSULA
09	13 14 11.0*	6.817 N	73.158 W	175	3.9	0.5	11	NORTHERN COLOMBIA
09	14 24 07.9	45.208 N	27.964 W	10 G	4.8 4.3	0.8	50	NORTH ATLANTIC RIDGE
09	15 57 08.6*	37.940 N	142.373 E	33 N	4.5	1.3	12	OFF EAST COAST OF HONSHU, JAPAN

a	09	16 39 34.8	21.555 S	170.396 E	149	5.3	1.1	93	LOYALTY ISLANDS REGION
	09	17 17 22.0	0.123 N	124.625 E	95 D	5.2	1.2	69	MINAHASSA PENINSULA
	09	17 49 28.6?	15.67 N	92.08 W	138 ?	4.1	1.1	18	MEXICO-GUATEMALA BORDER REGION
a	09	18 46 31.1	33.242 S	71.890 W	37 *	5.0 4.3	1.1	72	NEAR COAST OF CENTRAL CHILE. Felt (IV) at San Antonio. Felt also at Valparaiso.
	09	19 01 20.6?	33.36 S	71.89 W	33 N		1.1	10	NEAR COAST OF CENTRAL CHILE
	09	19 04 46.6?	33.21 S	72.52 W	33 N		0.2	9	OFF COAST OF CENTRAL CHILE. Felt (III) at San Antonio. Also felt at Valparaiso.
	09	19 06 48.3*	26.331 S	71.910 E	10 G	4.9 4.1	1.1	17	MID-INDIAN RISE
	09	19 07 57.2*	24.547 N	122.427 E	10 G		1.2	9	TAIWAN REGION
	09	19 20 18.6*	33.396 S	72.273 W	27	3.9	1.2	15	OFF COAST OF CENTRAL CHILE
	09	21 22 06.7	37.899 N	29.155 E	10 G	3.6	1.3	14	TURKEY
	09	22 34 57.4	52.311 N	170.609 W	79 *	4.5	0.9	35	FOX ISLANDS, ALEUTIAN ISLANDS
	09	23 01 33.3	46.048 N	13.420 E	10 G		1.4	22	AUSTRIA. ML 3.2 (KBA), 3.1 (LDG). Felt (IV) in the Volce-Tolmin area, Yugoslavia.
	10	00 16 15.2*	42.451 N	142.537 E	33 N	4.5	1.4	9	HOKKAIDO, JAPAN REGION. Felt (II JMA) at Urakawa.
	10	00 32 46.3*	21.627 S	69.142 W	164 ?	4.6	0.9	8	NORTHERN CHILE
	10	00 57 03.3&	37.542 N	121.828 W	5			15	CENTRAL CALIFORNIA. <BRK>. ML 3.2 (BRK). Ma=2.6*10**21 (BRK). Felt (III) at Fremant and (II) at Sunal.
	10	00 58 01.5&	34.210 N	116.820 W	11			6	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
	10	02 13 55.5%	33.032 S	68.628 W	5 G		1.0	7	MENDOZA PROVINCE, ARGENTINA
	10	02 14 51.3	1.335 S	126.362 E	33 N	5.0	1.1	29	MOLUCCA PASSAGE
	10	03 03 02.3%	40.633 N	29.196 E	10 G		1.0	9	TURKEY
a	10	03 23 31.7	3.029 N	78.578 W	18	5.6 4.7	1.1	195	SOUTH OF PANAMA
	10	03 23 34.5%	24.009 N	121.190 E	10 G		1.0	5	TAIWAN
	10	03 25 55.6*	45.196 N	28.041 W	10 G	4.7 4.1	0.9	25	NORTH ATLANTIC RIDGE
	10	05 02 54.1*	47.407 S	13.317 W	10 G	4.5	0.9	12	SOUTH ATLANTIC RIDGE
	10	07 33 56.4	14.831 S	177.988 W	366 D	5.0	0.9	146	FIJI ISLANDS REGION
	10	08 16 37.1	52.810 N	159.473 E	47 D	4.8	0.8	63	OFF EAST COAST OF KAMCHATKA. Felt (III) at Petropavlovsk-Kamchatskiy.
	10	09 27 04.9*	33.300 S	71.943 W	10 G		0.6	10	NEAR COAST OF CENTRAL CHILE
	10	09 57 17.0	4.966 S	151.694 E	146	5.1	1.0	42	NEW BRITAIN REGION
	10	11 25 49.0	47.452 N	11.701 E	26	4.4	1.2	51	AUSTRIA. ML 4.0 (FUR), 3.9 (VKA), 3.6 (LDG). Felt (V) in the Fugen-Ried area.
	10	11 41 53.5	40.536 N	35.845 E	10 G	4.8 4.5	1.1	93	TURKEY. Felt in the Carum-Amasya-Takat area.
	10	12 02 27.0	40.478 N	35.799 E	10 G	4.5	0.8	24	TURKEY
	10	12 22 38.3&	37.248 N	80.485 W	11			9	WEST VIRGINIA. <BLA>. DUR 2.8 (BLA). Felt (IV) at Blacksburg, Virginia. Felt (III) at Langshap and Maybrook, Virginia.
	10	12 50 20.7&	33.690 N	117.380 W	7			7	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS). Felt at Riverside.
	10	13 01 11.0*	45.764 N	111.407 W	5 G		1.3	6	MONTANA. ML 3.1 (NEIS).
	10	13 06 21.1*	33.228 S	71.993 W	10 G		0.3	10	NEAR COAST OF CENTRAL CHILE
	10	13 12 50.6?	1.42 S	101.54 E	33 N	4.2	0.6	5	SOUTHERN SUMATERA
	10	14 07 01.9*	42.622 N	126.414 W	10 G	4.5 3.7	0.9	12	OFF COAST OF OREGON
	10	14 51 01.4%	39.763 N	27.792 E	10 G		0.5	9	TURKEY
	10	15 00 29.8*	22.348 S	113.613 E	33 N		1.3	8	WESTERN AUSTRALIA
	10	15 28 41.1	55.619 N	4.741 E	10 G		1.2	31	NORTH SEA. ML 3.9 (EDI). Felt on the Garm and Tyra production platforms.
f	10	15 37 00.9	27.958 S	66.995 W	151	5.8	1.1	281	CATAMARCA PROVINCE, ARGENTINA. Felt (V) in the Bonete de las Punillas area. Felt in parts of Jujuy, San Juan, Mendoza and La Rioja Provinces. Felt (IV) at Capiapa, Chile.
	10	16 53 45.5	39.485 N	26.043 E	10 G		1.2	15	TURKEY
	10	19 15 05.7&	59.824 N	152.910 W	92			35	SOUTHERN ALASKA. <AGS-P>.
	10	21 30 03.1*	35.892 N	139.937 E	33 N		1.2	6	NEAR S. COAST OF HONSHU, JAPAN
	10	22 19 30.2?	0.53 S	99.49 E	53 ?	3.9	1.4	5	SOUTHERN SUMATERA
	10	23 10 33.6	18.412 S	69.173 W	130	4.8	1.3	32	NORTHERN CHILE
	10	23 13 13.0	13.221 N	89.994 W	33 N	4.6 3.8	1.1	65	EL SALVADOR
	11	00 22 06.9?	31.14 S	68.96 W	125 ?		1.0	7	SAN JUAN PROVINCE, ARGENTINA
	11	00 58 56.4*	18.593 N	145.542 E	187 *	4.5	0.6	18	MARIANA ISLANDS
	11	01 07 45.1?	31.02 S	68.77 W	114 ?		0.6	5	SAN JUAN PROVINCE, ARGENTINA
	11	01 29 21.2?	44.64 S	80.72 W	10 G	4.8	1.5	13	OFF COAST OF SOUTHERN CHILE
	11	02 03 20.1*	44.968 S	80.222 W	10 G	5.0 4.9	1.2	20	OFF COAST OF SOUTHERN CHILE
	11	02 57 14.1	37.956 N	29.189 E	10 G	3.8	1.0	15	TURKEY
	11	04 56 30.7?	5.18 S	151.01 E	33 N	3.7	0.8	6	NEW BRITAIN REGION
	11	05 01 51.9*	36.004 S	143.363 E	33 N		0.5	5	VICTORIA, AUSTRALIA. ML 2.8 (TOO), 2.6 (BFD).
	11	06 54 37.1*	1.712 S	14.967 W	10 G	4.7 4.7	0.8	11	NORTH OF ASCENSION ISLAND
	11	07 21 45.1&	39.166 N	111.470 W	0			8	UTAH. <SLC>. ML 2.8 (NEIS).
	11	08 04 58.2*	19.066 N	104.494 W	83 ?	4.6	1.3	19	NEAR COAST OF JALISCO, MEXICO. Felt strongly at Manzanillo.
	11	08 33 40.7	52.627 N	157.783 E	130 D	4.7	0.7	55	KAMCHATKA
	11	09 04 05.2*	17.869 S	178.860 W	627 ?	4.8	0.9	27	FIJI ISLANDS REGION
	11	09 34 08.4?	12.86 N	90.53 W	33 N	4.0 3.6	1.5	11	OFF COAST OF CENTRAL AMERICA
a	11	11 12 28.7	32.628 S	71.860 W	33 N	5.1 5.2	1.3	78	NEAR COAST OF CENTRAL CHILE. Felt (V) at Valparaiso and (III) at Santiago. Also felt at San Antonio.
	11	12 52 38.6	7.218 S	154.682 E	33 N	3.9	0.5	8	SOLOMON ISLANDS
	11	14 50 45.5*	33.688 S	71.511 W	30		1.0	12	NEAR COAST OF CENTRAL CHILE
	11	16 17 37.0*	4.526 N	95.513 E	110 *	4.3	1.5	25	NORTHERN SUMATERA
	11	17 02 59.4	21.348 S	179.385 W	626 *	4.8	1.1	37	FIJI ISLANDS REGION
	11	17 24 47.3?	59.42 N	6.57 E	10 G		1.3	5	SOUTHERN NORWAY. DUR 2.5 (BER).
	11	18 47 32.3*	3.166 S	146.412 E	33 N	4.4	1.3	6	BISMARCK SEA
	11	23 09 37.1*	44.499 N	114.216 W	5 G		0.6	8	WESTERN IDAHO. ML 3.0 (NEIS).
	12	02 04 06.1*	45.038 S	167.752 E	102 *	4.5	1.5	13	SOUTH ISLAND, NEW ZEALAND
	12	02 30 31.8&	61.498 N	146.433 W	28			37	SOUTHERN ALASKA. <AGS-P>.
	12	02 42 32.9*	37.495 N	22.140 E	33 N	3.8	1.1	9	SOUTHERN GREECE. ML 3.1 (ATH).
	12	02 52 53.7*	8.162 N	74.518 W	33 N		0.4	5	NORTHERN COLOMBIA
	12	02 57 50.3*	17.601 S	69.627 W	150 *	5.4	1.2	9	PERU-BOLIVIA BORDER REGION
	12	04 21 00.0?	51.58 N	16.28 E	12		0.5	8	POLAND
	12	06 13 06.5?	51.89 N	16.95 E	10 G		0.3	6	POLAND. ML 3.9 (GRF), 3.9 (VKA).
	12	07 05 51.8*	13.062 N	90.142 W	33 N	4.5	1.2	24	NEAR COAST OF GUATEMALA
	12	08 48 42.3*	4.726 S	130.478 E	33 N	4.4	1.4	8	BANDA SEA
	12	08 49 10.9	4.103 S	102.581 E	81 *	5.3	1.0	96	SOUTHERN SUMATERA

12	11 03 04.9	15.765 N	93.966 W	63	5 5	0.9	148	NEAR COAST OF CHIAPAS, MEXICO
12	12 17 49.5	39.668 N	28.623 E	10 G		1.3	7	TURKEY
12	12 45 33.7	62.348 N	149.043 W	46			26	CENTRAL ALASKA. <AGS-P>.
12	13 23 13.6	24.621 N	122.337 E	30	4.3 4.1	1.1	42	TAIWAN REGION. Felt on northern Taiwan.
12	14 05 19.1	43.123 N	27.490 E	10 G	4.3	1.0	52	BULGARIA
12	15 02 17.2	31.40 S	69.89 W	142 ?		0.2	8	SAN JUAN PROVINCE, ARGENTINA
12	15 15 00.0	37.248 N	116.489 W	0	5.5 4.5		220	SOUTHERN NEVADA. <DOE>. ML 5.3 (BRK). 37' 14' 52.28" N., 116' 29' 20.60" W., Surface Elev. 1900 m., Depth of Burial 608 m., Shot Time 151500.082, "SALUT", Nevada Test Site (Depth. of Energy).
o 12	17 22 51.6	24.585 N	122.078 E	28	5.2 5.8	1.3	175	TAIWAN REGION. Felt on northern Taiwan. Felt (I JMA) on Ishigaki-shima, Ryukyu Islands.
12	17 30 00.0	37.088 N	116.084 W	0	4.4		29	SOUTHERN NEVADA. <DOE>. ML 4.2 (BRK). 37' 05' 17.93" N., 116' 05' 02.17" W., Surface Elev. 1521 m., Depth of Burial 293 m., Shot Time 173000.088, "VILLE", Nevada Test Site (Depth. of Energy).
12	18 11 02.1	24.549 N	122.746 E	10 G		0.4	5	TAIWAN REGION
12	18 25 54.4	24.57 N	122.73 E	10 G		1.0	5	TAIWAN REGION
12	18 37 55.7	16.660 S	173.972 W	33 N	5.1	1.2	20	TONGA ISLANDS
12	19 29 39.9	37.21 N	20.73 E	10 G		0.8	14	IONIAN SEA. ML 3.5 (ATH).
12	19 36 49.5	54.709 N	161.519 E	32 D	4.7	0.9	25	NEAR EAST COAST OF KAMCHATKA
12	20 34 09.4	24.485 N	122.300 E	10 G	4.3	0.7	19	TAIWAN REGION. Felt on northern Taiwan.
12	20 35 01.8	39.612 N	29.496 E	9		0.9	18	TURKEY
12	23 02 29.6	19.489 S	68.653 W	148 *	4.4	0.8	10	CHILE-BOLIVIA BORDER REGION
12	23 26 17.1	11.82 S	117.30 E	33 N	3.9	1.4	5	SOUTH OF SUMBAWA ISLAND
12	23 45 47.2	36.662 N	21.803 E	96 *	4.1	1.3	25	SOUTHERN GREECE
13	00 53 09.8	38.947 N	25.949 E	10 G	4.4	1.3	98	AEGEAN SEA. ML 4.2 (ATH), 4.2 (SKO).
13	00 59 36.4	39.220 N	26.349 E	10 G		0.6	5	TURKEY
13	01 22 20.9	39.01 N	25.77 E	10 G		0.8	7	AEGEAN SEA
13	01 52 36.1	39.02 N	25.80 E	10 G		1.8	5	AEGEAN SEA
13	01 53 23.9	38.813 N	122.797 W	1			13	NORTHERN CALIFORNIA. <BRK>. ML 3.2 (BRK).
13	01 53 30.8	24.55 N	122.07 E	10 G		0.4	5	TAIWAN REGION
13	01 58 09.8	36.536 S	72.339 W	55 D	5.0	1.0	47	NEAR COAST OF CENTRAL CHILE. Felt (IV) at Chillan and (III) at Los Angeles. Felt also at Talcahuano and Concepcion.
13	01 58 13.4	35.762 N	34.909 W	10 G	4.8	1.2	21	AZORES ISLANDS REGION
13	03 10 14.1	39.243 N	26.479 E	10 G		1.4	7	TURKEY
13	03 15 17.1	24.53 N	122.10 E	10 G		0.6	4	TAIWAN REGION
13	03 37 48.5	15.199 N	61.321 W	145 *	4.6	0.6	42	LEEWARD ISLANDS
13	04 05 06.7	31.49 S	69.55 W	139 ?		0.1	6	SAN JUAN PROVINCE, ARGENTINA
13	04 19 25.4	63.641 N	148.990 W	33 N	4.9	0.7	99	CENTRAL ALASKA. ML 4.7 (PMR). Felt (V) at Cantwell, Healy and Denali National Park. Also felt at Broad Pass.
13	04 34 09.1	38.973 N	25.878 E	10		1.2	25	AEGEAN SEA. ML 3.5 (ATH).
13	04 34 53.9	7.56 S	27.56 E	33 N		0.6	5	ZAIRE REPUBLIC
13	04 42 53.6	38.68 N	67.46 E	33 N	4.3	1.8	6	SOUTHEASTERN UZBEK SSR. Felt (III) at Pendzhikent and Gezani-Poyen.
13	06 58 04.5	37.390 N	121.800 W	0			10	CENTRAL CALIFORNIA. <BRK>. ML 2.3 (BRK). Felt in the eastern part of San Jose.
13	08 14 45.3	16.11 N	39.63 E	10 G	4.7	0.3	7	ETHIOPIA
13	09 46 44.7	39.004 N	25.912 E	10 G		1.3	9	AEGEAN SEA
13	10 11 21.0	9.226 S	158.469 E	33 N	3.8	0.7	5	SOLOMON ISLANDS
13	10 21 53.0	61.101 N	151.179 W	65			27	SOUTHERN ALASKA. <AGS-P>.
o 13	11 19 37.8	45.147 S	95.819 E	10 G	5.1 5.2	0.9	18	SOUTHEAST INDIAN RISE
13	11 19 59.0	24.112 N	121.698 E	7		0.3	8	TAIWAN
13	11 42 32.3	14.729 N	90.546 W	223 D	5.0	1.0	186	GUATEMALA. Felt (II) at San Salvador, El Salvador.
13	12 32 00.4	24.507 N	122.261 E	10 G	4.1	0.7	7	TAIWAN REGION
13	12 43 32.1	13.821 N	144.646 E	158	4.8	1.0	56	MARIANA ISLANDS
13	12 54 48.2	36.991 N	26.208 E	33 N	3.9	1.5	8	DODECANESE ISLANDS. ML 4.0 (ATH).
13	13 13 10.7	36.258 N	69.476 E	65 ?	4.4	0.6	12	HINDU KUSH REGION
13	13 51 56.7	8.057 S	120.209 E	234 *	4.8	0.9	17	FLORES ISLAND REGION
13	13 56 31.3	24.662 N	122.518 E	10 G		1.7	6	TAIWAN REGION
13	14 21 04.0	60.286 N	5.070 E	10 G		0.4	5	SOUTHERN NORWAY. DUR 2.0 (BER).
13	14 44 09.6	43.161 N	25.347 E	10 G		0.9	5	BULGARIA
13	14 51 02.8	20.294 N	122.313 E	33 N	4.6	1.2	23	PHILIPPINE ISLANDS REGION
13	14 57 44.2	36.627 N	76.961 E	33 N	5.0	1.6	17	KASHMIR-XINJIANG BORDER REGION
13	14 59 57.4	44.550 N	6.940 E	10 G		0.6	7	FRANCE. ML 2.9 (LDG).
13	15 29 06.8	6.871 S	147.242 E	10 G	3.5	1.0	5	EAST PAPUA NEW GUINEA REGION
13	15 58 21.8	36.896 N	77.166 E	33 N	4.4	1.2	6	KASHMIR-XINJIANG BORDER REGION
13	16 01 09.7	9.811 S	159.975 E	33 N	4.9	1.3	24	SOLOMON ISLANDS. Felt at Honiara.
13	17 27 06.9	30.937 S	178.143 W	33 N	4.7	0.7	9	KERMADEC ISLANDS
13	19 36 35.4	33.085 N	137.666 E	350	4.9	1.0	170	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Utsunomiya.
13	19 47 08.3	24.54 N	122.06 E	10 G		0.9	5	TAIWAN REGION
13	20 05 29.6	22.788 N	121.472 E	14	4.5	1.1	34	TAIWAN REGION
13	20 44 34.4	37.81 N	21.90 E	10 G		0.9	4	SOUTHERN GREECE. ML 3.1 (ATH).
13	20 50 15.6	23.160 N	121.408 E	10 G		0.5	5	TAIWAN
13	20 54 49.8	9.478 S	113.742 E	98 *	5.1	1.3	35	SOUTH OF JAVA
13	21 13 19.3	33.87 N	72.10 E	33 N		0.7	5	PAKISTAN
13	21 18 16.1	37.13 N	14.88 E	10 G	3.9	1.7	19	SICILY
13	21 39 20.0	59.31 N	6.88 E	10 G		1.0	5	SOUTHERN NORWAY. DUR 2.1 (BER).
13	22 18 25.2	33.271 S	72.939 W	33 N		1.1	15	OFF COAST OF CENTRAL CHILE
13	22 30 07.1	78.479 N	6.723 E	10 G	4.5	1.2	17	SVALBARD REGION
13	23 17 54.9	42.090 N	142.065 E	56 *	4.5	1.2	26	HOKKAIDO, JAPAN REGION. Felt (I JMA) at Urukawa.
14	00 00 43.8	37.464 N	22.343 E	71	4.1	0.7	33	SOUTHERN GREECE
14	01 35 06.6	31.28 S	68.66 W	124 ?		0.3	5	SAN JUAN PROVINCE, ARGENTINA
14	02 00 09.0	3.74 S	133.35 E	33 N		1.6	5	WEST IRIAN REGION
14	02 22 20.8	3.78 S	135.93 E	33 N	3.8	1.7	5	WEST IRIAN REGION
14	03 20 18.5	38.446 N	39.420 E	10 G	4.2	0.7	5	TURKEY
14	03 20 24.9	24.53 N	122.03 E	10 G		0.5	5	TAIWAN REGION
14	03 27 24.5	26.229 S	27.535 E	5 G	4.4	1.1	9	REPUBLIC OF SOUTH AFRICA
14	04 21 11.7	14.58 S	69.04 W	147 ?		1.3	7	PERU-BOLIVIA BORDER REGION
14	04 34 22.3	10.233 N	93.745 E	33 N	4.7	1.2	30	ANDAMAN ISLANDS REGION

