

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PRELIMINARY DETERMINATION OF EPICENTERS
MONTHLY LISTING

JANUARY - MARCH, 1987

NATIONAL EARTHQUAKE INFORMATION CENTER

Open File Report

87-786 A



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

1988



PRELIMINARY DETERMINATION OF EPICENTERS

MONTHLY LISTING

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

JANUARY 1987

K E Y	DAY	ORIGIN TIME			GEOGRAPHIC COORDINATES		DEPTH	MAGNITUDES		SD	NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS	
		UTC	HR	MN	SEC	LAT		LONG	GS				MsZ
	01	00	25	36.3	39.553 N	28.785 E	10	G		0.6	6	TURKEY	
	01	01	01	02.7?	16.85 S	75.44 W	33	N		1.4	7	OFF COAST OF PERU	
	01	01	58	21.3*	6.726 S	76.728 W	33	N	4.8	1.4	16	NORTHERN PERU	
	01	03	19	14.9?	51.29 N	16.05 E	10	G		0.4	6	POLAND. ML 3.0 (VKA).	
	01	04	01	53.7*	49.550 N	156.111 E	39	D	4.5	1.4	34	KURIL ISLANDS	
	01	04	31	44.5*	24.492 N	63.195 E	33	N	4.6	1.0	7	NEAR COAST OF PAKISTAN	
	01	04	55	35.5*	44.480 N	148.136 E	33	N	4.7	1.1	24	KURIL ISLANDS	
	01	06	07	26.4	4.687 S	153.063 E	56		5.1	0.9	70	NEW IRELAND REGION	
	01	07	22	44.6?	10.95 N	123.99 E	33	N	4.3	1.2	14	CEBU, PHILIPPINE ISLANDS	
	01	07	24	21.0&	63.194 N	150.600 W	49				21	CENTRAL ALASKA. <AGS-P>.	
	01	08	02	24.0*	42.788 N	103.482 W	5	G		1.6	5	NEBRASKA. mBlg 3.5 (NEIS). Felt (III) at Crawford, Harrison and Whitney, Nebraska. Also felt (III) at Ardmore and Oglala, South Dakota.	
	01	08	25	06.4&	34.030 N	116.650 W	12				20	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS). Felt in the Marango Valley area.	
	01	09	20	13.3?	23.79 S	176.66 W	133	?	4.3	1.0	13	SOUTH OF FIJI ISLANDS	
	01	10	25	35.8?	43.06 N	127.03 W	10	G	4.0	1.1	11	OFF COAST OF OREGON	
	01	10	59	56.4	40.750 N	27.325 E	10	G		0.9	5	TURKEY	
	01	11	18	10.1*	15.944 S	176.781 W	403	*	4.8	0.8	13	FIJI ISLANDS REGION	
	01	12	11	43.0*	42.072 N	24.056 E	5	G		0.6	5	BULGARIA	
	01	12	30	58.0	39.037 N	27.982 E	10	G		0.5	6	TURKEY	
	01	14	56	42.0*	35.195 N	71.338 E	241	?	3.9	1.4	12	PAKISTAN	
a	01	16	25	34.1	2.715 S	138.363 E	74	G	5.8	1.0	177	WEST IRIAN. Depth from broadband displacement seismograms.	
	01	16	46	39.4?	61.64 N	4.29 E	10	G		0.1	7	SOUTHERN NORWAY. MD 2.4 (BER).	
	01	19	11	56.5	39.059 N	27.789 E	10	G		0.9	7	TURKEY	
	01	21	12	33.9	10.193 S	161.096 E	93		5.0	1.0	38	SOLOMON ISLANDS. Felt (II) at Honiara.	
	01	22	36	28.3?	35.74 N	27.46 E	33	N		0.8	6	DODECANESE ISLANDS	
	01	22	41	14.6	42.369 N	19.530 E	10	G		1.5	7	YUGOSLAVIA. ML 2.5 (TTG).	
	02	00	33	46.8&	62.168 N	151.072 W	79				19	CENTRAL ALASKA. <AGS-P>.	
	02	01	06	07.2&	61.398 N	152.136 W	115				31	SOUTHERN ALASKA. <AGS-P>.	
	02	01	52	10.3*	38.289 N	25.168 E	10	G		1.0	5	AEGEAN SEA. ML 3.1 (ATH).	
	02	03	36	23.9*	3.309 S	148.826 E	10	G	4.2	1.3	16	BISMARCK SEA	
	02	03	40	39.9?	66.28 N	150.03 W	10	G		1.2	5	ALASKA. ML 3.8 (PMR).	
	02	05	45	50.0*	10.386 N	126.121 E	67	*	4.6	1.2	33	PHILIPPINE ISLANDS REGION	
a	02	07	42	43.7	42.437 S	18.428 W	10	G	5.1	5.1	1.1	47	SOUTH ATLANTIC RIDGE
	02	08	14	48.6*	35.373 N	3.691 W	10	G		1.2	7	STRAIT OF GIBRALTAR. MG 3.7 (AVE).	
	02	09	36	53.8?	16.12 S	74.67 W	33	N	4.4	0.5	5	NEAR COAST OF PERU	
	02	10	14	46.4	30.480 N	32.221 E	24		5.0	0.9	23	ARAB REPUBLIC OF EGYPT. Minor damage at Ismailiya. Also felt at Coiro.	
	02	14	03	37.3*	3.660 S	146.915 E	33	N	4.1	1.2	6	BISMARCK SEA	
	02	17	05	20.6	43.198 N	25.899 E	10	G		1.3	8	BULGARIA	
	02	18	52	46.2*	36.216 N	140.702 E	69		4.2	0.8	17	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Mita and (I JMA) at Utsunomiya.	
	02	19	00	51.6*	39.994 N	26.025 E	10	G		0.5	5	TURKEY	
	02	19	39	47.2&	59.008 N	154.395 W	128				20	SOUTHERN ALASKA. <AGS-P>.	
	02	19	56	55.1	46.768 N	7.045 E	5	G		1.1	15	SWITZERLAND. ML 2.6 (LDG).	
	02	20	42	21.5*	7.038 S	130.322 E	137	?	4.1	1.4	8	TANIMBAR ISLANDS REGION	
	02	21	00	06.4*	4.607 S	143.203 E	33	N	3.5	1.3	5	PAPUA NEW GUINEA	
	03	02	43	27.5?	51.21 N	19.80 E	10	G		0.4	5	POLAND. ML 2.9 (KRA).	
	03	03	54	15.3?	33.86 S	71.64 W	33	N		0.3	5	NEAR COAST OF CENTRAL CHILE	
	03	08	41	12.0&	62.249 N	155.023 W	4				12	CENTRAL ALASKA. <AGS-P>.	
	03	08	50	16.5?	42.43 S	18.62 W	10	G	4.7	1.4	10	SOUTH ATLANTIC RIDGE	
	03	09	01	44.8*	24.226 S	67.196 W	201	?		1.4	7	CHILE-ARGENTINA BORDER REGION	
	03	09	25	36.0*	62.679 N	152.763 W	10	G		0.9	6	CENTRAL ALASKA. ML 3.1 (PMR).	
	03	14	02	00.7	19.141 S	167.737 E	10	G	4.3	1.1	11	VANUATU ISLANDS REGION	
	03	15	25	15.1?	45.70 N	151.50 E	33	N	4.9	1.2	20	KURIL ISLANDS	
a	03	15	35	01.2	3.408 S	146.227 E	5	G	5.5	6.0	1.2	100	BISMARCK SEA

	03	16 13 42.2*	3.333 S	146.304 E	33 N	3.9	1.4	6	BISMARCK SEA
o	03	16 30 27.0	3.443 S	146.307 E	5 G	5.6 6.2	1.1	117	BISMARCK SEA
	03	17 27 00.2*	13.279 S	167.281 E	214 *	4.8	1.1	35	VANUATU ISLANDS
	03	17 45 07.8	28.793 N	139.367 E	461 *	4.4	0.8	28	BONIN ISLANDS REGION
	03	17 51 30.6	2.778 S	138.302 E	60 *	5.0	1.2	48	WEST IRIAN
	03	17 56 07.9?	0.21 S	98.06 E	33 N		1.5	5	SOUTHERN SUMATERA
	03	18 01 06.2&	33.500 N	116.480 W	8			15	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS). Felt (III) at Cabazon, Indio, Palm Springs and Thousand Palms.
	03	18 14 41.3*	5.323 N	94.252 W	10 G	4.8	1.0	16	EAST CENTRAL PACIFIC OCEAN
	03	18 19 35.9?	5.64 N	93.70 W	10 G	4.5	0.8	14	EAST CENTRAL PACIFIC OCEAN
f	03	22 04 04.8	14.998 S	167.929 E	15 G	6.0 6.5	1.1	266	VANUATU ISLANDS. Ms 6.7 (BRK), 6.6 (PAS). Complex rupture. Depth from broadband displacement seismograms, based on dominant second event.
	03	22 36 58.3	14.646 S	167.914 E	33 N	5.0	1.0	49	VANUATU ISLANDS
	04	00 05 38.1	51.402 N	177.294 W	33 N	4.9	0.9	87	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.9 (PMR). Felt (III) on Adok.
	04	00 32 14.5	21.035 S	178.684 W	560	5.1	1.0	70	FIJI ISLANDS REGION
	04	00 54 51.3*	42.219 N	64.599 E	33 N	4.3	0.9	7	UZBEK SSR
o	04	01 38 52.5	27.193 S	176.563 W	33 N	5.4 5.4	1.1	74	KERMADEC ISLANDS REGION
	04	01 56 17.4*	27.367 S	176.421 W	33 N	5.2 5.3	1.3	13	KERMADEC ISLANDS REGION
	04	02 00 50.9?	15.11 S	168.15 E	33 N	4.8	1.5	12	VANUATU ISLANDS
	04	03 37 57.7?	51.62 N	16.46 E	10 G		0.5	9	POLAND. ML 3.4 (VKA).
	04	04 03 29.8?	31.66 S	71.58 W	10 G		1.3	8	NEAR COAST OF CENTRAL CHILE
	04	06 41 56.2	35.408 N	3.520 W	10 G		1.1	9	STRAIT OF GIBRALTAR. MG 3.8 (AVE).
	04	07 05 23.4	57.584 S	26.578 W	140 G	5.2	0.6	27	SOUTH SANDWICH ISLANDS REGION
	04	08 01 27.1	4.730 S	145.298 E	63 *	5.0	1.2	24	NEAR N COAST OF PAPUA NEW GUINEA
	04	08 52 59.6?	3.68 S	146.82 E	33 N	5.1	1.8	6	BISMARCK SEA
o	04	10 21 45.8	49.774 N	149.286 E	489 D	5.1	0.7	228	NORTHWEST OF KURIL ISLANDS
	04	10 25 54.1*	63.362 N	150.807 W	33 N		1.2	5	CENTRAL ALASKA. ML 3.4 (PMR).
	04	10 43 21.4*	27.459 S	176.477 W	33 N	5.1	1.3	39	KERMADEC ISLANDS REGION
	04	11 55 31.6*	57.971 S	25.504 W	56 D	4.6	0.7	12	SOUTH SANDWICH ISLANDS REGION
o	04	13 22 01.8	2.392 S	139.466 E	32 D	5.5 5.6	1.1	140	NEAR N. COAST OF WEST IRIAN
	04	16 28 59.6&	60.331 N	153.468 W	173			31	SOUTHERN ALASKA. <AGS-P>.
	04	17 28 12.7*	13.292 N	145.951 E	33 N	4.1	0.7	16	MARIANA ISLANDS
o	04	17 52 36.8	5.973 S	82.601 W	10 G	5.6 5.8	1.3	172	SOUTH OF PANAMA
	04	21 47 32.7*	32.868 S	69.711 W	33 N		1.3	6	MENDOZA PROVINCE, ARGENTINA
	05	00 30 12.4*	7.152 S	147.717 E	47 ?		0.9	8	EAST PAPUA NEW GUINEA REGION
	05	01 00 55.5*	4.074 S	151.026 E	33 N	4.2	1.4	13	NEW BRITAIN REGION
	05	02 01 29.5&	60.065 N	153.418 W	150			34	SOUTHERN ALASKA. <AGS-P>.
	05	02 03 04.5*	35.974 N	139.510 E	104	4.1	1.0	10	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro and Utsunomiya.
	05	02 53 12.0?	65.93 N	150.11 W	10 G		1.8	5	ALASKA. ML 3.3 (PMR).
o	05	03 32 41.7	3.424 S	146.520 E	10 G	5.2 5.0	1.0	50	BISMARCK SEA
	05	04 43 00.9	45.899 N	0.353 W	10 G		1.1	13	FRANCE. ML 2.9 (LDG).
	05	04 54 08.3*	24.221 N	122.159 E	33 N	3.6	1.3	10	TAIWAN REGION
	05	05 12 48.7*	39.356 N	27.938 E	10 G		0.5	6	TURKEY
	05	05 36 11.6?	37.78 N	25.44 W	10 G		1.1	4	AZORES ISLANDS. Felt (IV) at Coldeiro Rio Grande; (III) at Porto Formoso, Aguao d'Alto and Ponta Garco.
	05	06 24 15.2*	0.759 S	99.756 E	108 *	3.9	1.3	13	SOUTHERN SUMATERA
	05	07 17 42.2*	12.024 S	166.652 E	86 *	4.9	1.0	16	SANTA CRUZ ISLANDS
	05	09 57 22.8	10.620 S	165.574 E	144 *	4.5	1.0	27	SANTA CRUZ ISLANDS
	05	10 14 29.4?	7.06 S	155.43 E	33 N	3.8	0.8	4	SOLOMON ISLANDS. Felt (II) at Arowa, Bougainville.
	05	10 43 02.1	7.698 S	127.420 E	188	4.8	1.3	42	BANDA SEA
f	05	12 11 55.7	52.448 N	169.381 W	33 N	6.1 6.7	1.1	361	FOX ISLANDS, ALEUTIAN ISLANDS. Ms 6.5 (BRK), 6.3 (PAS). Complex rupture. Felt (V) at Unolasko and (III) at Folsø Poss. Also felt strongly at Nikolski.
	05	12 31 11.1	19.829 S	69.742 W	33 N		0.8	7	NORTHERN CHILE
	05	13 29 14.6%	33.591 S	70.742 W	33 N		1.3	5	CHILE-ARGENTINA BORDER REGION. Felt (II) at Santiago, Chile.
	05	13 29 30.8*	3.980 N	96.504 E	77 ?	4.4	1.2	16	NORTHERN SUMATERA
	05	14 05 22.1	19.994 S	133.713 E	10 G	4.4	1.5	16	NORTHERN TERRITORY, AUSTRALIA. Felt at Tennont Creek and Three Woys.
	05	14 09 43.6	19.924 S	133.763 E	10 G	3.5	1.1	10	NORTHERN TERRITORY, AUSTRALIA
	05	14 12 43.0%	37.819 N	25.386 W	5 G		0.9	6	AZORES ISLANDS. Felt (IV) at Porto Formoso; (III) at Ponta Garco and Furnas.
	05	15 25 33.8?	5.84 N	93.20 W	10 G	4.2	1.2	13	EAST CENTRAL PACIFIC OCEAN
	05	18 17 41.1&	58.939 N	151.922 W	63			29	KODIAK ISLAND REGION. <AGS-P>.
	05	18 32 43.4	40.832 N	28.248 E	10 G		0.8	15	TURKEY
	05	18 47 10.0*	52.652 N	169.368 W	33 N	4.7	0.9	19	FOX ISLANDS, ALEUTIAN ISLANDS
o	05	20 51 47.6	14.931 S	167.208 E	132	5.5	0.8	134	VANUATU ISLANDS
	05	21 07 30.0?	28.69 S	177.45 W	113 *	4.6	1.5	10	KERMADEC ISLANDS REGION
	05	21 15 25.1*	52.393 N	169.006 W	33 N	4.6	1.2	22	FOX ISLANDS, ALEUTIAN ISLANDS
	05	22 34 55.0*	0.420 N	98.936 E	102 *	3.1	1.3	10	NORTHERN SUMATERA
	05	22 52 31.7	0.206 N	126.225 E	42 *	5.2 5.0	1.2	56	MOLUCCA PASSAGE
o	05	22 52 46.5	41.964 N	81.319 E	17 G	5.9 5.8	1.0	338	SOUTHERN XINJIANG, CHINA. Several people injured and damage in the Baicheng area. Felt in the Aksu-Kuqa-Wushi area. Depth from broadband displacement seismograms.
	06	00 05 15.2*	22.937 N	118.196 E	33 N		1.3	8	TAIWAN REGION
	06	01 16 42.4?	52.05 N	174.89 W	33 N		1.4	9	ANDREANOF ISLANDS, ALEUTIAN IS. ML 3.9 (PMR).
	06	02 12 37.8*	67.858 N	161.698 W	10 G		1.4	13	ALASKA. ML 4.0 (PMR).
o	06	05 07 48.1	23.976 N	121.729 E	38	5.8 5.5	1.0	304	TAIWAN. Felt (IV JMA) at Hua-lien; (III JMA) at Taipei, I-lan and Su-aa; (II JMA) at Tai-chung and Tai-tung. Felt (I JMA) at Ishigaki-shima, Ryukyu Islands.
	06	06 25 49.1	9.788 S	149.185 E	10 G	4.9	1.1	21	EAST PAPUA NEW GUINEA REGION
	06	06 55 33.0	36.251 N	28.039 E	33 N	4.2	1.4	17	DODECANESE ISLANDS. ML 4.1 (ATH).
	06	07 43 59.9*	22.306 S	67.534 W	200 ?		1.4	10	CHILE-BOLIVIA BORDER REGION
	06	07 54 09.4	36.219 N	28.169 E	33 N	4.3	1.2	26	DODECANESE ISLANDS. ML 4.2 (ATH).
	06	08 00 49.3&	34.815 N	97.576 W	5 G			5	OKLAHOMA. <TUL>. MD 1.9 (TUL).
	06	10 32 29.0%	46.311 N	8.115 E	10 G		0.6	6	SWITZERLAND
	06	10 45 54.1	21.536 N	106.195 E	10 G		1.1	15	SOUTHEAST ASIA. ML 4.9 (KMI).
	06	10 57 29.6	6.126 S	130.599 E	153 *	5.1	1.1	36	BANDA SEA
	06	11 55 27.4*	21.976 S	68.801 W	109 *	4.3	1.4	10	CHILE-BOLIVIA BORDER REGION

06	12 05 29.9*	18.714 S	70.150 W	33 N			0.3	7	NEAR COAST OF NORTHERN CHILE
06	12 57 41.1*	6.521 S	129.972 E	166 *	4.9		1.4	13	BANDA SEA
06	15 08 19.1*	8.430 N	83.159 W	10 G			0.7	8	COSTA RICA. MD 4.2 (HDC).
06	15 08 27.5*	13.271 N	145.076 E	86	4.7		0.5	14	MARIANA ISLANDS. Felt (III) on Guam.
06	17 38 43.5*	22.529 S	66.931 W	197	4.3		1.2	16	JUJU PROVINCE, ARGENTINA
06	18 16 05.5?	1.73 N	126.56 E	90 ?	4.1		1.4	6	MOLUCCA PASSAGE
06	20 14 18.2	53.932 S	1.950 W	10 G	5.2		0.8	23	BOUVET ISLAND REGION
06	20 29 34.5*	36.033 N	28.589 E	56 *			0.7	12	DODECANESE ISLANDS
06	20 41 17.9*	18.190 N	122.383 E	10 G	4.8		1.0	12	LUZON, PHILIPPINE ISLANDS
06	21 40 34.3?	32.17 S	71.63 W	33 N			0.3	8	NEAR COAST OF CENTRAL CHILE
06	23 18 57.9*	40.553 N	29.867 E	10 G			1.0	7	TURKEY
06	23 46 16.8*	24.011 N	121.783 E	41 *	4.1		1.5	21	TAIWAN. Felt on eastern Taiwan.
07	00 24 15.7*	43.042 S	82.785 W	10 G	4.9		0.7	15	WEST CHILE RISE
07	00 39 27.5	40.445 N	20.584 E	14	5.0 3.6	1.3	1.3	122	GREECE-ALBANIA BORDER REGION. ML 4.9 (ATH), 4.7 (TTG). Damage (VI) in the Erseke-Gostivisht area, Albania. Felt (IV) in the Bitola-Ohrid area, Yugoslavia. Felt in the Ipiros-Thessalia region of northern Greece.
07	00 44 52.9*	40.487 N	20.735 E	10 G			1.3	10	GREECE-ALBANIA BORDER REGION. ML 4.1 (ATH).
07	00 47 12.5*	40.597 N	20.664 E	13	3.5		1.3	15	GREECE-ALBANIA BORDER REGION. ML 4.1 (ATH).
07	00 53 49.4*	40.473 N	20.887 E	10 G			0.6	5	GREECE-ALBANIA BORDER REGION
07	01 06 28.9*	2.486 S	138.575 E	33 N	4.9		1.3	13	WEST IRIAN
07	02 01 35.6&	59.879 N	153.197 W	116				17	SOUTHERN ALASKA. <AGS-P>.
07	02 23 48.5	52.275 N	169.319 W	33 N	4.9 4.3	1.0	93	FOX ISLANDS, ALEUTIAN ISLANDS. ML 5.1 (PMR).	
07	05 30 51.8	5.291 S	152.309 E	58	5.0		0.8	28	NEW BRITAIN REGION
07	06 12 31.9?	33.45 S	176.54 W	33 N			1.5	5	SOUTH OF KERMADEC ISLANDS
07	06 40 44.5?	37.35 N	25.16 W	10 G			0.2	5	AZORES ISLANDS
07	07 12 46.2&	60.042 N	153.485 W	135				18	SOUTHERN ALASKA. <AGS-P>.
07	07 14 48.8?	53.39 N	170.04 W	33 N	3.7		1.6	5	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.2 (PMR).
07	07 47 48.2*	0.512 S	135.013 E	33 N	4.4		1.0	12	WEST IRIAN REGION
07	08 28 49.6	37.997 N	73.076 E	136	4.8		1.5	32	TAJIK SSR
07	11 36 50.8*	32.763 S	71.445 W	33 N			0.8	9	NEAR COAST OF CENTRAL CHILE. Felt (II) at Santiago.
07	12 13 37.7&	38.790 N	122.782 W	2				20	NORTHERN CALIFORNIA. <BRK>. ML 4.0 (BRK). Mo=9.9*10**14 Nm (BRK). Felt at St. Helena.
07	13 58 18.3*	19.568 S	176.210 W	33 N	4.8		1.4	15	FIJI ISLANDS REGION
07	14 19 20.4	18.010 S	178.480 W	574	4.7		0.9	67	FIJI ISLANDS REGION
07	14 42 22.9	47.301 N	7.653 E	10 G			1.0	15	SWITZERLAND. ML 2.9 (LDG).
07	14 57 39.6%	60.401 N	5.843 E	0 G			0.3	6	SOUTHERN NORWAY. MD 2.1 (BER). Probable explosion.
07	15 23 14.2*	21.082 S	168.512 E	18 *	4.9 4.3	1.2		50	LOYALTY ISLANDS
07	16 23 32.4&	19.349 N	155.267 W	33				43	HAWAII. <HVO-P>. ML 4.0 (HVO). Felt (IV) at Hawaii Volcanoes National Park, Hilo, Mountainview, Popoikou, Pahalo and Volcano. Felt (III) at Ahualoo, Honokaa and Kalapana.
07	17 02 23.8*	31.909 S	69.056 W	33 N			1.4	9	SAN JUAN PROVINCE, ARGENTINA
07	17 11 49.1*	25.285 N	123.989 E	33 N			1.4	13	NORTHEAST OF TAIWAN
07	17 16 25.3	4.762 N	76.210 W	107	4.6		1.0	44	COLOMBIA. Felt at Manizales and in west central Colombia.
o 07	18 19 08.8	34.259 N	103.405 E	33 N	5.5 5.5	1.0	189	GANSU PROVINCE, CHINA. Felt strongly in southern Gansu Province. Also felt in the Nanping area, Sichuan Province.	
07	20 01 52.2	19.973 S	133.898 E	10 G	5.2		1.2	56	NORTHERN TERRITORY, AUSTRALIA
07	20 30 37.7	36.199 N	28.106 E	45 *	4.2		1.4	37	DODECANESE ISLANDS
07	20 40 50.0	15.918 S	167.762 E	152 *	5.1		1.0	49	VANUATU ISLANDS
07	22 27 35.1?	19.99 S	176.65 W	297 *	4.6		1.1	16	FIJI ISLANDS REGION
07	23 47 09.1?	39.00 N	23.86 E	10 G			0.8	6	AEGEAN SEA
o 08	00 50 59.7	22.572 S	171.999 E	50 *	5.4 4.7	1.1	40	LOYALTY ISLANDS REGION	
08	01 18 04.9*	7.269 S	105.960 E	33 N	4.9		1.0	27	JAVA
08	01 32 03.5?	47.35 N	7.64 E	10 G			0.4	5	SWITZERLAND
08	01 40 30.7*	32.647 S	71.535 W	10 G			1.0	12	NEAR COAST OF CENTRAL CHILE
08	01 59 18.4	43.715 N	16.841 E	33 N	4.8		1.2	64	YUGOSLAVIA. ML 4.4 (KBA). MD 4.0 (TTG), 4.1 (TRI).
08	02 14 28.3?	47.37 N	7.60 E	9 G			0.4	6	SWITZERLAND. ML 2.6 (LDG).
08	02 38 03.1	19.952 S	133.693 E	10 G	4.5		1.2	19	NORTHERN TERRITORY, AUSTRALIA
08	03 36 16.0	15.045 S	167.244 E	132 *	5.2		1.2	50	VANUATU ISLANDS
08	04 29 05.8?	47.19 N	7.76 E	10 G			0.9	7	SWITZERLAND. ML 2.6 (LDG).
08	04 43 20.4*	39.452 N	28.230 E	10 G			0.9	13	TURKEY
08	05 05 58.3	40.576 N	20.997 E	10 G			1.0	9	GREECE-ALBANIA BORDER REGION
08	05 14 34.1*	40.446 N	20.826 E	10 G			1.2	5	GREECE-ALBANIA BORDER REGION
08	05 57 52.9%	46.189 N	8.223 E	10 G			0.6	5	SWITZERLAND
08	06 50 08.4	21.052 S	178.875 W	603	4.5		0.8	33	FIJI ISLANDS REGION
08	07 21 45.7*	14.838 N	145.858 E	33 N	4.6		0.4	14	MARIANA ISLANDS
08	08 52 03.9?	3.52 S	78.21 W	33 N	4.6		1.0	9	PERU-ECUADOR BORDER REGION
08	11 18 38.8?	16.00 N	60.56 W	33 N			0.4	5	LEEWARD ISLANDS. ML 3.3 (FDF).
08	11 20 04.6	26.173 N	124.441 E	237	4.9		0.8	31	NORTHEAST OF TAIWAN
08	11 43 10.3?	19.39 N	145.65 E	127 ?	4.3		0.8	10	MARIANA ISLANDS
08	12 08 55.2*	40.428 N	20.732 E	10 G			0.9	5	GREECE-ALBANIA BORDER REGION
08	12 50 58.5%	39.464 N	28.262 E	10 G			1.0	5	TURKEY
08	13 27 31.1&	38.093 N	122.167 W	7				12	NORTHERN CALIFORNIA. <BRK>. ML 2.4 (BRK). Mo=1.8*10**13 Nm (BRK). Felt at Vallejo.
08	13 39 13.1*	25.203 S	69.404 W	188 ?			0.8	7	NORTHERN CHILE
08	15 48 20.5*	32.610 S	71.742 W	10 G			0.5	10	NEAR COAST OF CENTRAL CHILE
08	16 30 31.3&	61.816 N	151.873 W	101				17	SOUTHERN ALASKA. <AGS-P>.
08	16 55 36.1*	39.378 N	25.443 E	10 G			1.3	10	AEGEAN SEA. ML 3.6 (ATH).
08	17 37 17.3?	20.48 S	177.81 W	626 ?	4.9		0.9	15	FIJI ISLANDS REGION
08	18 00 20.1	42.236 N	19.161 E	18	3.5		1.1	37	YUGOSLAVIA. ML 3.8 (TTG). Felt (IV) in the Montenegro coastal area and (III) at Titograd.
08	18 09 43.9	18.991 N	147.111 E	33 N	4.9		1.0	27	MARIANA ISLANDS REGION
08	18 49 03.4	3.592 S	144.278 E	16 *	4.9 4.8	1.2	25	NEAR N COAST OF PAPUA NEW GUINEA	
08	19 08 54.8	19.933 S	133.715 E	10 G			0.5	7	NORTHERN TERRITORY, AUSTRALIA
08	19 16 00.0	47.363 N	7.520 E	10 G			0.4	8	SWITZERLAND. ML 2.6 (LDG).
08	19 17 17.7	47.368 N	7.675 E	10 G			0.6	9	SWITZERLAND. ML 2.8 (LDG).
08	19 24 20.7	47.286 N	7.593 E	10 G			1.1	21	SWITZERLAND. ML 3.0 (LDG).
08	19 41 53.6	8.536 S	117.843 E	73 *	4.7		0.9	17	SUMBAWA ISLAND REGION
08	19 46 34.8*	4.706 S	153.114 E	33 N			1.2	9	NEW IRELAND REGION
o 08	19 48 55.4	4.736 S	153.105 E	44	5.5 4.8	0.9	132	NEW IRELAND REGION	