14	05 27 20.97	33.31 S	71.94 W	33 N	0.8	11	NEAR COAST OF CENTRAL CHILE
14	05 58 53.2*	24.789 N	121.951 E	10 G	0.5	5	TAIWAN
14	06 19 25.7*	81.243 N	5.098 W	10 G	1.5	13	NORTH OF SVALBARD
14	07 03 49.07	33.80 S	71.92 W	33 N	1.0	11	NEAR COAST OF CENTRAL CHILE
14	07 11 13.4	6.758 N	73.031 W	164	4.8	79	NORTHERN COLOMBIA. Felt at Bogota.
14	07 43 57.9	17.679 N	94.553 W	154	4.8	108	CHIAPAS, MEXICO
14	09 10 02.9*	43.441 N	20.971 E	10 G	1.4	7	YUGOSLAVIA. ML 3.1 (TTG). Felt in the Mount Kopaonik area.
14	10 20 21.6*	24.535 N	122.048 E	10 G	0.6	6	TAIWAN REGION
14	10 42 18.3	23.089 N	120.570 E	10 G	1.3	7	TAIWAN
14	11 24 03.1*	36.162 N	120.268 W	9	23		CENTRAL CALIFORNIA. <BRK>. ML 3.2 (BRK). Felt (III) at Huron and Raisin. Also felt at Coalinga.
14	11 50 11.3	49.629 N	16.612 E	0 G	1.3	14	CZECHOSLOVAKIA. ML 3.9 (VKA), 3.6 (GRF). Explosion.
14	12 17 00.1*	42.512 N	24.149 E	10 G	1.7	7	BULGARIA
a 14	13 14 14.8	40.767 S	74.953 W	33 N	5.5 4.6	106	OFF COAST OF SOUTHERN CHILE
14	14 09 30.67	23.61 S	69.81 W	33 N	1.2	4	NORTHERN CHILE. Felt (II) at Antofagosto.
14	16 07 26.9*	60.716 N	5.585 E	10 G	0.1	5	SOUTHERN NORWAY. DUR 1.9 (BER).
14	16 59 45.8*	3.207 S	145.773 E	33 N	4.2	1.5	7 NEAR N COAST OF PAPUA NEW GUINEA
14	17 19 05.9*	29.808 N	79.312 E	33 N	3.9	1.5	9 NORTHERN INDIA
14	18 16 02.1*	5.547 S	151.177 E	33 N	3.7	1.4	5 NEW BRITAIN REGION
14	19 45 22.5*	36.227 N	24.403 E	33 N	3.8	1.7	8 SOUTHERN GREECE. ML 3.6 (ATH).
14	19 53 37.8	29.149 S	69.716 W	101	5.0	1.3	46 CHILE-ARGENTINA BORDER REGION
14	20 48 29.9*	17.024 N	95.050 W	157 *	4.3	1.2	18 OAXACA, MEXICO
15	00 16 10.67	51.34 N	16.10 E	10 G	0.8	5	POLAND. ML 3.4 (VKA).
15	00 16 11.27	33.69 S	72.04 W	33 N	1.1	10	OFF COAST OF CENTRAL CHILE
15	00 40 19.8	56.453 N	12.028 E	33 N	1.1	60	SWEDEN. ML 4.4 (UPP). Felt in the Varberg-Malma-Kristianstad area. Felt also in parts of Denmark.
15	00 57 00.7	49.889 N	78.881 E	0 G	6.0 4.4	0.9	413 EASTERN KAZAKH SSR. Underground nuclear explosion (Dept. of Energy press release N85-026).
15	02 42 55.7	3.043 N	124.514 E	307 *	4.9	1.0	46 CELEBES SEA
15	03 43 37.07	5.17 S	25.03 E	10 G	1.4	6	ZAIRE REPUBLIC
15	04 29 55.6*	15.179 S	71.660 W	144 *	4.5	1.3	21 SOUTHERN PERU
15	04 59 37.6*	39.222 N	26.450 E	10 G	1.1	5	TURKEY
15	05 30 00.8*	60.147 N	153.177 W	115		24	SOUTHERN ALASKA. <AGS-P>.
15	05 42 29.57	10.18 S	166.19 E	176 ?	4.1	0.9	11 SANTA CRUZ ISLANDS
15	06 35 48.0*	21.486 S	68.322 W	146 *		1.5	11 CHILE-BOLIVIA BORDER REGION
15	08 01 38.9*	24.678 N	122.422 E	10 G	3.9	1.4	8 TAIWAN REGION
15	09 14 16.8*	5.374 S	153.673 E	83 *	4.3	1.3	14 NEW IRELAND REGION
15	10 01 40.7*	24.579 N	122.023 E	10 G	3.9	0.4	5 TAIWAN REGION
15	10 02 26.4*	24.611 N	122.410 E	10 G	4.6	1.1	8 TAIWAN REGION
15	12 48 11.4*	6.348 S	147.498 E	73 *	4.4	1.3	16 EAST PAPUA NEW GUINEA REGION
15	12 56 56.8	33.045 S	68.820 W	23		1.1	16 MENDOZA PROVINCE, ARGENTINA
15	14 16 32.5*	37.703 N	29.234 E	10 G		0.6	5 TURKEY
15	14 53 52.97	21.47 S	68.04 W	146 *		1.5	8 CHILE-BOLIVIA BORDER REGION
a 15	15 17 42.9	34.620 N	82.992 E	43	5.4 5.2	0.9	196 TIBET
15	15 23 44.0*	60.071 N	153.304 W	125		1.8	SOUTHERN ALASKA. <AGS-P>.
15	16 06 14.37	7.60 S	128.76 E	144 ?	4.3	1.1	12 BANDA SEA
15	18 49 52.5*	59.101 N	147.768 W	42		51	GULF OF ALASKA. <AGS-P>. ML 3.3 (PMR).
15	20 18 01.2*	3.126 S	146.303 E	22 *	4.1	0.5	6 BISMARCK SEA
15	20 27 59.7*	30.340 S	71.710 W	33 N		1.1	16 NEAR COAST OF CENTRAL CHILE
15	20 58 23.7*	28.328 S	67.249 W	158 *		0.8	7 LA RIOJA PROVINCE, ARGENTINA
15	21 01 15.1*	24.670 N	122.489 E	10 G	4.3	1.4	7 TAIWAN REGION
15	21 23 00.3*	45.977 N	2.763 E	10 G		0.3	6 FRANCE. ML 1.9 (LDG).
15	21 34 34.2*	34.717 N	83.269 E	33 N	4.3	1.4	12 TIBET
15	22 17 34.6*	59.803 N	139.136 W	15		13	SOUTHEASTERN ALASKA. <AGS-P>.
16	00 20 07.37	39.01 N	26.31 E	10 G		1.1	6 TURKEY
16	00 37 13.5	71.362 N	11.148 W	10 G	5.1 4.6	1.1	124 JAN MAYEN ISLAND REGION
16	00 43 23.5*	3.427 S	146.789 E	33 N	4.5	1.2	8 BISMARCK SEA
16	01 40 32.5	52.235 N	159.972 E	33 N	4.8 4.2	0.9	58 OFF EAST COAST OF KAMCHATKA
16	04 20 40.6*	0.166 S	99.168 E	101 *	4.1	0.7	7 SOUTHERN SUMATERA
16	05 05 14.0	44.544 N	9.761 E	10 G		0.9	30 NORTHERN ITALY. ML 3.3 (LDG).
16	05 38 27.8	46.615 N	9.769 E	10 G		0.8	9 SWITZERLAND
16	05 57 55.17	41.22 S	90.44 W	10 G	4.5 4.6	1.8	13 SOUTHERN PACIFIC OCEAN
16	06 03 47.1	28.621 N	140.550 E	33 N	4.9	1.0	45 BONIN ISLANDS REGION
16	06 10 25.5*	18.590 N	145.576 E	170 *	4.8	0.7	15 MARIANA ISLANDS
16	07 25 01.4*	13.313 N	90.236 W	33 N	4.3	1.4	30 NEAR COAST OF GUATEMALA
16	07 45 19.5*	52.419 S	26.314 E	10 G	4.5	1.3	11 SOUTH OF AFRICA
16	08 42 00.7*	16.955 N	92.357 W	33 N		1.7	5 CHIAPAS, MEXICO
16	08 55 24.17	34.00 S	72.26 W	33 N		0.8	11 OFF COAST OF CENTRAL CHILE
16	09 16 30.4	0.672 S	124.094 E	64 D	5.0	1.3	79 MOLUCCA SEA
16	10 02 50.6*	3.569 N	74.269 W	33 N		1.3	5 COLOMBIA
16	10 22 58.9*	47.437 N	121.851 W	18		8	WASHINGTON. <SEA>. CL 3.1 (SEA), ML 3.4 (NEIS).
16	10 26 58.8*	32.960 N	117.820 W	6 G		14	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.9 (PAS).
16	10 53 10.57	56.26 S	147.36 E	10 G	4.4	1.2	5 WEST OF MACQUARIE ISLAND
16	11 07 19.2*	40.132 N	25.531 E	10 G		1.5	10 AEGEAN SEA
16	11 11 43.4*	40.036 N	25.570 E	10 G		1.1	7 AEGEAN SEA
16	11 27 49.4*	10.623 S	166.059 E	187 ?	4.2	1.0	10 SANTA CRUZ ISLANDS
a 16	11 43 15.1	56.345 S	146.998 E	10 G	5.0 4.9	1.1	33 WEST OF MACQUARIE ISLAND
16	11 46 07.1*	39.117 N	27.566 E	10 G		1.2	5 TURKEY
16	12 08 30.1	11.609 S	117.965 E	33 N	4.7	0.9	14 SOUTH OF SUMBAWA ISLAND
16	12 11 06.0	17.738 N	97.341 W	99 *	4.2	0.9	15 OAXACA, MEXICO
16	12 35 03.2	0.148 S	123.805 E	134 *	5.0	1.2	68 MINAHASSA PENINSULA
16	13 51 28.4*	60.287 N	153.053 W	138		35	SOUTHERN ALASKA. <AGS-P>.
16	14 54 51.6	39.234 N	26.320 E	12		0.7	13 TURKEY
16	15 10 43.8	43.280 N	20.907 E	10 G		1.0	18 YUGOSLAVIA. ML 4.1 (TRI), 3.1 (TTG).
16	16 59 48.97	35.33 N	22.09 E	10 G	4.4	1.7	12 MEDITERRANEAN SEA. ML 4.0 (ATH).
16	17 51 51.3	4.619 S	153.324 E	92	5.0	1.1	50 NEW IRELAND REGION. Felt (V) at Raboul, New Britain.
16	20 08 17.6	32.699 N	130.086 E	12		1.0	8 KYUSHU, JAPAN. Felt (II JMA) at Unzendake and Nagasaki.
16	20 56 22.9	9.430 S	148.531 E	5 G	5.2	1.1	101 EAST PAPUA NEW GUINEA REGION
16	22 17 35.9*	4.579 S	143.063 E	33 N	3.5	1.1	5 PAPUA NEW GUINEA
16	22 34 44.57	35.54 S	73.24 W	33 N		1.1	19 OFF COAST OF CENTRAL CHILE
16	23 35 22.07	31.51 S	67.97 W	92 ?		0.4	5 SAN JUAN PROVINCE, ARGENTINA

17	01 09 26.8	17.579 S	178.634 W	556	5.1	1.1	45	FIJI ISLANDS REGION
17	02 17 40.0	45.591 N	2.777 E	10 G		0.8	8	FRANCE. ML 2.3 (LDG).
17	02 26 00.7*	33.594 S	71.493 W	10 G		0.9	13	NEAR COAST OF CENTRAL CHILE
17	02 48 32.0	34.599 N	82.831 E	33 N	4.8	0.9	59	TIBET
17	04 03 05.6*	33.072 S	72.383 W	33 N		0.4	11	OFF COAST OF CENTRAL CHILE
17	04 24 05.1*	31.644 N	82.305 E	33 N	4.6	1.3	14	TIBET
17	05 58 42.5*	0.017 N	99.329 E	33 N		0.4	5	NORTHERN SUMATERA
a 17	06 31 59.7	9.374 S	148.600 E	30	5.5	1.0	103	EAST PAPUA NEW GUINEA REGION
17	07 00 17.1&	47.058 N	120.050 W	1			5	WASHINGTON. <SEA>. CL 3.0 (SEA), ML 3.3 (NEIS).
17	07 08 23.0?	6.09 S	80.75 W	33 N	4.3	1.6	6	NEAR COAST OF NORTHERN PERU
17	07 36 18.6	37.662 N	20.738 E	47 *	4.5	1.4	38	IONIAN SEA
17	08 10 46.5*	44.819 N	110.982 W	5 G		1.2	13	YELLOWSTONE NATIONAL PARK, WYO. ML 3.5 (NEIS). Felt (III) at Old Faithful.
17	08 17 48.7*	34.268 S	72.215 W	33 N		0.9	18	NEAR COAST OF CENTRAL CHILE
17	09 03 12.6*	5.812 S	151.419 E	14 *	4.7	1.4	29	NEW BRITAIN REGION. Felt (V) at Rabaul.
17	09 54 56.3?	31.17 S	68.24 W	94 ?		0.2	5	SAN JUAN PROVINCE, ARGENTINA
17	11 31 58.5?	33.11 S	72.49 W	33 N		0.5	10	OFF COAST OF CENTRAL CHILE
17	12 09 10.4*	32.985 S	72.672 W	33 N		0.4	13	OFF COAST OF CENTRAL CHILE
17	14 12 25.3*	24.389 S	67.116 W	214 *		0.5	7	CHILE-ARGENTINA BORDER REGION
17	14 51 19.6	11.689 S	166.602 E	128 D	5.2	1.1	81	SANTA CRUZ ISLANDS
17	15 22 35.3?	33.13 S	72.54 W	33 N		0.7	9	OFF COAST OF CENTRAL CHILE
17	17 19 42.7?	5.98 S	151.68 E	33 N	3.6	1.1	7	NEW BRITAIN REGION
17	18 18 09.5?	34.95 N	139.82 E	33 N		0.6	5	NEAR S. COAST OF HONSHU, JAPAN
a 17	19 12 38.8	30.276 N	132.681 E	26	5.8 5.3	0.9	302	SOUTHEAST OF SHIKOKU, JAPAN. Felt (I JMA) at Kagoshima, Kyushu.
17	21 01 00.4?	39.78 N	26.22 E	10 G		0.4	6	TURKEY
17	21 52 49.2	25.591 N	90.229 E	22 *	4.7	1.1	51	INDIA-BANGLADESH BORDER REGION
17	22 12 10.3?	8.80 S	128.56 E	33 N		1.2	7	TIMOR SEA
17	22 43 54.2*	14.936 S	173.638 W	33 N	4.6	0.8	8	SAMOA ISLANDS REGION
17	23 06 59.2?	10.38 S	40.08 E	10 G		0.3	5	TANZANIA
17	23 15 09.0*	16.500 N	120.470 E	5 G	4.2	1.1	6	LUZON, PHILIPPINE ISLANDS. Felt (III RF) at Baguio.
17	23 28 10.1*	42.335 N	25.086 E	10 G		1.1	6	BULGARIA
17	23 43 35.7?	33.43 S	72.52 W	33 N		1.2	13	OFF COAST OF CENTRAL CHILE
17	23 51 28.5?	34.96 N	137.62 E	301 *	3.6	0.4	10	NEAR S. COAST OF HONSHU, JAPAN
18	00 12 55.0&	32.680 N	117.150 W	6 G			14	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.9 (PAS). Felt (V) at Imperial Beach, National City, Poway and Escondido. Felt (IV) at Bonita, El Cajon, Jamul, La Mesa, Lemon Grove, San Diego and Salana Beach.
18	00 23 55.5&	59.832 N	152.492 W	69			31	SOUTHERN ALASKA. <AGS-P>.
18	00 24 11.4&	31.990 N	116.440 W	6 G			11	BAJA CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
18	01 23 40.8&	35.230 N	117.320 W	8			14	CENTRAL CALIFORNIA. <PAS-P>. ML 3.8 (PAS). Felt (III) at Barstow and Hinkley.
18	01 34 03.0*	21.903 S	68.422 W	132 *	4.6	1.6	28	CHILE-BOLIVIA BORDER REGION
18	02 02 54.4?	32.66 S	72.74 W	33 N		0.5	11	OFF COAST OF CENTRAL CHILE
18	03 22 28.6&	32.680 N	117.150 W	6 G			28	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 4.0 (PAS). Felt (V) at National City and Poway. Felt (IV) at Chula Vista, El Cajon, Escondido, Imperial Beach, Lakeside, Nestor, Oceanside, San Diego, Salana Beach and Spring Valley. Felt (III) at Campo, Bonsall, Julian, La Jolla and Tecate.
18	03 39 40.7*	44.586 N	9.904 E	10 G		0.9	11	NORTHERN ITALY. ML 2.8 (LDG).
18	04 09 17.5	44.576 N	9.693 E	10 G		1.1	33	NORTHERN ITALY. ML 3.5 (LDG), 3.5 (TRI), 3.2 (KBA).
18	04 28 14.8&	32.670 N	117.170 W	6 G			21	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.8 (PAS). Felt (IV) at Poway and San Diego. Felt (III) at Julian.
18	04 36 54.2*	25.815 N	45.035 W	10 G	4.5 4.1	1.3	13	NORTH ATLANTIC RIDGE
18	04 52 55.1	45.667 N	11.022 E	10 G		1.2	30	NORTHERN ITALY. ML 3.6 (KBA), 3.4 (TRI), 3.4 (LDG).
18	05 07 27.9*	24.705 N	121.752 E	33 N		0.8	7	TAIWAN
18	05 24 49.6*	36.578 N	140.426 E	120	4.1	0.4	11	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Mito.
18	05 53 23.1*	24.029 N	122.463 E	32	4.3	1.3	20	TAIWAN REGION
18	05 59 17.9*	8.630 S	123.714 E	33 N	4.8	1.6	11	FLORES ISLAND REGION
18	07 56 06.1?	17.46 N	100.91 W	33 N		0.7	6	GUERRERO, MEXICO
18	09 31 13.9	2.727 N	128.491 E	229 *	4.6	0.8	46	HALMAHERA
18	11 10 48.8*	34.299 N	83.874 E	33 N	4.8	0.9	8	TIBET
18	12 53 34.7	5.761 N	126.721 E	142 *	4.6	0.7	23	MINDANAO, PHILIPPINE ISLANDS
18	14 06 57.8	3.146 S	102.948 E	197	5.0	1.0	43	SOUTHERN SUMATERA
18	17 32 09.5	17.462 N	101.185 W	33 N	4.5	1.3	50	NEAR COAST OF GUERRERO, MEXICO
18	17 48 09.8*	33.641 S	72.269 W	33 N	4.4	0.9	13	OFF COAST OF CENTRAL CHILE
18	18 02 14.7	3.402 S	146.717 E	33 N	5.1	1.3	24	BISMARCK SEA
18	18 12 48.2*	49.223 N	8.135 W	10 G		0.7	17	NORTH ATLANTIC OCEAN. ML 3.3 (LDG), 3.2 (HTL).
18	18 58 31.6&	61.451 N	151.754 W	90			33	SOUTHERN ALASKA. <AGS-P>.
18	21 11 35.8?	50.53 N	7.15 E	10 G		1.4	4	GERMANY
18	21 51 38.8&	32.700 N	117.150 W	9			4	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 2.6 (PAS). Felt at San Diego.
18	22 03 54.0*	63.827 N	149.162 W	33 N		1.0	8	CENTRAL ALASKA. ML 3.2 (PMR).
18	22 56 14.0*	37.411 S	145.802 E	10 G		1.5	6	NEAR S.E. COAST OF AUSTRALIA. ML 3.2 (BFD).
18	23 01 51.1?	30.59 S	69.59 W	33 N		1.2	5	CHILE-ARGENTINA BORDER REGION
19	00 23 14.5*	21.464 S	170.396 E	115 *	4.4	1.3	23	LOYALTY ISLANDS REGION
19	01 45 28.2	39.053 N	25.910 E	19	3.5	0.9	24	AEGEAN SEA. ML 3.5 (ATH).
19	02 08 50.1	39.097 N	26.008 E	21		1.0	14	TURKEY
19	02 46 59.8	6.939 S	143.430 E	33 N	3.7	0.9	9	PAPUA NEW GUINEA
19	03 09 51.6	18.238 N	102.523 W	33 N	4.4	1.3	53	MICHOACAN, MEXICO
19	03 19 41.1	40.336 N	25.969 E	10 G		1.4	10	AEGEAN SEA
19	03 22 47.0?	59.40 N	6.67 E	10 G		1.0	5	SOUTHERN NORWAY. DUR 2.0 (BER).
19	03 29 52.6*	24.542 N	121.981 E	10 G		0.2	6	TAIWAN
19	03 45 57.1?	31.23 S	69.03 W	135 ?		0.2	6	SAN JUAN PROVINCE, ARGENTINA
19	06 56 22.8*	49.038 N	6.759 E	10 G		0.8	6	GERMANY. mbLg 2.6 (DOU).
19	08 38 48.5?	31.24 S	68.30 W	100 ?		0.3	6	SAN JUAN PROVINCE, ARGENTINA
19	11 18 26.9*	37.053 N	140.854 E	37 *	3.7	1.0	8	HONSHU, JAPAN. Felt (II JMA) at Onahama and (I JMA) at Fukushima.
19	11 20 39.3&	32.710 N	117.120 W	10			8	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 2.6 (PAS). Felt at San Diego.
19	11 37 37.8&	32.700 N	117.130 W	10			8	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 2.5 (PAS). Felt (III) at San Diego.

19	12 44 10.6	16.135 S	173.229 W	33 N	4.8 4.6	1.0	60	TONGA ISLANDS
19	12 52 40.8	59.262 N	145.718 W	25			31	GULF OF ALASKA. <AGS-P>.
19	13 00 23.7	39.939 N	122.706 W	5 G		1.3	8	NORTHERN CALIFORNIA. ML 2.6 (BRK).
19	13 02 49.0	59.40 N	6.63 E	10 G		0.6	5	SOUTHERN NORWAY. DUR 2.4 (BER).
19	14 29 15.4	33.55 S	72.51 W	33 N		1.0	10	OFF COAST OF CENTRAL CHILE
19	14 48 01.5	70.493 N	15.360 W	10 G	4.3	1.2	19	JAN MAYEN ISLAND REGION
19	15 19 06.7	19.344 N	65.062 W	33 N	4.6	1.3	35	PUERTO RICO REGION. Felt on Puerto Rico.
19	17 45 49.7	37.808 N	113.822 W	7			12	UTAH. <SLC>. ML 3.0 (SLC).
19	18 18 58.1	60.162 N	152.543 W	101			30	SOUTHERN ALASKA. <AGS-P>.
19	18 33 17.1	60.141 N	153.640 W	177			36	SOUTHERN ALASKA. <AGS-P>.
19	19 50 25.7	51.55 N	16.01 E	10 G		0.9	11	POLAND. ML 4.0 (GRF), 3.6 (VKA), 3.4 (KBA).
a 19	20 00 39.5	16.022 S	177.988 W	465	5.0	0.8	120	FIJI ISLANDS REGION
19	20 12 53.4	49.712 N	8.537 E	10 G		1.1	34	GERMANY. ML 3.4 (LDG), 3.3 (GRF).
19	20 33 51.4	23.934 N	121.411 E	10 G		0.6	5	TAIWAN
19	20 40 36.1	1.589 N	127.138 E	164	4.9	0.9	19	HALMAHERA
20	00 53 05.7	50.380 N	18.742 E	10 G		0.6	5	POLAND. ML 3.0 (KRA).
20	01 13 59.4	31.296 S	67.953 W	10 G		0.3	6	SAN JUAN PROVINCE, ARGENTINA
20	02 30 41.6	51.535 N	16.100 E	10 G		0.4	10	POLAND. ML 3.8 (GRF), 3.6 (KBA), 3.6 (VKA).
20	02 58 30.9	39.250 N	22.877 E	44	3.9	1.0	55	GREECE
20	04 11 02.5	39.96 N	30.77 E	10 G		0.6	6	TURKEY
20	06 15 08.7	41.75 N	141.83 E	33 N	4.3	0.6	5	HOKKAIDO, JAPAN REGION
20	06 55 34.3	24.609 N	122.391 E	10 G	4.2	0.9	7	TAIWAN REGION
20	07 40 05.8	31.53 S	69.68 W	148	?	0.2	7	SAN JUAN PROVINCE, ARGENTINA
20	08 24 46.3	6.905 S	155.920 E	75	5.1	1.5	14	SOLOMON ISLANDS
20	08 50 33.2	63.731 N	149.745 W	120	4.6	0.8	50	CENTRAL ALASKA. Felt at Contwell and Denali National Park.
20	09 16 00.2	21.314 S	68.727 W	168	?	1.1	7	CHILE-BOLIVIA BORDER REGION
20	10 34 24.6	5.195 S	154.266 E	197	4.8	0.5	21	SOLOMON ISLANDS
20	10 49 23.8	42.798 N	143.377 E	140	4.5	1.1	15	HOKKAIDO, JAPAN REGION. Felt (II JMA) at Obihiro.
20	11 20 15.2	42.750 N	24.064 E	10 G		1.1	7	BULGARIA
20	11 36 28.1	6.06 N	126.07 E	33 N	4.9	0.9	14	MINDANAO, PHILIPPINE ISLANDS
20	11 56 38.7	32.690 N	117.100 W	9			8	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 2.5 (PAS). Felt at San Diego.
20	13 27 53.6	6.75 S	130.72 E	33 N	4.8	1.6	5	BANDA SEA
20	13 52 03.2	60.732 N	5.553 E	10 G		0.1	5	SOUTHERN NORWAY. DUR 2.2 (BER).
20	14 13 49.0	35.880 N	140.128 E	33 N		0.9	6	NEAR EAST COAST OF HONSHU, JAPAN
20	15 13 50.4	16.57 S	177.17 E	33 N		0.3	6	FIJI ISLANDS
20	15 25 33.3	13.654 N	90.514 W	33 N	4.7 3.0	1.2	43	NEAR COAST OF GUATEMALA
20	15 51 30.4	31.32 S	68.61 W	111	?	0.2	5	SAN JUAN PROVINCE, ARGENTINA
20	16 24 25.1	44.769 N	110.989 W	5 G		0.3	7	YELLOWSTONE NATIONAL PARK, WYO. ML 3.0 (BUT).
20	16 58 03.6	36.554 S	73.108 W	33 N	4.7	0.9	21	NEAR COAST OF CENTRAL CHILE
20	17 21 38.2	39.326 N	25.535 E	10	3.8	1.0	32	AEGEAN SEA. ML 3.5 (ATH).
20	17 28 54.4	59.38 N	6.71 E	10 G		0.9	5	SOUTHERN NORWAY. DUR 2.4 (BER).
20	17 52 45.9	3.02 S	129.44 E	33 N	3.7	1.5	5	CERAM
20	17 57 41.9	39.785 N	24.502 E	18		0.9	11	AEGEAN SEA
20	18 23 24.3	10.48 S	40.21 E	10 G		0.6	6	TANZANIA
20	21 30 13.7	60.221 N	152.598 W	96			27	SOUTHERN ALASKA. <AGS-P>.
20	22 43 27.9	32.332 S	71.728 W	33 N		0.9	10	NEAR COAST OF CENTRAL CHILE
20	23 49 43.9	37.051 N	71.239 E	51	4.6	1.2	24	AFGHANISTAN-USSR BORDER REGION. Felt (III) at Khorog, USSR.
21	00 15 20.5	38.625 N	23.585 E	9	3.6	0.6	31	GREECE. ML 3.5 (KBN). Felt on Evvoia.
21	00 18 42.0	31.485 S	68.609 W	115	?	0.2	5	SAN JUAN PROVINCE, ARGENTINA
21	00 44 43.1	14.200 N	92.175 W	33 N	4.6	0.9	44	NEAR COAST OF CHIAPAS, MEXICO
21	00 50 59.2	33.990 N	117.170 W	14			12	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS). Felt (III) at Sunnymead and (II) at San Bernardino. Also felt at Riverside.
21	02 29 05.3	10.628 S	41.091 E	10 G	4.5	0.9	9	NORTHWEST OF MADAGASCAR
21	02 33 07.0	42.460 N	112.583 E	29	4.4	1.1	18	NORTHEASTERN CHINA
21	02 36 51.2	10.79 S	39.78 E	10 G		0.8	6	TANZANIA
a 21	04 31 13.4	28.437 S	175.953 W	47	5.4 5.9	1.2	155	KERMADEC ISLANDS REGION. Ms 6.3 (BRK). Felt on Raoul Island.
21	05 19 19.8	31.75 S	68.93 W	124	?	0.6	6	SAN JUAN PROVINCE, ARGENTINA
21	05 30 41.2	40.575 N	24.307 E	19	*	1.0	12	AEGEAN SEA
21	05 52 07.2	10.254 S	78.410 W	33 N	4.5	1.2	25	NEAR COAST OF PERU
21	06 01 59.5	19.274 N	64.434 W	10 G	4.1	0.6	12	VIRGIN ISLANDS
21	06 53 00.9	9.81 S	115.55 E	33 N	4.2	1.3	6	SOUTH OF BALI ISLAND
21	07 03 37.3	31.25 S	69.23 W	134	?	0.6	8	SAN JUAN PROVINCE, ARGENTINA
21	07 35 13.6	50.634 N	14.074 E	0 G		1.1	5	CZECHOSLOVAKIA. ML 3.1 (GRF), 2.9 (KBA). Possible explosion.
21	07 40 08.3	26.13 S	28.23 E	5 G		1.5	6	REPUBLIC OF SOUTH AFRICA
21	09 02 58.3	24.204 S	67.092 W	204	*	0.7	9	CHILE-ARGENTINA BORDER REGION
21	09 51 51.3	33.090 N	117.440 W	12			14	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS). Felt at Oceanside.
21	13 39 30.9	32.71 S	69.46 W	123	?	0.2	7	MENDOZA PROVINCE, ARGENTINA
21	14 33 28.3	44.290 N	6.860 E	10 G		0.5	6	FRANCE. ML 2.5 (LDG).
21	15 13 38.5	31.921 N	85.085 E	33 N	4.3	1.5	27	TIBET
21	15 26 21.0	23.685 N	122.973 E	33 N	4.0	1.2	8	TAIWAN REGION
21	15 32 33.4	12.37 S	117.83 E	33 N		1.0	5	SOUTH OF SUMBAWA ISLAND
21	16 50 45.0	45.618 N	26.490 E	131	4.4	1.0	79	ROMANIA
21	17 38 30.1	26.190 S	28.149 E	5 G		1.4	7	REPUBLIC OF SOUTH AFRICA
21	18 03 21.3	13.19 N	92.85 W	33 N	4.7	0.3	5	OFF COAST OF CHIAPAS, MEXICO
21	20 41 04.1	7.422 S	27.930 E	10 G	4.5	1.5	9	ZAIRE REPUBLIC
a 21	21 43 56.8	4.856 N	127.536 E	105	*	1.0	77	TAHAUD ISLANDS
22	01 35 15.2	31.44 S	67.45 W	103	?	0.3	6	SAN JUAN PROVINCE, ARGENTINA
22	02 27 23.7	59.770 N	153.111 W	88			22	SOUTHERN ALASKA. <AGS-P>.
22	02 30 54.8	37.983 N	27.674 E	10 G		0.6	7	TURKEY
22	02 38 26.8	44.601 N	9.666 E	10 G		1.2	33	NORTHERN ITALY. ML 3.2 (LDG), 2.8 (KBA).
22	03 49 23.3	13.449 N	89.956 W	33 N	4.8	1.3	71	EL SALVADOR
22	04 47 32.4	41.893 N	23.189 E	10 G		0.9	11	GREECE-BULGARIA BORDER REGION
22	04 51 19.8	22.04 S	170.26 E	33 N	4.4	1.3	24	LOYALTY ISLANDS REGION
22	05 54 03.8	13.609 N	89.963 W	33 N	4.7 3.5	1.4	43	EL SALVADOR
22	05 54 54.2	22.735 S	68.617 W	99	*	1.5	29	NORTHERN CHILE
22	07 58 33.8	37.278 N	36.978 E	30	4.5	0.6	25	TURKEY