08	20	17	43.8%	42.819	N	18.473	E	10	G	1.3	5	YUGOSLAVIA. ML 2.2 (TTG).	
08	20	47	08.0%	4.681	S	153.112	E	33	N	4.4	11	NEW IRELAND REGION	
08	22	31	12.6%	39.436	N	28.245	E	10	G	0.8	7	TURKEY	
08	23	05	30.9%	36.574	N	140.528	E	71	4.8	1.3	22	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Mito and (I JMA) at Onahama and Utsunomiya.	
08	23	10	12.7	35.403	N	3.618	W	16	4.3	1.1	51	STRAIT OF GIBRALTAR	
08	23	50	18.3%	28.62	S	176.47	W	33	N	4.3	1.1	8	KERMADEC ISLANDS REGION
09	00	18	29.7%	15.323	N	60.964	W	33	N	1.1	8	LEEWARD ISLANDS. ML 2.7 (FDF).	
09	00	30	26.4%	24.96	N	123.52	E	33	N	4.8	1.2	9	SOUTHWESTERN RYUKYU ISLANDS
09	01	00	40.5	28.609	N	95.246	E	33	N	4.6	1.3	39	INDIA-CHINA BORDER REGION
09	01	02	49.3	19.887	S	133.684	E	10	G	4.1	1.0	15	NORTHERN TERRITORY, AUSTRALIA
09	02	46	21.6%	17.895	S	178.554	W	582	D	5.1	1.0	43	FIJI ISLANDS REGION
09	03	45	14.8%	29.069	S	70.440	W	33	N	1.3	7	CENTRAL CHILE	
09	03	57	49.7%	22.910	S	63.813	W	549	* 4.4	0.4	14	SALTA PROVINCE, ARGENTINA	
f 09	06	14	44.8	39.895	N	141.677	E	68	G	6.4	1.0	485	HONSHU, JAPAN. mb 6.8 (PAS), 6.6 (BRK). Minor damage (V JMA) in the Morioka-Ofunato area. Felt (IV JMA) at Hachinohe, Ishinomaki, Miyako, Sakata and Sendai; (III JMA) in the Tokyo-Yokohama area and as far north as Kushiro, Hokkaido. Two events about 3 sec. apart. Depth from broadband displacement seismograms, based on the first event.
09	06	30	05.6%	39.837	N	141.747	E	83	4.8	0.8	16	HONSHU, JAPAN. Felt (II JMA) at Miyako and Ofunato; (I JMA) at Hachinohe and Morioka.	
a 09	08	01	35.9	19.469	S	176.538	W	33	N	5.9 6.6	1.1	171	FIJI ISLANDS REGION. Ms 6.8 (BRK), 6.7 (PAS).
09	08	15	06.5%	19.560	S	176.559	W	33	N	4.8	1.4	32	FIJI ISLANDS REGION
09	08	47	45.0	20.458	S	168.990	E	33	N	4.8	1.2	30	LOYALTY ISLANDS
09	09	18	31.9	20.360	S	169.037	E	38	* 4.8	1.2	51	VANUATU ISLANDS	
09	09	55	22.5	20.391	S	168.877	E	33	* 5.3 5.4	1.3	67	LOYALTY ISLANDS	
09	10	01	26.2%	20.463	S	168.544	E	33	* 4.4	1.2	29	LOYALTY ISLANDS	
09	10	05	02.8%	47.50	N	7.43	E	10	G	0.5	5	SWITZERLAND	
a 09	11	27	12.6	20.110	S	133.636	E	5	G	5.2	1.1	75	NORTHERN TERRITORY, AUSTRALIA
09	12	02	23.3%	20.691	S	168.917	E	24	4.6	1.1	13	LOYALTY ISLANDS	
09	12	52	59.7%	27.91	N	112.03	W	10	G	1.4	8	BAJA CALIFORNIA	
09	13	31	42.4%	17.972	S	167.652	E	33	N	4.2	1.3	7	VANUATU ISLANDS
09	13	35	23.5%	59.929	N	152.765	W	84			26	SOUTHERN ALASKA. <AGS-P>.	
09	13	51	03.8	62.121	N	124.321	W	10	G	4.1	1.1	12	NORTHWEST TERRITORIES, CANADA
09	15	32	54.2%	2.609	N	128.641	E	33	N	4.4	1.1	11	HALMAHERA
09	17	35	47.5%	39.859	N	25.504	E	10	G	0.9	9	AEGEAN SEA	
09	17	40	34.9	39.821	N	141.641	E	85	5.0	0.9	124	HONSHU, JAPAN. Felt (IV JMA) at Morioka; (II JMA) at Hachinohe, Miyako and Ofunato.	
09	17	51	45.1%	48.000	N	6.696	E	10	G	1.0	10	FRANCE. ML 2.7 (LDG).	
09	19	01	56.8	20.408	S	168.818	E	43	* 5.1	1.3	51	LOYALTY ISLANDS	
09	19	24	06.1%	63.173	N	150.405	W	65			30	CENTRAL ALASKA. <AGS-P>.	
09	22	05	19.7%	29.964	N	51.859	E	10	G	4.1 4.0	1.1	10	SOUTHERN IRAN
09	23	36	11.9%	39.466	N	25.482	E	10	G	1.3	7	AEGEAN SEA. ML 3.4 (ATH).	
09	23	45	51.5%	17.02	N	61.60	W	10	G	0.5	5	LEEWARD ISLANDS. ML 2.7 (FDF).	
10	00	46	35.6	52.555	N	179.140	W	235	D	4.7	0.8	68	ANDREANOF ISLANDS, ALEUTIAN IS.
10	00	51	05.9%	48.27	N	5.19	W	10	G	0.9	21	NORTH ATLANTIC OCEAN. ML 3.8 (LDG).	
10	02	53	15.7%	19.498	S	176.409	W	33	N	5.2 4.7	1.3	20	FIJI ISLANDS REGION
10	03	21	50.0%	34.552	N	97.425	W	5	G		5	OKLAHOMA. <TUL>. mLg 2.3 (TUL).	
10	03	34	01.3%	34.558	N	80.333	E	33	N	4.6 4.0	1.3	15	TIBET
10	03	53	29.3%	20.655	S	168.736	E	33	N	4.1 4.3	1.4	15	LOYALTY ISLANDS
10	03	55	49.7	5.765	S	110.881	E	558	4.9	1.0	41	JAVA SEA	
10	04	32	17.6	51.411	N	15.881	E	10	G	0.6	12	POLAND. ML 3.6 (VKA), 3.5 (KBA).	
10	04	47	06.5	9.155	N	126.532	E	58	* 5.3 4.5	1.2	107	MINDANAO, PHILIPPINE ISLANDS	
10	05	08	59.2%	15.654	N	61.211	W	101	?	0.3	10	LEEWARD ISLANDS	
10	05	40	09.3%	39.828	N	141.801	E	82	4.7	0.5	10	HONSHU, JAPAN. Felt (III JMA) at Miyako, (II JMA) at Morioka and Ofunato and (I JMA) at Hachinohe.	
10	05	40	41.2%	73.05	N	5.09	E	10	G	4.3	0.5	5	GREENLAND SEA
10	09	59	50.4%	20.671	S	178.373	W	525	4.6	0.8	46	FIJI ISLANDS REGION	
10	10	10	36.4	39.522	N	67.984	E	33	N	4.7	1.4	22	SOUTHEASTERN UZBEK SSR. Felt (III) at Pendzhikent, Samarkand and Leninabad; (II) at Tashkent.
10	10	18	47.3%	52.52	N	169.62	W	33	N	4.5	0.5	8	FOX ISLANDS, ALEUTIAN ISLANDS
10	10	24	56.5%	59.641	N	145.522	W	27	4.1		45	GULF OF ALASKA. <AGS-P>. ML 3.6 (PMR).	
10	10	42	44.0%	51.10	N	20.12	E	10	G		1.2	6	POLAND. ML 2.9 (KRA).
10	11	23	37.3%	62.481	N	151.526	W	78			32	CENTRAL ALASKA. <AGS-P>.	
10	13	06	56.3	26.320	N	60.878	E	33	N	4.6	0.8	26	SOUTHERN IRAN
10	13	37	19.9%	59.580	N	152.876	W	72			24	SOUTHERN ALASKA. <AGS-P>.	
10	15	03	55.4	34.659	N	33.282	E	37	4.3	1.1	25	CYPRUS. Felt in the Limassol area.	
10	15	25	16.1%	51.483	N	176.659	E	33	N	4.6	1.2	26	RAT ISLANDS, ALEUTIAN ISLANDS
10	16	56	39.3	37.799	N	21.237	E	26	4.2	1.5	29	SOUTHERN GREECE. ML 3.9 (ATH).	
10	17	23	25.0%	7.193	S	146.157	E	173	4.5	1.3	26	EAST PAPUA NEW GUINEA REGION	
10	17	27	32.7%	58.764	N	152.845	W	78			19	KODIAK ISLAND REGION. <AGS-P>.	
10	18	03	21.2%	32.320	N	115.660	W	6	G		4	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.0 (PAS).	
10	18	05	23.5%	63.008	N	150.823	W	152			23	CENTRAL ALASKA. <AGS-P>.	
10	18	33	31.4%	24.48	N	121.36	E	57	*	1.2	8	TAIWAN	
10	18	54	27.3%	19.274	S	67.367	W	238	*	1.0	11	SOUTHERN BOLIVIA	
10	20	10	09.7%	60.939	N	151.009	W	61			35	KENAI PENINSULA, ALASKA. <AGS-P>.	
10	20	44	05.0%	37.835	N	20.840	E	10	G	4.3	1.2	5	IONIAN SEA. ML 3.5 (ATH).
10	21	32	40.8%	15.924	N	61.231	W	33	N		1.4	5	LEEWARD ISLANDS. ML 2.3 (FDF).
10	21	51	17.6%	17.589	S	178.760	W	551	5.2	1.0	42	FIJI ISLANDS REGION	
10	22	02	25.5	51.567	N	178.695	W	33	N	4.9	0.9	53	ANDREANOF ISLANDS, ALEUTIAN IS.
10	23	01	12.8	62.505	N	124.538	W	10	G		1.2	13	NORTHWEST TERRITORIES, CANADA
11	02	51	24.8%	19.26	S	174.35	W	117	?	4.5	1.3	11	TONGA ISLANDS
11	05	26	32.1%	9.033	N	126.686	E	33	N		1.2	8	MINDANAO, PHILIPPINE ISLANDS
11	06	42	57.8	57.357	N	33.049	W	10	G	4.6	0.8	31	NORTH ATLANTIC OCEAN
11	07	30	11.1	18.815	S	174.069	W	104	* 5.1	1.1	95	TONGA ISLANDS	
11	08	32	32.9%	24.39	S	70.28	W	33	N		1.5	6	NEAR COAST OF NORTHERN CHILE. Felt (III) at Antofagasta.
11	09	53	37.5%	1.927	S	151.868	E	37	* 4.1	0.8	11	NEW IRELAND REGION	
11	10	28	53.5%	62.325	N	124.259	W	10	G		0.9	6	NORTHWEST TERRITORIES, CANADA
11	10	39	10.1%	3.137	S	12.231	W	10	G	4.9	1.4	12	NORTH OF ASCENSION ISLAND
11	11	03	55.4	9.153	N	126.650	E	52	* 4.9	1.3	55	MINDANAO, PHILIPPINE ISLANDS	

11	12 12 27.2*	24.006 N	122.363 E	33 N	4.0	1.4	14	TAIWAN REGION
11	12 31 26.0	29.969 N	51.788 E	10 *	4.9 4.1	1.5	53	SOUTHERN IRAN. Three hundred houses damaged in the Doshmon Ziari area.
11	13 27 35.9&	60.499 N	153.196 W	153			28	SOUTHERN ALASKA. <AGS-P>.
11	14 42 26.2%	42.284 N	19.352 E	10 G		0.5	7	YUGOSLAVIA. MD 2.3 (TTG).
11	20 34 29.8*	9.467 S	113.556 E	84 *		0.1	6	SOUTH OF JAVA
11	22 02 31.8	42.304 N	19.975 E	10 G		1.3	13	YUGOSLAVIA. MD 3.2 (TTG).
11	23 04 37.3	31.012 N	49.937 E	33 N	4.3	0.5	8	WESTERN IRAN
12	01 26 35.2%	40.226 N	28.962 E	10 G		0.5	7	TURKEY
12	02 09 20.1&	61.025 N	150.319 W	63			35	SOUTHERN ALASKA. <AGS-P>.
12	02 25 19.5%	42.289 N	19.888 E	10 G		0.6	9	YUGOSLAVIA. MD 2.6 (TTG).
12	03 05 12.9	42.706 N	111.072 W	5 G		0.4	9	EASTERN IDAHO. ML 3.7 (NEIS). Felt (III) at Freedom, Grover and Smoot, Wyoming. Felt (III) at Geneva, Idaho. Also felt at Auburn and Afton, Wyoming.
12	03 37 59.3	47.309 N	7.600 E	10 G		0.8	13	SWITZERLAND. ML 2.8 (LDG).
12	05 09 45.7&	59.777 N	153.504 W	124			28	SOUTHERN ALASKA. <AGS-P>.
12	09 23 42.7	7.364 N	34.944 W	10 G	4.7 4.4	0.9	30	CENTRAL MID-ATLANTIC RIDGE
12	10 11 26.5*	41.474 N	29.478 W	10 G	4.6 4.6	1.2	44	AZORES ISLANDS REGION
12	10 23 52.8*	17.955 S	178.552 W	603 *	4.6	0.8	23	FIJI ISLANDS REGION
12	10 56 14.6?	2.52 N	98.71 W	10 G	4.9 3.9	0.7	8	WEST OF GALAPAGOS ISLANDS
12	11 16 43.9	28.622 N	52.148 E	38 *	4.2	1.3	17	SOUTHERN IRAN
12	11 40 02.8	44.277 N	10.621 E	32		0.9	33	NORTHERN ITALY. ML 3.8 (LDG), 3.7 (KBA). MD 3.5 (TRI).
12	12 07 47.0&	62.256 N	151.113 W	112			27	CENTRAL ALASKA. <AGS-P>.
12	12 17 29.0&	49.540 N	119.710 W	10			14	BRITISH COLUMBIA. <PGC-P>. ML 3.5 (PGC). Felt in the Osoyoos-Kelowna-Vernon area.
12	12 18 36.9&	60.393 N	151.108 W	55			44	KENAI PENINSULA, ALASKA. <AGS-P>.
12	12 23 14.7	51.580 N	175.820 W	33 N	5.0	1.2	72	ANDREANOF ISLANDS, ALEUTIAN IS. Felt (III) on Adak.
12	17 04 43.7	1.641 S	120.274 E	33 N	4.7	1.3	39	SULAWESI
12	18 54 35.4	31.269 N	133.573 E	10	5.0 4.5	1.0	71	SOUTHEAST OF SHIKOKU, JAPAN
12	19 04 30.0*	51.378 N	175.413 W	33 N	4.7	0.9	20	ANDREANOF ISLANDS, ALEUTIAN IS.
12	23 16 29.2*	31.451 N	131.874 E	28 *	4.4	1.0	16	KYUSHU, JAPAN
13	00 03 55.8&	62.113 N	150.974 W	81			14	CENTRAL ALASKA. <AGS-P>.
13	00 36 04.6*	17.878 N	61.496 W	33 N	4.4	0.7	10	LEEWARD ISLANDS. ML 4.1 (FDF).
13	01 15 09.0&	37.326 N	115.033 W	8			29	SOUTHERN NEVADA. <GLD>. CL 3.6 (REN).
13	04 37 20.5?	20.16 S	172.59 W	33 N	4.8	1.1	19	TONGA ISLANDS REGION
13	04 43 28.9*	23.556 S	68.696 W	115 *	4.4	1.3	10	NORTHERN CHILE
13	06 22 19.9	59.591 S	26.024 W	33 N	5.4	1.1	58	SOUTH SANDWICH ISLANDS REGION
13	06 47 49.7	5.196 S	11.516 W	10 G	5.2 4.7	0.8	76	ASCENSION ISLAND REGION
a 13	08 03 00.5	13.463 S	166.477 E	53 *	5.4 5.1	1.1	108	VANUATU ISLANDS
13	09 27 02.8*	44.383 N	9.832 E	10		1.4	20	NORTHERN ITALY. ML 3.0 (LDG).
13	10 24 13.1	63.335 N	151.099 W	28		0.5	9	CENTRAL ALASKA. ML 3.4 (PMR).
13	10 53 55.8?	17.41 N	61.04 W	10 G		0.7	5	LEEWARD ISLANDS. ML 3.1 (FDF).
a 13	10 55 17.9	29.292 S	177.524 W	60 D	5.3	1.2	90	KERMADEC ISLANDS
13	12 17 02.3*	40.055 N	24.795 E	10 G		1.3	7	AEGEAN SEA
a 13	13 23 59.5	5.784 N	78.966 W	10 G	5.5 5.2	1.3	178	SOUTH OF PANAMA. Ms 5.3 (PAS). Felt (II) at Panamo City. Also felt at La Palma.
13	15 17 59.3	5.228 S	11.428 W	10 G	5.0	0.9	43	ASCENSION ISLAND REGION
13	15 39 21.5%	39.678 N	27.702 E	10 G		1.3	5	TURKEY
13	15 57 07.6?	5.28 S	12.11 W	10 G	4.7	1.0	6	ASCENSION ISLAND REGION
13	16 44 01.7	5.056 S	11.509 W	10 G	4.9	0.9	50	ASCENSION ISLAND REGION
13	17 53 13.4*	10.368 S	120.287 E	33 N	3.6	0.6	7	SUMBA ISLAND REGION
13	18 36 49.7	47.347 N	7.653 E	10 G	3.5	1.5	18	SWITZERLAND. ML 2.6 (LDG).
13	18 46 58.8?	51.06 N	179.52 W	33 N	4.4	0.9	16	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.2 (PMR).
13	19 03 05.1?	33.34 S	72.42 W	33 N		0.5	7	OFF COAST OF CENTRAL CHILE
a 13	19 30 10.8	5.713 N	78.734 W	10 G	5.3 4.7	1.4	68	SOUTH OF PANAMA. Felt (II) at Panamo City.
13	19 56 26.6	35.736 N	140.045 E	80	4.7	1.0	26	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Tokyo and Yokohama.
13	20 22 09.9*	15.359 S	175.009 W	288 *	4.9	1.2	95	TONGA ISLANDS
13	20 57 33.9*	5.320 S	11.241 W	10 G	5.1	1.1	34	ASCENSION ISLAND REGION
13	21 53 19.1*	54.810 N	161.845 E	33 N	5.0	1.1	19	NEAR EAST COAST OF KAMCHATKA
13	22 49 01.6?	53.21 N	167.00 W	33 N	4.6	0.9	16	FOX ISLANDS, ALEUTIAN ISLANDS
13	23 04 43.7	54.723 N	162.104 E	33 N	5.2 4.6	0.9	153	NEAR EAST COAST OF KAMCHATKA
13	23 08 17.8&	61.387 N	149.535 W	42			46	SOUTHERN ALASKA. <AGS-P>. ML 3.5 (PMR).
14	00 22 22.4	44.597 N	114.864 W	5 G		0.4	11	WESTERN IDAHO. ML 3.1 (NEIS).
14	00 33 44.8?	56.80 S	141.23 W	10 G	4.8 5.0	1.2	10	SOUTH PACIFIC CORDILLERA
14	02 06 07.7	44.424 N	7.096 E	10 G		0.6	11	NORTHERN ITALY. ML 2.7 (LDG).
14	02 24 20.8*	52.182 N	169.862 W	33 N	4.0	1.1	10	FOX ISLANDS, ALEUTIAN ISLANDS
14	02 59 11.9	31.485 S	68.618 W	115 *		1.1	18	SAN JUAN PROVINCE, ARGENTINA
14	03 28 20.8*	54.746 N	162.090 E	33 N	5.0	1.1	23	NEAR EAST COAST OF KAMCHATKA
14	04 27 04.3*	6.481 N	76.620 W	33 N		0.7	5	NORTHERN COLOMBIA
14	05 27 02.3	47.529 N	7.714 E	9		1.0	12	SWITZERLAND. ML 2.6 (LDG).
14	05 27 21.1*	47.544 N	8.200 E	10 G		1.5	10	SWITZERLAND. ML 2.8 (LDG).
14	05 44 12.0*	5.145 S	11.970 W	10 G	4.9	1.0	14	ASCENSION ISLAND REGION
14	06 09 50.5*	11.999 N	87.252 W	33 N	4.6 3.6	1.2	26	NEAR COAST OF NICARAGUA
14	06 30 14.9	43.149 N	26.012 E	9		1.2	10	BULGARIA
14	06 44 55.0*	4.960 S	11.666 W	10 G	4.9	0.8	8	NORTH OF ASCENSION ISLAND
14	06 52 09.9	44.636 N	114.875 W	5 G		0.8	15	WESTERN IDAHO. ML 3.5 (NEIS). Felt (III) at Clayton.
14	07 28 50.8&	58.198 N	151.605 W	53			17	KODIAK ISLAND REGION. <AGS-P>.
o 14	09 38 54.9*	50.063 S	113.884 W	10 G	5.0 5.6	1.4	43	EASTER ISLAND CORDILLERA
14	10 11 03.1?	50.12 S	113.60 W	10 G	4.7	1.3	10	EASTER ISLAND CORDILLERA
f 14	11 03 48.7	42.565 N	142.850 E	102 G	6.5	1.1	521	HOKKAIDO, JAPAN REGION. mb 6.6 (BRK). Six people injured. Felt (V JMA) at Kushiro; (IV JMA) at Hiroo, Nemuro, Obihiro and Urukawa. Also felt (IV JMA) at Hokinohe and Marioka, Honshu. Felt (II JMA) at the Tokyo-Yokohama area, Honshu. Depth from broadband displacement seismograms.
14	12 05 24.3	33.362 S	68.959 W	25		0.3	12	MENDOZA PROVINCE, ARGENTINA. Felt at Mendoza.
14	12 44 50.8	32.624 S	67.252 W	158 D	5.5	1.0	137	MENDOZA PROVINCE, ARGENTINA. Felt (III) in the San Juan-Mendoza area.
14	13 07 39.9&	37.757 N	122.137 W	7			8	CENTRAL CALIFORNIA. <BRK>. ML 2.3 (BRK). Mo=1.3*10**13 Nm (BRK). Felt at Berkeley and Oakland.
14	14 41 13.3?	53.30 N	169.68 W	33 N	4.5	1.0	8	FOX ISLANDS, ALEUTIAN ISLANDS
14	15 37 40.2%	60.703 N	5.622 E	0 G		0.4	6	SOUTHERN NORWAY. MD 2.0 (BER). Probable explosion.