22	08 10 16.8&	58.199 N	151.459 W	45				23	KODIAK ISLAND REGION. <AGS-P>.
22	08 26 17.9*	63.741 N	146.145 W	33 N		0.9	6		CENTRAL ALASKA. ML 2.9 (PMR).
22	08 29 54.5?	7.45 N	126.67 E	132 *	4.9	1.1	19		MINDANAO, PHILIPPINE ISLANDS
22	10 32 56.1	22.671 N	121.484 E	39 *	4.9	1.2	54		TAIWAN REGION
22	12 06 13.6&	61.624 N	146.409 W	26			64		SOUTHERN ALASKA. <AGS-P>. ML 3.7 (PMR).
22	12 41 03.1	29.517 N	61.142 E	33 N	5.0 4.4	1.1	83		PAKISTAN. Felt at Zahedan, Iran.
22	12 47 46.1?	39.16 N	26.07 E	10 G		0.7	5		TURKEY
22	13 50 03.9?	45.93 N	4.26 W	10 G		0.7	18		BAY OF BISCAY. ML 2.8 (LDG).
22	14 09 13.2?	61.65 N	8.44 E	10 G		0.5	5		SOUTHERN NORWAY. DUR 1.9 (BER).
22	16 08 13.3&	62.111 N	150.833 W	72			37		CENTRAL ALASKA. <AGS-P>.
22	16 30 19.9&	61.592 N	151.596 W	77			37		SOUTHERN ALASKA. <AGS-P>.
22	17 30 14.4*	32.905 S	71.759 W	33 N		0.6	11		NEAR COAST OF CENTRAL CHILE. Felt (II) at Santiago.
22	18 43 59.0?	9.81 S	41.40 E	10 G		0.6	5		NORTHWEST OF MADAGASCAR
22	20 47 41.0%	46.921 N	0.549 W	10 G		1.4	11		FRANCE. ML 2.7 (LDG).
22	20 58 00.8	4.889 S	152.174 E	88	4.9	1.1	42		NEW BRITAIN REGION
22	21 37 03.1	23.059 N	120.501 E	42	4.2	1.2	26		TAIWAN
23	00 10 25.3	38.795 N	24.747 E	10 G		1.1	12		AEGEAN SEA. ML 3.2 (ATH).
23	01 06 30.6?	8.04 S	127.34 E	33 N	4.6	0.7	7		TIMOR
23	02 01 15.1?	16.07 S	168.42 E	235 *	4.8	1.2	25		VANUATU ISLANDS
23	02 54 00.6*	10.562 S	41.003 E	10 G	4.5	1.0	9		NORTHWEST OF MADAGASCAR
23	03 24 19.5?	45.55 N	14.29 E	10 G		0.5	5		YUGOSLAVIA. ML 3.1 (KBA). Felt at Ilirska Bistrica.
23	05 00 41.4&	58.101 N	155.876 W	27			11		ALASKA PENINSULA. <AGS-P>.
23	06 22 59.0*	42.854 N	145.493 E	55	4.5	0.5	11		HOKKAIDO, JAPAN REGION. Felt (II JMA) at Nemuro.
a 23	06 55 24.2	24.032 S	67.076 W	181	5.6	1.1	199		CHILE-ARGENTINA BORDER REGION
23	07 07 39.3	24.056 S	67.068 W	180	5.0	1.4	59		CHILE-ARGENTINA BORDER REGION
23	07 42 34.7	26.300 S	27.207 E	5 G		0.9	8		REPUBLIC OF SOUTH AFRICA
23	08 51 57.8*	24.027 S	67.029 W	202	4.3	1.1	12		CHILE-ARGENTINA BORDER REGION
23	09 26 26.4	11.047 S	163.540 E	41 *	5.1	1.0	61		SOLOMON ISLANDS
23	09 42 09.4?	6.95 S	129.54 E	33 N	4.8	1.0	5		BANDA SEA
23	10 09 38.7*	33.711 S	70.765 W	99 *	4.9	1.4	16		CHILE-ARGENTINA BORDER REGION. Felt (IV) at Santiago and (II) at Valparaiso, Chile.
23	10 14 24.3?	16.73 N	100.78 W	33 N	4.0	1.3	7		NEAR COAST OF GUERRERO, MEXICO
23	10 52 52.9*	11.003 S	163.541 E	57 *	4.7	1.0	11		SOLOMON ISLANDS
23	11 47 54.0*	14.737 N	119.282 E	33 N	4.7	1.0	10		LUZON, PHILIPPINE ISLANDS
23	12 06 41.4*	48.361 N	142.538 E	33 N	5.0	1.5	13		SAKHALIN ISLAND
23	12 30 40.6	7.386 S	156.261 E	58 *	4.1	1.1	15		SOLOMON ISLANDS
23	12 41 02.1*	11.058 S	163.553 E	40 *	5.0	1.2	19		SOLOMON ISLANDS
a 23	13 01 37.1	11.012 S	163.584 E	36 *	5.7 6.5	1.3	171		SOLOMON ISLANDS. Ms 6.1 (BRK), 6.1 (PAL). Felt strongly in the eastern Saloman Islands.
23	13 24 31.1*	11.002 S	163.405 E	33 N	4.7	0.7	13		SOLOMON ISLANDS
23	13 46 27.6	10.945 S	163.676 E	39	5.6	0.9	91		SOLOMON ISLANDS
23	13 57 45.3	10.994 S	163.738 E	33 N	5.4 6.0	1.2	122		SOLOMON ISLANDS
23	14 03 53.0	10.964 S	163.726 E	33 N	5.5	1.0	44		SOLOMON ISLANDS
23	15 49 54.6%	39.173 N	27.605 E	10 G		0.3	5		TURKEY
23	17 41 33.7&	62.489 N	148.895 W	43			30		CENTRAL ALASKA. <AGS-P>.
23	19 31 30.6&	62.226 N	154.802 W	16			37		CENTRAL ALASKA. <AGS-P>. ML 3.7 (PMR).
23	19 34 55.5*	53.122 N	35.058 W	10 G	4.5	1.2	32		NORTH ATLANTIC OCEAN
23	19 48 44.2*	29.173 S	71.738 W	33 N		1.1	13		NEAR COAST OF CENTRAL CHILE
23	19 49 24.0*	6.326 S	154.937 E	72	4.8	0.7	12		SOLOMON ISLANDS. Felt (III) at Panguna, Bougainville.
a 23	19 49 54.4	10.937 S	163.760 E	32	5.7 6.0	1.2	175		SOLOMON ISLANDS. Ms 6.0 (BRK), 5.9 (PAS).
23	20 11 50.2*	21.294 S	179.406 W	631	4.5	0.7	21		FIJI ISLANDS REGION
23	21 16 00.6?	9.62 N	41.01 W	10 G	4.4	1.6	6		CENTRAL MID-ATLANTIC RIDGE
23	22 21 48.8*	8.939 S	124.233 E	117 ?	4.4	1.1	13		TIMOR
23	23 03 05.9*	9.496 N	40.602 W	10 G	5.0	1.2	16		CENTRAL MID-ATLANTIC RIDGE
24	00 42 31.8	33.908 N	104.380 E	33 N	5.0 4.3	1.0	51		GANSU PROVINCE, CHINA
24	02 59 54.5	13.289 N	89.817 W	71 *	4.4	1.1	56		EL SALVADOR
24	03 54 37.4*	65.292 N	144.414 E	33 N	4.7	1.0	22		EASTERN SIBERIA
24	04 27 40.9?	3.41 S	139.32 E	33 N	4.2	1.6	6		WEST IRIAN
24	05 44 29.0	17.861 S	178.741 W	591	4.8	0.8	63		FIJI ISLANDS REGION
24	06 14 46.3*	13.278 N	121.257 E	10 G	4.3	1.6	7		MINDORO, PHILIPPINE ISLANDS
24	06 40 58.2	0.143 S	125.224 E	33 N	4.8	0.8	20		MOLUCCA SEA
24	07 28 01.3%	41.156 N	27.696 E	10 G		0.7	5		TURKEY
24	08 01 12.6*	11.425 S	118.454 E	33 N	4.0	1.1	7		SOUTH OF SUMBAWA ISLAND
24	11 37 30.8*	33.109 S	71.715 W	33 N	4.5	1.1	15		NEAR COAST OF CENTRAL CHILE. Felt (III) at Santiago and Valparaiso. Also felt at Rancagua.
24	11 42 22.5%	60.805 N	5.084 E	10 G		0.9	5		SOUTHERN NORWAY. DUR 1.7 (BER).
24	11 59 29.0*	10.787 S	41.120 E	10 G	4.5	1.1	10		NORTHWEST OF MADAGASCAR
a 24	12 12 52.5	5.789 S	148.346 E	121	5.4	1.0	77		NEW BRITAIN REGION
24	13 07 54.5*	4.083 S	127.954 E	209 *	4.2	1.0	13		BANDA SEA
24	13 26 54.9?	10.26 S	40.31 E	10 G	4.3	0.2	6		TANZANIA
24	13 41 24.2*	10.642 S	41.096 E	10 G	5.0	1.1	23		NORTHWEST OF MADAGASCAR
24	14 04 44.3*	10.692 S	41.224 E	10 G	5.0	1.1	25		NORTHWEST OF MADAGASCAR
24	14 11 13.1*	10.551 S	41.044 E	10 G	4.5	0.9	8		NORTHWEST OF MADAGASCAR
24	14 19 22.3*	10.713 S	41.159 E	10 G	5.1	1.1	25		NORTHWEST OF MADAGASCAR
24	14 23 51.4*	10.600 S	41.148 E	10 G	4.6	1.0	9		NORTHWEST OF MADAGASCAR
24	16 20 09.6	1.896 S	78.102 W	33 N	5.2	1.0	102		ECUADOR. Felt (V) at Bahia de Caraquez and (II) at Quito.
24	16 51 14.2	8.876 N	77.344 W	33 N		0.5	10		PANAMA-COLOMBIA BORDER REGION
24	17 46 21.6?	47.83 N	129.01 W	10 G	4.0	1.4	9		OFF COAST OF WASHINGTON
24	17 54 16.8*	37.487 S	179.393 E	48 *	4.8	1.1	18		OFF E. COAST OF N. ISLAND, N.Z.
24	18 19 56.2?	10.17 S	40.42 E	10 G		0.5	6		TANZANIA
24	21 19 41.6*	17.038 N	62.458 W	33 N	4.5	0.7	11		LEEWARD ISLANDS
24	21 40 35.7*	37.324 N	126.572 E	33 N	4.0	1.5	13		SOUTH KOREA. Felt (III JMA) at Inchan, (II JMA) at Seoul and (I JMA) at Chunchon.
24	22 05 50.9*	0.374 S	80.244 W	33 N	4.4	1.5	12		NEAR COAST OF ECUADOR
a 24	22 21 38.4	8.828 S	79.137 W	61 D	5.3	0.9	127		NEAR COAST OF NORTHERN PERU. Felt strongly at Chimbote and Trujillo and slightly at Lima.
24	22 53 29.7	36.564 N	22.309 E	57	4.4	1.0	131		SOUTHERN GREECE. Felt in southern Greece.
24	23 09 17.5*	35.930 N	73.718 E	33 N	4.7	1.2	14		NORTHWESTERN KASHMIR
25	00 56 12.3*	23.195 N	120.038 E	12	3.8	0.7	7		TAIWAN
25	01 41 44.5	44.724 N	9.279 E	10 G		1.2	19		NORTHERN ITALY. ML 2.9 (LDG).
25	02 31 05.4	47.932 N	152.152 E	33 N	5.0	0.6	52		KURIL ISLANDS
25	05 08 10.6*	1.155 S	78.507 W	33 N	4.5	1.2	13		ECUADOR

25	05 37 23.3%	40.630 N	27.436 E	10 G	0.7	5	TURKEY
25	06 27 41.5	4.127 N	126.617 E	103 * 4.9	1.1	43	TALAUD ISLANDS
25	07 20 55.2	33.416 S	71.938 W	33 N 5.1	1.1	86	NEAR COAST OF CENTRAL CHILE. Felt (III) at Santiago.
25	07 25 40.4?	10.09 S	40.73 E	10 G, 4.0	0.7	6	TANZANIA
25	07 35 23.9*	43.347 N	144.076 E	25 * 4.7	1.4	14	HOKKAIDO, JAPAN REGION. Felt (II JMA) at Kushiro and (I JMA) at Obihira.
25	08 00 01.5*	36.140 N	69.324 E	106 ? 4.2	0.7	7	HINDU KUSH REGION
25	09 04 19.3*	36.668 N	71.349 E	33 N 4.3	1.1	11	AFGHANISTAN-USSR BORDER REGION
25	10 27 26.8*	64.510 N	20.800 W	10 G	1.7	8	ICELAND
25	10 31 30.0	64.616 N	20.642 W	10 G 4.3 4.5	1.3	54	ICELAND
25	11 35 49.0%	38.962 N	27.674 E	10 G	1.2	7	TURKEY
25	12 17 11.6	40.689 N	27.496 E	10 G	0.6	6	TURKEY
25	12 29 19.5*	21.524 S	179.033 W	602 4.7	1.0	39	FIJI ISLANDS REGION
25	13 21 10.4*	10.767 S	123.585 E	33 N 4.6	1.6	10	TIMOR
25	14 02 45.7*	45.748 N	145.799 E	33 N 4.9	1.3	23	HOKKAIDO, JAPAN REGION
25	14 17 57.8	19.513 S	168.750 E	62 5.0	1.0	125	VANUATU ISLANDS
25	14 50 31.3*	33.411 S	72.126 W	33 N	1.0	16	OFF COAST OF CENTRAL CHILE
25	16 37 53.9?	31.60 S	69.69 W	154 ?	0.4	7	SAN JUAN PROVINCE, ARGENTINA
25	17 06 02.6*	19.601 S	168.737 E	33 N 4.3	1.2	29	VANUATU ISLANDS
25	17 54 49.4?	33.48 S	71.96 W	33 N	0.8	8	NEAR COAST OF CENTRAL CHILE
25	17 56 14.6*	4.958 S	154.032 E	124 * 4.8	1.0	15	SOLOMON ISLANDS
25	19 10 22.6*	21.335 S	68.086 W	147 * 5.1	1.3	9	CHILE-BOLIVIA BORDER REGION
25	20 00 44.6?	0.21 S	80.43 W	33 N 4.2	0.8	7	NEAR COAST OF ECUADOR
25	20 21 59.1	27.840 N	126.156 E	51 * 4.8	1.2	29	EAST CHINA SEA
25	20 26 18.4*	31.750 N	115.860 W	6 G		8	BAJA CALIFORNIA. <PAS-P>. ML 3.8 (PAS).
25	20 31 30.8*	13.500 N	89.864 W	33 N 4.6	0.8	16	EL SALVADOR
25	21 25 42.7*	39.859 N	76.751 E	33 N 4.7	1.3	8	SOUTHERN XINJIANG, CHINA
25	21 54 08.6*	55.830 S	27.291 W	33 N 4.9	0.9	9	SOUTH SANDWICH ISLANDS REGION
25	21 55 37.5*	37.146 S	142.234 E	33 N	1.2	6	NEAR S.E. COAST OF AUSTRALIA. ML 3.3 (TOO), 3.1 (STK).
25	22 16 15.5?	0.39 N	123.58 E	257 ? 4.2	0.6	8	MINAHASSA PENINSULA
25	23 17 11.3*	6.671 S	152.880 E	33 N 3.5	1.2	7	NEW BRITAIN REGION
25	23 59 24.7	13.660 S	76.267 W	46 D 4.7	0.9	42	NEAR COAST OF PERU. Felt at Ica and Lima.
26	01 17 23.9?	24.33 N	122.79 E	10 G	0.7	5	TAIWAN REGION
26	02 00 05.5*	32.483 S	67.202 W	33 N	0.9	6	MENDOZA PROVINCE, ARGENTINA
26	02 20 38.6*	46.093 N	27.220 E	10 G	0.1	5	ROMANIA
26	02 36 20.4*	0.501 S	80.495 W	33 N 4.5	1.3	11	NEAR COAST OF ECUADOR
26	03 05 39.9	9.434 N	124.281 E	538 5.3	1.0	155	MINDANAO, PHILIPPINE ISLANDS
26	04 48 51.7	41.152 N	19.806 E	25 3.9	1.1	40	ALBANIA. ML 4.3 (ATH), mbLg 3.8 (SKO). Felt (V) at Cerrik.
26	05 12 16.1?	55.68 S	27.36 W	33 N 4.8	0.7	6	SOUTH SANDWICH ISLANDS REGION
26	07 12 33.0%	39.645 N	26.250 E	10 G	0.6	6	TURKEY
26	07 40 45.0	45.689 N	26.555 E	127 3.9	1.0	25	ROMANIA
26	09 48 42.3*	22.497 S	170.260 E	63 ?	1.4	6	LOYALTY ISLANDS REGION
26	10 27 06.4	16.426 S	73.675 W	70 * 4.7	1.2	42	NEAR COAST OF PERU
26	10 57 52.8*	22.332 S	170.334 E	40 * 4.3	1.2	26	LOYALTY ISLANDS REGION
26	12 44 58.0	54.973 N	160.438 W	55 D 4.7	0.9	71	ALASKA PENINSULA
26	13 32 03.2?	61.08 N	7.30 E	10 G	0.9	5	SOUTHERN NORWAY. DUR 1.7 (BER).
26	13 38 56.8	64.758 N	20.305 W	10 G 4.3	0.9	36	ICELAND
26	13 42 59.8*	59.412 N	153.444 W	102	38		SOUTHERN ALASKA. <AGS-P>.
26	14 04 19.0%	60.737 N	5.537 E	10 G	0.5	5	SOUTHERN NORWAY. DUR 2.2 (BER).
26	14 05 21.2	38.784 N	141.249 E	37 4.5	1.1	21	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Ofunata and Miyaka and (I JMA) at Marioka.
26	14 11 00.3?	1.69 N	12.56 W	10 G 4.8	0.8	8	NORTH OF ASCENSION ISLAND
26	15 39 10.3?	4.99 S	152.14 E	362 ? 4.4	0.7	9	NEW BRITAIN REGION
26	16 06 18.9?	30.66 S	178.09 W	33 N 4.7	1.3	9	KERMADEC ISLANDS
26	17 10 00.9	18.889 N	64.577 W	46 5.6 5.5	1.0	306	VIRGIN ISLANDS. Ms 5.6 (BRK). Felt (V) at Ceiba, Cidra, Cameria, Luquilla, Punta Santiago and San Juan, (IV) in the Cayey-Humacao-Caguas-Yabucua and Barcelaneta-Corazal areas and (III) in the Barranquitas-Orocovis-Salinas area, Puerto Rico. Felt also in the Virgin Islands.
26	17 49 52.8*	62.623 N	151.078 W	95	41		CENTRAL ALASKA. <AGS-P>.
26	18 03 00.0*	37.124 N	116.122 W	0 4.3	27		SOUTHERN NEVADA. <DOE>. ML 4.0 (BRK). 37' 07' 26.75" N., 116' 07' 19.16" W., Surface Elev. 1379 m., Depth of Burial 381 m., Shot Time 180300.084, "MARIBO", Nevada Test Site (Dept. of Energy).
26	19 10 12.9%	59.602 N	5.276 E	10 G	0.1	5	SOUTHERN NORWAY. DUR 1.8 (BER).
26	19 11 00.4	45.501 N	27.008 E	24	0.9	15	ROMANIA
26	19 59 09.7	31.392 S	68.562 W	117 *	1.1	18	SAN JUAN PROVINCE, ARGENTINA
26	20 28 24.4	6.094 N	82.304 W	10 G 5.1 4.9	1.1	72	SOUTH OF PANAMA
26	22 26 04.4%	31.802 S	67.593 W	10 G	0.3	5	SAN JUAN PROVINCE, ARGENTINA
26	23 24 15.7%	32.520 S	116.963 E	33 N	0.7	5	WESTERN AUSTRALIA. ML 2.2 (NWA0).
26	23 44 53.3	6.854 N	72.980 W	154 5.2	0.9	130	NORTHERN COLOMBIA. Felt in parts of central and northern Colombia.
27	00 23 46.9	43.974 N	7.127 E	10 G	0.6	7	NEAR SOUTH COAST OF FRANCE. ML 2.8 (LDG).
27	00 25 12.7	63.734 N	150.162 W	143 4.8	0.8	105	CENTRAL ALASKA. Felt (IV) at Talkeetna and Denali National Park.
27	01 24 54.2*	8.113 S	117.845 E	33 N 3.8	1.2	11	SUMBAWA ISLAND REGION
27	01 36 09.9	6.793 S	151.388 E	33 N 3.7	1.0	5	NEW BRITAIN REGION
27	03 28 21.3*	62.405 N	150.921 W	80	41		CENTRAL ALASKA. <AGS-P>.
27	04 11 49.6*	34.206 N	136.551 E	33 N	0.3	6	SOUTHERN HONSHU, JAPAN. Felt (I JMA) at Owase and Tsu.
27	04 16 57.5	34.000 N	104.616 E	33 N 4.3	1.4	14	GANSU PROVINCE, CHINA
27	04 38 55.4*	36.510 N	121.118 W	5 G	15		CENTRAL CALIFORNIA. <BRK>. ML 3.3 (BRK).
27	05 07 16.7*	39.177 N	57.232 E	33 N 4.4	0.7	19	TURKMEN SSR
27	06 25 33.0*	60.462 N	143.202 W	23	38		SOUTHERN ALASKA. <AGS-P>.
27	07 50 17.5*	46.053 N	25.207 E	10 G	1.6	7	ROMANIA
27	08 45 32.9?	59.40 N	6.69 E	10 G	1.0	5	SOUTHERN NORWAY. DUR 2.2 (BER).
27	09 20 13.7*	5.273 S	132.371 E	33 N 4.1	0.9	8	AROE ISLANDS REGION
27	10 11 08.4*	10.598 S	41.008 E	10 G 4.4	1.3	7	NORTHWEST OF MADAGASCAR
27	11 11 07.8*	44.117 N	114.382 W	5 G	0.8	8	WESTERN IDAHO. ML 3.0 (NEIS).
27	11 48 03.2?	45.22 N	83.87 E	33 N 4.6	1.5	7	NORTHERN XINJIANG, CHINA
27	12 12 13.7*	61.774 N	147.760 W	31	46		SOUTHERN ALASKA. <AGS-P>.
27	12 45 59.4	6.570 S	154.932 E	49 5.3	1.0	118	SOLOMON ISLANDS. Felt (IV) at Arawa and Panguna.



27	13	10	44.9	34.498	N	90.026	E	33	N	4.7	1.1	26	Bougoinville.		
27	13	55	20.4*	8.792	S	124.106	E	33	N	4.1	1.2	11	QINGHAI PROVINCE, CHINA		
27	14	25	20.6*	52.260	N	152.898	E	495	?	4.5	0.2	8	TIMOR		
27	14	35	06.4*	56.966	N	156.982	W	97	*	4.7	1.6	8	NORTHWEST OF KURIL ISLANDS		
27	17	27	48.0&	59.896	N	153.452	W	126				28	ALASKA PENINSULA		
27	18	20	00.0&	33.621	N	106.475	W	0				33	SOUTHERN ALASKA. <AGS-P>.		
												8	NEW MEXICO. <GLD>. mbLg 3.4 (NEIS). Explosion, "MINOR SCALE", White Sands Missile Range.		
27	19	06	30.0%	31.821	S	67.796	W	10	G		0.4	5	SAN JUAN PROVINCE, ARGENTINA		
o	27	19	18	47.1		1.172	N	127.300	E	146	5.6	1.0	112	HALMAHERA	
	27	20	24	57.2%	47.099	N	1.104	E	10	G		0.4	8	FRANCE. ML 2.5 (LDG).	
	27	21	10	13.6*	37.326	N	24.340	E	188	*	3.5	0.9	7	SOUTHERN GREECE	
	27	21	31	57.6		1.569	N	126.456	E	54	*	1.1	35	MOLUCCA PASSAGE	
	27	21	40	51.2*	36.781	N	71.488	E	143	?	4.2	0.6	8	AFGHANISTAN-USSR BORDER REGION	
	27	23	15	42.1		52.332	N	157.735	E	115	D	0.8	38	KAMCHATKA	
	27	23	55	24.8&	60.124	N	147.662	W	30				47	SOUTHERN ALASKA. <AGS-P>.	
	28	00	00	45.3*	36.972	N	140.825	E	49	*	4.1	0.5	9	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Mito.	
	28	00	46	45.9?	16.72	N	87.78	W	33	N	4.7	1.4	6	CARIBBEAN SEA	
	28	00	56	57.1*	46.264	N	13.487	E	10	G		0.2	5	AUSTRIA. ML 2.4 (KBA). Felt at Bovec, Yugoslavia.	
	28	03	40	56.0*	45.006	N	6.685	E	10	G		0.9	7	FRANCE. ML 2.6 (LDG).	
	28	04	03	11.9*	10.833	S	164.280	E	61	*	4.7	1.0	10	SANTA CRUZ ISLANDS REGION	
	28	04	19	10.8&	58.598	N	137.667	W	17				7	SOUTHEASTERN ALASKA. <AGS-P>.	
	28	04	36	51.0*	39.129	N	23.286	E	10	G		1.0	13	AEGEAN SEA	
	28	04	42	55.6&	57.480	N	155.835	W	115				34	ALASKA PENINSULA. <AGS-P>.	
	28	04	46	29.7*	1.149	N	122.608	E	110	?	4.8	1.4	25	MINAHASSA PENINSULA	
	28	05	04	39.7&	61.526	N	150.809	W	70				32	SOUTHERN ALASKA. <AGS-P>.	
	28	06	23	55.9&	60.072	N	152.892	W	100				21	SOUTHERN ALASKA. <AGS-P>.	
	28	07	31	20.9*	10.626	S	40.983	E	10	G	4.4	1.0	17	TANZANIA	
	28	07	32	20.0		10.614	S	41.238	E	10	G	5.4 5.4	1.4	170	NORTHWEST OF MADAGASCAR
	28	07	43	33.3		40.607	N	22.632	E	9			0.6	14	GREECE
	28	07	50	26.7&	62.485	N	148.258	W	42				43	CENTRAL ALASKA. <AGS-P>.	
	28	07	57	00.6*	10.617	S	40.960	E	10	G	4.7	1.0	12	TANZANIA	
	28	08	06	04.3?	10.46	S	40.98	E	10	G	4.8	0.5	6	TANZANIA	
	28	08	25	00.0?	10.63	S	41.15	E	10	G	4.6	0.8	6	NORTHWEST OF MADAGASCAR	
	28	08	38	14.9*	10.693	S	41.104	E	10	G	4.7	1.3	18	NORTHWEST OF MADAGASCAR	
	28	10	13	25.0*	39.393	N	72.051	E	68	?	4.6	1.4	17	KIRGHIZ SSR. Felt (IV) at Dzhirogatal and Fergana and (III) at Andizhan.	
	28	11	10	29.4*	10.551	S	40.936	E	10	G	4.5	0.9	7	TANZANIA	
	28	12	08	27.6*	41.866	N	20.137	E	10	G		0.9	5	ALBANIA	
	28	12	29	50.9%	39.100	N	27.597	E	10	G		0.4	5	TURKEY	
	28	13	35	31.6		30.540	N	57.487	E	33	N	4.8	1.2	55	IRAN
	28	14	55	58.0?	10.10	S	40.66	E	10	G	4.6	0.9	8	TANZANIA	
	28	16	02	09.0		45.614	N	27.774	W	10	G	4.5 4.5	1.1	66	NORTH ATLANTIC RIDGE
	28	16	35	03.2&	59.618	N	153.246	W	110				41	SOUTHERN ALASKA. <AGS-P>. Felt (II) at Homer.	
	28	16	44	47.1		64.475	N	20.726	W	10	G	4.3 3.6	0.9	29	ICELAND
	28	17	05	54.2*	44.054	N	16.949	E	10	G		0.9	8	YUGOSLAVIA. ML 3.6 (TRI), 3.4 (KBA).	
	28	18	19	56.1*	41.253	N	40.466	E	10	G	4.0 3.4	0.8	14	TURKEY	
	28	18	54	16.0		37.564	S	179.442	E	50	5.6 5.2	0.9	174	OFF E. COAST OF N. ISLAND, N.Z.	
	28	21	46	20.8*	9.270	S	110.455	E	33	N	4.8	1.3	22	SOUTH OF JAVA	
	28	22	40	02.3*	44.726	N	111.236	W	5	G		0.8	10	HEBGEN LAKE REGION. ML 3.1 (NEIS).	
	28	22	46	19.8		2.465	S	28.911	E	10	G	4.9	0.8	67	LAKE TANGANYIKA REGION
	29	01	30	32.9		63.500	N	151.262	W	33	N		0.8	8	CENTRAL ALASKA. ML 3.2 (PMR).
	29	02	04	51.9*	20.745	N	122.480	E	10	G	4.2 4.9	1.3	23	PHILIPPINE ISLANDS REGION. Felt (IV RF) at Basco.	
	29	02	55	27.1		20.744	N	121.983	E	10	G	5.2 5.2	1.2	126	PHILIPPINE ISLANDS REGION. Felt (VI RF) at Basco.
	29	03	39	33.6*	53.438	N	169.520	W	33	N	4.1	1.0	22	FOX ISLANDS, ALEUTIAN ISLANDS	
	29	03	52	46.5		20.603	N	122.128	E	10	G	4.3	1.0	31	PHILIPPINE ISLANDS REGION. Felt (IV RF) at Basco.
	29	04	07	15.0		30.801	S	177.977	W	33	N	5.3	1.3	48	KERMADEC ISLANDS
	29	04	42	36.0*	37.434	N	71.967	E	33	N	4.8	1.4	7	AFGHANISTAN-USSR BORDER REGION	
	29	05	19	55.1*	9.832	S	150.266	E	33	N	3.8	1.2	11	EAST PAPUA NEW GUINEA REGION	
	29	06	29	00.8*	49.061	N	6.752	E	10	G		0.8	7	GERMANY. mbLg 3.0 (DOU), ML 3.0 (KBA).	
	29	07	16	14.1*	21.426	S	68.756	W	153	*		1.0	8	CHILE-BOLIVIA BORDER REGION	
	29	08	34	33.2		1.363	S	98.422	E	76	5.4	1.0	263	NORTHERN SUMATRA	
	29	10	59	41.4*	26.302	S	27.486	E	5	G		1.4	7	REPUBLIC OF SOUTH AFRICA	
	29	11	11	15.5&	61.087	N	150.252	W	42				45	SOUTHERN ALASKA. <AGS-P>.	
	29	11	28	52.7*	4.650	S	155.896	E	124	?	4.3	1.2	31	SOLOMON ISLANDS	
	29	12	02	15.6%	39.087	N	27.593	E	10	G		0.4	5	TURKEY	
	29	12	10	34.0%	39.061	N	27.666	E	10	G		0.3	5	TURKEY	
	29	13	02	29.0?	44.44	N	6.84	E	10	G		1.0	5	FRANCE. ML 2.5 (LDG).	
	29	13	32	26.8		39.125	N	75.155	E	36	*	4.9	1.0	86	SOUTHERN XINJIANG, CHINA
	29	14	50	12.1?	32.25	S	71.51	W	33	N		0.9	6	NEAR COAST OF CENTRAL CHILE	
	29	17	52	48.2		24.503	S	176.573	W	84	*	5.1	1.0	78	SOUTH OF FIJI ISLANDS
	29	18	22	43.7&	59.912	N	153.513	W	135				26	SOUTHERN ALASKA. <AGS-P>.	
	29	18	23	50.9&	33.480	N	116.560	W	13				8	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).	
	29	20	57	11.5*	9.519	S	119.291	E	42	?	3.3	0.7	12	SUMBA ISLAND REGION	
	29	21	55	51.0&	60.141	N	151.451	W	46				49	KENAI PENINSULA, ALASKA. <AGS-P>.	
	29	22	19	05.8&	62.275	N	149.630	W	58				34	CENTRAL ALASKA. <AGS-P>.	
	29	23	38	42.7*	16.378	S	173.614	W	33	N	4.6	1.2	14	TONGA ISLANDS	
	30	01	10	50.1*	66.041	N	150.308	W	10	G		0.8	5	ALASKA. ML 3.1 (PMR).	
	30	01	58	04.1?	31.32	S	68.45	W	110	?		0.2	6	SAN JUAN PROVINCE, ARGENTINA	
	30	02	39	02.7		49.861	N	78.696	E	0	G	6.0 4.2	0.8	344	EASTERN KAZAKH SSR. Underground nuclear explosion. (Dept. of Energy press release N85-028).
	30	02	48	53.2?	36.09	N	141.81	E	33	N		0.6	8	NEAR EAST COAST OF HONSHU, JAPAN	
	30	03	00	44.9%	38.855	N	26.992	E	10	G		1.2	5	AEGEAN SEA	
	30	04	10	16.6*	18.647	N	100.734	W	100	*	4.3	1.0	30	GUERRERO, MEXICO	
	30	04	20	11.7*	6.564	N	74.308	W	323	?		0.5	7	NORTHERN COLOMBIA	
	30	07	04	14.0?	33.64	S	72.01	W	33	N		1.4	7	OFF COAST OF CENTRAL CHILE	
	30	07	38	41.4*	35.299	S	67.784	W	33	N		1.3	7	MENDOZA PROVINCE, ARGENTINA	
	30	07	59	24.1*	7.066	S	129.658	E	93	?	4.9	1.0	16	BANDA SEA	
	30	08	17	51.1*	16.492	S	177.980	E	33	N	4.6	0.9	12	FIJI ISLANDS	
	30	08	47	36.8?	35.96	N	141.13	E	33	N		0.4	5	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Choshi.	
	30	08	54	38.9?	36.02	N	141.25	E	33	N		0.8	7	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Choshi.	

30	09 00 04.87	35.99	N	141.24	E	33 N	0.7	8	NEAR EAST COAST OF HONSHU, JAPAN. Felt (11 JMA) at Choshi.
30	09 08 35.27	35.90	N	141.01	E	33 N 4.0	1.0	8	NEAR EAST COAST OF HONSHU, JAPAN. Felt (11 JMA) at Choshi.
30	10 15 48.6	2.117	N	94.517	E	33 N 4.4	1.2	10	OFF W COAST OF NORTHERN SUMATERA
30	12 04 38.87	31.88	S	68.36	W	117 ?	0.1	7	SAN JUAN PROVINCE, ARGENTINA
30	14 30 37.5	41.784	N	22.739	E	10 G	0.7	5	YUGOSLAVIA
30	14 44 55.4	45.995	N	15.545	E	14	1.1	25	YUGOSLAVIA. ML 3.9 (GRF), 3.8 (KBA), 3.7 (VKA), 3.5 (TRI).
30	17 12 45.7	10.442	S	78.673	W	52 D 5.0	0.9	42	NEAR COAST OF PERU
30	17 45 20.5	36.552	N	70.906	E	181 ? 4.3	1.0	11	HINDU KUSH REGION
30	17 58 50.4	10.634	S	41.054	E	10 G 4.5	0.7	8	NORTHWEST OF MADAGASCAR
30	18 26 17.27	31.17	S	68.70	W	119 ?	0.2	5	SAN JUAN PROVINCE, ARGENTINA
30	18 29 49.1	34.006	N	83.559	E	33 N 4.5	0.7	19	TIBET
30	21 12 24.0	19.371	N	155.299	W	27 3.9		40	HAWAII. <HVO-P>. ML 4.3 (HVO). Felt throughout the island of Hawaii.
30	21 14 19.9	46.432	N	7.794	E	10 G	1.0	10	SWITZERLAND. ML 2.2 (LDG).
30	23 54 09.1	59.885	N	152.797	W	91		19	SOUTHERN ALASKA. <AGS-P>.

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

01 02 03 12.53 12.167N 144.421E 23km 5.7mb ( 41 obs.) 5.4Msz ( 10 obs.) SOUTH OF MARIANA ISLANDS CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 13S, 27C Centroid Location: Origin Time 02:03:14.1 0.4 Lat 11.91N 0.04 Lon 144.50E 0.05 Dep 15.9 5.8 Half-duration 2.3 Principal Axes: Scale 10**24 D-CM T Val= 2.62 Plg= 1 Azm=213 N 0.66 68 304 P -3.28 22 122 Best Double Couple:Mo=2.9*10**24 NP1:Strike=260 Dip=74 Slip=-164 NP2: 165 75 -17	P -5.98 65 265 Best Double Couple:Mo=5.1*10**24 NP1:Strike=107 Dip=30 Slip=-124 NP2: 324 66 -72	Dep 36.8 3.6 Half-duration 2.0 Principal Axes: Scale 10**24 D-CM T Val= 1.95 Plg=67 Azm=308 N 0.28 1 39 P -2.23 23 129 Best Double Couple:Mo=2.1*10**24 NP1:Strike=220 Dip=22 Slip= 91 NP2: 38 68 89
01 09 46 08.15 41.584N 142.033E 72km 5.2mb ( 73 obs.) HOKKAIDO, JAPAN REGION CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 11S, 14C Centroid Location: Origin Time 09:46:11.3 1.4 Lat 41.60N 0.17 Lon 141.94E 0.20 Dep 84.612.3 Half-duration 1.4 Principal Axes: Scale 10**23 D-CM T Val= 5.62 Plg=59 Azm=328 N -1.08 18 206 P -4.55 24 108 Best Double Couple:Mo=5.1*10**23 NP1:Strike=165 Dip=26 Slip= 46 NP2: 32 72 109	02 16 26 58.48 37.728S 73.653W 33km 5.5mb ( 20 obs.) 5.5Msz ( 8 obs.) NEAR COAST OF CENTRAL CHILE CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 17S, 33C Centroid Location: Origin Time 16:27:2.1 0.2 Lat 37.83S 0.03 Lon 73.76W 0.04 Dep 32.0 2.2 Half-duration 3.1 Principal Axes: Scale 10**24 D-CM T Val= 7.59 Plg=59 Azm=145 N -0.21 16 27 P -7.38 26 289 Best Double Couple:Mo=7.5*10**24 NP1:Strike=347 Dip=24 Slip= 47 NP2: 212 73 107	03 12 06 21.13 15.289S 173.516W 33km 6.2mb ( 52 obs.) 6.0Msz ( 32 obs.) TONGA ISLANDS FAULT PLANE SOLUTION: P-Waves NP1:Strike=265 Dip=79 Slip= 163 NP2: 358 73 11 Principal Axes: T Plg=20 Azm=221 P 4 312 Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting with a moderate reverse component. The preferred fault plane is not determined. MOMENT TENSOR SOLUTION Dep 42 No. of sta: 13 Principal Axes: Scale 10**26 d-cm T Val= 1.04 Plg=32 Azm=219 N 0.11 58 45 P -1.16 3 310 Best Double Couple:Mo=1.1*10**26 NP1:Strike=359 Dip=66 Slip= 22 NP2: 260 70 154 CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 20S, 43C M.W.: 10S, 23C Centroid Location: Origin Time 12:06:29.7 0.2 Lat 15.41S 0.02 Lon 173.28W 0.02 Dep 46.4 1.3 Half-duration 9.0 Principal Axes: Scale 10**26 D-CM T Val= 1.05 Plg=45 Azm=177 N -0.02 4 271 P -1.03 45 4 Best Double Couple:Mo=1.0*10**26 NP1:Strike=179 Dip= 4 Slip= 176 NP2: 271 90 86
01 14 47 12.90 11.239S 162.409E 33km 4.8mb ( 8 obs.) 5.6Msz ( 6 obs.) SOLOMON ISLANDS CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 17S, 31C Centroid Location: Origin Time 14:47:13.1 0.3 Lat 11.53S 0.04 Lon 162.74E 0.03 Dep 25.1 3.5 Half-duration 2.9 Principal Axes: Scale 10**24 D-CM T Val= 4.84 Plg=21 Azm=115 N 0.46 66 321 P -5.30 9 209 Best Double Couple:Mo=5.1*10**24 NP1:Strike=254 Dip=68 Slip= 9 NP2: 161 82 158	02 17 03 15.07 52.395N 160.508E 38km 5.2mb ( 57 obs.) 5.3Msz ( 4 obs.) OFF EAST COAST OF KAMCHATKA CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 10S, 22C Centroid Location: Origin Time 17:03:14.7 1.2 Lat 52.15N 0.08 Lon 161.52E 0.18 Dep 43.5 6.7 Half-duration 2.0 Principal Axes: Scale 10**24 D-CM T Val= 1.70 Plg=71 Azm= 11 N 0.19 18 214 P -1.89 7 122 Best Double Couple:Mo=1.8*10**24 NP1:Strike=192 Dip=41 Slip= 62 NP2: 47 55 112	03 02 45 32.01 13.175N 90.138W 66km 5.2mb ( 61 obs.) NEAR COAST OF GUATEMALA CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 17S, 35C Centroid Location: Origin Time 02:45:32.8 0.3 Lat 12.52N 0.03 Lon 90.79W 0.03 Dep 19.9 1.6 Half-duration 5.0 Principal Axes: Scale 10**25 D-CM T Val= 2.70 Plg=68 Azm= 25 N 0.13 2 290 P -2.82 22 200 Best Double Couple:Mo=2.8*10**25 NP1:Strike=286 Dip=23 Slip= 85 NP2: 111 67 92
02 12 02 30.90 6.485S 154.761E 370km 5.3mb ( 28 obs.) SOLOMON ISLANDS CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 16S, 30C Centroid Location: Origin Time 12:02:34.7 0.3 Lat 6.52S 0.02 Lon 155.02E 0.02 Dep 372.1 1.5 Half-duration 2.8 Principal Axes: Scale 10**24 D-CM T Val= 4.25 Plg=19 Azm= 41 N 1.73 16 137	03 08 14 41.16 52.452N 160.411E 37km 5.1mb ( 62 obs.) 5.0Msz ( 6 obs.) OFF EAST COAST OF KAMCHATKA CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 12S, 23C Centroid Location: Origin Time 08:14:43.9 0.6 Lat 52.41N 0.04 Lon 160.85E 0.10	03 20 11 56.14 7.803S 13.473W 10km 4.8mb ( 14 obs.) 4.8Msz ( 2 obs.) ASCENSION ISLAND REGION CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 14S, 29C Centroid Location: Origin Time 20:12:6.5 0.8 Lat 7.68S 0.06 Lon 13.48W 0.07 Dep 10.0 FIX Half-duration 1.6 Principal Axes: Scale 10**24 D-CM T Val= 1.48 Plg=19 Azm= 81 N -0.12 2 172 P -1.37 71 267 Best Double Couple:Mo=1.4*10**24 NP1:Strike=168 Dip=26 Slip= -94 NP2: 353 64 -88