14	18 11 57.5*	17.217 N	120.442 E	33 N		1.2	6	LUZON, PHILIPPINE ISLANDS. Felt (II RF) at Santa.
14	19 07 54.5*	24.023 S	67.084 W	215 *		0.7	6	CHILE-ARGENTINA BORDER REGION
14	21 34 02.2*	50.123 N	19.279 E	10 G		0.9	6	POLAND. ML 3.6 (KBA).
14	23 38 40.8	45.141 N	26.266 E	19 *		1.0	8	ROMANIA
15	01 05 36.9*	17.736 N	107.075 W	10 G	4.2	0.8	27	OFF COAST OF JALISCO, MEXICO
15	02 05 55.6*	42.225 N	19.245 E	10 G		0.3	5	YUGOSLAVIA. MD 2.4 (TTG).
15	02 31 04.8?	42.30 N	19.84 E	10 G		1.7	5	YUGOSLAVIA. MD 2.5 (TTG).
15	02 53 12.6*	5.500 S	151.441 E	80 *	4.3	0.7	12	NEW BRITAIN REGION
15	03 11 38.8	43.631 N	20.753 E	10 G		1.2	19	YUGOSLAVIA. MD 3.0 (TTG). Felt (VI) in the Kapaanik area.
15	03 35 04.7&	36.370 N	121.860 W	6			18	CENTRAL CALIFORNIA. <BRK>. ML 3.0 (BRK). Felt (IV) at Carmel Valley. Felt (III) at Carmel and Marina.
15	03 36 12.3&	38.340 N	122.655 W	4			8	NORTHERN CALIFORNIA. <BRK>. ML 2.7 (BRK). Felt at Rohnert Park and Santa Rosa.
15	05 27 49.2?	5.76 S	148.88 E	153 *	4.8	0.6	11	NEW BRITAIN REGION
15	07 46 49.0&	34.020 N	116.770 W	10			7	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
15	08 05 09.7	17.575 N	95.142 W	139 ?	4.6	0.9	39	OAXACA, MEXICO
15	08 41 06.6%	60.136 N	4.717 E	0 G		0.4	7	SOUTHERN NORWAY. MD 2.1 (BER). Probable explosion.
15	09 07 22.4%	60.159 N	4.777 E	0 G		0.5	7	SOUTHERN NORWAY. MD 2.0 (BER). Probable explosion.
15	09 21 40.4	2.433 S	139.481 E	33 N	4.8 4.8	1.0	50	NEAR N. COAST OF WEST IRIAN
15	10 57 59.3	43.562 N	20.698 E	10 G		0.9	12	YUGOSLAVIA. ML 3.0 (TTG). Felt at Kraljevo.
15	11 11 15.5	55.692 S	26.227 W	50 D	5.5 4.3	1.0	35	SOUTH SANDWICH ISLANDS REGION
15	11 19 08.4	7.754 S	130.008 E	39 D	5.1 5.0	1.4	64	TANIMBAR ISLANDS REGION
15	11 19 34.6	34.678 N	33.905 E	34	5.0 3.7	1.0	106	CYPRUS. Minor damage in the Nicosia area. Felt in the Larnaca area. Also felt in southern Lebanon and northern Israel.
15	12 07 07.9?	40.24 N	25.53 E	10 G		1.6	5	AEGEAN SEA
15	12 24 44.5?	25.99 N	125.03 E	170 ?	4.4	1.0	9	SOUTHWESTERN RYUKYU ISLANDS
15	12 50 53.8&	60.152 N	152.983 W	108			26	SOUTHERN ALASKA. <AGS-P>.
15	13 30 39.1	38.782 N	122.739 W	10 G		0.8	12	NORTHERN CALIFORNIA. ML 2.7 (BRK).
15	14 21 15.2	47.600 N	2.882 W	12 G		0.8	19	FRANCE. ML 3.7 (LDG).
15	14 52 43.3&	38.337 N	122.643 W	2			11	NORTHERN CALIFORNIA. <BRK>. ML 2.7 (BRK). Felt at Rohnert Park and Santa Rosa.
15	16 17 40.1%	44.513 N	6.156 E	10 G		0.2	7	FRANCE. ML 2.9 (LDG).
15	16 33 37.2	5.894 S	151.340 E	60 *	4.8	1.2	17	NEW BRITAIN REGION
15	16 43 34.7	13.952 N	89.344 W	10 G		1.2	12	EL SALVADOR. MG 4.0 (GCG). Some buildings previously damaged from the October 10, 1986 earthquake collapsed.
15	19 41 42.1	22.913 N	120.197 E	18	4.9 4.3	1.3	70	TAIWAN. Felt (IV JMA) at Tai-nan, (III JMA) at Kaa-hsiung, (II JMA) at Chia-i and (I JMA) at Tai-tung.
15	20 48 58.1*	44.365 N	10.031 E	10 G		1.4	12	NORTHERN ITALY
15	22 37 46.4?	2.74 S	79.70 W	33 N	4.6	0.7	9	NEAR COAST OF ECUADOR
15	22 41 40.2?	53.35 N	167.08 W	33 N	4.6	1.1	17	FOX ISLANDS, ALEUTIAN ISLANDS
16	00 05 26.5*	51.230 N	176.069 W	33 N	4.6	1.0	21	ANDREANOF ISLANDS, ALEUTIAN IS.
16	00 27 46.9?	58.80 S	26.44 W	33 N	4.9	1.2	12	SOUTH SANDWICH ISLANDS REGION
16	01 13 18.2	43.411 N	11.863 E	21	3.7	1.1	49	CENTRAL ITALY. ML 3.9 (KBA), 3.7 (LDG). MD 3.7 (TRI). Felt at Arezzo.
16	01 33 45.9&	62.895 N	150.623 W	157			18	CENTRAL ALASKA. <AGS-P>.
16	01 35 43.3*	16.872 N	147.337 E	33 N	4.5	1.4	22	MARIANA ISLANDS REGION
16	02 43 32.0	29.985 N	138.226 E	78 *	4.7	0.6	25	SOUTH OF HONSHU, JAPAN
16	03 25 35.7	35.893 N	89.978 W	5 G		0.6	8	TENNESSEE. mbLg 3.0 (NEIS). Felt (III) at Blytheville and Dell, Arkansas.
a 16	05 12 48.5	42.791 N	145.103 E	54	5.1 5.1	1.0	171	HOKKAIDO, JAPAN REGION. Felt (III JMA) at Kushiro and Nemuro, (II JMA) at Obihiro and (I JMA) at Urakawa.
16	07 16 29.4?	11.86 N	86.53 W	148 ?	4.1	0.7	11	NEAR COAST OF NICARAGUA
16	08 48 58.4?	40.80 N	19.58 E	10 G		1.5	6	ALBANIA. ML 2.5 (TTG).
16	10 42 43.2	10.792 S	161.290 E	60 *	4.8 4.5	1.3	40	SOLOMON ISLANDS
16	12 04 27.0*	25.179 N	122.866 E	196 *	4.0	0.8	12	TAIWAN REGION
16	12 45 58.8	39.997 N	23.339 E	10 G		0.8	7	AEGEAN SEA
a 16	13 18 08.5*	22.223 S	173.628 W	33 N	5.1	1.3	41	TONGA ISLANDS REGION
16	13 26 30.4*	38.638 N	25.934 E	10 G		1.4	6	AEGEAN SEA. ML 3.4 (ATH).
16	13 30 35.2*	10.802 S	161.537 E	33 N	4.3	1.5	11	SOLOMON ISLANDS
16	13 51 26.0*	7.550 S	131.234 E	87 *	4.9	1.0	11	TANIMBAR ISLANDS REGION
16	14 00 10.5	41.203 N	19.527 E	10 G		1.1	20	ALBANIA. MD 3.1 (TTG).
16	14 13 50.4	17.939 S	178.458 W	597	4.9	1.0	60	FIJI ISLANDS REGION
16	14 42 08.1*	10.715 S	161.236 E	63 *	4.5 4.7	1.0	17	SOLOMON ISLANDS
a 16	15 14 59.3	52.904 S	27.444 E	10 G	5.5 4.9	1.2	106	SOUTH OF AFRICA
16	16 03 54.3%	42.338 N	18.937 E	10 G		0.4	6	YUGOSLAVIA. ML 2.1 (TTG).
16	16 29 59.3	30.000 S	68.626 W	114	4.4	0.9	47	SAN JUAN PROVINCE, ARGENTINA
16	19 40 03.3*	1.581 S	28.767 E	10 G	4.8	1.5	10	ZAIRE REPUBLIC
16	20 19 59.9&	40.392 N	123.993 W	5 G			22	NORTHERN CALIFORNIA. <BRK>. ML 3.7 (BRK). Felt (V) at Scotia, (IV) at Rio Dell and (III) at Redcrest. Also felt at Eureka.
16	21 36 57.9*	19.991 N	121.061 E	52 *	4.2	1.4	27	PHILIPPINE ISLANDS REGION
16	22 17 00.4*	21.355 S	69.045 W	101 ?		1.5	7	NORTHERN CHILE
16	23 56 12.6*	35.166 N	139.883 E	48 *		1.2	10	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Tokyo and (I JMA) at Chiba, Tateyama, Katsura and Yokohama.
17	00 27 55.5	39.955 N	24.256 E	25 *		0.9	8	AEGEAN SEA. ML 3.4 (ATH).
17	00 30 30.4	39.801 N	24.327 E	17	3.6	0.9	26	AEGEAN SEA. ML 4.0 (ATH).
17	03 25 10.5?	20.38 S	70.91 W	53 *	4.7	1.7	23	NEAR COAST OF NORTHERN CHILE
17	03 35 30.6	1.291 N	132.830 E	33 N	5.0	1.2	22	WEST IRIAN REGION
17	04 13 53.8&	35.051 N	97.517 W	5 G			8	OKLAHOMA. <TUL>. mbLg 2.3 (TUL).
17	06 17 14.7?	56.28 N	154.07 W	33 N	4.1	1.1	6	KODIAK ISLAND REGION
17	06 29 34.5%	43.352 N	8.045 E	10 G		0.8	7	CORSICA. ML 2.7 (LDG).
17	08 52 38.5?	52.64 S	27.39 E	10 G	4.7	1.3	9	SOUTH OF AFRICA
17	09 14 38.6&	61.257 N	149.764 W	45			44	SOUTHERN ALASKA. <AGS-P>. Felt (II) at Anchorage and Eagle River.
17	10 04 08.1	39.821 N	141.667 E	83	5.0	0.9	166	HONSHU, JAPAN. Felt (IV JMA) at Miyako, (III JMA) at Morioka, Hachinohe and Ofunato, (II JMA) at Ishinomaki and (I JMA) at Sendai and Shirakawa.
17	11 14 52.0	10.731 S	161.328 E	52 *	4.5	1.1	27	SOLOMON ISLANDS
a 17	11 22 01.6	10.771 S	161.271 E	51 *	4.8 5.4	1.3	39	SOLOMON ISLANDS. Ms 5.7 (BRK).
17	12 06 12.5*	10.872 S	161.339 E	24 *	4.3	1.5	15	SOLOMON ISLANDS
17	13 24 05.6	21.547 S	179.418 W	623	4.7	0.9	42	FIJI ISLANDS REGION

17	18	57	08.1*	49.984	S	7.730	W	10	G	4.8	4.7	1.1	16	SOUTH ATLANTIC RIDGE	
17	22	48	28.9&	60.265	N	152.601	W	99					21	SOUTHERN ALASKA. <AGS-P>.	
17	23	54	24.8	42.344	N	18.888	E	10	G			1.4	10	YUGOSLAVIA. MD 2.9 (TTG).	
18	00	51	22.5	42.318	N	19.967	E	10	G			1.0	11	YUGOSLAVIA. MD 2.8 (TTG).	
18	06	33	42.5*	20.791	S	67.431	W	185		4.8		0.9	11	SOUTHERN BOLIVIA	
18	09	32	46.0	43.122	N	26.055	E	10	G			1.3	9	BULGARIA	
18	10	57	24.6%	44.317	N	6.746	E	10	G			0.6	12	FRANCE. ML 2.8 (LDG).	
18	13	03	46.8	36.192	N	71.280	E	95		4.8		1.3	91	AFGHANISTAN-USSR BORDER REGION. Felt (II) at Khorog, USSR.	
18	18	15	48.5*	25.886	N	128.870	E	33	N	4.5		0.9	7	RYUKYU ISLANDS	
a	18	18	16	11.7	19.460	S	175.666	W	242	D	5.2	1.0	94	TONGA ISLANDS	
18	18	29	05.9	6.244	S	154.825	E	64		4.6		1.0	27	SOLOMON ISLANDS. Felt (II) at Arawa, Baugainville.	
18	18	43	13.5*	66.246	N	149.818	W	10	G			1.2	5	ALASKA. ML 3.3 (PMR).	
18	19	55	44.1*	32.204	S	70.946	W	22	*			1.4	12	CHILE-ARGENTINA BORDER REGION	
18	20	32	09.4*	36.622	N	70.189	E	158	?	4.2		1.2	15	HINDU KUSH REGION	
18	23	35	27.0*	30.715	N	142.640	E	33	N	4.4		1.0	13	SOUTH OF HONSHU, JAPAN	
19	00	23	24.0*	14.072	N	51.766	E	10	G	4.8		1.0	17	EASTERN GULF OF ADEN	
19	03	49	13.6&	36.545	N	121.082	W	7					14	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).	
19	04	07	24.2	55.566	N	5.608	E	5	G			1.0	24	NORTH SEA. ML 3.6 (BGS).	
19	04	12	29.1	43.945	N	147.646	E	48	D	4.8		0.8	87	KURIL ISLANDS	
a	19	06	47	43.0	54.744	N	163.277	E	42	D	5.4	5.2	1.1	226	OFF EAST COAST OF KAMCHATKA
19	07	22	56.3*	41.703	N	19.389	E	10	G			1.1	12	ALBANIA. ML 3.0 (TTG).	
19	07	46	24.4	28.385	N	83.682	E	33	N	5.2	4.3	1.0	119	NEPAL. Felt at Kathmandu.	
19	08	09	04.4&	37.150	N	121.582	W	7					28	CENTRAL CALIFORNIA. <BRK>. ML 4.3 (BRK). Ma=1.6*10**15 Nm (BRK). Felt (IV) at San Martin, (III) at Las Gatas, Santa Cruz and San Matea. Aisa felt at Santa Clara and San Francisco.	
19	08	12	05.8	28.243	N	83.572	E	33	N	4.9		1.1	71	NEPAL. Felt at Kathmandu.	
19	09	08	25.2*	28.803	S	70.852	W	33	N			1.3	8	CENTRAL CHILE	
19	09	35	43.5	29.892	S	72.441	W	33	N	4.5		1.0	15	OFF COAST OF CENTRAL CHILE	
19	10	21	36.2?	42.80	N	0.03	W	10	G			1.0	12	PYRENEES. ML 3.5 (LDG).	
19	10	54	38.0*	10.282	S	78.978	W	33	N	4.6		1.4	23	NEAR COAST OF PERU. Felt at Huarney.	
19	11	21	55.4%	42.347	N	18.943	E	10	G			0.2	6	YUGOSLAVIA. ML 2.2 (TTG).	
19	11	27	02.9	50.780	N	129.633	W	10	G	4.2		1.3	40	VANCOUVER ISLAND REGION	
19	13	24	19.9*	44.027	N	114.860	W	5	G			1.3	7	WESTERN IDAHO. ML 3.0 (NEIS).	
19	14	15	01.8*	34.477	N	46.268	E	33	N	4.3		1.1	9	WESTERN IRAN	
19	15	54	50.8	2.081	N	127.090	E	33	N	5.1		1.2	47	MOLUCCA PASSAGE	
19	19	40	39.3*	29.106	S	178.083	W	90	*	5.0		1.5	26	KERMADEC ISLANDS	
19	20	11	58.3*	39.215	N	36.436	E	10	G	3.9		1.5	10	TURKEY	
19	21	24	01.7	56.083	N	164.411	E	33	N	4.9	4.9	1.0	105	KOMANDORSKY ISLANDS REGION	
19	21	25	36.5&	61.287	N	146.899	W	29					30	SOUTHERN ALASKA. <AGS-P>.	
19	22	09	34.1&	58.512	N	150.926	W	94		4.3			39	GULF OF ALASKA. <AGS-P>.	
19	23	52	01.9	0.874	N	99.527	E	27		4.9		1.3	41	NORTHERN SUMATERA	
20	00	01	37.6*	40.009	N	141.239	E	24	*	4.4		1.1	8	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Miyako and Mariaka.	
20	02	20	29.6	39.015	N	23.521	E	10	G			1.2	17	AEGEAN SEA. ML 3.3 (ATH).	
20	03	59	02.5	6.917	N	72.136	W	43		4.8		1.0	76	NORTHERN COLOMBIA. Felt at Bucaramanga.	
20	05	33	01.5	47.291	N	11.526	E	10	G			1.5	10	AUSTRIA. ML 2.7 (KBA).	
20	06	22	26.8	31.975	N	50.743	E	33	N	4.6		1.0	25	IRAN	
20	07	09	24.8*	4.836	S	133.811	E	33	N	4.1		1.5	6	WEST IRIAN REGION	
20	07	18	10.2*	36.383	N	71.053	E	183	?	4.5		1.2	14	AFGHANISTAN-USSR BORDER REGION	
20	08	28	39.4	24.051	S	66.759	W	198		4.7		1.2	70	SALTA PROVINCE, ARGENTINA	
20	08	34	04.6	44.316	N	114.290	W	5	G			0.6	7	WESTERN IDAHO. ML 3.0 (NEIS).	
20	11	10	18.9*	43.414	N	11.943	E	10	G			1.2	17	CENTRAL ITALY. MD 3.4 (FIR), ML 3.4 (KBA).	
20	13	03	35.6	41.701	N	19.383	E	10	G			0.7	14	ALBANIA. MD 3.2 (TTG).	
20	15	01	03.7	36.260	S	72.465	W	33	N			0.4	8	NEAR COAST OF CENTRAL CHILE. Felt (IV) at Talca.	
20	15	08	01.4?	35.47	S	71.79	W	28				0.9	8	CENTRAL CHILE. Felt (III) at Talca.	
20	15	53	02.2	14.614	S	167.269	E	191	*	4.9		1.2	99	VANUATU ISLANDS	
20	16	23	58.7%	43.688	N	7.041	E	10	G			0.6	6	NEAR SOUTH COAST OF FRANCE. ML 2.2 (LDG).	
20	17	10	43.3	36.418	N	26.876	E	149		4.1		0.8	42	DODECANESE ISLANDS	
20	19	09	06.7*	3.399	S	135.450	E	33	N	4.1		1.1	9	WEST IRIAN REGION	
20	19	50	25.4*	8.087	N	83.489	W	28		4.4	3.4	1.2	17	COSTA RICA	
20	23	28	28.3&	63.029	N	150.705	W	142					39	CENTRAL ALASKA. <AGS-P>.	
20	23	36	05.6	38.632	N	141.974	E	67		5.0		1.1	131	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Morioka, Miyako, Ofunato and Sendai; (II JMA) at Fukushima, Machinobe, Ishinomaki, Mita and Onahama.	
a	20	23	43	52.7	51.581	N	174.413	W	33	N	5.2	4.5	0.9	138	ANDREANOF ISLANDS, ALEUTIAN IS.
21	01	09	34.2	26.876	N	143.872	E	33	N	5.1		0.8	91	BONIN ISLANDS REGION	
21	01	17	03.6*	57.945	S	25.449	W	33	N	5.4		1.2	37	SOUTH SANDWICH ISLANDS REGION	
a	21	01	51	17.6	5.602	S	130.788	E	55		5.3		1.0	118	BANDA SEA
21	02	51	44.2*	43.360	N	17.165	E	10	G			1.2	8	YUGOSLAVIA. ML 3.0 (TTG).	
21	03	38	23.0	46.279	N	7.401	E	10	G			1.0	8	SWITZERLAND	
a	21	04	47	03.1	6.664	S	129.815	E	159	D	5.4		1.1	161	BANDA SEA
21	05	29	50.2&	63.269	N	150.565	W	45					20	CENTRAL ALASKA. <AGS-P>.	
21	05	54	46.8	3.346	S	137.406	E	71	D	5.1		1.0	46	WEST IRIAN	
21	06	56	56.7*	42.766	N	13.151	E	10	G			1.3	21	CENTRAL ITALY. ML 3.8 (KBA). MD 3.7 (TRI).	
21	09	03	20.9?	16.008	N	60.47	W	33	N			0.3	5	LEEWARD ISLANDS. ML 2.5 (FDF).	
21	09	54	04.5	43.365	N	26.210	E	20				1.5	38	BULGARIA. Damage (V) to previously damaged buildings in the Strazhitza area.	
21	10	05	36.0	43.237	N	26.163	E	10	G			1.2	10	BULGARIA	
21	11	18	27.3&	37.442	N	118.382	W	7					25	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.4 (BRK), 3.2 (PAS).	
21	11	24	04.4*	28.028	S	71.024	W	33	N			0.2	5	NEAR COAST OF CENTRAL CHILE	
a	21	11	26	36.6	20.608	N	144.885	E	118	D	5.6		1.1	271	MARIANA ISLANDS. mb 5.8 (BRK).
21	11	33	47.3	31.855	S	66.298	W	33	N			1.4	20	LA RIOJA PROVINCE, ARGENTINA	
21	11	42	57.1&	37.447	N	118.382	W	7					30	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.5 (BRK), 3.4 (PAS). Felt (III) at Benton, California.	
21	14	15	32.2&	59.510	N	153.203	W	103					24	SOUTHERN ALASKA. <AGS-P>.	
21	15	19	58.3?	32.02	S	178.91	W	33	N	5.1		1.4	9	SOUTH OF KERMADEC ISLANDS	
21	16	06	11.8*	50.835	N	5.453	E	10	G			1.5	6	BELGIUM	
21	16	35	12.6*	1.049	S	77.631	W	138	D	4.3		1.4	16	ECUADOR	
21	17	08	23.3*	30.510	N	131.316	E	42	*	4.6		1.1	19	KYUSHU, JAPAN	
21	17	56	08.3?	6.07	S	130.21	E	141	?	4.1		0.9	9	BANDA SEA	

	21	19 49 32.5*	64.888 N	152.488 W	33 N			1.2	6	CENTRAL ALASKA. ML 3.1 (PMR).
	21	20 01 06.1	32.745 N	47.646 E	55 *	4.7		0.7	37	IRAN-IRAQ BORDER REGION
	21	20 09 11.7	48.394 N	8.558 E	10 G			1.1	9	GERMANY. ML 2.7 (LDG).
	21	20 26 42.5?	16.79 N	60.97 W	10 G			0.2	5	LEEWARD ISLANDS. ML 2.6 (FDF).
a	21	20 37 03.5	6.008 S	128.836 E	268	5.3		1.0	145	BANDA SEA
	21	22 16 17.6*	33.707 S	71.830 W	10 G			0.3	10	NEAR COAST OF CENTRAL CHILE
	21	22 21 26.8&	60.779 N	150.962 W	18				27	KENAI PENINSULA, ALASKA. <AGS-P>.
	21	22 40 23.1%	60.118 N	5.084 E	0 G			0.8	7	SOUTHERN NORWAY. MD 2.3 (BER). Probable explosion.
	21	22 52 25.1*	65.020 N	152.107 W	33 N			1.3	8	ALASKA. ML 3.5 (PMR).
	21	23 15 24.7%	15.440 N	60.691 W	33 N			0.2	8	LEEWARD ISLANDS. ML 2.7 (FDF).
	21	23 16 12.2*	23.900 N	142.107 E	46 ?	4.7		0.9	29	VOLCANO ISLANDS REGION
	22	00 12 11.1*	6.787 S	155.356 E	57 *	4.5		0.5	9	SOLOMON ISLANDS
	22	01 24 54.5	37.484 N	118.405 W	5 G			0.6	13	CALIFORNIA-NEVADA BORDER REGION. ML 3.0 (NEIS).
	22	01 30 59.7	5.069 S	102.814 E	38 D	5.1 4.1		0.9	51	SOUTHERN SUMATERA
	22	01 37 24.4?	33.94 S	72.18 W	33 N			0.7	7	OFF COAST OF CENTRAL CHILE
	22	01 51 14.7?	39.11 S	15.92 W	10 G		4.1	1.3	9	TRISTAN DA CUNHA REGION
	22	02 59 08.2	39.302 N	23.223 E	10 G			0.6	8	AEGEAN SEA. ML 2.8 (ATH).
	22	03 33 24.6	36.609 N	138.200 E	10	4.4		1.4	17	HONSHU, JAPAN. Felt (III JMA) at Nagano.
	22	03 35 02.4&	60.457 N	151.381 W	55				27	KENAI PENINSULA, ALASKA. <AGS-P>.
	22	04 11 06.4?	20.47 S	177.61 W	515 *	4.6		1.0	20	FIJI ISLANDS REGION
	22	04 21 04.7*	12.356 N	41.303 E	10 G	4.3		0.3	11	ETHIOPIA
	22	05 10 51.1	43.515 N	10.154 E	22			1.1	62	CENTRAL ITALY. ML 4.2 (KBA), 3.9 (LDG). MD 4.1 (FIR). Two people died of heart attacks. Felt in the Livorno area.
a	22	05 33 16.3	18.830 S	175.736 W	269 D	5.2		0.9	169	TONGA ISLANDS
	22	05 47 23.3	29.274 N	141.992 E	40 D	4.9		1.0	69	SOUTH OF HONSHU, JAPAN
	22	07 00 21.5	43.510 N	10.240 E	27			1.0	32	CENTRAL ITALY. MD 3.7 (FIR). ML 3.6 (KBA), 3.4 (LDG). Felt in the Livorno area.
	22	09 26 22.4*	8.211 N	137.321 E	33 N	4.6		1.4	15	WEST CAROLINE ISLANDS
	22	10 03 29.4*	7.577 N	82.317 W	23	4.4		1.1	21	SOUTH OF PANAMA
	22	10 22 18.0	40.560 N	21.658 E	10 G			1.1	15	GREECE. MG 3.1 (TIR).
a	22	12 15 44.5	43.159 N	146.479 E	65	5.4		0.8	211	KURIL ISLANDS. Felt (IV) on Shikotan and (III) at Yuzhno-Kurilsk. Felt (III JMA) at Nemura and (II JMA) at Kushiro, Hokkaido. Felt (I JMA) at Morioka, Hanshu.
	22	13 11 01.5*	38.388 N	142.306 E	33 N	4.8		0.5	6	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Ofunata and Sendai.
	22	14 07 57.9	31.301 S	179.880 E	398	5.1		1.2	110	KERMADEC ISLANDS REGION
	22	16 44 23.6*	37.988 S	78.249 E	10 G	5.1		1.0	19	MID-INDIAN RISE
	22	16 58 51.4?	51.35 N	20.06 E	10 G			0.6	5	POLAND. ML 2.6 (KRA).
	22	16 59 48.9	43.471 N	3.869 W	10 G			1.0	22	SPAIN. ML 3.6 (LDG).
	22	17 05 32.4	29.404 N	51.657 E	25 *	4.4		1.5	18	SOUTHERN IRAN. ML 4.3 (BJA).
	22	17 58 36.5*	23.888 N	121.898 E	10 G			0.8	6	TAIWAN
	22	18 43 59.9	32.784 S	71.741 W	10 G			0.6	16	NEAR COAST OF CENTRAL CHILE
	22	19 22 50.2*	45.822 N	26.662 E	77 ?			0.8	6	ROMANIA
	22	20 15 11.5	15.122 N	122.856 E	36	4.6		1.1	46	PHILIPPINE ISLANDS REGION
	22	20 47 53.8	42.360 N	18.984 E	10 G			0.6	12	YUGOSLAVIA. MD 3.4 (TTG). Felt (V) at Cetinje; (IV) at Titograd, Budva and Petrovac.
	22	23 56 34.2*	33.035 S	71.947 W	10 G			0.4	10	NEAR COAST OF CENTRAL CHILE
	23	01 52 53.4	52.173 N	171.230 W	33 N	4.7		0.6	64	FOX ISLANDS, ALEUTIAN ISLANDS
	23	02 06 17.6?	52.11 N	171.29 W	33 N	4.3		1.5	10	FOX ISLANDS, ALEUTIAN ISLANDS
	23	03 57 16.6*	18.008 S	71.219 W	33 N			1.1	5	OFF COAST OF NORTHERN CHILE. Felt (II) at Arequipa, Peru.
	23	04 55 06.7*	52.120 N	169.428 W	33 N	4.5		1.1	36	FOX ISLANDS, ALEUTIAN ISLANDS
	23	05 44 42.9*	26.723 S	71.920 W	87 *			1.1	14	OFF COAST OF NORTHERN CHILE
	23	05 47 23.2*	20.819 S	68.518 W	107 D	4.9		1.4	20	CHILE-BOLIVIA BORDER REGION
	23	08 47 32.3?	5.74 S	147.06 E	206 ?	4.6		1.3	7	EAST PAPUA NEW GUINEA REGION
	23	10 24 03.0	5.369 N	152.308 E	44 *	4.5		1.1	16	NEW BRITAIN REGION
	23	11 55 24.5*	45.200 N	27.943 E	33 N			0.8	6	ROMANIA
	23	13 57 41.5%	44.697 N	6.866 E	10 G			0.3	6	FRANCE. ML 2.5 (LDG).
	23	15 25 19.4?	37.98 S	178.25 E	159 ?	3.9		0.7	8	OFF E. COAST OF N. ISLAND, N.Z.
	23	17 05 19.5&	60.854 N	151.836 W	88				39	KENAI PENINSULA, ALASKA. <AGS-P>.
a	23	17 51 09.2	1.646 N	126.531 E	72 D	5.6		1.2	201	MOLUCCA PASSAGE
	23	18 16 41.3	2.884 S	141.485 E	31	5.3 5.1		1.0	105	NEAR N COAST OF PAPUA NEW GUINEA
	23	18 43 44.5	2.864 S	141.362 E	46 *	4.6		1.1	23	NEAR N COAST OF PAPUA NEW GUINEA
	23	18 52 30.0&	37.463 N	118.413 W	9				23	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.0 (BRK), 3.2 (PAS).
	23	18 56 19.2*	3.045 S	141.201 E	69 ?	3.9		0.8	12	PAPUA NEW GUINEA
	23	19 15 21.0?	7.56 S	128.52 E	33 N	4.9		1.6	13	BANDA SEA
	23	19 21 13.4*	0.883 N	99.627 E	33 N	4.0		0.6	6	NORTHERN SUMATERA
	23	19 21 35.8*	0.773 N	99.476 E	33 N	4.3		1.4	11	NORTHERN SUMATERA
	23	20 34 16.2*	9.297 S	158.727 E	61 *	4.7		1.3	21	SOLOMON ISLANDS
	23	20 58 07.2	44.395 N	7.305 E	10 G			0.2	7	NORTHERN ITALY. ML 2.6 (LDG).
	23	21 10 11.0*	41.684 N	22.866 E	10 G			1.3	5	YUGOSLAVIA. ML 2.3 (SKO).
	23	21 16 51.3?	8.40 N	83.12 W	33 N			0.9	6	COSTA RICA. ML 4.0 (HDC).
	23	21 18 09.4	13.930 N	144.717 E	155	5.0		1.1	148	MARIANA ISLANDS. Felt (IV) on Guam.
	23	21 46 02.9	2.948 S	141.267 E	48	4.5		0.9	22	NEAR N COAST OF PAPUA NEW GUINEA
	24	01 42 32.0?	36.30 N	31.90 E	10 G			1.6	5	TURKEY
	24	02 58 00.0%	15.968 N	61.109 W	33 N			1.0	5	LEEWARD ISLANDS. ML 2.4 (FDF).
	24	06 33 47.7	41.800 N	22.829 E	10 G			0.3	8	YUGOSLAVIA. ML 2.1 (SKO).
	24	07 01 01.7%	15.914 N	60.796 W	31			0.2	11	LEEWARD ISLANDS. ML 3.4 (FDF).
f	24	08 09 21.3	41.529 N	79.318 E	29 D	5.9 5.9		1.2	254	KIRGHIZ-XINJIANG BORDER REGION. At least 417 houses damaged in the Wushi area, China. Felt (IV) in the Almo Ata-Przhevalsk area and (III) in the Frunze-Naryn area, USSR.
	24	08 13 14.4*	41.412 N	79.348 E	33 N	5.5		0.8	19	KIRGHIZ-XINJIANG BORDER REGION
	24	08 30 37.7*	5.189 S	153.564 E	69 ?	4.2		1.2	13	NEW IRELAND REGION
	24	08 33 16.5*	32.390 S	71.941 W	33 N			1.1	12	NEAR COAST OF CENTRAL CHILE
	24	08 45 45.8*	41.313 N	79.360 E	33 N	4.6		1.2	15	KIRGHIZ-XINJIANG BORDER REGION
	24	08 48 31.6?	41.26 N	79.19 E	33 N	4.7		0.6	12	KIRGHIZ-XINJIANG BORDER REGION
	24	08 59 33.8	41.245 N	79.196 E	33 N	4.7		0.8	11	KIRGHIZ-XINJIANG BORDER REGION
	24	10 34 26.1	27.657 N	92.686 E	27	4.9		0.9	79	INDIA-CHINA BORDER REGION
	24	10 37 00.4?	32.66 S	71.78 W	33 N			1.2	7	NEAR COAST OF CENTRAL CHILE
	24	12 44 48.1?	32.20 S	179.29 E	475 ?	4.2		1.6	9	SOUTH OF KERMADEC ISLANDS