03 21 57 52.30 5.855S 151.414E 41km  
5.4mb ( 18 obs.) 5.0Msz ( 2 obs.)  
NEW BRITAIN REGION  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 12S, 22C  
Centroid Location:  
Origin Time 21:57:52.7 0.5  
Lat 6.24S 0.06 Lon 151.51E 0.07  
Dep 29.6 5.6 Half-duration 1.9  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 1.61 Plg=28 Azm=188  
N -0.16 17 288  
P -1.45 56 46  
Best Double Couple:Mo=1.5\*10\*\*24  
NP1:Strike=241 Dip=23 Slip=-140  
NP2: 113 75 -72

04 02 43 46.06 11.884N 43.769E 10km  
4.8mb ( 7 obs.) 4.4Msz ( 1 obs.)  
ETHIOPIA  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 9S, 16C  
Centroid Location:  
Origin Time 02:43:45.5 2.7  
Lat 11.31N 0.29 Lon 42.93E 0.20  
Dep 10.0 FIX Half-duration 1.4  
Principal Axes:  
Scale 10\*\*23 D-CM  
T Val= 5.27 Plg= 9 Azm= 19  
N -0.77 46 280  
P -4.50 43 118  
Best Double Couple:Mo=4.9\*10\*\*23  
NP1:Strike=149 Dip=54 Slip=-27  
NP2: 256 69 -140

04 03 56 27.06 4.873N 127.481E 94km  
6.0mb ( 45 obs.)  
TALAUD ISLANDS  
FAULT PLANE SOLUTION: P-Waves  
NP1:Strike=200 Dip=57 Slip= 90  
NP2: 20 33 90  
Principal Axes:  
T Plg=78 Azm=110  
P 12 290  
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.

MOMENT TENSOR SOLUTION  
Dep 91 No. of sta: 6  
Principal Axes:  
Scale 10\*\*25 d-cm  
T Val= 6.15 Plg=57 Azm=120  
N -0.04 17 2  
P -6.11 27 263  
Best Double Couple:Mo=6.1\*10\*\*25  
NP1:Strike=318 Dip=23 Slip= 43  
NP2: 187 74 108  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 15S, 26C  
Centroid Location:  
Origin Time 03:56:29.1 0.2  
Lat 4.79N 0.02 Lon 127.38E 0.03  
Dep 116.7 1.7 Half-duration 4.6  
Principal Axes:  
Scale 10\*\*25 D-CM  
T Val= 2.52 Plg=68 Azm=139  
N -0.02 14 11  
P -2.50 16 277  
Best Double Couple:Mo=2.5\*10\*\*25  
NP1:Strike=346 Dip=31 Slip= 62  
NP2: 198 63 106

04 11 04 18.67 13.438N 89.879W 42km  
5.0mb ( 59 obs.) 5.0Msz ( 9 obs.)  
EL SALVADOR  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 10S, 18C  
Centroid Location:  
Origin Time 11:04:17.1 0.5  
Lat 12.78N 0.08 Lon 90.66W 0.07  
Dep 24.0 4.4 Half-duration 2.0  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 1.61 Plg=65 Azm= 58  
N 0.30 11 301  
P -1.91 22 207

Best Double Couple:Mo=1.8\*10\*\*24  
NP1:Strike=276 Dip=26 Slip= 63  
NP2: 126 67 102

04 12 06 03.77 0.379S 19.541W 10km  
5.1mb ( 47 obs.) 5.4Msz ( 11 obs.)  
CENTRAL MID-ATLANTIC RIDGE  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 13S, 29C  
Centroid Location:  
Origin Time 12:06:12.4 0.3  
Lat 0.08N 0.03 Lon 19.07W 0.03  
Dep 10.0 FIX Half-duration 2.4  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 3.65 Plg= 0 Azm=216  
N -0.37 84 306  
P -3.29 6 126  
Best Double Couple:Mo=3.5\*10\*\*24  
NP1:Strike=261 Dip=86 Slip=-176  
NP2: 170 86 -4

04 21 38 46.46 57.075N 33.690W 10km  
5.1mb ( 60 obs.) 4.8Msz ( 7 obs.)  
NORTH ATLANTIC OCEAN  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 10S, 19C  
Centroid Location:  
Origin Time 21:38:49.1 0.7  
Lat 56.53N 0.10 Lon 33.34W 0.14  
Dep 10.0 FIX Half-duration 1.5  
Principal Axes:  
Scale 10\*\*23 D-CM  
T Val= 9.05 Plg=14 Azm=290  
N -0.29 23 26  
P -8.76 63 170  
Best Double Couple:Mo=8.9\*10\*\*23  
NP1:Strike=352 Dip=36 Slip=-130  
NP2: 219 63 -65

05 01 04 07.63 28.604N 141.038E 87km  
5.1mb ( 41 obs.)  
BONIN ISLANDS REGION  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 9S, 12C  
Centroid Location:  
Origin Time 01:04: 9.6 2.1  
Lat 28.84N 0.20 Lon 141.36E 0.28  
Dep 79.717.8 Half-duration 1.2  
Principal Axes:  
Scale 10\*\*23 D-CM  
T Val= 1.81 Plg=66 Azm=199  
N -0.02 2 104  
P -1.79 24 13  
Best Double Couple:Mo=1.8\*10\*\*23  
NP1:Strike= 99 Dip=21 Slip= 84  
NP2: 285 69 92

05 01 41 42.46 56.937N 33.748W 10km  
5.1mb ( 66 obs.) 5.1Msz ( 8 obs.)  
NORTH ATLANTIC OCEAN  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 11S, 18C  
Centroid Location:  
Origin Time 01:41:41.2 1.0  
Lat 56.72N 0.13 Lon 34.72W 0.19  
Dep 14.5 FIX Half-duration 1.7  
Principal Axes:  
Scale 10\*\*23 D-CM  
T Val= 7.12 Plg= 6 Azm= 40  
N 1.56 83 245  
P -8.68 3 130  
Best Double Couple:Mo=7.9\*10\*\*23  
NP1:Strike=175 Dip=83 Slip= 2  
NP2: 85 88 173

05 14 58 12.99 15.084S 177.432W 376km  
4.8mb ( 7 obs.)  
FIJI ISLANDS REGION  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 12S, 18C  
Centroid Location:  
Origin Time 14:58:24.5 1.3  
Lat 15.47S 0.11 Lon 177.83W 0.11  
Dep 380.3 4.0 Half-duration 1.4  
Principal Axes:  
Scale 10\*\*23 D-CM  
T Val= 9.74 Plg= 5 Azm=298

N -4.15 0 28  
P -5.60 85 118  
Best Double Couple:Mo=7.7\*10\*\*23  
NP1:Strike= 28 Dip=40 Slip= -90  
NP2: 208 50 -90

05 23 04 55.51 4.646S 153.173E 68km  
5.6mb ( 30 obs.)  
NEW IRELAND REGION  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 19S, 39C M.W.: 9S, 20C  
Centroid Location:  
Origin Time 23:05: 0.2 0.2  
Lat 4.94S 0.01 Lon 153.03E 0.02  
Dep 62.1 1.1 Half-duration 5.0  
Principal Axes:  
Scale 10\*\*25 D-CM  
T Val= 3.88 Plg=69 Azm=317  
N -0.31 16 94  
P -3.57 13 188  
Best Double Couple:Mo=3.7\*10\*\*25  
NP1:Strike=298 Dip=34 Slip= 118  
NP2: 85 60 72

06 02 40 12.95 0.932N 28.432W 10km  
6.3mb ( 65 obs.) 6.5Msz ( 25 obs.)  
CENTRAL MID-ATLANTIC RIDGE  
FAULT PLANE SOLUTION: P-Waves  
NP1:Strike= 83 Dip=85 Slip= 177  
NP2: 173 87 5  
Principal Axes:  
T Plg= 6 Azm= 38  
P 1 308

Comment: The focal mechanism is moderately well controlled and corresponds to right-lateral strike slip faulting with a small reverse component. The preferred fault plane is NP1.

MOMENT TENSOR SOLUTION  
Dep 32 No. of sta: 15  
Principal Axes:  
Scale 10\*\*25 d-cm  
T Val= 8.22 Plg= 9 Azm=208  
N 2.06 75 81  
P -10.28 12 300  
Best Double Couple:Mo=9.3\*10\*\*25  
NP1:Strike=344 Dip=75 Slip= -2  
NP2: 74 88 -165  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 20S, 48C M.W.: 15S, 31C  
Centroid Location:  
Origin Time 02:40:21.1 0.1  
Lat 1.00N 0.01 Lon 28.08W 0.01  
Dep 10.0 FIX Half-duration 6.7  
Principal Axes:  
Scale 10\*\*25 D-CM  
T Val= 5.46 Plg= 0 Azm=223  
N 0.28 90 180  
P -5.75 0 133  
Best Double Couple:Mo=5.6\*10\*\*25  
NP1:Strike=268 Dip=90 Slip= 180  
NP2: 358 90 0

06 11 40 17.93 3.775S 151.348E 10km  
5.6mb ( 16 obs.) 5.2Msz ( 6 obs.)  
NEW IRELAND REGION  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 12S, 21C  
Centroid Location:  
Origin Time 11:40:24.5 0.4  
Lat 3.86S 0.04 Lon 151.49E 0.05  
Dep 10.0 FIX Half-duration 2.4  
Principal Axes:  
Scale 10\*\*24 D-CM  
T Val= 3.56 Plg=18 Azm=352  
N -0.61 69 136  
P -2.95 12 258  
Best Double Couple:Mo=3.3\*10\*\*24  
NP1:Strike= 34 Dip=69 Slip= 176  
NP2: 126 86 21

06 14 27 54.39 31.261S 177.824W 33km  
5.3mb ( 17 obs.) 5.2Msz ( 5 obs.)  
KERMADEC ISLANDS REGION  
CENTROID, MOMENT TENSOR (HRV)  
Data Used: GDSN  
L.P.B.: 11S, 21C  
Centroid Location:  
Origin Time 14:27:59.1 1.0

Lat 31.03S 0.08 Lon 177.89W 0.11  
 Dep 33.0 5.6 Half-duration 1.7  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 1.22 Plg=64 Azm=291  
 N 0.22 5 190  
 P -1.44 26 97  
 Best Double Couple:Mo=1.3\*10\*\*24  
 NP1:Strike=174 Dip=20 Slip= 74  
 NP2: 11 71 96

07 09 36 12.18 28.735N 140.342E 48km  
 5.1mb ( 22 obs.) 5.4Msz ( 4 obs.)  
 BONIN ISLANDS REGION  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 11S, 19C  
 Centroid Location:  
 Origin Time 09:36: 8.7 0.5  
 Lat 28.60N 0.07 Lon 139.97E 0.08  
 Dep 10.0 FIX Half-duration 1.8  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 1.89 Plg= 4 Azm=251  
 N -0.30 12 160  
 P -1.59 78 2  
 Best Double Couple:Mo=1.7\*10\*\*24  
 NP1:Strike=353 Dip=42 Slip= -72  
 NP2: 150 51 -105

08 01 24 50.95 31.696S 178.552W 33km  
 5.4mb ( 4 obs.)  
 KERMADEC ISLANDS REGION  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 8S, 17C  
 Centroid Location:  
 Origin Time 01:24:55.7 1.4  
 Lat 32.09S 0.12 Lon 178.32W 0.13  
 Dep 53.4 7.3 Half-duration 1.4  
 Principal Axes:  
 Scale 10\*\*23 D-CM  
 T Val= 5.36 Plg=69 Azm=231  
 N 1.26 17 13  
 P -6.61 12 107  
 Best Double Couple:Mo=6.0\*10\*\*23  
 NP1:Strike=218 Dip=36 Slip= 120  
 NP2: 2 59 70

08 13 19 15.87 6.184N 126.858E 88km  
 5.7mb ( 39 obs.)  
 MINDANAO, PHILIPPINE ISLANDS  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 11S, 22C  
 Centroid Location:  
 Origin Time 13:19:19.7 0.6  
 Lat 5.63N 0.05 Lon 127.56E 0.06  
 Dep 59.9 3.8 Half-duration 1.9  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 1.60 Plg=78 Azm=341  
 N 0.58 12 180  
 P -2.19 4 89  
 Best Double Couple:Mo=1.9\*10\*\*24  
 NP1:Strike=167 Dip=42 Slip= 73  
 NP2: 10 50 105

09 16 39 34.88 21.555S 170.396E 149km  
 5.3mb ( 20 obs.)  
 LOYALTY ISLANDS REGION  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 15S, 25C  
 Centroid Location:  
 Origin Time 16:39:36.6 0.5  
 Lat 21.81S 0.06 Lon 170.22E 0.07  
 Dep 138.1 3.0 Half-duration 1.7  
 Principal Axes:  
 Scale 10\*\*23 D-CM  
 T Val= 12.52 Plg=21 Azm=341  
 N -0.52 35 87  
 P -12.00 47 227  
 Best Double Couple:Mo=1.2\*10\*\*24  
 NP1:Strike= 28 Dip=39 Slip=-156  
 NP2: 278 75 -53

09 18 46 31.10 33.242S 71.890W 37km  
 5.0mb ( 22 obs.) 4.3Msz ( 1 obs.)  
 NEAR COAST OF CENTRAL CHILE  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 12S, 20C

Centroid Location:  
 Origin Time 18:46:32.9 0.6  
 Lat 33.76S 0.07 Lon 71.68W 0.09  
 Dep 35.5 5.0 Half-duration 1.7  
 Principal Axes:  
 Scale 10\*\*23 D-CM  
 T Val= 9.28 Plg=71 Azm= 61  
 N -0.80 3 161  
 P -8.48 19 252  
 Best Double Couple:Mo=8.9\*10\*\*23  
 NP1:Strike=347 Dip=26 Slip= 97  
 NP2: 159 64 86

10 03 23 31.71 3.029N 78.578W 18km  
 5.6mb ( 72 obs.) 4.7Msz ( 6 obs.)  
 SOUTH OF PANAMA  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 13S, 24C  
 Centroid Location:  
 Origin Time 03:23:38.8 0.7  
 Lat 3.24N 0.07 Lon 78.99W 0.09  
 Dep 26.0 5.2 Half-duration 2.1  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 2.47 Plg=59 Azm= 70  
 N 0.11 11 179  
 P -2.58 29 275  
 Best Double Couple:Mo=2.5\*10\*\*24  
 NP1:Strike= 32 Dip=19 Slip= 125  
 NP2: 176 74 79

10 15 37 00.99 27.958S 66.995W 151km  
 5.8mb ( 72 obs.)  
 CATAMARCA PROVINCE, ARGENTINA  
 FAULT PLANE SOLUTION: P-Waves  
 NP1:Strike=325 Dip=75 Slip= -90  
 NP2: 145 15 -90  
 Principal Axes:  
 T Plg=30 Azm= 55  
 P 60 235  
 Comment: The focal mechanism is poorly controlled and corresponds to normal faulting. The preferred fault plane is not determined.  
 MOMENT TENSOR SOLUTION  
 Dep 201 No. of sta: 12  
 Principal Axes:  
 Scale 10\*\*25 d-cm  
 T Val= 5.02 Plg= 8 Azm= 28  
 N 0.15 45 126  
 P -5.17 44 290  
 Best Double Couple:Mo=5.1\*10\*\*25  
 NP1:Strike= 79 Dip=53 Slip=-151  
 NP2: 331 67 -40  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 23S, 47C  
 Centroid Location:  
 Origin Time 15:37: 8.8 0.1  
 Lat 27.88S 0.02 Lon 66.64W 0.02  
 Dep 170.2 0.7 Half-duration 5.8  
 Principal Axes:  
 Scale 10\*\*25 D-CM  
 T Val= 4.47 Plg=14 Azm= 52  
 N -1.04 14 318  
 P -3.43 70 185  
 Best Double Couple:Mo=3.9\*10\*\*25  
 NP1:Strike=161 Dip=33 Slip= -64  
 NP2: 310 61 -106

11 11 12 28.72 32.628S 71.860W 33km  
 5.1mb ( 17 obs.) 5.2Msz ( 3 obs.)  
 NEAR COAST OF CENTRAL CHILE  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 16S, 27C  
 Centroid Location:  
 Origin Time 11:12:32.6 0.3  
 Lat 32.57S 0.05 Lon 72.00W 0.07  
 Dep 34.4 2.7 Half-duration 1.9  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 1.91 Plg=71 Azm= 76  
 N 0.37 6 183  
 P -2.29 18 275  
 Best Double Couple:Mo=2.1\*10\*\*24  
 NP1:Strike= 14 Dip=28 Slip= 103  
 NP2: 180 63 83

12 17 22 51.67 24.585N 122.078E 28km  
 5.2mb ( 37 obs.) 5.8Msz ( 6 obs.)