24	13 13 27.6	4.419 N	62.554 E	10 G	4.9	1.1	43	CARLSBERG RIDGE
24	13 35 37.2?	2.25 N	125.89 E	33 N	4.5	0.5	6	TALAUD ISLANDS
24	13 40 40.3	41.442 N	79.248 E	33 N	5.2	0.8	114	KIRGHIZ-XINJIANG BORDER REGION. Some animals killed in the Wushi area, China.
24	13 42 49.6*	4.359 N	62.575 E	10 G	5.0	0.7	11	CARLSBERG RIDGE
24	13 53 27.6?	33.69 N	86.35 E	33 N	4.5	1.6	8	TIBET
24	14 05 09.9&	32.970 N	115.550 W	14			4	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.4 (PAS). Felt in Imperial County, California.
24	14 26 40.1*	4.330 N	62.538 E	10 G	4.7	1.1	7	CARLSBERG RIDGE
24	14 45 57.3*	41.381 N	79.512 E	33 N	4.4	0.5	11	KIRGHIZ-XINJIANG BORDER REGION
24	15 31 49.3*	36.656 N	71.594 E	33 N	4.6	0.9	9	AFGHANISTAN-USSR BORDER REGION
24	16 08 17.0&	35.828 N	98.097 W	5 G			12	OKLAHOMA. <TUL>. mBLg 3.1 (TUL). Felt (V) at Daver and Kingfisher. Felt in Blaine, Canadian and Kingfisher Counties.
24	16 21 35.7	11.396 N	125.416 E	78 *	4.9	1.0	31	SAMAR, PHILIPPINE ISLANDS
24	16 55 11.1*	5.292 S	145.296 E	94 *	4.2	1.6	23	EAST PAPUA NEW GUINEA REGION
24	16 58 29.9?	22.64 S	171.90 E	33 N		0.8	8	LOYALTY ISLANDS REGION
24	17 39 04.9&	59.078 N	152.650 W	70			28	SOUTHERN ALASKA. <AGS-P>.
24	19 12 53.0*	56.317 N	152.030 W	33 N	4.6	0.7	21	KODIAK ISLAND REGION
24	19 52 09.9?	5.33 S	103.81 E	33 N	4.7	0.7	9	SOUTHERN SUMATERA
24	21 22 44.2	42.347 N	20.009 E	10 G		0.4	8	YUGOSLAVIA. ML 2.2 (TTG).
24	23 15 08.2?	15.08 N	60.63 W	33 N		1.3	7	LEEWARD ISLANDS. ML 3.2 (FDF).
24	23 51 12.0*	21.403 S	66.493 W	244	4.8	0.9	11	SOUTHERN BOLIVIA
25	00 06 29.0%	47.177 N	0.697 E	10 G		0.4	6	FRANCE. ML 2.1 (LDG).
25	00 32 46.7	2.952 S	141.533 E	31	5.0	1.1	73	NEAR N COAST OF PAPUA NEW GUINEA
25	00 33 21.7	43.162 N	25.950 E	10 G		1.2	8	BULGARIA
25	00 35 37.7*	32.384 N	132.247 E	32 *		0.6	6	SHIKOKU, JAPAN. Felt (I JMA) at Nabeaka.
25	01 57 49.4?	70.65 N	8.47 E	10 G		0.8	7	NORWEGIAN SEA
25	02 13 43.9	32.253 S	71.722 W	45 *	4.6	1.0	27	NEAR COAST OF CENTRAL CHILE
25	03 12 44.7?	80.79 N	9.29 E	10 G	4.4	1.4	6	SVALBARD REGION
25	04 18 18.1*	32.383 S	72.190 W	33 N		0.5	8	OFF COAST OF CENTRAL CHILE
25	04 40 08.5	18.144 S	178.180 W	57?	5.2	0.9	87	FIJI ISLANDS REGION
25	06 10 56.3	41.347 N	79.305 E	33 N	4.5	1.0	20	KIRGHIZ-XINJIANG BORDER REGION
25	07 20 43.9?	32.38 S	72.30 W	10 G		1.1	9	OFF COAST OF CENTRAL CHILE
25	08 30 53.8	42.370 N	19.883 E	10 G		1.1	8	YUGOSLAVIA. ML 2.3 (TTG).
25	09 43 57.7%	38.819 N	30.442 E	10 G		1.4	5	TURKEY
a 25	10 31 22.8	3.054 N	79.334 W	13	5.6 5.2	1.1	222	SOUTH OF PANAMA
25	14 13 35.7?	28.32 S	176.32 W	33 N	4.6	1.6	13	KERMADEC ISLANDS REGION
25	15 02 08.3*	36.934 N	140.785 E	100	4.4	1.3	13	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Mito and Utsunomiya.
25	15 27 04.5*	21.656 S	68.355 W	162 ?		0.7	7	CHILE-BOLIVIA BORDER REGION
25	15 36 42.7*	42.860 N	143.985 E	111	4.4	0.8	20	HOKKAIDO, JAPAN REGION. Felt (II JMA) at Kushiro and (I JMA) at Obihiro.
25	16 00 41.3*	41.853 N	19.466 E	10 G		1.2	5	ALBANIA. ML 2.4 (TTG).
25	21 30 11.9*	32.322 S	72.291 W	33 N	4.5	1.1	12	OFF COAST OF CENTRAL CHILE
25	22 49 12.2	41.343 N	79.304 E	33 N	4.5	0.9	20	KIRGHIZ-XINJIANG BORDER REGION
26	00 38 17.6?	39.37 N	73.36 E	33 N	4.5	1.3	14	TAJIK-XINJIANG BORDER REGION
26	01 38 33.1	40.829 N	27.678 E	10 G		0.6	5	TURKEY
26	02 33 51.3*	32.362 S	71.824 W	11		0.6	11	NEAR COAST OF CENTRAL CHILE
26	04 39 51.1	8.588 N	83.020 W	63		0.7	18	COSTA RICA. MD 4.3 (HDC). Felt (III) in Chiriqui Province, Panama.
26	05 17 29.7	15.338 S	72.263 W	149	4.6	0.7	21	SOUTHERN PERU
26	05 28 40.8	41.324 N	79.195 E	33 N	4.5	0.8	21	KIRGHIZ-XINJIANG BORDER REGION
26	08 08 09.3*	8.222 N	82.919 W	14	4.0	0.6	15	PANAMA-COSTA RICA BORDER REGION. MD 4.3 (HDC). Felt (III) at Chiriqui, Panama. Felt at Golfito and in the Panama-Costa Rica border area.
26	08 43 54.3?	24.29 S	175.22 W	33 N	4.5	1.0	11	SOUTH OF TONGA ISLANDS
26	08 58 13.9*	7.623 S	32.229 E	10 G	4.3	1.1	6	TANZANIA
26	09 13 04.5*	43.209 N	26.008 E	10 G		1.4	5	BULGARIA
26	11 11 41.8	35.964 N	1.374 E	10 G	4.9 4.3	1.2	146	ALGERIA. One person killed, 7 injured and 629 homes damaged in the Mohammadia area. Felt at Oued Fodda and Tissemilt.
26	12 44 27.7?	35.85 N	115.03 W	5 G		0.6	9	CALIFORNIA-NEVADA BORDER REGION. ML 2.7 (NEIS). Felt at Boulder City, Nevada.
26	13 17 24.7?	24.58 S	179.25 E	625 ?	4.5	1.2	17	SOUTH OF FIJI ISLANDS
26	14 52 12.6*	32.246 S	72.126 W	53 *	4.5	1.2	20	OFF COAST OF CENTRAL CHILE
26	15 05 52.7*	32.165 S	72.120 W	44 *	4.8	1.0	27	OFF COAST OF CENTRAL CHILE
26	15 41 14.9*	32.060 S	71.818 W	40 *	5.3	0.9	24	NEAR COAST OF CENTRAL CHILE
26	15 57 06.6	11.585 N	87.980 W	33 N	4.5 3.6	0.8	12	NEAR COAST OF NICARAGUA
26	17 19 28.6	12.979 N	125.052 E	28 *	4.6	1.1	31	SAMAR, PHILIPPINE ISLANDS
26	19 52 51.4*	6.254 S	150.133 E	44 *	4.0	0.7	9	NEW BRITAIN REGION
26	21 10 28.3	18.591 N	81.705 W	10 G	4.0 3.8	1.3	23	CARIBBEAN SEA. Felt (IV) at Georgetown and West Bay, Grand Cayman.
26	21 16 38.7*	14.714 N	54.543 E	10 G	4.5	0.7	16	ARABIAN SEA
26	21 52 38.6*	14.675 N	54.732 E	10 G	4.4	1.3	12	ARABIAN SEA
a 26	23 11 33.4	6.373 N	12.453 E	10 G	4.8 4.8	0.7	65	CAMEROON. Felt in the Banyo-Tibati-N'Gaoundere area.
26	23 29 11.6	32.163 S	72.277 W	32	4.8	0.9	31	OFF COAST OF CENTRAL CHILE
26	23 32 22.7*	32.138 S	71.882 W	51 *	4.9	1.1	30	NEAR COAST OF CENTRAL CHILE
26	23 37 25.2*	43.290 N	26.079 E	10 G		0.9	8	BULGARIA
27	00 25 18.4	41.957 N	142.654 E	69	5.1	1.0	110	HOKKAIDO, JAPAN REGION. Felt (II JMA) at Urokawa and (I JMA) at Hachinohe and Obihiro.
27	00 36 27.3	14.831 N	54.628 E	10 G	5.0	1.0	46	ARABIAN SEA
27	01 30 38.5	35.484 N	140.825 E	61	5.1	1.1	132	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Tateyama. Also felt in the Chiba area.
27	01 36 56.6%	15.195 N	60.827 W	33 N		0.9	7	LEEWARD ISLANDS. ML 2.3 (FDF).
27	01 58 22.9*	10.786 S	75.721 W	33 N		1.2	6	PERU
27	02 22 06.9	10.259 N	86.481 W	33 N	4.4	0.7	11	OFF COAST OF COSTA RICA. MD 4.3 (HDC).
27	02 50 00.6	32.152 S	72.097 W	44 *	4.7	1.1	32	OFF COAST OF CENTRAL CHILE
27	03 14 09.0*	22.620 S	66.419 W	310 ?		0.6	8	JUJUY PROVINCE, ARGENTINA
27	03 40 11.0	32.211 S	72.227 W	47 *	4.2	1.1	24	OFF COAST OF CENTRAL CHILE
27	04 01 57.5*	14.841 N	54.672 E	10 G	4.6 4.3	0.9	22	ARABIAN SEA
27	04 54 30.7*	32.575 S	71.703 W	21		0.7	13	NEAR COAST OF CENTRAL CHILE
a 27	07 06 51.9	32.154 S	72.082 W	35	5.0 5.4	1.1	72	OFF COAST OF CENTRAL CHILE

27	07	39	03.5*	41.225 N	19.254 E	10 G			0.8	9	ALBANIA. ML 2.8 (TTG).
27	08	12	22.5?	2.02 S	100.79 E	86 ?	4.5		0.7	8	SOUTHERN SUMATERA
27	08	51	20.1?	32.33 S	72.59 W	33 N			1.3	9	OFF COAST OF CENTRAL CHILE
27	09	27	01.8	10.710 N	56.945 E	10 G	4.8		1.0	49	CARLSBERG RIDGE
27	09	37	38.6*	19.796 E	133.769 E	10 G			1.1	6	NORTHERN TERRITORY, AUSTRALIA
27	09	45	51.4	3.344 N	122.220 E	609 *	5.0		0.8	21	CELEBES SEA
27	09	51	52.2	32.424 S	72.285 W	33 N			1.0	17	OFF COAST OF CENTRAL CHILE
27	12	28	57.8*	20.936 S	178.426 W	434 *	4.6		1.0	21	FIJI ISLANDS REGION
27	12	34	50.0*	32.245 S	72.420 W	30			0.9	14	OFF COAST OF CENTRAL CHILE
27	13	23	22.5*	65.151 N	151.910 W	33 N			0.9	7	ALASKA. ML 3.3 (PMR).
27	13	29	56.4&	62.827 N	149.617 W	6				39	CENTRAL ALASKA. <AGS-P>. ML 3.5 (PMR).
27	13	32	21.0%	60.231 N	5.261 E	0 G			0.6	7	SOUTHERN NORWAY. MD 2.0 (BER). Probable explosion.
27	15	26	21.5	41.933 N	143.477 E	37 *	4.4		1.0	25	HOKKAIDO, JAPAN REGION
27	16	07	17.9*	3.491 S	130.083 E	33 N	4.2		1.2	15	CERAM
27	16	33	28.8*	19.947 N	98.536 W	33 N	4.2		1.0	17	CENTRAL MEXICO. Felt in Hidalgo and at Mexico City.
27	16	39	57.2*	33.089 N	141.836 E	33 N	4.7		1.1	17	OFF EAST COAST OF HONSHU, JAPAN
27	17	57	11.3&	37.608 N	118.463 W	6				37	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.8 (BRK), 3.5 (PAS).
27	18	09	02.3?	33.35 S	179.63 W	33 N	4.4		1.6	9	SOUTH OF KERMADEC ISLANDS
27	19	08	25.3?	32.47 S	71.97 W	33 N			1.0	9	NEAR COAST OF CENTRAL CHILE
27	19	10	53.4*	41.587 N	73.726 E	33 N	4.7		1.1	13	KIRGHIZ SSR
27	20	10	50.1*	32.550 S	71.936 W	33 N			0.8	11	NEAR COAST OF CENTRAL CHILE
27	21	25	00.4*	7.268 S	106.670 E	33 N	4.6		0.6	9	JAVA
27	23	34	16.2	24.171 N	122.828 E	60	4.6		1.0	51	TAIWAN REGION
28	00	01	39.9	41.331 N	79.210 E	33 N	4.5		0.6	19	KIRGHIZ-XINJIANG BORDER REGION
28	00	03	39.0*	8.218 N	58.621 E	10 G	4.7 5.3		1.2	20	CARLSBERG RIDGE
28	01	47	28.7*	9.972 S	33.715 E	10 G	4.8		0.7	8	TANZANIA
28	02	39	51.8*	1.815 S	99.477 E	33 N	4.0		1.0	16	SOUTHERN SUMATERA
28	04	59	09.7*	16.378 N	122.297 E	33 N	4.5		0.7	8	LUZON, PHILIPPINE ISLANDS
28	05	33	21.8	40.951 N	15.474 E	10	4.1		1.0	50	SOUTHERN ITALY. ML 4.6 (TTG), 4.4 (TRI).
28	06	10	10.9*	32.390 S	72.220 W	10 G			0.9	12	OFF COAST OF CENTRAL CHILE
28	06	26	01.6*	32.743 S	71.214 W	29 *			1.4	12	NEAR COAST OF CENTRAL CHILE
28	06	47	21.1	41.935 N	19.495 E	10 G	3.4		1.0	23	ALBANIA. MD 3.4 (TTG). Felt (IV) at Kaplik. Felt also at Shkodra.
28	07	14	49.0	39.748 N	20.813 E	10 G			0.6	13	GREECE-ALBANIA BORDER REGION
28	07	48	47.0*	66.438 N	149.861 W	10 G			1.2	6	ALASKA. ML 3.6 (PMR).
28	08	31	44.3?	39.99 N	23.55 E	10 G			1.0	6	AEGEAN SEA
28	09	07	57.2	8.951 N	126.373 E	50 *	5.1 5.2		0.9	77	MINDANAO, PHILIPPINE ISLANDS
o 28	09	12	49.3	1.180 S	129.675 E	17 D	5.5 5.5		1.2	81	HALMAHERA
28	09	58	53.9*	2.894 N	96.033 E	33 N	4.4		1.5	8	NORTHERN SUMATERA
28	12	12	15.9	45.361 N	96.142 E	33 N	5.1		0.9	83	MONGOLIA
28	13	14	43.6&	40.387 N	122.052 W	11				7	NORTHERN CALIFORNIA. <BRK>. ML 3.1 (BRK).
28	14	03	28.5?	17.85 S	168.43 E	151 ?	4.3		0.8	5	VANUATU ISLANDS
28	15	04	25.2	2.723 N	79.719 W	33 N	4.7 4.0		0.9	36	SOUTH OF PANAMA
28	15	17	40.3?	27.28 S	177.91 W	33 N	4.7		0.6	6	KERMADEC ISLANDS REGION
28	17	09	20.4*	20.865 S	69.118 W	150 ?			0.5	6	NORTHERN CHILE
28	18	46	23.1	41.805 N	22.931 E	10 G			0.8	10	YUGOSLAVIA. ML 2.0 (SKO).
28	18	55	12.7	40.396 N	23.574 E	10 G			0.7	10	GREECE
28	19	04	13.6	63.280 N	152.485 W	33 N			0.9	8	CENTRAL ALASKA. ML 3.7 (PMR).
o 28	20	14	37.5	61.090 S	153.856 E	10 G	5.5 5.5		1.0	57	BALLENY ISLANDS REGION
28	22	15	12.1*	19.186 S	69.505 W	140 *			1.5	11	NORTHERN CHILE
28	22	23	58.9?	35.98 N	140.77 E	57 *			1.3	6	NEAR EAST COAST OF HONSHU, JAPAN
28	23	24	26.7	18.584 N	147.724 E	60 *	5.2		1.0	120	MARIANA ISLANDS REGION
29	00	07	00.6	47.445 N	9.236 E	12			1.0	45	GERMANY. ML 3.8 (VKA), 3.4 (FUR), 3.3 (KBA), 3.3 (LDG).
29	00	11	03.5*	12.427 S	167.293 E	235 ?	4.2		1.0	28	SANTA CRUZ ISLANDS
29	02	06	16.3	24.607 N	122.421 E	76 *	4.1		0.9	13	TAIWAN REGION
f 29	02	43	47.6	1.265 N	126.232 E	48 D	5.8 5.9		1.2	220	MOLUCCA PASSAGE
29	03	04	39.8	6.342 S	154.945 E	75	5.5		1.1	71	SOLOMON ISLANDS. Felt (IV) at Arawa and Panguna, Bougainville.
29	03	39	08.9	6.901 S	129.508 E	74 *	4.7		0.8	25	BANDA SEA
29	04	35	07.1%	60.248 N	5.605 E	10 G			1.2	5	SOUTHERN NORWAY. MD 2.5 (BER).
29	04	51	10.6%	45.606 N	6.514 E	10 G			0.9	6	FRANCE. ML 2.5 (LDG).
29	05	52	49.0*	32.348 S	72.129 W	33 N			0.9	12	OFF COAST OF CENTRAL CHILE
29	08	05	44.3	33.723 S	71.030 W	61 *			0.5	11	NEAR COAST OF CENTRAL CHILE. Felt (II) at Santiago.
29	08	06	44.0*	38.701 N	14.781 E	316 *	4.2		0.9	21	SICILY
29	08	16	54.3?	51.64 N	16.52 E	10 G			0.3	6	POLAND. ML 3.4 (VKA), 3.3 (KBA).
29	08	48	46.8*	9.094 S	123.888 E	33 N	4.5		0.9	7	TIMOR
29	11	30	51.4*	12.449 N	143.387 E	379	4.6		1.4	41	SOUTH OF MARIANA ISLANDS
29	11	58	06.0	38.678 N	26.809 E	12			1.0	23	AEGEAN SEA. ML 3.9 (ATH).
29	12	52	48.0*	41.383 N	122.421 E	10 G			1.4	7	ALBANIA. ML 2.9 (TTG).
29	12	59	08.6&	59.950 N	153.183 W	117				33	SOUTHERN ALASKA. <AGS-P>.
29	13	35	19.8	36.292 N	12.700 E	30	4.0		0.8	22	MEDITERRANEAN SEA. MD 4.3 (ROM).
29	14	05	27.4?	8.70 S	109.11 W	10 G	4.8		1.4	16	NORTHERN EASTER I. CORDILLERA
29	15	13	00.3&	58.163 N	151.568 W	28				32	KODIAK ISLAND REGION. <AGS-P>. ML 3.3 (PMR).
29	15	58	24.8	41.836 N	20.685 E	10 G			0.9	9	ALBANIA. ML 3.3 (SKO), 2.8 (TTG).
29	16	34	51.8&	60.320 N	152.778 W	113				27	SOUTHERN ALASKA. <AGS-P>.
o 29	17	22	39.4	29.765 S	71.208 W	65 D	5.4		1.0	135	NEAR COAST OF CENTRAL CHILE. Felt (V) at La Serena and Ovalle; (IV) at Illapel, Santa Dominga and Vallenar; (III) at Canela, Cobaraba, La Campana and Salamanca.
29	17	52	05.9?	32.39 S	71.89 W	33 N			0.9	8	NEAR COAST OF CENTRAL CHILE
29	19	09	03.0*	31.828 S	72.064 W	39 *	4.9		1.1	27	OFF COAST OF CENTRAL CHILE
29	20	56	46.4	14.466 N	93.773 W	33 N	4.8		0.7	36	NEAR COAST OF CHIAPAS, MEXICO
29	21	43	31.4	43.095 N	26.036 E	10 G			1.2	18	BULGARIA
29	22	09	02.9?	18.98 N	98.96 E	33 N			1.0	5	SOUTHEAST ASIA. Felt at Chiang Mai, Thailand.
29	22	38	10.8?	14.02 S	77.13 W	33 N			0.6	6	OFF COAST OF PERU
29	23	14	52.0*	37.185 N	141.382 E	57	4.2		1.3	25	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Onohama.
29	23	38	12.4?	13.91 S	76.61 W	33 N			1.2	6	NEAR COAST OF PERU
30	01	34	44.8&	37.73? N	122.145 W	9				21	CENTRAL CALIFORNIA. <BRK>. ML 3.5 (BRK). Felt (V) at San Lorenzo, (IV) at Moraga, Oakland, Redwood City and San Francisco. Felt (III) at Alameda, Canyon, Hayward and San Leandro. Also felt at Daly City, Fremont, Montclair, San Mateo and Walnut Creek.

30	04	51	07.67	50.77	N	19.54	E	10	G	1.6	5	POLAND. ML 2.8 (KRA).		
30	05	39	35.27	27.93	S	70.98	W	33	N	0.8	7	NEAR COAST OF NORTHERN CHILE		
30	07	42	14.3*	3.425	S	144.201	E	33	N	3.8 3.6	1.3	9	NEAR N COAST OF PAPUA NEW GUINEA	
30	07	55	12.4*	16.531	S	173.414	E	33	N	4.7	1.2	25	FIJI ISLANDS REGION	
30	11	12	19.5*	38.100	S	176.791	E	96	*	4.1	0.4	7	NORTH ISLAND, NEW ZEALAND	
30	11	25	07.3*	13.908	N	92.082	W	33	N	3.7	0.9	11	OFF COAST OF CHIAPAS, MEXICO	
30	11	30	25.2*	17.928	S	179.613	W	635	*	4.6	0.9	36	FIJI ISLANDS REGION	
30	12	38	47.17	37.70	S	73.68	W	33	N	3.6	1.1	11	NEAR COAST OF CENTRAL CHILE	
30	15	28	18.9*	4.229	S	130.530	E	118	?	4.5	0.8	11	BANDA SEA	
30	15	50	48.27	15.34	S	69.55	W	164	?		0.9	5	PERU-BOLIVIA BORDER REGION	
30	16	57	54.4*	11.137	S	75.240	W	33	N		1.5	13	PERU	
30	17	21	09.97	7.83	S	110.70	E	159	*	4.0	0.9	9	JAVA	
30	17	42	49.7	19.941	S	133.692	E	10	G	4.3	1.4	19	NORTHERN TERRITORY, AUSTRALIA	
30	18	03	19.17	50.74	N	20.29	E	10	G		0.7	5	POLAND. ML 3.3 (VKA), 2.9 (KRA).	
30	18	56	59.57	47.70	N	2.15	W	10	G		0.9	5	FRANCE. ML 2.9 (LDG).	
30	21	23	33.7*	20.976	S	69.016	W	136	*		1.4	12	NORTHERN CHILE	
f	30	22	29	42.0	60.063	S	26.916	W	48	D	6.2 7.0	1.4	172	SOUTH SANDWICH ISLANDS REGION. Ms 6.9 (BRK), 6.8 (PAS).
30	23	38	00.5	35.744	N	27.124	E	52		4.2	1.1	47	DODECANESE ISLANDS	
30	23	42	30.9*	58.337	S	14.565	W	10	G	5.0	1.4	23	SOUTHWESTERN ATLANTIC OCEAN	
31	00	17	55.0	60.063	S	26.573	W	34	D	4.9	0.9	30	SOUTH SANDWICH ISLANDS REGION	
31	00	22	26.2*	60.085	S	26.642	W	35	D	5.1	1.1	35	SOUTH SANDWICH ISLANDS REGION	
31	01	27	20.57	60.15	S	26.60	W	33	N		1.5	9	SOUTH SANDWICH ISLANDS REGION	
31	01	29	13.7	40.466	N	24.038	E	10	G		0.7	25	AEGEAN SEA. ML 3.6 (ATH).	
31	01	49	11.3	60.204	S	26.542	W	28	D	5.1	0.9	39	SOUTH SANDWICH ISLANDS REGION	
31	01	53	38.8*	60.402	S	26.662	W	33	N	5.1 4.8	0.7	17	SOUTH SANDWICH ISLANDS REGION	
31	02	03	00.5*	60.400	S	26.737	W	33	N	5.0	1.0	18	SOUTH SANDWICH ISLANDS REGION	
31	02	21	06.4	60.145	S	26.563	W	30	D	5.4	1.0	44	SOUTH SANDWICH ISLANDS REGION	
31	02	23	45.7	18.154	S	178.251	W	644	*	5.2	1.1	78	FIJI ISLANDS REGION	
31	02	24	50.1*	59.905	S	26.327	W	33	N	5.0	1.0	27	SOUTH SANDWICH ISLANDS REGION	
31	03	03	00.8*	36.347	N	121.467	W	6				17	CENTRAL CALIFORNIA. <BRK>. ML 3.1 (BRK), 3.2 (PAS).	
31	03	19	32.57	60.48	S	27.15	W	33	N	5.1	1.5	12	SOUTH SANDWICH ISLANDS REGION	
31	03	21	05.47	61.51	N	4.62	E	10	G		0.7	5	SOUTHERN NORWAY. MD 2.3 (BER).	
31	03	42	55.77	30.99	S	112.46	W	10	G	5.1 4.8	1.2	14	EASTER ISLAND REGION	
31	03	50	28.57	59.85	S	26.87	W	33	N	4.8	0.6	14	SOUTH SANDWICH ISLANDS REGION	
a	31	04	40	16.5	60.090	S	26.477	W	33	N	5.4	1.1	56	SOUTH SANDWICH ISLANDS REGION
31	04	44	15.3	40.401	N	23.954	E	10	G		1.0	9	GREECE	
31	04	56	39.6*	60.239	S	26.527	W	33	N	4.7	0.7	15	SOUTH SANDWICH ISLANDS REGION	
a	31	06	26	17.6	18.036	S	178.461	W	586	D	5.3	0.8	135	FIJI ISLANDS REGION
a	31	08	43	44.1	60.079	S	26.461	W	31	D	5.2 5.0	0.9	47	SOUTH SANDWICH ISLANDS REGION
31	09	00	39.4*	32.689	S	71.492	W	20	*		0.5	11	NEAR COAST OF CENTRAL CHILE	
31	10	30	55.77	28.32	S	176.49	W	33	N	4.7	1.3	8	KERMADEC ISLANDS REGION	
31	10	40	40.9*	36.710	N	27.061	E	33	N	4.6	0.9	6	DODECANESE ISLANDS. ML 4.3 (ATH).	
31	11	43	10.8*	35.251	S	78.650	E	10	G	4.9 4.8	0.6	10	MID-INDIAN RISE	
31	11	51	02.3*	21.072	S	68.599	W	33	N		1.4	6	CHILE-BOLIVIA BORDER REGION	
31	13	14	46.7*	45.566	N	26.416	E	161	?		0.6	8	ROMANIA	
31	13	17	42.7	33.912	N	141.311	E	33	N	4.3	0.9	25	OFF EAST COAST OF HONSHU, JAPAN	
31	14	21	12.0	50.299	N	129.725	W	10	G	4.4	1.1	26	VANCOUVER ISLAND REGION	
31	14	22	44.77	33.99	S	179.98	W	33	N	4.4	1.2	9	SOUTH OF KERMADEC ISLANDS	
31	14	25	48.3	50.289	N	129.799	W	10	G	4.6	1.0	23	VANCOUVER ISLAND REGION	
31	15	42	31.3	53.764	N	164.833	W	33	N	4.8	0.8	26	UNIMAK ISLAND REGION	
31	16	06	18.6	36.215	N	28.134	E	31	*	4.2	1.3	53	DODECANESE ISLANDS. ML 4.4 (ATH).	
31	16	52	37.17	12.90	N	87.91	W	33	N	4.1	0.8	8	NEAR COAST OF NICARAGUA	
31	17	48	27.0	43.217	N	26.035	E	10	G		1.3	13	BULGARIA	
31	18	15	34.1*	19.149	S	67.417	W	239	*		1.3	12	SOUTHERN BOLIVIA	
31	18	55	12.6	5.831	N	79.012	W	33	N	4.4	0.9	17	SOUTH OF PANAMA. Felt in Chiriqui Province, Panama.	
31	19	30	03.3*	60.327	S	26.657	W	34	D	5.3 4.9	1.3	45	SOUTH SANDWICH ISLANDS REGION	
31	20	15	54.6*	79.406	N	2.535	E	10	G	3.9	1.2	7	GREENLAND SEA	
31	20	27	57.2*	50.259	N	129.932	W	10	G	4.4	1.5	14	VANCOUVER ISLAND REGION	
31	22	02	31.2	14.492	N	123.595	E	51	*	4.6	1.2	18	LUZON, PHILIPPINE ISLANDS	
31	22	16	03.8*	31.800	N	115.790	W	6	G			5	BAJA CALIFORNIA. <PAS-P>. ML 3.1 (PAS).	
31	22	43	34.1*	45.332	N	27.046	E	33	N		1.1	5	ROMANIA	
31	23	23	38.5*	43.134	N	18.559	E	10	G		1.2	10	YUGOSLAVIA. ML 2.9 (TTG).	

ADDITIONAL SOURCE PARAMETERS

01 16 25 34.11	2.715S 138.363E	74km	CENTROID, MOMENT TENSOR (HRV)	Scale 10**17 Nm
5.8mb (38 obs.)			Data Used: GDSN	T Vol= 1.84 Plg= 8 Azm=350
WEST IRIAN			L.P.B.: 14S, 34C	N 0.38 73 106
FAULT PLANE SOLUTION: P-Waves			Centroid Location:	P -2.22 15 258
NP1:Strike=100 Dip=57 Slip= 90			Origin Time 16:25:38.0 0.3	Best Double Couple:Mo=2.0*10**17
NP2: 280 33 90			Lot 2.37S 0.02 Lon 138.20E 0.03	NP1:Strike= 35 Dip=74 Slip=-175
Principal Axes:			Dep 78.4 2.6 Half-duration 2.4	NP2: 303 85 -16
T Plg=78 Azm= 10			Principal Axes:	
P 12 190			Scale 10**17 Nm	03 15 35 01.22 3.408S 146.227E 5km
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.			T Vol= 2.70 Plg=56 Azm=327	5.5mb (13 obs.) 6.0Msz (5 obs.)
RADIATED ENERGY			N 0.39 33 129	BISMARCK SEA
No. of sta: 4 Focal mech. M			P -3.09 9 224	CENTROID, MOMENT TENSOR (HRV)
Energy 2.0±0.6*10**12 Nm			Best Double Couple:Mo=2.9*10**17	Data Used: GDSN
MOMENT TENSOR SOLUTION			NP1:Strike=347 Dip=46 Slip= 138	L.P.B.: 16S, 43C
Dep 72 No. of sta: 6			NP2: 108 61 52	Centroid Location:
Principal Axes:				Origin Time 15:35: 7.8 0.3
Scale 10**17 Nm				Lot 3.41S 0.03 Lon 146.28E 0.02
T Val= 2.79 Plg=86 Azm=198				Dep 15.0 FIX Half-duration 4.5
N -0.37 1 91				Principal Axes:
P -2.42 4 1				Scale 10**18 Nm
Best Double Couple:Mo=2.6*10**17				T Vol= 2.01 Plg=16 Azm=129
NP1:Strike= 90 Dip=41 Slip= 88				N -0.04 73 329
NP2: 272 49 91				P -1.97 6 220
				Best Double Couple:Mo=2.0*10**18
				NP1:Strike=266 Dip=75 Slip= 8
				NP2: 174 83 164

03 16 30 27.01 3.443S 146.307E 5km
 5.6mb (17 obs.) 6.2Msz (7 obs.)
 BISMARCK SEA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 40C
 Centroid Location:
 Origin Time 16:30:32.9 0.4
 Lat 3.45S 0.03 Lon 146.37E 0.03
 Dep 15.0 FIX Half-duration 4.9
 Principal Axes:
 Scale 10**18 Nm
 T Val= 2.88 Plg=21 Azm=133
 N -0.34 68 329
 P -2.54 6 225
 Best Double Couple:Mo=2.7*10**18
 NP1:Strike=271 Dip=71 Slip= 11
 NP2: 177 80 161

03 22 04 04.83 14.998S 167.929E 15km
 6.0mb (54 obs.) 6.5Msz (24 obs.)
 VANUATU ISLANDS
 FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=184 Dip=52 Slip= 90
 NP2: 4 38 90
 Principal Axes:
 T Plg=83 Azm= 94
 P 7 274

Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.

RADIATED ENERGY

No. of sta: 7 Focal mech. F
 Energy 1.3±0.4*10**14 Nm

MOMENT TENSOR SOLUTION

Dep 44 No. of sta: 13

Principal Axes:
 Scale 10**18 Nm

T Val= 8.55 Plg=68 Azm=124

N -0.03 11 6

P -8.52 19 272

Best Double Couple:Mo=8.5*10**18

NP1:Strike=345 Dip=28 Slip= 66

NP2: 191 65 102

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN, IDA

L.P.B.: 18S, 51C M.W.: 13S, 31C

Centroid Location:
 Origin Time 22:04:14.3 0.1

Lat 15.06S 0.01 Lon 168.20E 0.01

Dep 16.8 0.5 Half-duration 8.0

Principal Axes:
 Scale 10**19 Nm

T Val= 1.17 Plg=73 Azm=292

N -0.02 8 172

P -1.15 14 80

Best Double Couple:Mo=1.2*10**19

NP1:Strike=158 Dip=32 Slip= 74

NP2: 357 60 100

04 01 38 52.54 27.193S 176.563W 33km
 5.4mb (8 obs.) 5.4Msz (2 obs.)
 KERMADEC ISLANDS REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 9S, 20C
 Centroid Location:
 Origin Time 01:39: 2.7 0.9
 Lat 26.95S 0.09 Lon 176.97W 0.11
 Dep 15.0 BDY Half-duration 2.9
 Principal Axes:
 Scale 10**17 Nm
 T Val= 4.99 Plg=59 Azm=286
 N 0.90 0 16
 P -5.89 31 106
 Best Double Couple:Mo=5.4*10**17
 NP1:Strike=198 Dip=14 Slip= 92
 NP2: 16 76 90

04 10 21 45.88 49.774N 149.286E 489km
 5.1mb (73 obs.)
 NORTHWEST OF KURIL ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 10S, 22C
 Centroid Location:
 Origin Time 10:21:47.7 0.9
 Lat 49.53N 0.09 Lon 149.51E 0.13
 Dep 505.4 4.5 Half-duration 1.7
 Principal Axes:
 Scale 10**16 Nm

T Val= 8.84 Plg=28 Azm= 96
 N 1.55 14 194
 P -10.39 58 308
 Best Double Couple:Mo=9.6*10**16
 NP1:Strike=154 Dip=21 Slip=-132
 NP2: 18 74 -75

04 13 22 01.84 2.392S 139.466E 32km
 5.5mb (30 obs.) 5.6Msz (8 obs.)
 NEAR N. COAST OF WEST IRIAN
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 36C
 Centroid Location:
 Origin Time 13:22: 5.6 0.3
 Lat 2.35S 0.03 Lon 139.68E 0.04
 Dep 40.4 3.4 Half-duration 3.5
 Principal Axes:
 Scale 10**17 Nm
 T Val= 8.23 Plg=46 Azm=292
 N 0.91 36 152
 P -9.14 21 45
 Best Double Couple:Mo=8.7*10**17
 NP1:Strike= 91 Dip=40 Slip= 23
 NP2: 343 75 128

04 17 52 36.82 5.973N 82.601W 10km
 5.6mb (65 obs.) 5.8Msz (13 obs.)
 SOUTH OF PANAMA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 45C
 Centroid Location:
 Origin Time 17:52:44.7 0.2
 Lat 5.69N 0.02 Lon 82.57W 0.02
 Dep 15.0 FIX Half-duration 5.3
 Principal Axes:
 Scale 10**18 Nm
 T Val= 3.34 Plg= 9 Azm=315
 N -0.22 81 42
 P -3.13 1 45
 Best Double Couple:Mo=3.2*10**18
 NP1:Strike= 90 Dip=83 Slip= 5
 NP2: 359 85 173

05 03 32 41.79 3.424S 146.520E 10km
 5.2mb (7 obs.) 5.0Msz (1 obs.)
 BISMARCK SEA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 10S, 20C
 Centroid Location:
 Origin Time 03:32:49.8 0.1
 Lat 3.75S 0.07 Lon 146.25E 0.09
 Dep 15.0 FIX Half-duration 0.5
 Principal Axes:
 Scale 10**16 Nm
 T Val= 8.57 Plg= 0 Azm= 62
 N -0.22 90 180
 P -8.35 0 72
 Best Double Couple:Mo=8.5*10**16
 NP1:Strike=207 Dip=90 Slip= 180
 NP2: 297 90 0

05 12 11 55.77 52.448N 169.381W 33km
 6.1mb (114 obs.) 6.7Msz (52 obs.)
 FOX ISLANDS, ALEUTIAN ISLANDS
 FAULT PLANE SOLUTION: P-Waves
 NP1:Strike= 60 Dip=70 Slip= 90
 NP2: 240 20 90
 Principal Axes:
 T Plg=65 Azm=330
 P 25 150
 Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.

RADIATED ENERGY

No. of sta: 10 Focal mech. C

Energy 1.1±0.2*10**14 Nm

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN, IDA

L.P.B.: 19S, 53C M.W.: 13S, 53C

Centroid Location:
 Origin Time 12:12: 6.6 0.2

Lat 52.53N 0.01 Lon 169.05W 0.02

Dep 33.7 0.8 Half-duration 9.6

Principal Axes:
 Scale 10**19 Nm

T Val= 1.58 Plg=71 Azm=326

N -0.09 2 61

P -1.50 19 152

Best Double Couple:Mo=1.5*10**19
 NP1:Strike=246 Dip=26 Slip= 95
 NP2: 60 64 88

05 20 51 47.62 14.931S 167.208E 132km
 5.5mb (31 obs.)
 VANUATU ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 11S, 24C
 Centroid Location:
 Origin Time 20:51:51.8 1.2
 Lat 14.57S 0.09 Lon 166.93E 0.11
 Dep 102.8 3.6 Half-duration 1.6
 Principal Axes:
 Scale 10**16 Nm
 T Val= 6.65 Plg=74 Azm=148
 N 2.56 11 13
 P -9.21 11 281
 Best Double Couple:Mo=7.9*10**16
 NP1:Strike=357 Dip=35 Slip= 71
 NP2: 201 57 103

05 22 52 46.55 41.964N 81.319E 17km
 5.9mb (113 obs.) 5.8Msz (6 obs.)
 SOUTHERN XINJIANG, CHINA
 FAULT PLANE SOLUTION: P-Waves
 NP1:Strike= 90 Dip=70 Slip= 90
 NP2: 270 20 90
 Principal Axes:
 T Plg=65 Azm= 0
 P 25 180
 Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.

MOMENT TENSOR SOLUTION

Dep 19 No. of sta: 8

Principal Axes:
 Scale 10**17 Nm

T Val= 3.33 Plg=73 Azm= 45

N 0.22 15 256

P -3.55 8 164

Best Double Couple:Mo=3.4*10**17

NP1:Strike=237 Dip=39 Slip= 66

NP2: 87 55 108

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 10S, 26C

Centroid Location:
 Origin Time 22:52:50.9 0.5

Lat 41.77N 0.07 Lon 81.48E 0.11

Dep 15.0 BDY Half-duration 2.5

Principal Axes:
 Scale 10**17 Nm

T Val= 4.24 Plg=58 Azm= 19

N -0.23 14 267

P -4.01 29 169

Best Double Couple:Mo=4.1*10**17

NP1:Strike=226 Dip=21 Slip= 47

NP2: 90 75 104

06 05 07 48.13 23.976N 121.729E 38km
 5.8mb (81 obs.) 5.5Msz (9 obs.)
 TAIWAN
 FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=220 Dip=65 Slip= 138
 NP2: 331 53 32
 Principal Axes:
 T Plg=47 Azm=180
 P 7 278
 Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting with a large reverse component. The preferred fault plane is not determined.

MOMENT TENSOR SOLUTION

Dep 2 No. of sta: 7

Principal Axes:
 Scale 10**17 Nm

T Val= 6.17 Plg=44 Azm=169

N 0.45 46 349

P -6.62 0 79

Best Double Couple:Mo=6.4*10**17

NP1:Strike=205 Dip=61 Slip= 146

NP2: 313 61 34

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 10S, 24C

Centroid Location:
 Origin Time 05:07:51.8 0.4

Lat 23.78N 0.05 Lon 120.94E 0.07
 Dep 48.1 3.6 Half-duration 2.6
 Principal Axes:
 Scale 10**17 Nm
 T Val= 3.76 Plg=67 Azm=132
 N 0.48 12 13
 P -4.23 20 278
 Best Double Couple:Mo=4.0*10**17
 NP1:Strike=349 Dip=27 Slip= 63
 NP2: 198 66 103

07 18 19 08.80 34.259N 103.405E 33km
 5.5mb (75 obs.) 5.5Msz (7 obs.)
 GANSU PROVINCE, CHINA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 9S, 21C
 Centroid Location:
 Origin Time 18:19:11.4 0.3
 Lat 34.23N 0.08 Lon 103.86E 0.07
 Dep 15.0 BDY Half-duration 1.9
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.39 Plg=37 Azm= 29
 N 0.10 53 209
 P -1.49 0 119
 Best Double Couple:Mo=1.4*10**17
 NP1:Strike=170 Dip=65 Slip= 28
 NP2: 68 65 152

08 00 50 59.78 22.572S 171.999E 50km
 5.4mb (7 obs.) 4.7Msz (1 obs.)
 LOYALTY ISLANDS REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 28C
 Centroid Location:
 Origin Time 00:51: 7.2 1.1
 Lat 22.17S 0.09 Lon 171.37E 0.12
 Dep 15.0 FIX Half-duration 1.7
 Principal Axes:
 Scale 10**16 Nm
 T Val= 6.86 Plg=12 Azm=269
 N 3.90 45 11
 P -10.76 42 167
 Best Double Couple:Mo=8.8*10**16
 NP1:Strike=317 Dip=51 Slip=-155
 NP2: 212 71 -41

08 19 48 55.46 4.736S 153.105E 44km
 5.5mb (21 obs.) 4.8Msz (3 obs.)
 NEW IRELAND REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 27C
 Centroid Location:
 Origin Time 19:49: 0.5 0.6
 Lat 4.91S 0.06 Lon 152.95E 0.06
 Dep 31.6 5.4 Half-duration 1.8
 Principal Axes:
 Scale 10**16 Nm
 T Val= 12.49 Plg=58 Azm=304
 N 1.69 20 179
 P -14.18 24 80
 Best Double Couple:Mo=1.3*10**17
 NP1:Strike=136 Dip=28 Slip= 43
 NP2: 6 71 111

09 06 14 44.87 39.895N 141.677E 68km
 6.4mb (99 obs.)
 HONSHU, JAPAN
 FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=198 Dip=77 Slip= 83
 NP2: 47 15 118
 Principal Axes:
 T Plg=57 Azm= 99
 P 32 294
 Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting with a small strike-slip component. The preferred fault plane is not determined.
 RADIATED ENERGY
 No. of sta: 5 Focal mech. C
 Energy 1.4±0.4*10**14 Nm
 MOMENT TENSOR SOLUTION
 Dep 58 No. of sta: 11
 Principal Axes:
 Scale 10**18 Nm
 T Val= 9.42 Plg=36 Azm= 62
 N 0.46 45 199
 P -9.88 23 314

Best Double Couple:Mo=9.6*10**18
 NP1:Strike= 93 Dip=46 Slip= 169
 NP2: 190 82 44
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN, IDA
 L.P.B.: 14S, 36C M.W.: 11S, 25C
 Centroid Location:
 Origin Time 06:14:50.0 0.1
 Lat 39.80N 0.01 Lon 141.38E 0.02
 Dep 59.5 1.2 Half-duration 7.0
 Principal Axes:
 Scale 10**18 Nm
 T Val= 9.20 Plg=53 Azm= 89
 N -0.83 9 192
 P -8.37 35 289
 Best Double Couple:Mo=8.8*10**18
 NP1:Strike= 57 Dip=13 Slip= 136
 NP2: 190 81 80

09 08 01 35.95 19.469S 176.538W 33km
 5.9mb (32 obs.) 6.6Msz (21 obs.)
 FIJI ISLANDS REGION
 FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=122 Dip=87 Slip= 177
 NP2: 212 87 3
 Principal Axes:
 T Plg= 4 Azm= 77
 P 0 347
 Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting. The preferred fault plane is not determined.
 MOMENT TENSOR SOLUTION
 Dep 60 No. of sta: 6
 Principal Axes:
 Scale 10**18 Nm
 T Val= 5.62 Plg= 8 Azm=255
 N 0.01 81 100
 P -5.63 4 346
 Best Double Couple:Mo=5.6*10**18
 NP1:Strike= 31 Dip=81 Slip= 3
 NP2: 300 87 171
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN, IDA
 L.P.B.: 17S, 47C M.W.: 12S, 29C
 Centroid Location:
 Origin Time 08:01:40.2 0.1
 Lat 19.28S 0.01 Lon 176.52W 0.01
 Dep 16.6 1.3 Half-duration 7.0
 Principal Axes:
 Scale 10**18 Nm
 T Val= 7.92 Plg= 9 Azm=246
 N -1.66 78 28
 P -6.25 7 155
 Best Double Couple:Mo=7.1*10**18
 NP1:Strike=290 Dip=78 Slip= 179
 NP2: 21 89 12

09 11 27 12.68 20.110S 133.636E 5km
 5.2mb (19 obs.)
 NORTHERN TERRITORY, AUSTRALIA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 4S, 9C
 Centroid Location:
 Origin Time 11:27:16.7 2.3
 Lat 20.03S FIX:Lon 133.71E FIX
 Dep 15.0 FIX Half-duration 1.8
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.67 Plg=58 Azm=304
 N -0.13 24 169
 P -1.54 20 70
 Best Double Couple:Mo=1.6*10**17
 NP1:Strike=125 Dip=32 Slip= 41
 NP2: 359 69 115

13 08 03 00.50 13.463S 166.477E 53km
 5.4mb (21 obs.) 5.1Msz (4 obs.)
 VANUATU ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 31C
 Centroid Location:
 Origin Time 08:03: 2.9 0.5
 Lat 13.48S 0.04 Lon 166.33E 0.04
 Dep 49.0 2.3 Half-duration 2.2
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.93 Plg=71 Azm=346
 N 0.43 19 178
 P -2.36 4 87

Best Double Couple:Mo=2.1*10**17
 NP1:Strike=158 Dip=44 Slip= 63
 NP2: 14 52 114

13 10 55 17.99 29.292S 177.524W 60km
 5.3mb (10 obs.)
 KERMADEC ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 14S, 38C
 Centroid Location:
 Origin Time 10:55:24.7 0.4
 Lat 29.00S 0.03 Lon 177.57W 0.03
 Dep 54.9 1.8 Half-duration 2.7
 Principal Axes:
 Scale 10**17 Nm
 T Val= 3.45 Plg=76 Azm=289
 N 1.14 1 194
 P -4.58 14 104
 Best Double Couple:Mo=4.0*10**17
 NP1:Strike=193 Dip=31 Slip= 88
 NP2: 15 59 91

13 13 23 59.57 5.784N 78.966W 10km
 5.5mb (49 obs.) 5.2Msz (13 obs.)
 SOUTH OF PANAMA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 39C
 Centroid Location:
 Origin Time 13:24: 5.4 0.3
 Lat 5.68N 0.03 Lon 78.90W 0.03
 Dep 15.0 FIX Half-duration 3.7
 Principal Axes:
 Scale 10**18 Nm
 T Val= 1.33 Plg=20 Azm=318
 N -0.44 69 120
 P -0.89 6 226
 Best Double Couple:Mo=1.1*10**18
 NP1:Strike= 0 Dip=72 Slip= 170
 NP2: 94 80 18

13 19 30 10.84 5.713N 78.734W 10km
 5.3mb (21 obs.) 4.7Msz (4 obs.)
 SOUTH OF PANAMA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 39C
 Centroid Location:
 Origin Time 19:30:23.1 0.3
 Lat 5.87N 0.03 Lon 78.86W 0.03
 Dep 15.0 FIX Half-duration 3.1
 Principal Axes:
 Scale 10**17 Nm
 T Val= 7.15 Plg=14 Azm=319
 N -1.71 73 104
 P -5.45 9 227
 Best Double Couple:Mo=6.3*10**17
 NP1:Strike= 3 Dip=74 Slip= 177
 NP2: 94 87 16

14 09 38 54.90 50.063S 113.884W 10km
 5.0mb (12 obs.) 5.6Msz (3 obs.)
 EASTER ISLAND CORDILLERA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 43C
 Centroid Location:
 Origin Time 09:39: 4.3 0.2
 Lat 49.92S 0.03 Lon 114.10W 0.04
 Dep 15.0 FIX Half-duration 3.5
 Principal Axes:
 Scale 10**17 Nm
 T Val= 9.58 Plg= 2 Azm=144
 N -0.12 87 271
 P -9.46 2 54
 Best Double Couple:Mo=9.5*10**17
 NP1:Strike=189 Dip=87 Slip=-180
 NP2: 99 90 -3

14 11 03 48.75 42.565N 142.850E 102km
 6.5mb (93 obs.)
 HOKKAIDO, JAPAN REGION
 FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=260 Dip=84 Slip= -87
 NP2: 53 7 -116
 Principal Axes:
 T Plg=39 Azm=347
 P 51 173
 Comment: The focal mechanism is moderately well controlled and corresponds to normal faulting. The preferred fault

plane is not determined.