TAIWAN REGION  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 13S, 26C  
 Centroid Location:  
 Origin Time 17:22:50.6 0.3  
 Lat 24.57N 0.03 Lon 122.04E 0.06  
 Dep 27.5 3.4 Half-duration 3.3  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 9.02 Plg= 5 Azm=196  
 N -2.60 48 101  
 P -6.42 42 290  
 Best Double Couple:Mo=7.7\*10\*\*24  
 NP1:Strike=324 Dip=58 Slip= -29  
 NP2: 71 65 -144

13 11 19 37.87 45.147S 95.819E 10km  
 5.1mb ( 2 obs.) 5.2Msz ( 1 obs.)  
 SOUTHEAST INDIAN RISE  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 11S, 17C  
 Centroid Location:  
 Origin Time 11:19:45.5 0.7  
 Lat 45.13S 0.08 Lon 96.04E 0.12  
 Dep 10.0 FIX Half-duration 1.5  
 Principal Axes:  
 Scale 10\*\*23 D-CM  
 T Val= 8.21 Plg=10 Azm= 17  
 N -1.00 70 136  
 P -7.21 17 284  
 Best Double Couple:Mo=7.7\*10\*\*23  
 NP1:Strike= 61 Dip=71 Slip=-175  
 NP2: 329 85 -19

14 13 14 14.89 40.767S 74.953W 33km  
 5.5mb ( 24 obs.) 4.6Msz ( 1 obs.)  
 OFF COAST OF SOUTHERN CHILE  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 14S, 29C  
 Centroid Location:  
 Origin Time 13:14:16.6 0.4  
 Lat 40.74S FIX;Lon 74.92W FIX  
 Dep 10.0 FIX Half-duration 2.0  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 1.70 Plg= 1 Azm=113  
 N -0.09 20 23  
 P -1.61 70 206  
 Best Double Couple:Mo=1.6\*10\*\*24  
 NP1:Strike=223 Dip=48 Slip= -62  
 NP2: 4 49 -117

15 15 17 42.98 34.620N 82.992E 43km  
 5.4mb ( 73 obs.) 5.2Msz ( 4 obs.)  
 TIBET  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 13S, 21C  
 Centroid Location:  
 Origin Time 15:17:47.5 0.5  
 Lat 34.59N 0.12 Lon 83.34E 0.12  
 Dep 33.9 4.6 Half-duration 1.7  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 1.23 Plg= 2 Azm= 92  
 N -0.42 50 185  
 P -0.81 40 0  
 Best Double Couple:Mo=1.0\*10\*\*24  
 NP1:Strike=144 Dip=61 Slip=-151  
 NP2: 39 65 -32

16 11 43 15.16 56.345S 146.998E 10km  
 5.0mb ( 4 obs.) 4.9Msz ( 1 obs.)  
 WEST OF MACQUARIE ISLAND  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 16S, 25C  
 Centroid Location:  
 Origin Time 11:43:21.4 0.5  
 Lat 56.14S 0.08 Lon 146.20E 0.11  
 Dep 10.0 FIX Half-duration 1.9  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 1.77 Plg=12 Azm= 22  
 N 0.16 47 279  
 P -1.93 41 123  
 Best Double Couple:Mo=1.9\*10\*\*24  
 NP1:Strike=153 Dip=52 Slip= -24  
 NP2: 259 71 -140

17 06 31 59.72 9.374S 148.600E 30km  
 5.5mb ( 12 obs.)  
 EAST PAPUA NEW GUINEA REGION  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 11S, 20C  
 Centroid Location:  
 Origin Time 06:32: 3.2 0.7  
 Lat 9.49S 0.08 Lon 148.74E 0.07  
 Dep 42.6 7.7 Half-duration 1.4  
 Principal Axes:  
 Scale 10\*\*23 D-CM  
 T Val= 4.87 Plg= 9 Azm=196  
 N 0.23 1 106  
 P -5.10 81 11  
 Best Double Couple:Mo=5.0\*10\*\*23  
 NP1:Strike=287 Dip=36 Slip= -89  
 NP2: 105 54 -91

17 19 12 38.86 30.276N 132.681E 26km  
 5.8mb ( 77 obs.) 5.3Msz ( 3 obs.)  
 SOUTHEAST OF SHIKOKU, JAPAN  
 FAULT PLANE SOLUTION: P-Waves  
 NP1:Strike=175 Dip=62 Slip=-147  
 NP2: 68 61 -32  
 Principal Axes:  
 T Plg= 0 Azm=301  
 P 42 32  
 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.

# MOMENT TENSOR SOLUTION

Dep 6 No. of sta: 8

Principal Axes:

Scale 10\*\*24 d-cm

T Val= 5.20 Plg=18 Azm=274

N -0.03 23 176

P -5.18 60 38

Best Double Couple:Mo=5.2\*10\*\*24

NP1:Strike= 36 Dip=34 Slip= -45

NP2: 165 67 -115

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 14S, 27C

Centroid Location:

Origin Time 19:12:41.2 0.3

Lat 30.04N 0.05 Lon 132.58E 0.05

Dep 10.0 FIX Half-duration 2.3

Principal Axes:

Scale 10\*\*24 D-CM

T Val= 2.50 Plg= 9 Azm=277

N 0.15 14 184

P -2.65 73 40

Best Double Couple:Mo=2.6\*10\*\*24

NP1:Strike= 23 Dip=38 Slip= -67

NP2: 175 56 -106

19 20 00 39.55 16.022S 177.988W 465km  
 5.0mb ( 29 obs.)  
 FIJI ISLANDS REGION  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 11S, 18C  
 Centroid Location:  
 Origin Time 20:00:45.9 0.5  
 Lat 15.74S 0.08 Lon 178.01W 0.07  
 Dep 473.1 4.1 Half-duration 1.6  
 Principal Axes:  
 Scale 10\*\*23 D-CM  
 T Val= 10.51 Plg=42 Azm=141  
 N -0.72 47 335  
 P -9.78 7 237  
 Best Double Couple:Mo=1.0\*10\*\*24  
 NP1:Strike=288 Dip=56 Slip= 28  
 NP2: 182 67 142

21 04 31 13.43 28.437S 175.953W 47km  
 5.4mb ( 24 obs.) 5.9Msz ( 16 obs.)  
 KERMADEC ISLANDS REGION  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 14S, 29C  
 Centroid Location:  
 Origin Time 04:31:16.0 0.2  
 Lat 28.62S 0.03 Lon 175.50W 0.03  
 Dep 22.4 1.5 Half-duration 3.4  
 Principal Axes:  
 Scale 10\*\*25 D-CM  
 T Val= 1.21 Plg= 4 Azm=274  
 N -0.38 24 182

P -0.83 66 12  
 Best Double Couple:Mo=1.0\*10\*\*25  
 NP1:Strike= 28 Dip=46 Slip= -56  
 NP2: 163 53 -121  
 21 21 43 56.84 4.856N 127.536E 105km  
 5.3mb ( 25 obs.)  
 TALAUD ISLANDS  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 12S, 19C  
 Centroid Location:  
 Origin Time 21:43:57.8 0.7  
 Lat 4.74N 0.07 Lon 127.94E 0.12  
 Dep 123.7 5.5 Half-duration 1.5  
 Principal Axes:  
 Scale 10\*\*23 D-CM  
 T Val= 7.46 Plg=62 Azm=122  
 N 0.87 6 20  
 P -8.32 27 287  
 Best Double Couple:Mo=7.9\*10\*\*23  
 NP1:Strike= 1 Dip=19 Slip= 71  
 NP2: 202 72 96

23 06 55 24.23 24.032S 67.076W 181km  
 5.6mb ( 73 obs.)  
 CHILE-ARGENTINA BORDER REGION  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 13S, 30C  
 Centroid Location:  
 Origin Time 06:55:33.7 0.2  
 Lat 23.64S 0.03 Lon 66.97W 0.03  
 Dep 196.8 1.1 Half-duration 2.6  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 4.21 Plg=36 Azm= 74  
 N -0.71 10 336  
 P -3.50 52 233  
 Best Double Couple:Mo=3.9\*10\*\*24  
 NP1:Strike=205 Dip=13 Slip= -40  
 NP2: 335 82 -100

23 13 01 37.15 11.012S 163.584E 36km  
 5.7mb ( 31 obs.) 6.5Msz ( 28 obs.)  
 SOLOMON ISLANDS  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 15S, 34C M.W.: 14S, 28C  
 Centroid Location:  
 Origin Time 13:01:39.7 0.2  
 Lat 10.91S 0.01 Lon 163.86E 0.02  
 Dep 10.5 2.0 Half-duration 6.9  
 Principal Axes:  
 Scale 10\*\*25 D-CM  
 T Val= 7.25 Plg=24 Azm=111  
 N 0.35 50 350  
 P -7.60 31 216  
 Best Double Couple:Mo=7.4\*10\*\*25  
 NP1:Strike=251 Dip=50 Slip= -6  
 NP2: 345 86 -140

23 19 49 54.48 10.937S 163.760E 32km  
 5.7mb ( 34 obs.) 6.0Msz ( 26 obs.)  
 SOLOMON ISLANDS  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 17S, 40C  
 Centroid Location:  
 Origin Time 19:50: 3.0 0.2  
 Lat 10.71S 0.02 Lon 163.91E 0.02  
 Dep 12.6 2.2 Half-duration 5.9  
 Principal Axes:  
 Scale 10\*\*25 D-CM  
 T Val= 4.11 Plg=36 Azm=101  
 N 0.20 46 323  
 P -4.31 22 208  
 Best Double Couple:Mo=4.2\*10\*\*25  
 NP1:Strike=249 Dip=47 Slip= 11  
 NP2: 152 82 137

24 12 12 52.55 5.789S 148.346E 121km  
 5.4mb ( 20 obs.)  
 NEW BRITAIN REGION  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 9S, 16C  
 Centroid Location:  
 Origin Time 12:12:59.3 0.9  
 Lat 5.71S 0.10 Lon 148.20E 0.08  
 Dep 118.0 FIX Half-duration 1.5  
 Principal Axes:  
 Scale 10\*\*23 D-CM

T Val= 9.11 Plg=33 Azm=201  
 N -1.62 2 293  
 P -7.50 56 26  
 Best Double Couple:Mo=8.3\*10\*\*23  
 NP1:Strike=283 Dip=12 Slip=-100  
 NP2: 113 79 -88

24 22 21 38.46 8.828S 79.137W 61km  
 5.3mb ( 52 obs.)  
 NEAR COAST OF NORTHERN PERU  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 12S, 20C  
 Centroid Location:  
 Origin Time 22:21:43.3 0.5  
 Lat 9.09S 0.08 Lon 79.43W 0.12  
 Dep 45.0 6.9 Half-duration 1.5  
 Principal Axes:  
 Scale 10\*\*23 D-CM  
 T Val= 6.67 Plg=24 Azm=225  
 N -1.01 10 130  
 P -5.65 64 19  
 Best Double Couple:Mo=6.2\*10\*\*23  
 NP1:Strike=334 Dip=23 Slip= -64  
 NP2: 127 69 -100

26 03 05 39.91 9.434N 124.281E 538km  
 5.3mb ( 40 obs.)  
 MINDANAO, PHILIPPINE ISLANDS  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 13S, 22C  
 Centroid Location:  
 Origin Time 03:05:43.7 0.5  
 Lat 9.27N 0.06 Lon 124.40E 0.05  
 Dep 528.2 3.4 Half-duration 1.9  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 1.33 Plg= 1 Azm= 95  
 N 0.47 35 186  
 P -1.80 55 4  
 Best Double Couple:Mo=1.6\*10\*\*24  
 NP1:Strike=155 Dip=54 Slip=-135  
 NP2: 35 55 -46

26 17 10 00.91 18.889N 64.577W 46km  
 5.6mb ( 83 obs.) 5.5Msz ( 21 obs.)  
 VIRGIN ISLANDS  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 14S, 30C  
 Centroid Location:  
 Origin Time 17:10: 5.4 0.2  
 Lat 19.25N 0.03 Lon 64.73W 0.04  
 Dep 26.6 2.1 Half-duration 3.2  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 7.22 Plg=46 Azm=282  
 N 1.69 28 159  
 P -8.91 31 51  
 Best Double Couple:Mo=8.1\*10\*\*24  
 NP1:Strike= 90 Dip=29 Slip= 18  
 NP2: 344 81 118

26 20 28 24.44 6.094N 82.304W 10km  
 5.1mb ( 33 obs.) 4.9Msz ( 7 obs.)  
 SOUTH OF PANAMA  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 14S, 25C  
 Centroid Location:  
 Origin Time 20:28:32.1 0.6  
 Lat 6.34N 0.05 Lon 82.83W 0.07  
 Dep 10.0 FIX Half-duration 1.8  
 Principal Axes:  
 Scale 10\*\*24 D-CM  
 T Val= 1.84 Plg=23 Azm=339  
 N -0.37 63 192  
 P -1.47 13 75  
 Best Double Couple:Mo=1.7\*10\*\*24  
 NP1:Strike=118 Dip=64 Slip= 7  
 NP2: 25 83 154

26 23 44 53.31 6.854N 72.980W 154km  
 5.2mb ( 43 obs.)  
 NORTHERN COLOMBIA  
 CENTROID, MOMENT TENSOR (HRV)  
 Data Used: GDSN  
 L.P.B.: 11S, 15C  
 Centroid Location:  
 Origin Time 23:45: 1.0 1.5  
 Lat 7.10N 0.13 Lon 73.00W 0.14  
 Dep 144.2 3.6 Half-duration 1.4

Principal Axes	Origin Time 07 32:27.0 0.3	Data Used: GDSN
Scale 10**23 D-CM	Lat 10.30S 0.04 Lon 41.55E 0 03	L.P.B.: 14S, 30C
T Val= 6.39 Plg=54 Azm=119	Dep 10.0 FIX Half-duration 2.4	Centroid Location:
N -0.45 2 26	Principal Axes:	Origin Time 02:55:27.7 0.3
P -5.94 36 294	Scale 10**24 D-CM	Lat 20.72N 0.04 Lon 121.82E 0.06
Best Double Couple:Ma=6.2*10**23	T Val= 3.12 Plg= 1 Azm=257	Dep 10.0 FIX Half-duration 2.0
NP1:Strike= 12 Dip= 9 Slip= 76	N -0.29 2 347	Principal Axes:
NP2: 206 81 92	P -2.83 88 147	Scale 10**24 D-CM
27 12 45 59.48 6.570S 154.932E 49km	Best Double Couple:Ma=3.0*10**24	T Val= 2.28 Plg=16 Azm=217
5.3mb ( 15 abs.)	NP1:Strike=346 Dip=44 Slip= -93	N 0.24 55 332
SOLOMON ISLANDS	NP2: 169 46 -87	P -2.51 30 117
CENTROID, MOMENT TENSOR (HRV)	28 18 54 16.00 37.564S 179.442E 50km	Best Double Couple:Ma=2.4*10**24
Data Used: GDSN	5.6mb ( 11 abs.) 5.2MsZ ( 7 abs.)	NP1:Strike=261 Dip=56 Slip=-170
L.P.B.: 12S, 17C	OFF E. COAST OF N. ISLAND, N.Z.	NP2: 165 81 -34
Centroid Location	CENTROID, MOMENT TENSOR (HRV)	29 08 34 33.26 1.363N 98.422E 76km
Origin Time 12:46 5.6 0.6	Data Used: GDSN	5.4mb ( 64 abs.)
Lat 6 61S 0 11 Lon 154.64E 0.11	L.P.B.: 14S, 28C	NORTHERN SUMATERA
Dep 21 3 6.5 Half-duration 1 5	Centroid Location:	CENTROID, MOMENT TENSOR (HRV)
Principal Axes:	Origin Time 18:54:16.6 0.3	Data Used: GDSN
Scale 10**23 D-CM	Lat 37 61S 0.03 Lon 179.65E 0.05	L.P.B.: 15S, 27C
T Val= 6 83 Plg=77 Azm= 16	Dep 11.9 2.0 Half-duration 2.5	Centroid Location:
N 0 48 6 132	Principal Axes:	Origin Time 08:34:33.4 0.5
P -7.31 12 223	Scale 10**24 D-CM	Lat 1.41N 0.05 Lon 98.09E 0.07
Best Double Couple:Ma=7 1*10**23	T Val= 3.49 Plg=13 Azm=306	Dep 62 4 4.2 Half-duration 1.6
NP1:Strike=320 Dip=34 Slip= 100	N -0.51 18 40	Principal Axes:
NP2: 128 57 83	P -2.98 68 182	Scale 10**23 D-CM
27 19 18 47.17 1.172N 127.300E 146km	Best Double Couple:Ma=3.2*10**24	T Val= 10.87 Plg=22 Azm= 6
5.6mb ( 29 abs.)	NP1:Strike= 14 Dip=36 Slip=-121	N 0.86 20 105
HALMAHERA	NP2: 231 60 -69	P -11.73 59 232
CENTROID, MOMENT TENSOR (HRV)	28 22 46 19.80 2.465S 28.911E 10km	Best Double Couple:Ma=1.1*10**24
Data Used: GDSN	4.9mb ( 32 abs.)	NP1:Strike= 63 Dip=29 Slip=-135
L.P.B.: 11S, 21C	LAKE TANGANYIKA REGION	NP2: 292 70 -69
Centroid Location:	CENTROID, MOMENT TENSOR (HRV)	29 17 52 48.29 24.503S 176.573W 84km
Origin Time 19:18:52.6 0 7	Data Used: GDSN	5.1mb ( 20 abs.)
Lat 1.30N 0.09 Lon 127.43E 0.11	L.P.B.: 8S, 12C	SOUTH OF FIJI ISLANDS
Dep 159.8 6.0 Half-duration 1.7	Centroid Location:	CENTROID, MOMENT TENSOR (HRV)
Principal Axes:	Origin Time 22:46:22.4 1.2	Data Used: GDSN
Scale 10**23 D-CM	Lat 2.31S FIX:Lon 29.01E FIX	L.P.B.: 13S, 22C
T Val= 11.62 Plg=35 Azm=169	Dep 10.0 FIX Half-duration 1.4	Centroid Location:
N -0.53 50 21	Principal Axes:	Origin Time 17:52:48.5 1.1
P -11.09 16 270	Scale 10**23 D-CM	Lat 24.51S 0.10 Lon 176 04W 0.10
Best Double Couple:Ma=1.1*10**24	T Val= 2.96 Plg= 0 Azm=121	Dep 70.8 7.1 Half-duration 1.3
NP1:Strike=315 Dip=53 Slip= 15	N 0.39 0 31	Principal Axes:
NP2: 216 78 142	P -3.35 90 180	Scale 10**23 D-CM
28 07 32 20.05 10.614S 41.238E 10km	Best Double Couple:Ma=3.1*10**23	T Val= 4.82 Plg=74 Azm=260
5.4mb ( 50 abs.) 5.4MsZ ( 11 abs.)	NP1:Strike=211 Dip=45 Slip= -90	N -0.83 9 22
NORTHWEST OF MADAGASCAR	NP2: 31 45 -90	P -4.00 14 114
CENTROID, MOMENT TENSOR (HRV)	29 03 39 33.64 53.438N 169.520W 33km	Best Double Couple:Ma=4.4*10**23
Data Used: GDSN	4.1mb ( 3 abs.)	NP1:Strike=216 Dip=32 Slip= 106
L.P.B.: 14S, 27C	FOX ISLANDS, ALEUTIAN ISLANDS	NP2: 16 59 80
Centroid Location:	CENTROID, MOMENT TENSOR (HRV)	

Compiled by Willis S. Jacobs, Leonard E. Kerry, John H. Minsch, Russell E. Needham, Waverly J. Persan, Bruce W. Presgrave and William H. Schmieder.