RADIATED ENERGY
No. of sta: 8 Focal mech. M
Energy 4.2±0.6*10**14 Nm

MOMENT TENSOR SOLUTION
Dep 97 No. of sta: 13

Principal Axes:
Scale 10**19 Nm
T Val= 1.92 Plg=40 Azm=348
N -0.15 2 256
P -1.77 49 163
Best Double Couple:Mo=1.8*10**19
NP1:Strike=105 Dip=5 Slip=-61
NP2: 256 86 -92

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN, IDA
L.P.B.: 14S, 40C M.W.: 10S, 21C
Centroid Location:
Origin Time 11:03:54.1 0.2
Lat 42.73N 0.01 Lon 142.73E 0.02
Dep 89.4 1.5 Half-duration 9.2

Principal Axes:
Scale 10**19 Nm
T Val= 1.78 Plg=38 Azm=349
N -0.18 4 82
P -1.60 52 177
Best Double Couple:Mo=1.7*10**19
NP1:Strike= 52 Dip= 8 Slip=-121
NP2: 262 83 -86

16 05 12 48.53 42.791N 145.103E 54km
5.1mb (72 obs.) 5.1Msz (6 obs.)
HOKKAIDO, JAPAN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 24C
Centroid Location:
Origin Time 05:12:55.4 0.6
Lat 42.76N 0.05 Lon 144.81E 0.07
Dep 50.6 3.9 Half-duration 1.9

Principal Axes:
Scale 10**17 Nm
T Val= 1.17 Plg=48 Azm= 18
N 0.53 37 234
P -1.70 18 129
Best Double Couple:Mo=1.4*10**17
NP1:Strike=178 Dip=42 Slip= 27
NP2: 67 73 129

16 13 18 08.51 22.223S 173.628W 33km
5.1mb (7 obs.)
TONGA ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 20C
Centroid Location:
Origin Time 13:18: 5.8 2.1
Lat 22.34S 0.14 Lon 173.13W 0.15
Dep 54.3 9.0 Half-duration 1.3

Principal Axes:
Scale 10**16 Nm
T Val= 4.14 Plg=66 Azm=302
N 0.14 1 34
P -4.28 24 124
Best Double Couple:Mo=4.2*10**16
NP1:Strike=216 Dip=21 Slip= 92
NP2: 33 69 89

16 15 14 59.31 52.904S 27.444E 10km
5.5mb (14 obs.) 4.9Msz (4 obs.)
SOUTH OF AFRICA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 30C
Centroid Location:
Origin Time 15:15: 6.1 0.7
Lat 52.51S 0.07 Lon 27.91E 0.13
Dep 15.0 FIX Half-duration 2.2

Principal Axes:
Scale 10**17 Nm
T Val= 2.87 Plg=25 Azm=165
N -0.77 12 70
P -2.11 62 317
Best Double Couple:Mo=2.5*10**17
NP1:Strike=279 Dip=23 Slip=-58
NP2: 66 71 -102

17 11 22 01.61 10.771S 161.271E 51km
4.8mb (8 obs.) 5.4Msz (8 obs.)
SOLOMON ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 35C

Centroid Location:
Origin Time 11:22: 4.5 0.6
Lat 11.09S 0.07 Lon 161.58E 0.07
Dep 15.0 FIX Half-duration 2.9

Principal Axes:
Scale 10**17 Nm
T Val= 6.94 Plg=56 Azm= 65
N -0.26 1 157
P -6.68 34 248
Best Double Couple:Mo=6.8*10**17
NP1:Strike=343 Dip=12 Slip= 97
NP2: 156 79 89

18 18 16 11.76 19.460S 175.666W 242km
5.2mb (32 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 29C
Centroid Location:
Origin Time 18:16:17.9 0.7
Lat 19.33S 0.08 Lon 175.60W 0.08
Dep 245.6 3.1 Half-duration 1.8

Principal Axes:
Scale 10**16 Nm
T Val= 10.64 Plg=47 Azm=136
N 0.27 27 13
P -10.91 30 266
Best Double Couple:Mo=1.1*10**17
NP1:Strike=305 Dip=29 Slip= 20
NP2: 198 81 117

19 06 47 43.03 54.744N 163.277E 42km
5.4mb (94 obs.) 5.2Msz (19 obs.)
OFF EAST COAST OF KAMCHATKA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 33C
Centroid Location:
Origin Time 06:47:44.4 0.5
Lat 54.92N 0.05 Lon 163.49E 0.07
Dep 36.3 5.1 Half-duration 2.0

Principal Axes:
Scale 10**17 Nm
T Val= 1.50 Plg=11 Azm=285
N 0.03 79 96
P -1.54 2 195
Best Double Couple:Mo=1.5*10**17
NP1:Strike=329 Dip=81 Slip= 174
NP2: 60 84 9

20 23 43 52.77 51.581N 174.413W 33km
5.2mb (48 obs.) 4.5Msz (1 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 23C
Centroid Location:
Origin Time 23:43:58.4 1.3
Lat 52.09N 0.15 Lon 174.37W 0.17
Dep 32.9 8.8 Half-duration 1.6

Principal Axes:
Scale 10**16 Nm
T Val= 6.75 Plg=58 Azm= 15
N 0.28 19 252
P -7.03 25 153
Best Double Couple:Mo=6.9*10**16
NP1:Strike=209 Dip=26 Slip= 44
NP2: 78 72 110

21 01 51 17.62 5.602S 130.788E 55km
5.3mb (23 obs.)
BANDA SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 26C
Centroid Location:
Origin Time 01:51:22.4 0.5
Lat 5.53S 0.04 Lon 131.08E 0.06
Dep 87.8 3.8 Half-duration 1.6

Principal Axes:
Scale 10**16 Nm
T Val= 9.34 Plg=73 Azm= 6
N 0.03 0 97
P -9.36 17 187
Best Double Couple:Mo=9.4*10**16
NP1:Strike=278 Dip=28 Slip= 91
NP2: 97 62 90

21 04 47 03.10 6.664S 129.815E 159km
5.4mb (34 obs.)
BANDA SEA
CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
L.P.B.: 12S, 30C
Centroid Location:
Origin Time 04:47: 2.4 0.7
Lat 7.10S 0.06 Lon 130.07E 0.04
Dep 177.0 1.8 Half-duration 2.5

Principal Axes:
Scale 10**17 Nm
T Val= 4.09 Plg=11 Azm=251
N -0.21 37 350
P -3.88 51 147
Best Double Couple:Mo=4.0*10**17
NP1:Strike=305 Dip=46 Slip=-146
NP2: 189 66 -49

21 11 26 36.62 20.608N 144.885E 118km
5.6mb (76 obs.)
MARIANA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 34C
Centroid Location:
Origin Time 11:26:41.4 0.2
Lat 20.55N 0.02 Lon 144.78E 0.03
Dep 113.3 1.6 Half-duration 3.5

Principal Axes:
Scale 10**17 Nm
T Val= 7.19 Plg=43 Azm= 88
N 2.44 6 352
P -9.63 46 255
Best Double Couple:Mo=8.4*10**17
NP1:Strike=248 Dip= 7 Slip= -13
NP2: 351 88 -96

21 20 37 03.54 6.008S 128.836E 268km
5.3mb (29 obs.)
BANDA SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 33C
Centroid Location:
Origin Time 20:37: 6.3 0.5
Lat 6.07S 0.03 Lon 129.19E 0.05
Dep 287.9 2.2 Half-duration 1.8

Principal Axes:
Scale 10**17 Nm
T Val= 1.29 Plg=65 Azm=259
N 0.71 22 106
P -2.00 10 12
Best Double Couple:Mo=1.6*10**17
NP1:Strike= 77 Dip=40 Slip= 53
NP2: 301 59 116

22 05 33 16.32 18.830S 175.736W 269km
5.2mb (35 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 30C
Centroid Location:
Origin Time 05:33:22.5 0.4
Lat 18.91S 0.04 Lon 175.60W 0.05
Dep 278.4 1.9 Half-duration 2.5

Principal Axes:
Scale 10**17 Nm
T Val= 2.82 Plg=65 Azm=116
N 0.86 5 14
P -3.68 25 282
Best Double Couple:Mo=3.3*10**17
NP1:Strike= 0 Dip=21 Slip= 75
NP2: 196 70 96

22 12 15 44.51 43.159N 146.479E 65km
5.4mb (68 obs.)
KURIL ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 21C
Centroid Location:
Origin Time 12:15:48.2 0.8
Lat 42.90N 0.07 Lon 146.40E 0.09
Dep 62.6 5.7 Half-duration 1.5

Principal Axes:
Scale 10**16 Nm
T Val= 8.43 Plg=33 Azm= 24
N 0.03 45 253
P -8.46 26 133
Best Double Couple:Mo=8.4*10**16
NP1:Strike=171 Dip=46 Slip= 6
NP2: 77 86 135

23 17 51 09.28 1.646N 126.531E 72km
5.6mb (35 obs.)

MOLUCCA PASSAGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 34C
Centroid Location:
Origin Time 17:51:13.6 0.6
Lat 2.23N 0.04 Lon 126.56E 0.05
Dep 55.2 3.5 Half-duration 3.2
Principal Axes:
Scale 10**17 Nm
T Val= 8.55 Plg=75 Azm=167
N 0.15 14 12
P -8.70 6 280
Best Double Couple:Mo=8.6*10**17
NP1:Strike=355 Dip=41 Slip= 69
NP2: 203 53 108

24 08 09 21.30 41.529N 79.318E 29km
5.9mb (75 obs.) 5.9Msz (12 obs.)
KIRGHIZ-XINJIANG BORDER REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 70 Dip=50 Slip= 90
NP2: 250 40 90
Principal Axes:
T Plg=85 Azm=340
P 5 160
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: 12
Principal Axes:
Scale 10**18 Nm
T Val= 1.17 Plg=64 Azm=213
N 0.00 24 56
P -1.17 9 322
Best Double Couple:Mo=1.2*10**18
NP1:Strike= 27 Dip=42 Slip= 53
NP2: 252 58 118
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 30C
Centroid Location:
Origin Time 08:09:24.3 0.3
Lat 41.26N 0.04 Lon 79.31E 0.04
Dep 15.0 BDY Half-duration 4.4
Principal Axes:
Scale 10**18 Nm
T Val= 1.96 Plg=78 Azm=261
N 0.01 12 76
P -1.97 1 166
Best Double Couple:Mo=2.0*10**18
NP1:Strike=268 Dip=45 Slip= 107
NP2: 65 47 74

25 10 31 22.84 3.054N 79.334W 13km
5.6mb (67 obs.) 5.2Msz (3 obs.)
SOUTH OF PANAMA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 31C
Centroid Location:
Origin Time 10:31:31.8 0.4
Lat 3.30N 0.04 Lon 79.31W 0.04
Dep 15.4 1.9 Half-duration 2.9
Principal Axes:
Scale 10**17 Nm
T Val= 5.65 Plg=14 Azm=303
N -1.03 10 35
P -4.63 73 159
Best Double Couple:Mo=5.1*10**17
NP1:Strike= 19 Dip=32 Slip=-109
NP2: 221 60 -79

26 23 11 33.47 6.373N 12.453E 10km
4.8mb (31 obs.) 4.8Msz (1 obs.)
CAMEROON
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 16C
Centroid Location:
Origin Time 23:11:52.9 3.6
Lat 7.85N 0.29 Lon 12.95E 0.34
Dep 15.0 FIX Half-duration 1.1
Principal Axes:
Scale 10**16 Nm
T Val= 2.67 Plg=65 Azm=321
N 0.21 13 201
P -2.87 21 106
Best Double Couple:Mo=2.8*10**16
NP1:Strike=174 Dip=27 Slip= 60

NP2: 27 67 104

27 07 06 51.99 32.154S 72.082W 35km
5.0mb (17 obs.) 5.4Msz (2 obs.)
OFF COAST OF CENTRAL CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 29C
Centroid Location:
Origin Time 07:06:55.8 0.3
Lat 32.35S 0.05 Lon 72.65W 0.06
Dep 15.0 FIX Half-duration 2.1
Principal Axes:
Scale 10**17 Nm
T Val= 2.15 Plg=59 Azm= 31
N 0.29 23 165
P -2.44 20 264
Best Double Couple:Mo=2.3*10**17
NP1:Strike= 28 Dip=32 Slip= 138
NP2: 156 69 65

28 09 12 49.30 1.180S 129.675E 17km
5.5mb (20 obs.) 5.5Msz (6 obs.)
HALMAHERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 28C
Centroid Location:
Origin Time 09:12:57.3 1.3
Lat 0.86S 0.09 Lon 129.82E 0.10
Dep 15.0 BDY Half-duration 3.0
Principal Axes:
Scale 10**17 Nm
T Val= 5.34 Plg= 5 Azm=309
N 1.32 49 45
P -6.66 41 215
Best Double Couple:Mo=6.0*10**17
NP1:Strike= 0 Dip=58 Slip=-152
NP2: 255 67 -35

28 20 14 37.54 61.090S 153.856E 10km
5.5mb (10 obs.) 5.5Msz (4 obs.)
BALLENY ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 38C
Centroid Location:
Origin Time 20:14:48.8 0.3
Lat 60.79S 0.03 Lon 153.08E 0.06
Dep 15.0 FIX Half-duration 3.4
Principal Axes:
Scale 10**17 Nm
T Val= 8.44 Plg= 6 Azm= 21
N -0.72 67 277
P -7.71 22 114
Best Double Couple:Mo=8.1*10**17
NP1:Strike=155 Dip=70 Slip= -12
NP2: 249 79 -160

29 02 43 47.66 1.265N 126.232E 48km
5.8mb (54 obs.) 5.9Msz (17 obs.)
MOLUCCA PASSAGE
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=205 Dip=65 Slip= 115
NP2: 337 35 48
Principal Axes:
T Plg=62 Azm=154
P 16 277
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting with a moderate strike-slip component. The preferred fault plane is not determined.
RADIATED ENERGY
No. of sta: 7 Focal mech. M
Energy 6.3*1.7*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 52 No. of sta: 13
Principal Axes:
Scale 10**18 Nm
T Val= 4.82 Plg=59 Azm=159
N 0.04 31 350
P -4.86 5 257
Best Double Couple:Mo=4.8*10**18
NP1:Strike=318 Dip=49 Slip= 47
NP2: 193 57 128
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 18C
Centroid Location:
Origin Time 02:43:50.5 0.3

Lat 1.25N FIX;Lon 126.23E FIX
Dep 47.2 3.1 Half-duration 5.8
Principal Axes:
Scale 10**18 Nm
T Val= 4.42 Plg=68 Azm=190
N 0.41 22 22
P -4.82 4 290
Best Double Couple:Mo=4.6*10**18
NP1:Strike=358 Dip=45 Slip= 58
NP2: 220 53 118

29 17 22 39.48 29.765S 71.208W 65km
5.4mb (23 obs.)
NEAR COAST OF CENTRAL CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 32C
Centroid Location:
Origin Time 17:22:49.1 0.2
Lat 29.81S 0.04 Lon 71.07W 0.05
Dep 65.9 5.7 Half-duration 1.9
Principal Axes:
Scale 10**17 Nm
T Val= 1.77 Plg=37 Azm= 95
N -0.53 3 2
P -1.24 53 268
Best Double Couple:Mo=1.5*10**17
NP1:Strike=206 Dip= 9 Slip= -66
NP2: 2 82 -94

30 22 29 42.09 60.063S 26.916W 48km
6.2mb (23 obs.) 7.0Msz (26 obs.)
SOUTH SANDWICH ISLANDS REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 3 Dip=70 Slip= 90
NP2: 183 20 90
Principal Axes:
T Plg=65 Azm=273
P 25 93
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 4 No. of sta: 7
Principal Axes:
Scale 10**19 Nm
T Val= 3.98 Plg=55 Azm=291
N -0.32 23 165
P -3.66 25 63
Best Double Couple:Mo=3.8*10**19
NP1:Strike=114 Dip=29 Slip= 36
NP2: 352 74 114
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN, IDA
L.P.B.: 16S, 41C M.W.: 11S, 21C
Centroid Location:
Origin Time 22:29:50.6 0.1
Lat 60.72S 0.02 Lon 26.76W 0.03
Dep 15.0 FIX Half-duration 11.4
Principal Axes:
Scale 10**19 Nm
T Val= 3.33 Plg=58 Azm=275
N 0.03 9 20
P -3.36 31 115
Best Double Couple:Mo=3.3*10**19
NP1:Strike=232 Dip=16 Slip= 123
NP2: 18 76 81

31 04 40 16.59 60.090S 26.477W 33km
5.4mb (6 obs.)
SOUTH SANDWICH ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 20C
Centroid Location:
Origin Time 04:40:23.2 0.9
Lat 60.89S 0.09 Lon 27.14W 0.25
Dep 46.410.2 Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.48 Plg=22 Azm=246
N 0.13 67 55
P -1.61 4 155
Best Double Couple:Mo=1.5*10**17
NP1:Strike=288 Dip=72 Slip= 167
NP2: 23 77 19

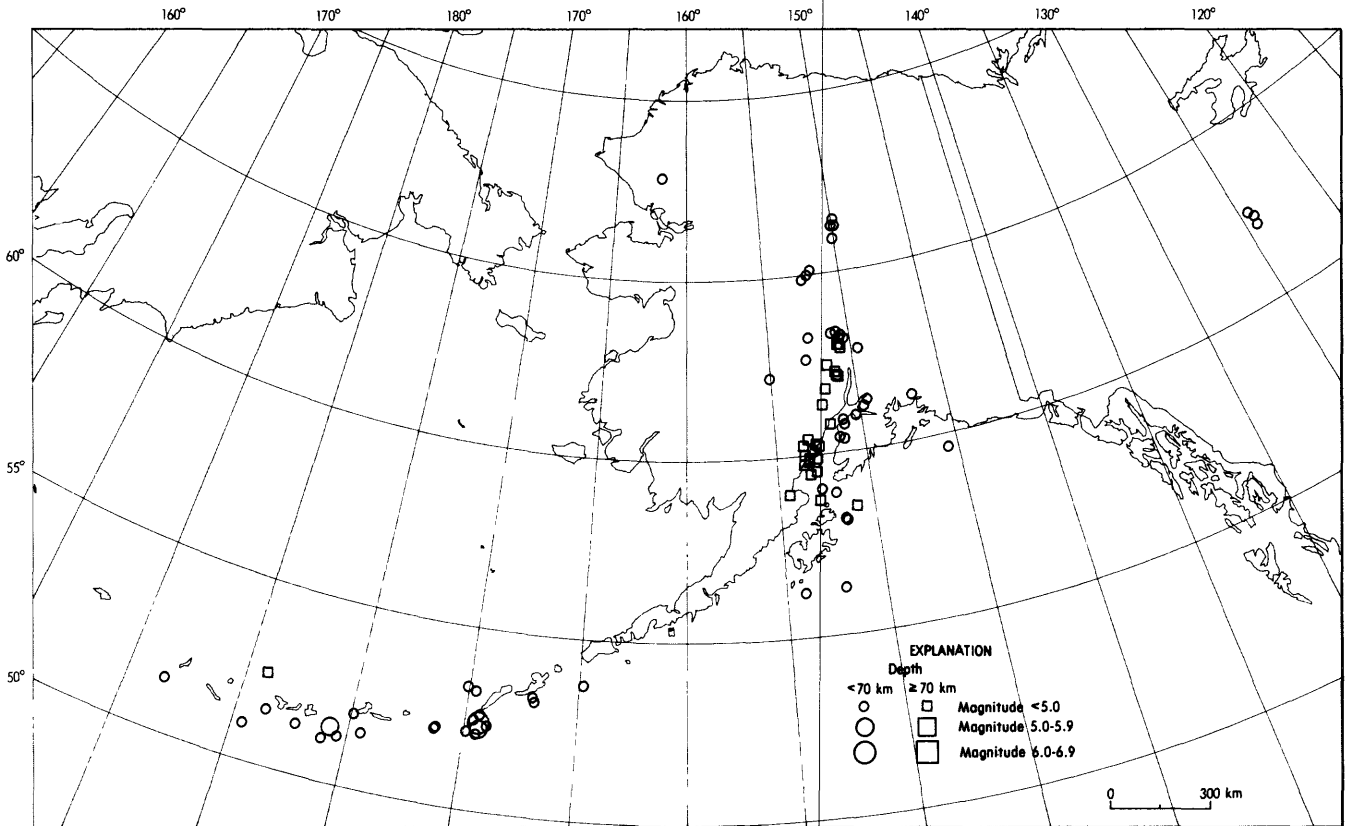
31 06 26 17.65 18.036S 178.461W 586km
5.3mb (35 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
 L.P.B.: 12S, 20C
 Centroid Location:
 Origin Time 06:26:25.5 1.2
 Lat 17.58S 0.15 Lon 178.95W 0.12
 Dep 592.2 7.1 Half-duration 1.7
 Principal Axes:
 Scale 10^{+16} Nm
 T Val= 13.74 Plg=52 Azm=353
 N -2.06 35 147
 P -11.68 13 246
 Best Double Couple: $M_0=1.3 \cdot 10^{+17}$
 NP1: Strike= 12 Dip=44 Slip= 145
 NP2: 129 66 51

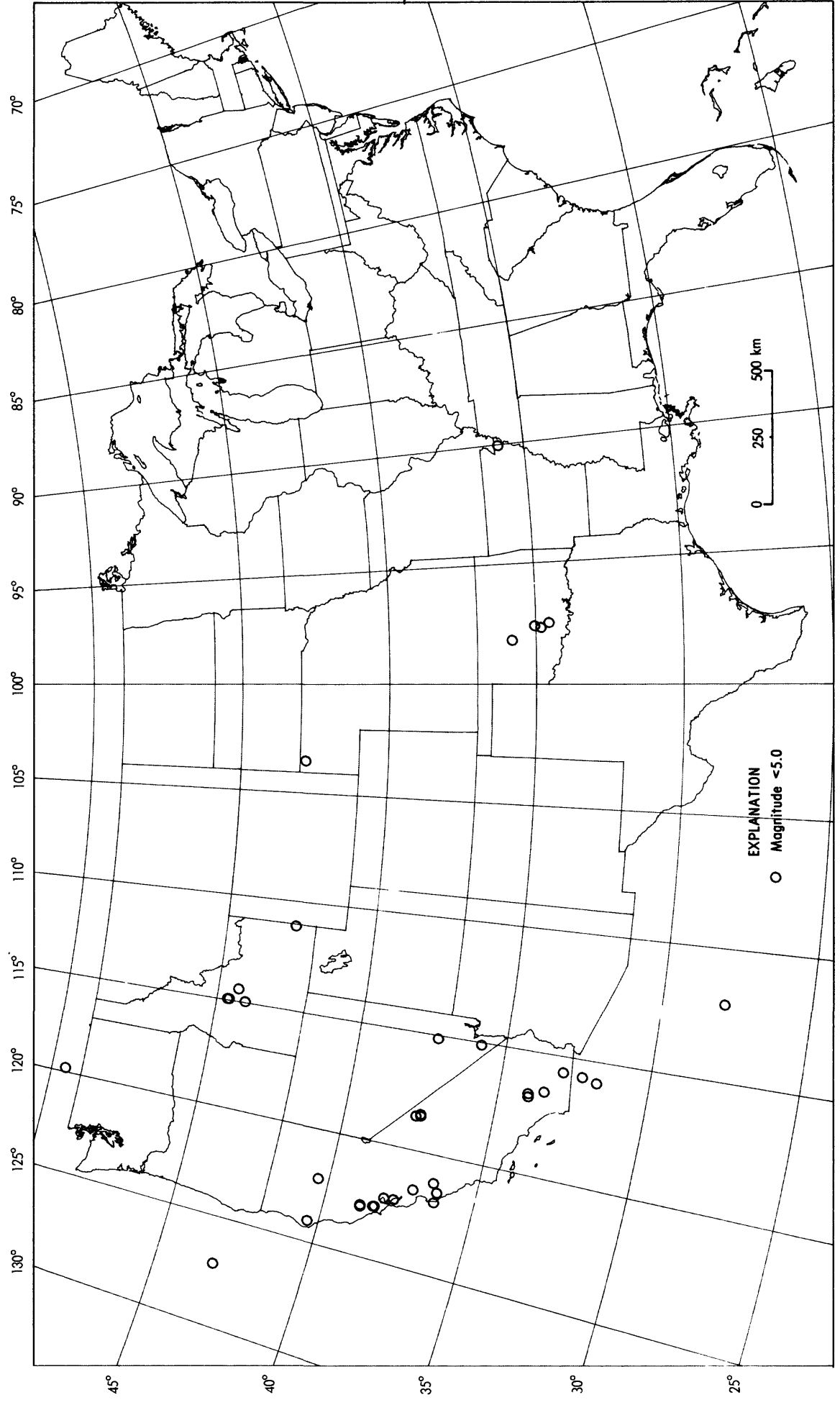
Dep 15.0 FIX Half-duration 1.8
 Principal Axes:
 Scale 10^{+17} Nm
 T Val= 1.48 Plg=50; Azm=266
 N -0.06 16 16
 P -1.41 35 118
 Best Double Couple: $M_0=1.4 \cdot 10^{+17}$
 NP1: Strike=259 Dip=18 Slip= 154
 NP2: 14 82 74