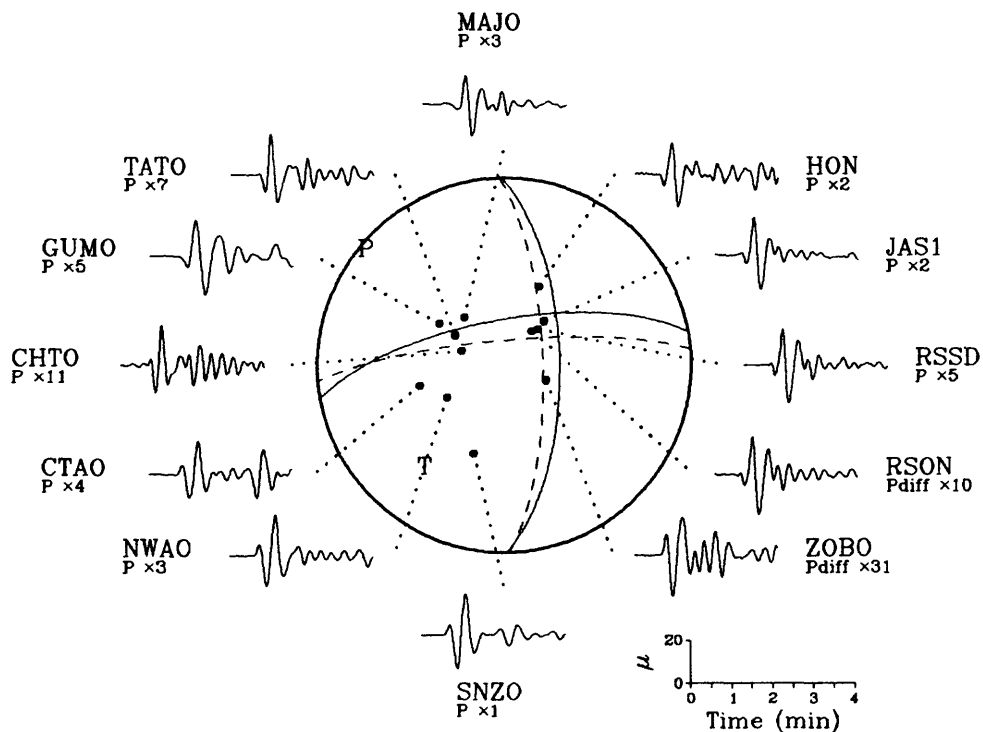
Correction to Monthly Listing for May, 1985:

Panama event of May 6 at 20 08 16 8 should read,

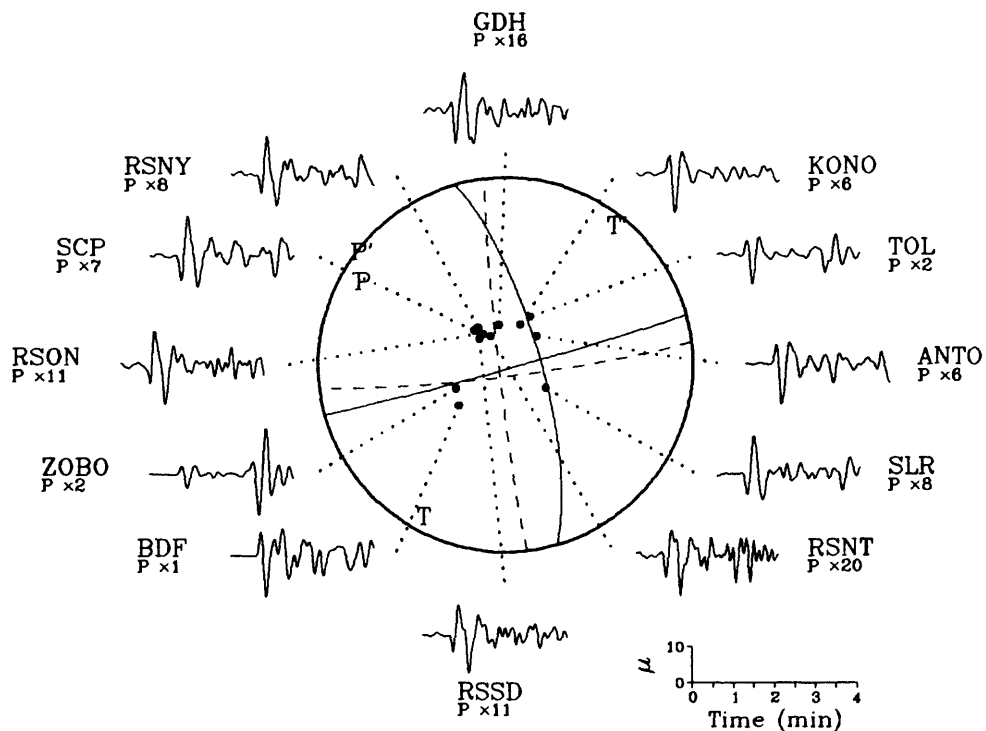
MAY

6 20 08 20 8\* 7.349 N 80.694 W 33 N 4.9 1.4 29 PANAMA. Felt (IV) in the northern part of the Azuero Peninsula.

03 June 1985 12:06:21.13  
Tonga Islands

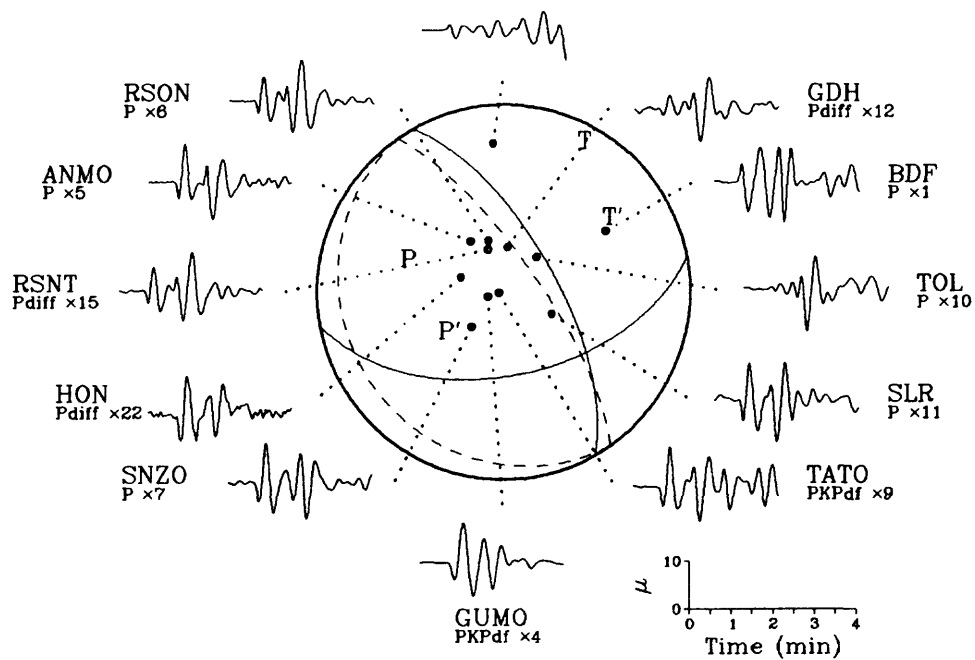


06 June 1985 02:40:12.95  
Central Mid-Atlantic Ridge

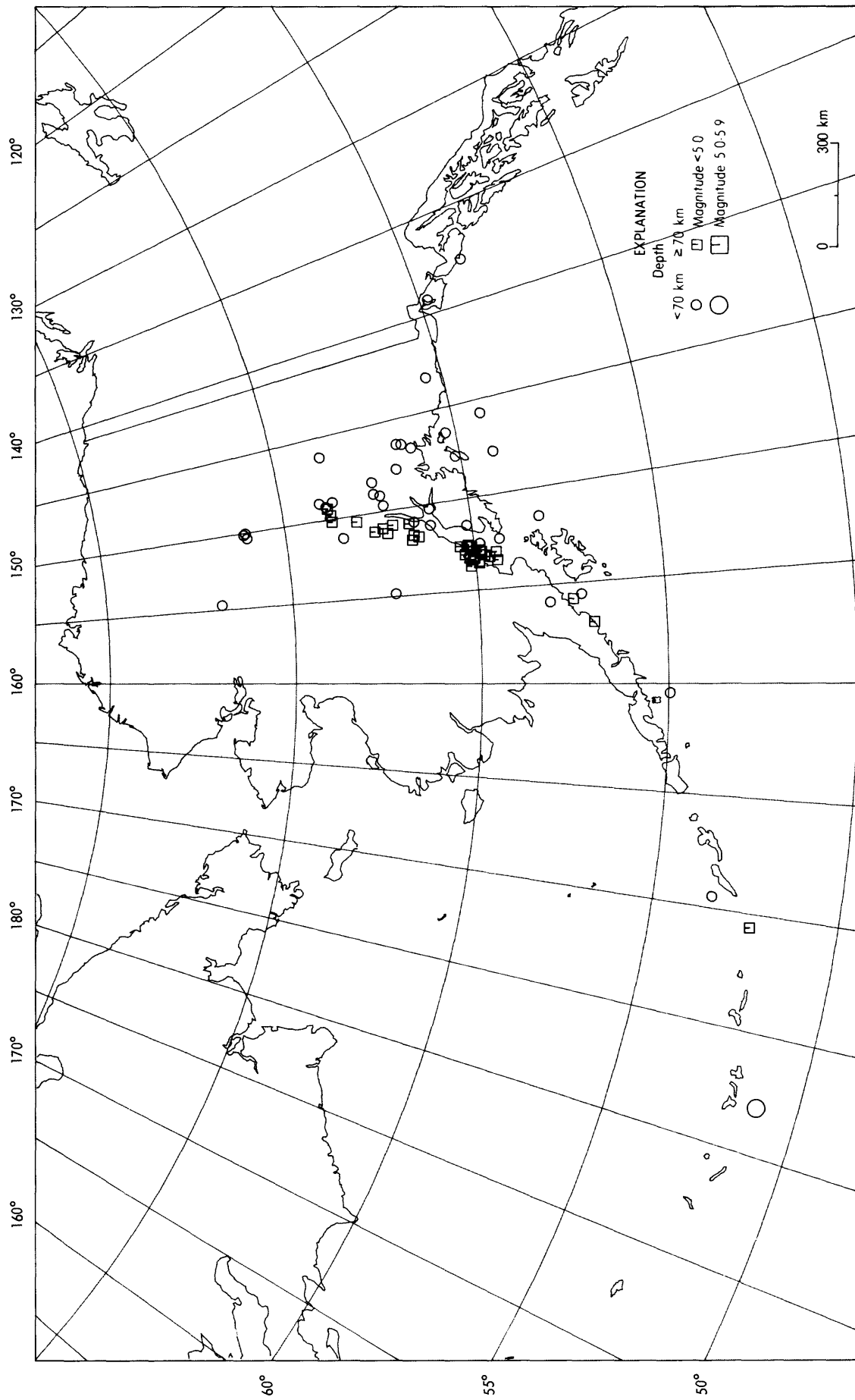


10 June 1985 15:37:00.99  
Catamarca Province, Argentina

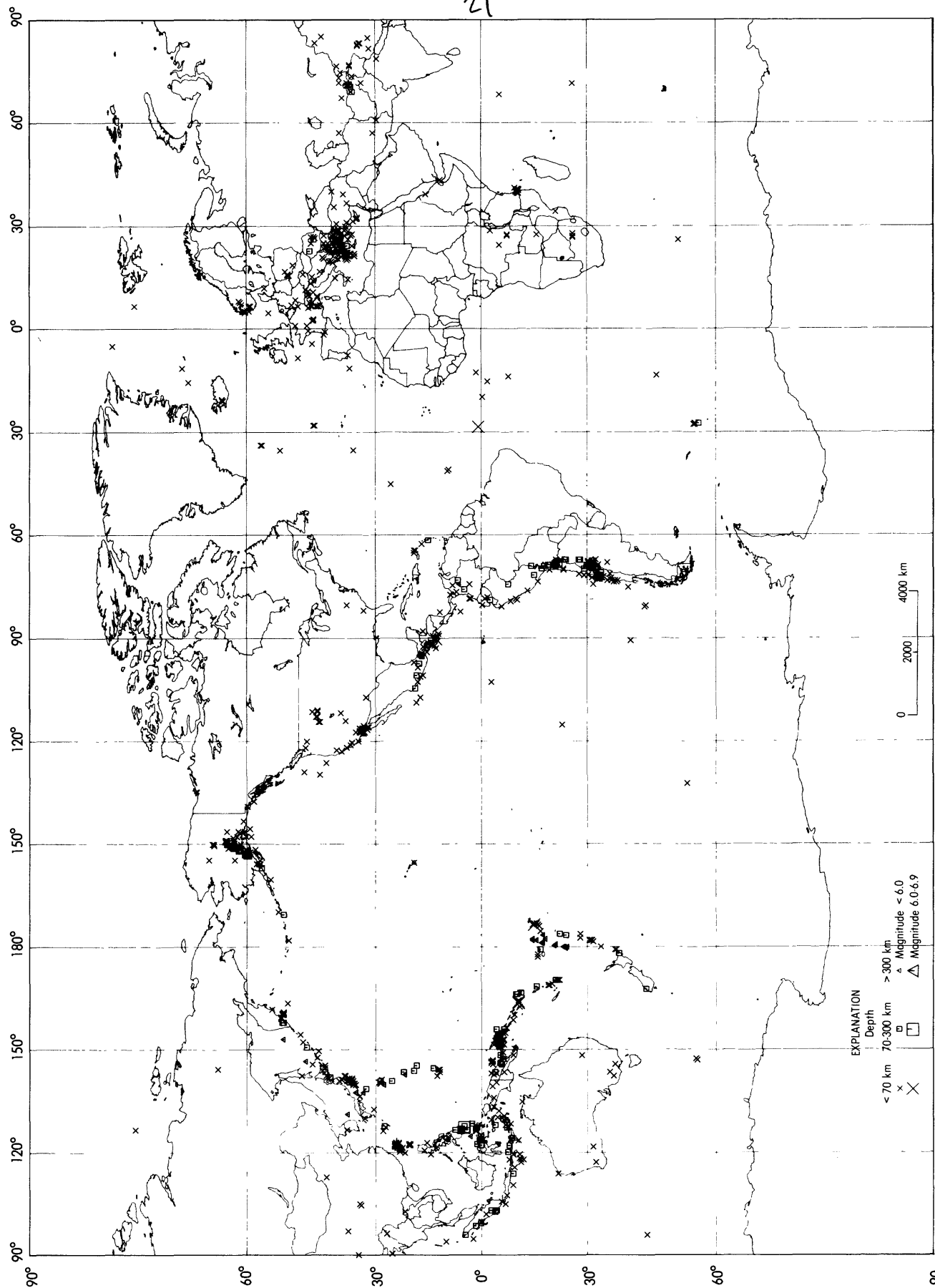
ZOBO  
P x1



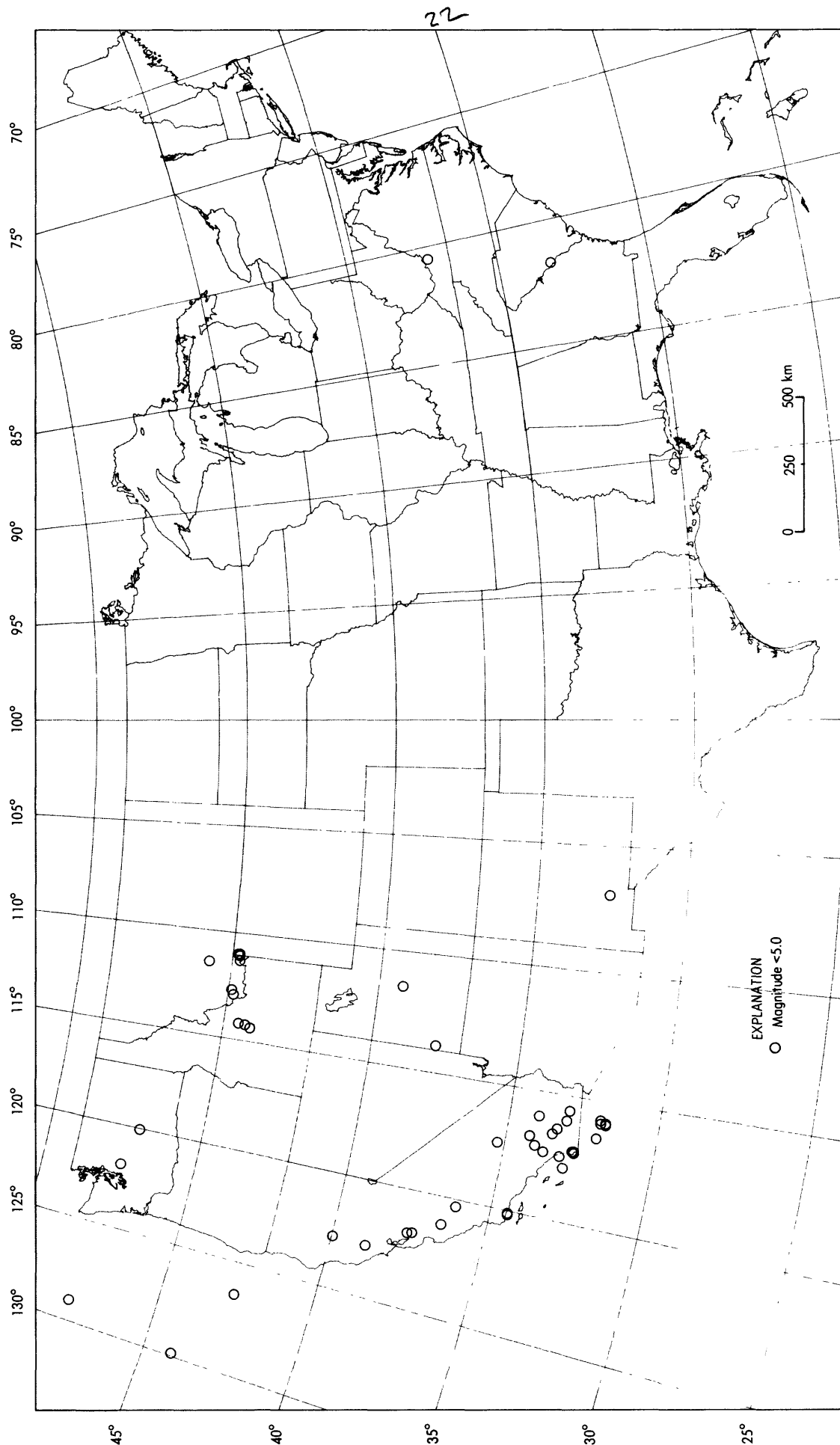




Earthquake epicenters in Alaska and adjacent regions for June, 1985 (C. Stover).



Earthquakes located in June, 1985 (C. Stover).



Earthquake epicenters in the conterminous United States and adjacent regions for June, 1985 (C. Stover).

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