31 08 43 44.10 60.079S 26.461W 31km
 5.2mb (6 abs.) 5.0Msz (2 abs.)
 SOUTH SANDWICH ISLANDS REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 14S, 30C
 Centroid Location:
 Origin Time 08:43:49.0 0.7
 Lat 60.28S 0.12 Lon 26.63W 0.23

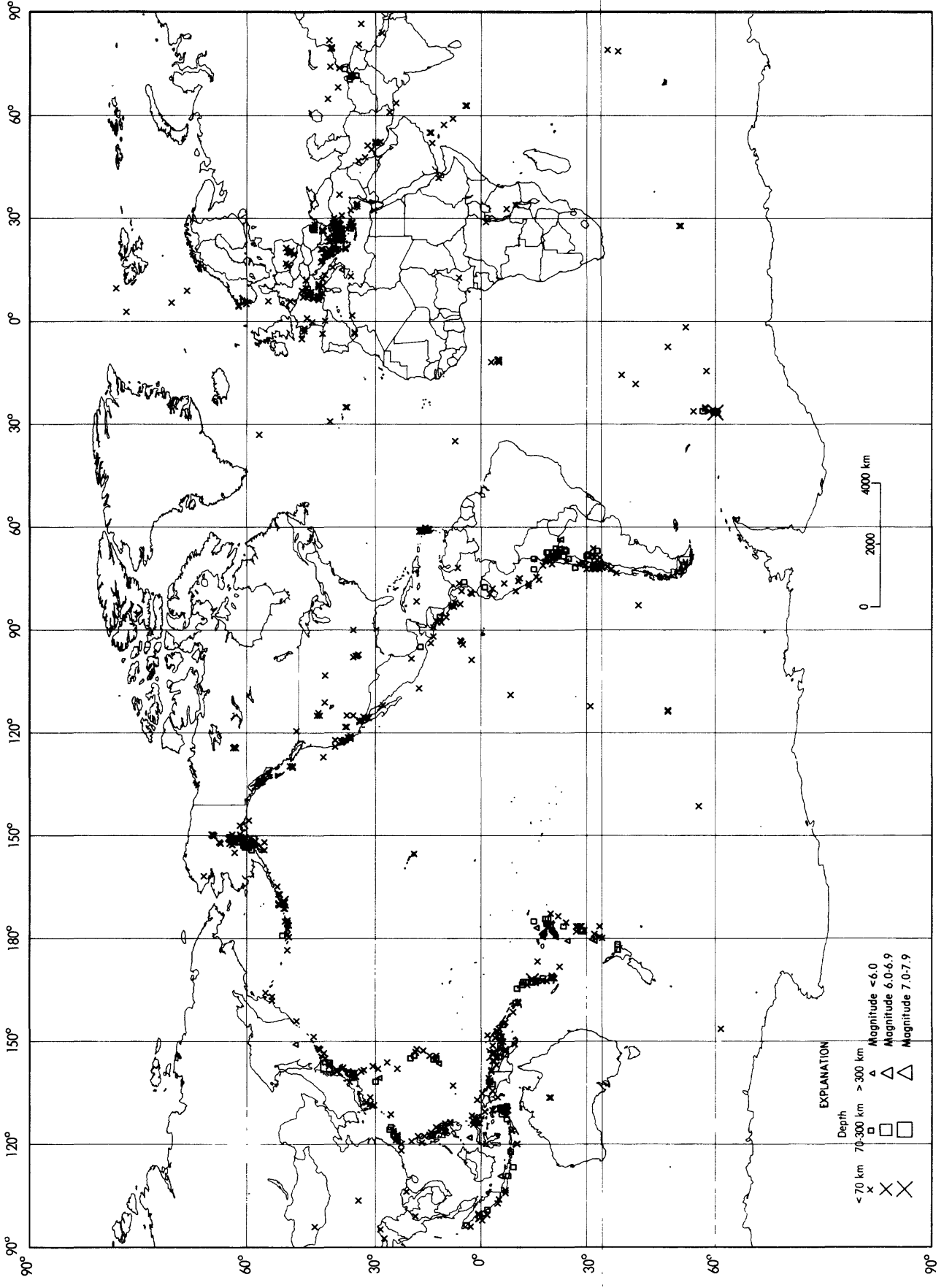
Compiled by Willis S. Jacobs, Leonard E. Kerry, Jahn H. Minsch, Russell E. Needham, Waverly J. Person,
 Bruce W. Presgrave and William H. Schmieder.



Earthquake epicenters in Alaska and adjacent regions for January, 1987 (C. Stover).

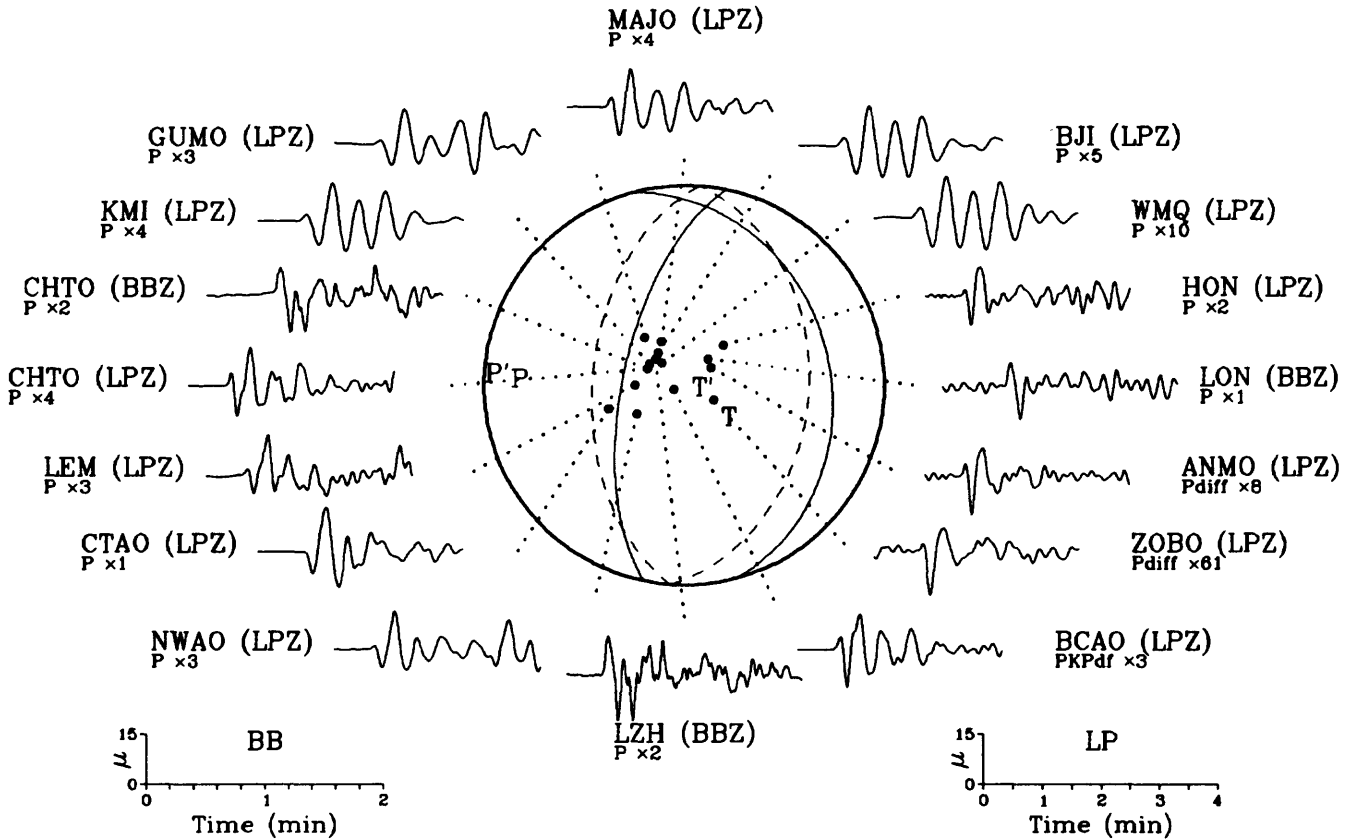


Earthquake epicenters in the conterminous United States and adjacent regions for January, 1987 (C. Stover).

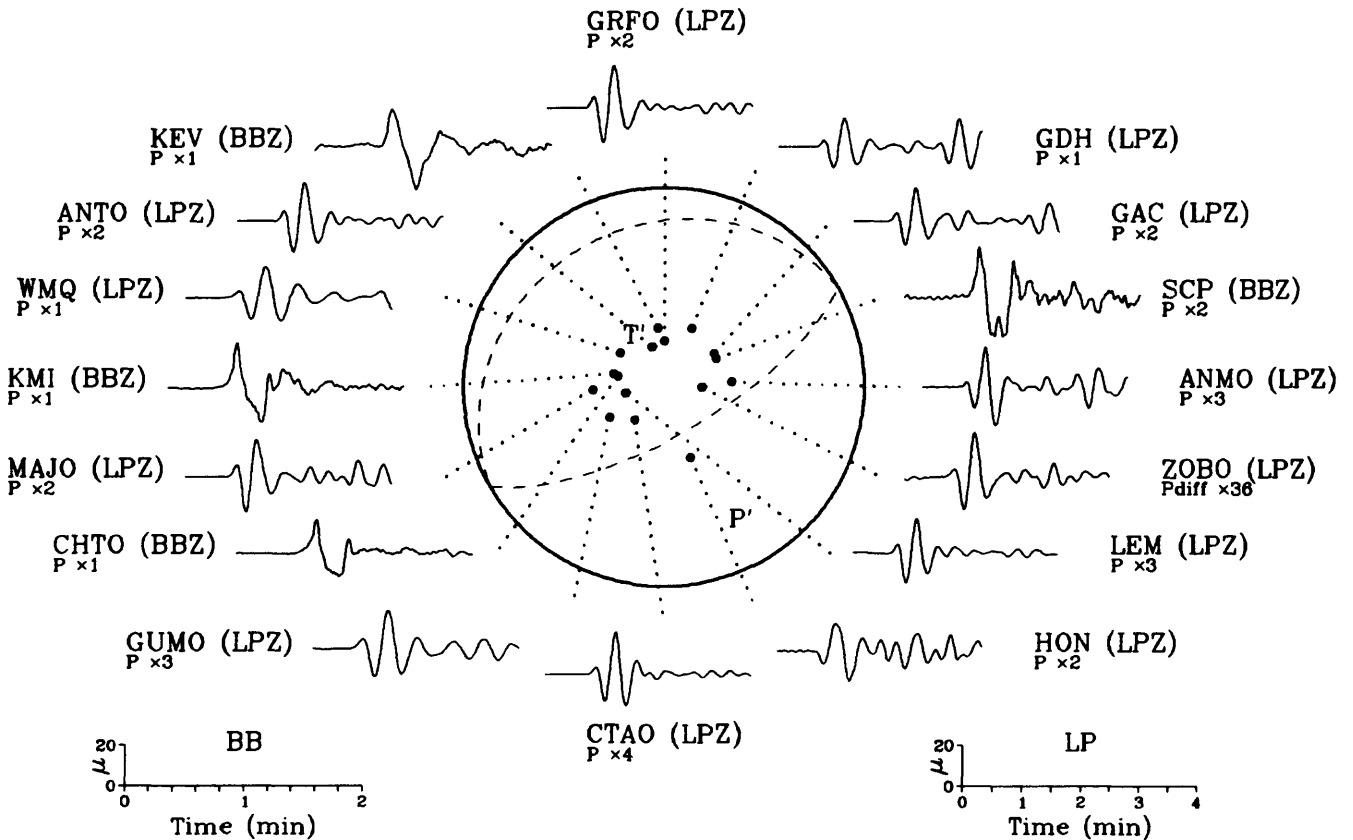


Earthquakes located in January, 1987 (C. Stover).

03 January 1987 22:04:04.83
Vanuatu Islands

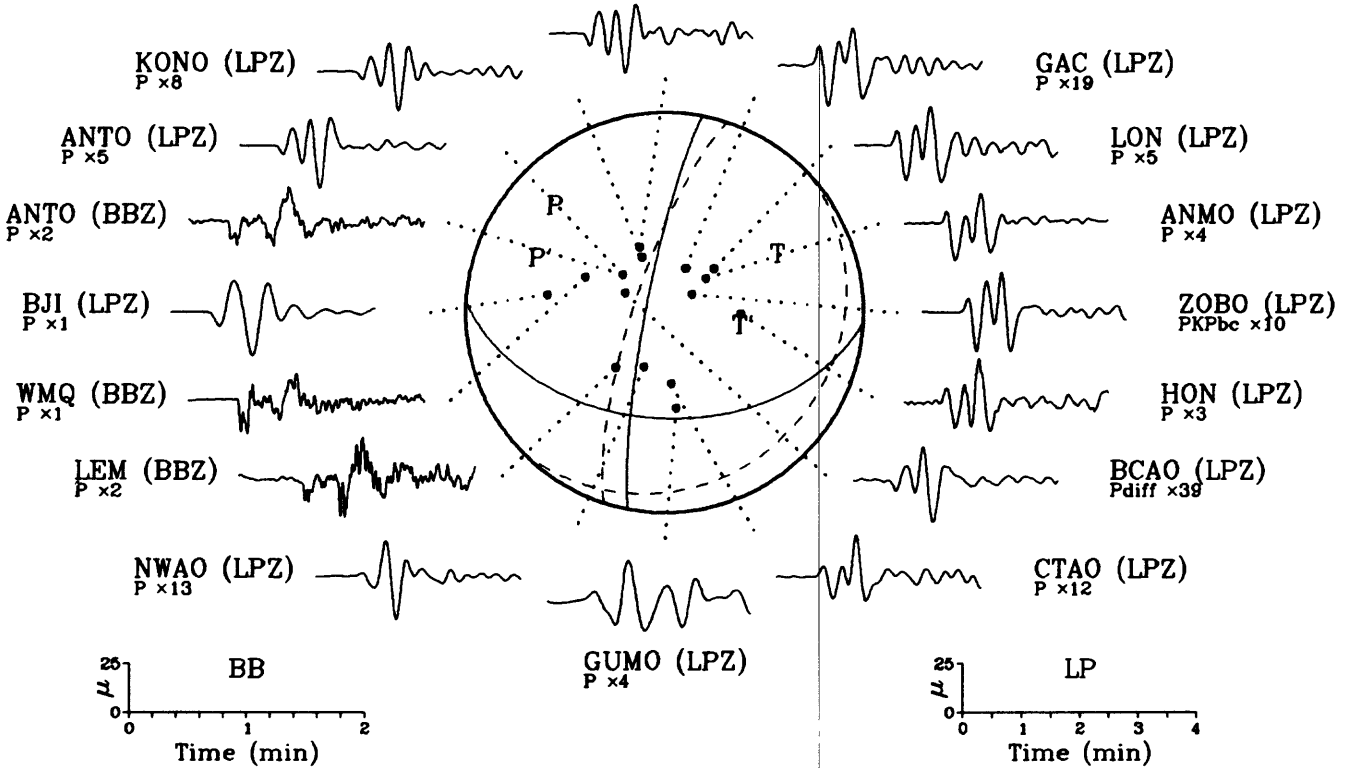


05 January 1987 12:11:55.77
Fox Islands, Aleutian Islands



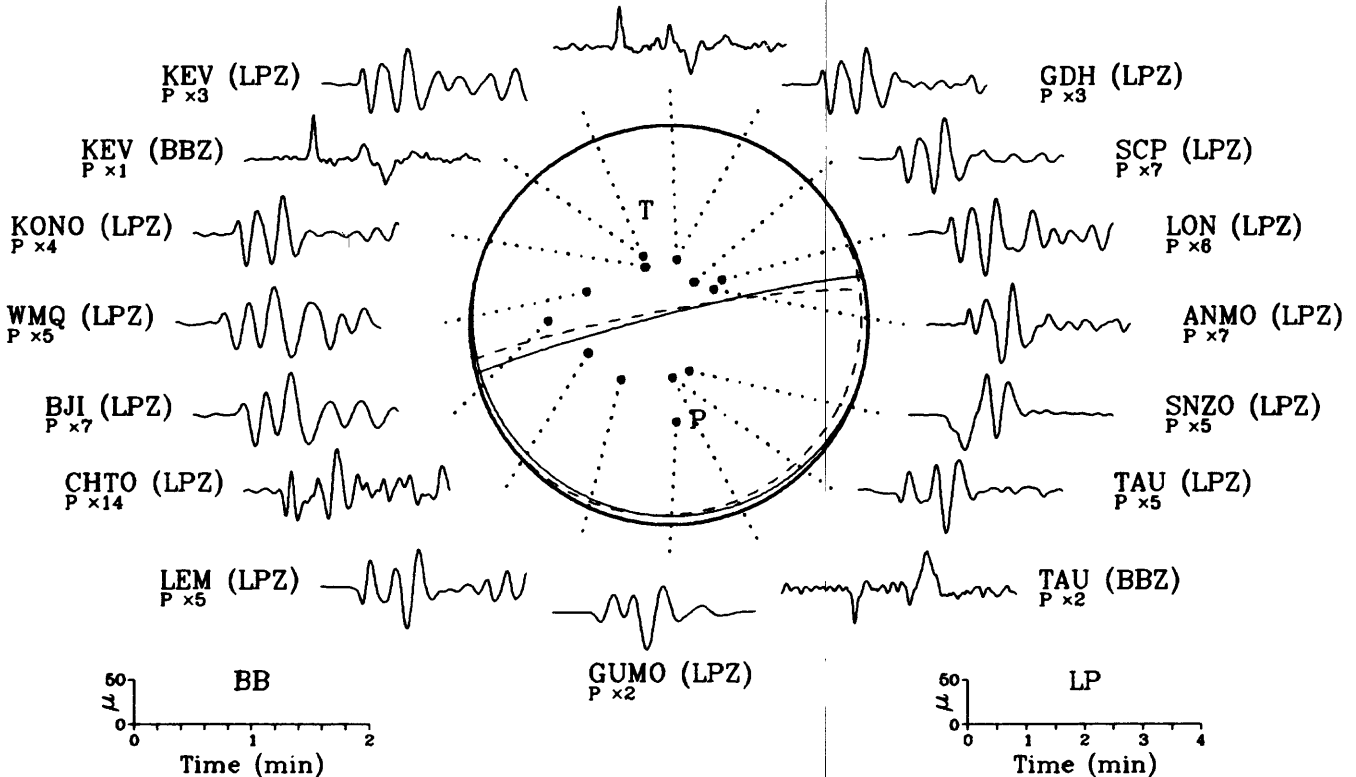
09 January 1987 06:14:44.87
Honshu, Japan

KEV (LPZ)
P x8

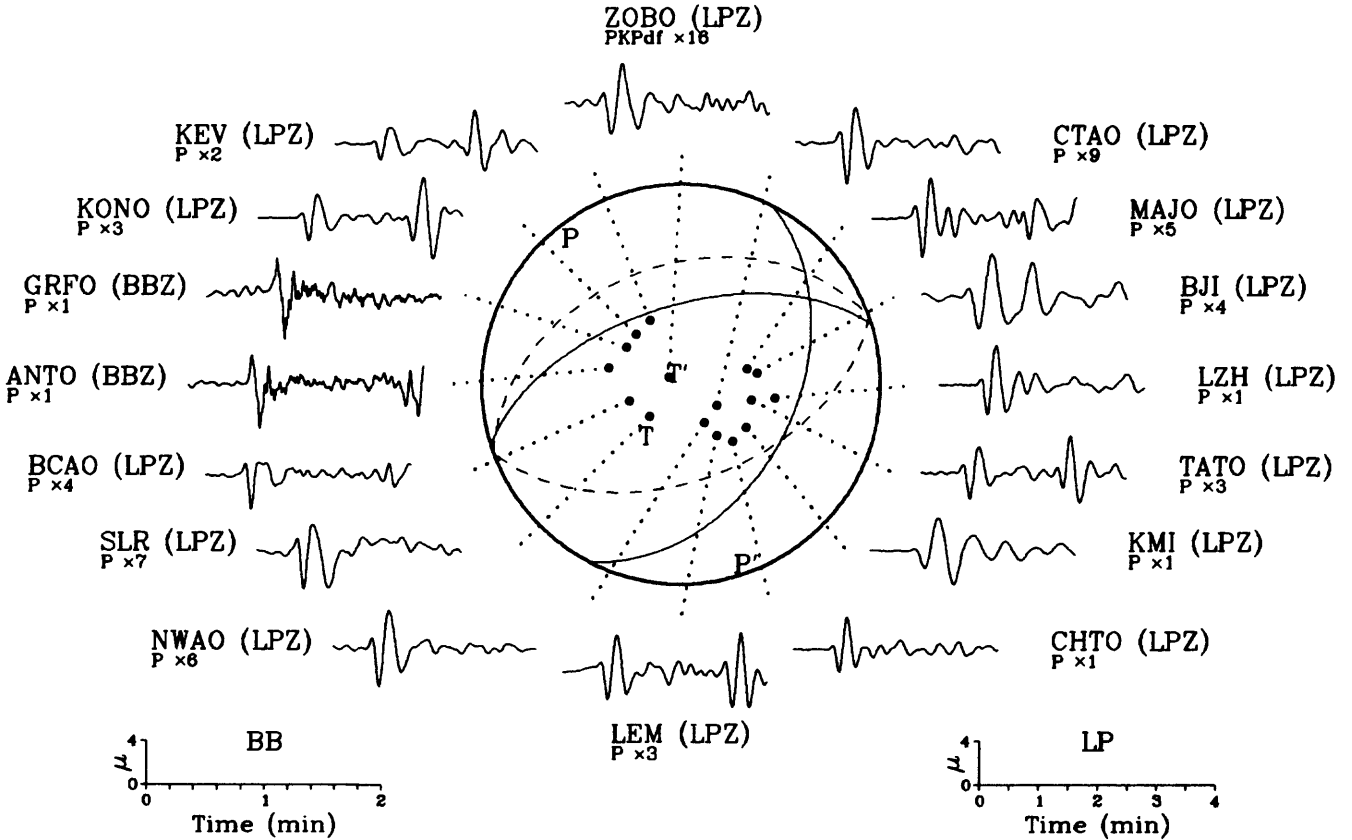


14 January 1987 11:03:48.75
Hokkaido, Japan Region

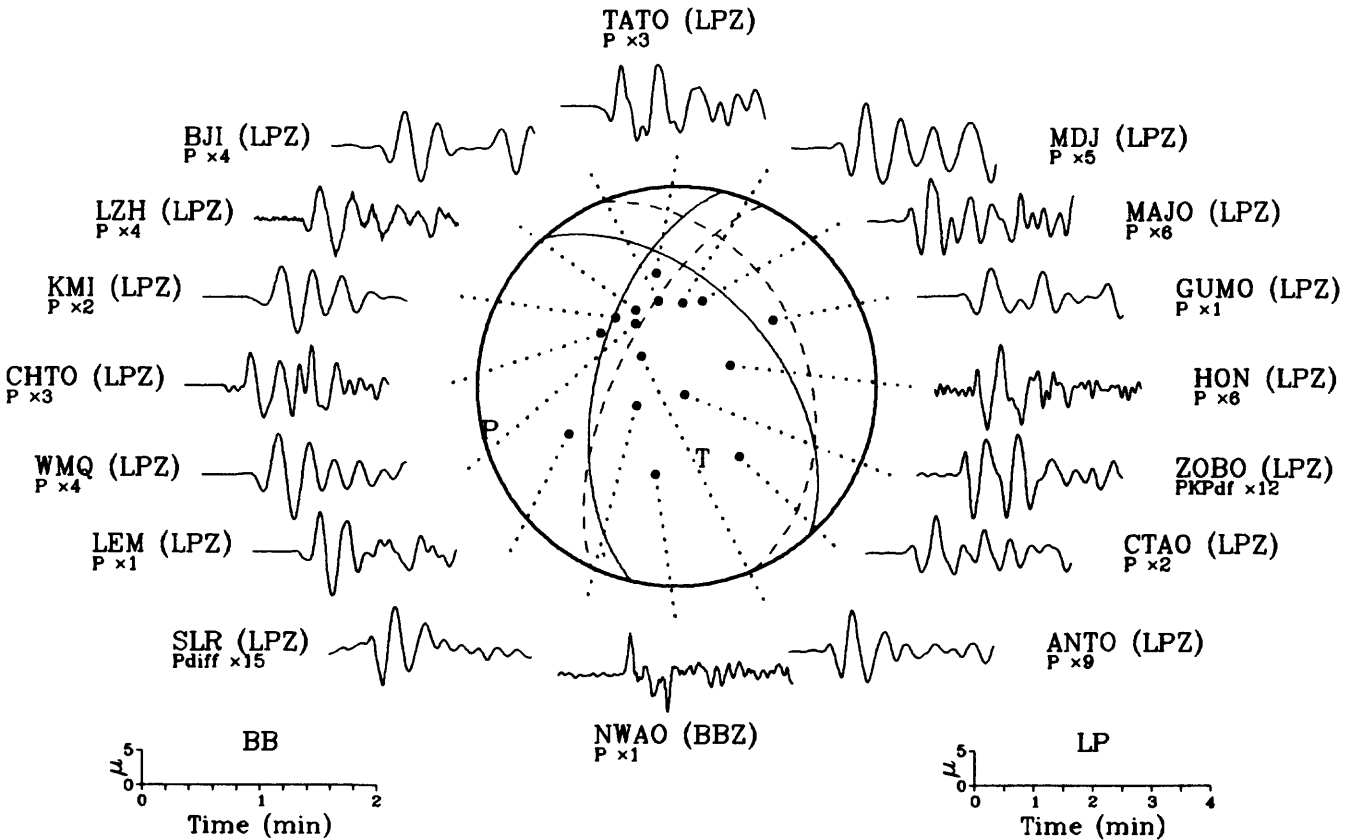
GDH (BBZ)
P x1



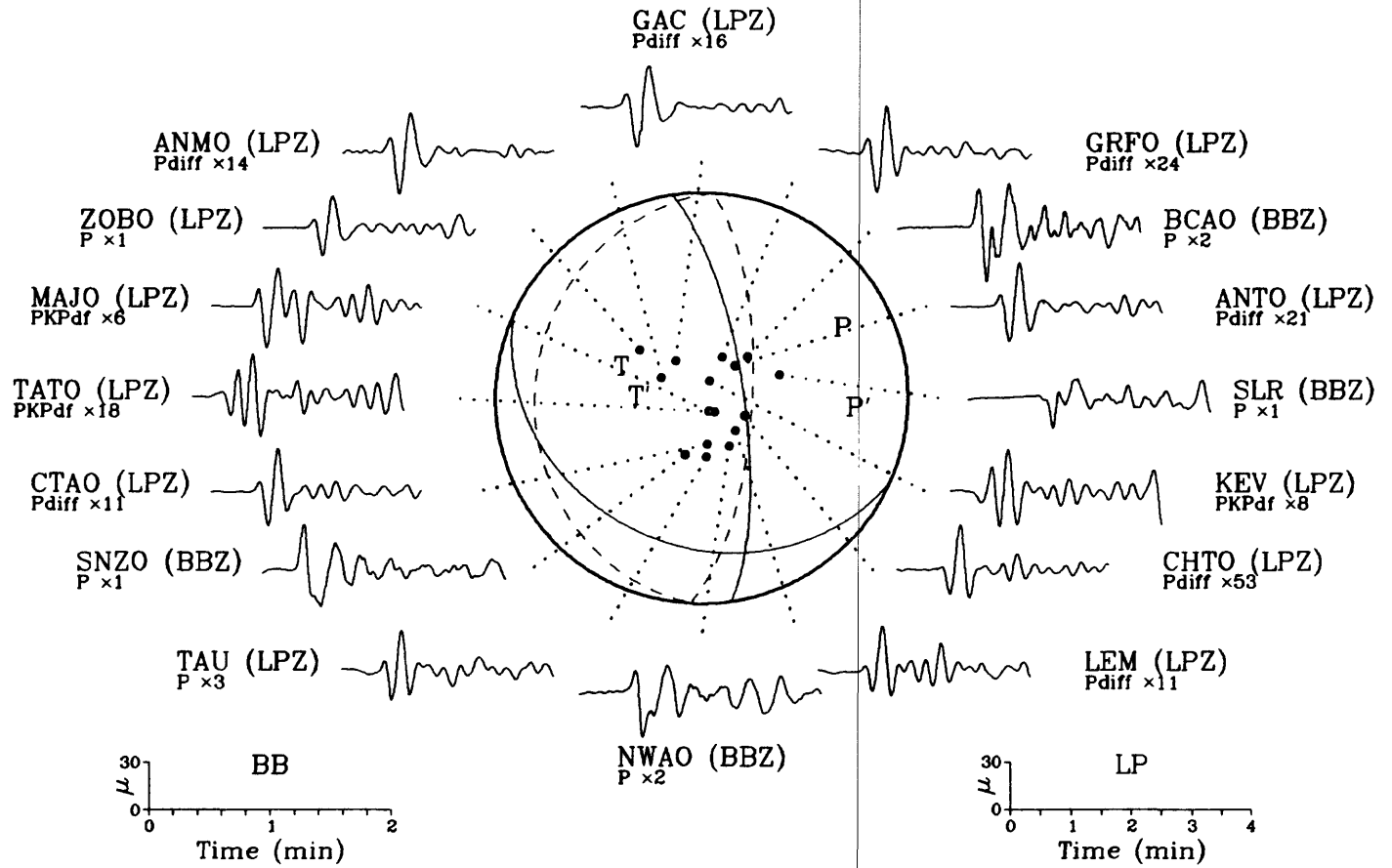
24 January 1987 08:09:21.30
Kirghiz-Xinjiang Border Region



29 January 1987 02:43:47.66
Molucca Passage



30 January 1987 22:29:42.09
South Sandwich Islands Region



EXPLANATION OF ABBREVIATIONS AND SYMBOLS APPEARING IN THIS PUBLICATION

Abbreviations in Heading

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

Symbols and Abbreviations Used in Comments

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

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

Symbols Following Depth

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

Symbols Following Origin Time

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

COMPARISON OF RATINGS OF INTENSITY SCALES APPEARING IN PRELIMINARY DETERMINATION OF EPICENTERS

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

TRAVEL-TIME TABLES

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

MACROSEISMIC INFORMATION

Macroseismic information is compiled from various sources, including newspaper articles, Foreign Broadcast Information Service messages, U.S. Geological Survey Earthquake Reports and seismological station reports.

DEPTHS FROM BROADBAND DISPLACEMENT SEISMOGRAMS

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

Choy, G. L. and Bootwright, J., 1981, The rupture characteristics of two deep earthquakes inferred from broadband GDSN data: Bulletin of the Seismological Society of America, v. 71, p. 691-711.

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

FAULT PLANE SOLUTIONS

A fault plane solution is determined when possible for any earthquake having a magnitude ≥ 5.8 . A description of this solution is reported in the comments on the Preliminary Determination of Epicenters Monthly Listing. Focal sphere solutions and first motion parameters are available upon request from: National Earthquake Information Service, U.S. Geological Survey, Stop 967, Box 25046, Denver Federal Center, Denver, CO 80225.

NEIS MAGNITUDES

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

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

$$M_s = \text{Log } (A/T) + 1.66 \text{ Log } D + 3.3$$

where:

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

T is the period in seconds.

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

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

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

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

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

$$M_B = \text{Log } (A/T) + Q(D,h)$$

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

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

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

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

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

ML These local magnitudes are computed according to the formula:

$$M_L = \text{Log } A - \text{Log } A_0$$

defined by Richter (1935) where A is the maximum trace amplitude in micrometers recorded on a standard short-period torsion seismometer and Log A₀ is a standard value as a function of distance where distance ≤ 600 km.

CONTRIBUTED MAGNITUDES

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

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

REFERENCES

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

WAVEFORM PLOTS

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

Each waveform will be identified by station code, data type, phase name and scale factor. The data type indicated by LP will be from the long-period channel at the designated station. Each LP waveform will be comprised of approximately one-half minute of noise followed by three minutes of signal. Time and amplitude are referenced to a set of axes shown in the lower right hand corner of each plot. The scale factor is an integer from which absolute amplitude, in micrometers of ground displacement at the dominant period of the pass-band (25 s), may be determined. Absolute amplitude may be recovered by measuring the amplitude of the seismogram relative to the amplitude axis and dividing it by the scale factor. Other data types are indicated by IP (intermediate-period channel), SP (short-period channel), and BB (broad-band displacement). As these types of data have a different pass-band than LP data, different time and amplitude scales than those used for LP data will generally be needed. These scales will be shown in the lower left hand corner of each plot. As with the LP waveforms, the absolute amplitudes of the other data types may be recovered from the amplitude scale and the scale factor. For IP data, the absolute amplitude is referenced to 10 seconds. For SP data, the absolute amplitude is referenced to the dominant period of the pass-band (1 s). BB data are directly proportional to displacement from 0.01 Hz to at least 2 Hz. In addition, each component will be identified by a direction indicator (ie. N, E, Z, R and T for north-south, east-west, vertical, radial, and transverse, respectively). Note that the dominant period approximation will not be valid for IP data. However, the scaling will still be correct.

Waveforms will primarily be selected to display variations in the P waveform as a function of azimuth. If space permits, some PKP waveforms may be shown as well. To this end, waveforms which are clipped, non-linear, or very noisy will be rejected. Further, only one of several stations at similar distance and azimuth may be used if all show similar waveforms. Note that the importance of a record in focal parameter derivation will not be considered. Thus, many seismograms will be shown which have not been used in the USGS moment tensor solution. Conversely, records which have been important in constraining one or both solutions may have been passed over for lack of space. The data are derived from the U.S.G.S. Global Digital Seismograph Network (GDSN) and from data contributed by other organizations for distribution on either the Network Day Tapes or Event Tapes. For details on data sources, see the National Earthquake Information Center Newsletter.

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

USGS RADIATED ENERGY

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

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

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

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

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

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

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

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

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

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

These solutions have been determined using the long period body and mantle wave moment tensor inversion method described by Dziewonski, et al. (1981) considering corrections due to an aspherical earth structure of model M84C (Woodhouse and Dziewonski, 1984).

1. DATA USED; currently both GDSN and IDA data are used. The numbers following the entries L. P. BODY WAVES and MANTLE WAVES indicate the number of stations (S), total number of records (C) and T is the cut-off period of the low pass filter for each of the subsets of data. Mantle waves are routinely used in inversion for sources with moments greater than 10^{19} Newton-meters (Nm).
2. CENTROID LOCATION; hypocentral parameters obtained by adding perturbations resulting from inversion to the parameters reported in the PDE; standard errors follow the individual entries. If a given parameter is not perturbed in inversion, this is indicated by the letters FIX. If the depth is fixed to be consistent with waveform matching of reconstructed broad-band body waves, this is indicated by the letters BDY. The default depth for shallow earthquakes is increased to 15 km. in order to improve the stability of solutions; it was 10 km. in 1981-1985.
3. MOMENT TENSOR. The scale factor (e.g., 10^{20} Nm) is the number by which all subsequent entries related to values of the moment should be multiplied. For the moment tensor we give components in a spherical coordinate system: $MRR = M_{rr}$; $MTT = M_{\theta\theta}$; $MFF = M_{\phi\phi}$; $MRT = M_{r\theta}$; $MRF = M_{r\phi}$; $MTF = M_{\theta\phi}$. In another frequently used notation: $MRR = M_{zz}$; $MTT = M_{xx}$; $MFF = M_{yy}$; $MRT = M_{xz}$; $MRF = -M_{yz}$; $MTF = -M_{xy}$ (see Aki and Richards, 1980, p. 118). The solutions are constrained to have $MRR + MTT + MFF = 0$. The values following the entries for the elements of the moment tensor and centroid co-ordinates are standard errors, calculated under the usual assumption of uncorrelated errors in the data. The lateral heterogeneity of the Earth, however, clearly leads to systematic errors, and so the errors listed probably underestimate the true error in the solution.
4. PRINCIPAL AXES; rotation of the moment tensor into the principal axes system. Most of the solutions are predominantly of the double couple type: the largest positive eigenvalue corresponds to the tension axis (T); the usually small, intermediate eigenvalue is associated with the null axis (N); the smallest negative eigenvalue is identified with the compression axis (P). PLG are the plunges and AZM the azimuths of the axes.
5. BEST DOUBLE COUPLE. If the eigenvalue (T) is σ_1 and (P) is $-\sigma_2$, then the scalar seismic moment is defined as $M_0 = 1/2(\sigma_1 + \sigma_2)$. The strike, dip and slip of the first (NP1) and second (NP2) nodal planes are calculated from the directions of the P, T, and N axes. The remainder is a linear-vector dipole (Knapoff and Randall, 1970); in most cases the magnitude of LVD is small. Although all such decompositions are highly non-unique, this particular one is the best in estimating the starting solution for the non-linear, constrained double couple inverse problem. The angles strike, dip, and slip are defined using the convention of Aki and Richards (1980, p. 106) and are the angles designated there as ϕ_s, δ, λ , respectively.

A. M. Dziewonski, G. Ekstrom, J. Franzen, D. Giardini and J. H. Woodhouse, Department of Geological Sciences, Harvard University, Cambridge, MA 02138

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

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

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

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

BERKELEY MOMENT

The seismic moment (M_0) contributed by the University of California, Berkeley (BRK), is given for regional earthquakes based on Wood-Anderson torsion seismograms recorded within 300 km of the epicenter with peak-to-peak amplitudes of at least 3 mm. This seismic moment (M_0) in dyne-cm is defined by $\text{Log } M_0 = 16.74 + 1.22 \text{Log}(CD_{-})$, where C is the maximum peak-to-peak amplitude in mm, D is the duration in seconds from the time of the S-wave onset to the last time that the peak-to-peak amplitude exceeds C/3, and $_{-}$ is the epicentral distance in km. Seismic moments quoted in "Preliminary Determination of Epicenters" are converted to Newton-meters (1 Newton-meter = 10^{7} dyne-cm).

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

CHANGE OF ADDRESS FORM

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

Mail this form to: **NEW ADDRESS**

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

Attach last subscription label here.

SUBSCRIPTION ORDER FORM

SUBSCRIPTION ORDER FORM
ENTER MY SUBSCRIPTION TO:

@ \$ Domestic; @ \$ Foreign.

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

- Remittance Enclosed (Make checks payable to Superintendent of Documents)
- Charge to my Deposit Account No.

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



PRELIMINARY DETERMINATION OF EPICENTERS

MONTHLY LISTING

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

F E B R U A R Y 1 9 8 7

K E Y	ORIGIN TIME			GEOGRAPHIC COORDINATES		DEPTH	MAGNITUDES		SD	NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
	UTC HR MN SEC	LAT	LONG	GS MB	Msz						
01	01 43 26.67	35.58 N	27.24 E	33 N					0.6	5	DODECANESE ISLANDS
01	02 07 35.3*	40.417 N	24.053 E	10 G					0.7	6	AEGEAN SEA
01	02 08 33.2	22.546 S	68.424 W	117 D			4.8		1.1	37	NORTHERN CHILE
01	02 59 25.6	2.679 S	138.805 E	62 *			5.1		1.1	53	WEST IRIAN
01	04 11 40.0	52.961 N	158.738 E	159 D			4.8		1.0	110	NEAR EAST COAST OF KAMCHATKA
01	04 27 32.97	35.81 N	27.50 E	33 N					0.5	5	DODECANESE ISLANDS
01	05 35 36.6	37.834 N	21.994 E	36			4.4		1.3	84	SOUTHERN GREECE. ML 4.7 (ATH). Felt in the Pargos area.
01	06 28 39.3*	31.087 N	131.350 E	60 *			4.3		0.7	6	KYUSHU, JAPAN
01	06 52 42.7*	13.917 N	120.915 E	216			4.6		1.2	13	MINDORO, PHILIPPINE ISLANDS
a 01	06 56 01.3	0.114 S	17.789 W	10 G			5.5 5.2		1.0	162	NORTH OF ASCENSION ISLAND
01	08 26 48.4&	62.088 N	149.574 W	53						31	CENTRAL ALASKA. <AGS-P>.
01	08 52 44.8	44.204 N	17.770 E	18 *					1.4	30	YUGOSLAVIA. ML 3.6 (TTG), 3.6 (KBA). Felt in the Travnik area.
01	09 08 14.9	24.107 N	122.485 E	40			5.2 4.7		1.0	97	TAIWAN REGION
01	10 54 56.5*	43.821 N	20.434 E	10 G					0.9	6	YUGOSLAVIA. ML 2.4 (TTG).
01	11 22 03.87	7.20 S	114.12 E	33 N					0.2	5	BALI SEA
01	12 36 38.2*	56.839 N	7.698 E	10 G					1.2	10	NORTH SEA. MD 2.7 (BER).
01	14 51 51.3&	37.717 N	122.525 W	9						10	CENTRAL CALIFORNIA. <BRK>. ML 3.0 (BRK). Mo=3.0*10**13 Nm (BRK). Felt (III) at San Francisco.
01	16 13 47.9*	51.232 N	15.990 E	10 G					0.3	8	POLAND. ML 3.2 (GRF), 2.8 (KBA).
01	16 48 04.2*	36.060 N	28.127 E	33 N					1.4	7	DODECANESE ISLANDS
01	17 16 43.47	32.24 S	71.68 W	10 G					0.4	7	NEAR COAST OF CENTRAL CHILE
01	17 37 33.2&	59.911 N	153.446 W	124						28	SOUTHERN ALASKA. <AGS-P>.
01	17 53 19.0&	37.710 N	122.515 W	9						18	CENTRAL CALIFORNIA. <BRK>. ML 3.5 (BRK). Mo=1.1*10**14 Nm (BRK). Felt (IV) at Millbrae and (III) at San Anselmo. Also felt at San Francisco.
01	18 02 18.7	36.262 N	28.008 E	33 N			4.2		1.0	10	DODECANESE ISLANDS
01	18 22 46.2*	60.142 S	26.754 W	33 N			4.2		0.9	15	SOUTH SANDWICH ISLANDS REGION
01	18 26 44.2	17.060 N	93.577 W	168			4.6		1.0	79	CHIAPAS, MEXICO
01	19 42 21.2	36.113 N	28.131 E	25			4.3 3.6		1.4	59	DODECANESE ISLANDS. ML 4.3 (ATH).
01	20 15 56.87	32.71 S	71.16 W	10 G					1.0	10	NEAR COAST OF CENTRAL CHILE
01	20 21 48.3	19.129 N	121.278 E	39			5.0 4.3		1.0	71	PHILIPPINE ISLANDS REGION
01	20 54 58.5*	57.947 S	25.429 W	33 N			5.0		1.0	37	SOUTH SANDWICH ISLANDS REGION
02	01 19 44.47	23.78 S	67.14 W	204 ?					0.5	5	CHILE-ARGENTINA BORDER REGION
02	01 32 56.67	40.662 N	29.893 E	10 G					0.9	7	TURKEY
02	01 57 12.8&	40.608 N	124.443 W	23						9	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.7 (BRK).
02	02 58 22.37	44.12 N	17.89 E	10 G					0.7	5	YUGOSLAVIA
02	04 16 18.6	34.872 N	23.938 E	68 *			4.3		1.1	39	CRETE
02	04 45 01.3&	35.903 N	120.450 W	2						13	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
02	06 15 08.97	39.952 N	28.969 E	10 G					1.0	6	TURKEY
02	06 29 56.2	5.697 S	154.068 E	36 *			5.4 3.9		0.9	35	SOLOMON ISLANDS
02	06 55 58.7	41.275 N	141.951 E	41			4.8		1.0	35	HOKKAIDO, JAPAN REGION. Felt (I JMA) at Muroran. Also felt (I JMA) at Hachinohe, Honshu.
02	08 14 09.2*	16.202 S	173.532 E	33 N			4.9		1.2	27	FIJI ISLANDS REGION
02	09 14 03.17	35.15 N	140.12 E	89 ?					0.6	7	NEAR EAST COAST OF HONSHU, JAPAN
02	10 27 03.9&	62.432 N	151.434 W	95						40	CENTRAL ALASKA. <AGS-P>.
02	11 29 36.9*	16.303 S	173.481 E	33 N			4.8		1.3	38	FIJI ISLANDS REGION
02	12 57 15.9*	6.816 N	123.843 E	602 *			4.7		0.9	17	MINDANAO, PHILIPPINE ISLANDS
02	13 17 04.4	42.501 N	21.588 E	10 G					0.8	39	YUGOSLAVIA. ML 3.5 (SKO), 3.5 (TTG). Felt (V) in the Kosovska Komenico-Novo Brdo region.
02	16 08 43.7	37.776 N	14.755 E	33 N			4.3		1.2	66	SICILY
02	16 25 30.5	6.764 N	123.791 E	606 *			4.8		1.0	25	MINDANAO, PHILIPPINE ISLANDS
02	17 11 38.9*	6.955 S	154.923 E	42 *			4.3		0.6	8	SOLOMON ISLANDS
02	18 05 48.37	16.08 N	98.58 W	33 N			4.2		1.1	12	NEAR COAST OF GUERRERO, MEXICO
02	18 13 01.0*	38.752 N	75.749 E	73 *			4.1		1.0	6	SOUTHERN XINJIANG, CHINA
02	18 23 09.27	44.536 N	7.242 E	10 G					0.2	6	NORTHERN ITALY. ML 2.1 (LDG).
02	18 41 08.4*	16.579 N	98.517 W	33 N			4.6		1.1	28	NEAR COAST OF GUERRERO, MEXICO
02	19 22 04.8*	16.537 N	98.476 W	33 N			5.3		1.2	38	NEAR COAST OF GUERRERO, MEXICO

02	19 32 20.3*	54.008 N	163.033 E	33 N	4.9	4.4	0.9	25	OFF EAST COAST OF KAMCHATKA
02	19 34 59.2*	24.440 S	68.667 W	89 *	5.3		1.2	18	CHILE-ARGENTINA BORDER REGION
02	20 18 41.0	4.404 S	151.827 E	10 G	5.6	4.1	1.2	29	NEW BRITAIN REGION. Felt (IV) at Rabaul.
02	20 50 00.4*	37.273 S	73.943 W	33 N	4.6	4.0	1.4	24	NEAR COAST OF CENTRAL CHILE
02	22 17 15.1*	34.841 N	75.571 E	02 ?	4.4		1.5	15	EASTERN KASHMIR
02	23 17 07.6?	41.54 N	19.52 E	5 G			1.0	7	ALBANIA. ML 2.5 (TTG).
02	23 20 48.9?	16.30 N	98.51 W	33 N	4.4		1.1	12	NEAR COAST OF GUERRERO, MEXICO
03	00 22 14.0	12.949 N	88.415 W	64	5.3		1.1	146	OFF COAST OF CENTRAL AMERICA. Felt strongly at San Salvador, El Salvador.
03	00 27 07.4*	34.005 S	179.477 W	68	5.0		1.1	27	SOUTH OF KERMADEC ISLANDS
03	02 58 29.3*	51.160 N	15.765 E	10 G			1.4	12	POLAND. ML 3.5 (GRF), 3.4 (VKA), 3.3 (KBA).
03	05 26 34.4*	4.811 N	127.336 E	89 ?	4.7		1.4	16	TALAUD ISLANDS
03	06 29 09.5	6.872 S	124.774 E	563	4.9		0.8	32	BANDA SEA
03	06 38 52.5*	38.799 N	27.296 E	10 G			0.6	5	TURKEY
03	06 44 39.6	46.559 N	153.359 E	33 N	5.1	4.2	0.8	77	KURIL ISLANDS
03	09 32 38.9	43.867 N	17.391 E	10 G			1.1	13	YUGOSLAVIA. ML 3.6 (TRI), 3.3 (KBA). MD 3.2 (TTG). Felt in the Prazor area.
03	10 07 00.7*	43.927 N	17.298 E	10 G			1.5	9	YUGOSLAVIA. ML 2.9 (KBA), 2.7 (TTG).
03	10 14 26.8*	17.235 S	89.953 E	10 G	4.9		1.0	48	SOUTH INDIAN OCEAN
03	10 20 36.1?	32.49 S	69.76 W	137 ?			0.2	6	MENDOZA PROVINCE, ARGENTINA
03	12 13 32.3%	15.752 N	60.649 W	33 N			0.5	9	LEEWARD ISLANDS. ML 2.7 (FDF).
03	15 03 34.3%	15.036 N	60.733 W	33 N			1.1	6	LEEWARD ISLANDS. ML 3.2 (FDF).
03	15 20 00.0&	37.181 N	116.048 W	0				7	SOUTHERN NEVADA. <DOE>. ML 2.2 (NEIS). 37' 10' 52.11" N., 116' 02' 54.39" W., Surface Elev. 1317 m., Depth at Burial 300 m., Shot Time 152000.082, "HAZEBROOK", Nevada Test Site (Dept. of Energy).
03	15 44 26.9	37.769 S	72.970 W	32 D	5.2	3.9	0.9	65	CENTRAL CHILE. Felt (III) at Las Angeles, (II) at Concepcion and (I) at Chillan.
03	15 46 25.3*	40.637 N	24.209 E	10 G			0.7	5	AEGEAN SEA
03	16 42 41.3*	37.750 S	72.893 W	32 D	5.8	5.5	0.9	180	CENTRAL CHILE. Felt (V) in the Angai area.
03	16 52 07.7*	37.848 S	73.433 W	10 G			0.9	19	NEAR COAST OF CENTRAL CHILE
03	17 21 54.5&	36.840 N	121.580 W	2				11	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).
03	19 26 33.8*	22.792 S	176.682 W	119 ?	5.0		0.7	17	SOUTH OF FIJI ISLANDS
03	22 52 05.2	5.395 S	152.185 E	33 N	4.8		1.1	34	NEW BRITAIN REGION
04	00 10 49.6?	32.06 S	67.33 W	30			1.2	13	MENDOZA PROVINCE, ARGENTINA
04	00 18 45.5?	65.04 N	166.80 W	33 N	4.7		1.1	12	ALASKA. ML 4.4 (PMR).
04	01 16 50.3*	44.376 N	10.155 E	10 G			0.9	9	NORTHERN ITALY. ML 2.9 (LDG).
04	02 22 32.7&	20.053 N	156.530 W	10 G	5.2	4.9		148	HAWAII. <HVO-P>. ML 5.2 (HVO). Felt (V) on Hawaii and Maui. Felt (IV) on Oahu. Also felt on Lanai and Molokai.
04	02 36 05.0?	32.07 S	71.97 W	10 G			1.1	10	NEAR COAST OF CENTRAL CHILE
04	03 44 43.5&	20.062 N	156.540 W	45				50	HAWAII. <HVO-P>. ML 4.2 (HVO). Felt (III) on Maui.
04	04 01 44.1	44.601 N	15.483 E	10 G			1.4	15	YUGOSLAVIA. ML 3.1 (TRI), 3.0 (KBA).
04	04 26 10.4	5.453 S	146.854 E	225	5.1		1.1	25	EAST PAPUA NEW GUINEA REGION
04	04 29 08.3?	44.49 N	17.99 E	10 G			1.4	6	YUGOSLAVIA
04	04 41 13.0	15.186 S	172.933 W	33 N	5.2	5.2	1.1	55	SAMOA ISLANDS REGION
04	04 56 21.9	5.551 S	152.161 E	33 *	4.8		1.4	24	NEW BRITAIN REGION
04	05 15 32.5*	37.837 N	29.406 E	10 G			0.8	5	TURKEY
04	05 45 48.2*	5.482 S	152.208 E	33 N	3.8		0.3	7	NEW BRITAIN REGION
04	06 12 34.8	5.406 S	152.069 E	29	5.3		0.9	57	NEW BRITAIN REGION
04	07 51 27.2	17.590 S	173.957 W	115 D	4.8		1.0	55	TONGA ISLANDS
04	09 34 23.8%	28.934 S	66.986 W	157 ?			0.8	7	CATAMARCA PROVINCE, ARGENTINA
04	09 59 43.4?	16.40 S	71.92 W	5 G			1.1	5	SOUTHERN PERU. Felt (III) at Arequipa.
04	10 22 52.7	19.199 N	121.101 E	48 *	4.5		1.0	41	PHILIPPINE ISLANDS REGION. Felt (II RF) at Pasuquin.
04	11 42 54.2	50.656 N	129.681 W	10 G	4.3	3.8	1.2	34	VANCOUVER ISLAND REGION
04	12 02 31.0?	62.22 N	3.92 E	10 G			0.8	9	NORWEGIAN SEA. ML 3.7 (NB2), MD 3.3 (BER). Felt.
04	12 15 22.9	24.523 N	121.868 E	71	5.0		1.0	90	TAIWAN. Felt on northern Taiwan.
04	12 42 09.3*	14.338 S	76.463 W	10 G			1.3	6	NEAR COAST OF PERU
04	13 45 23.9&	34.757 N	97.580 W	5 G				5	OKLAHOMA. <TUL>. MD 1.7 (TUL).
04	16 06 42.7	34.719 S	179.931 W	61 D	5.2		1.2	54	SOUTH OF KERMADEC ISLANDS
04	17 13 01.3*	37.230 N	72.064 E	168 ?	4.8		0.6	10	TAJIK SSR
04	20 14 20.0*	22.651 S	173.301 E	33 N	4.9	4.9	1.4	36	LOYALTY ISLANDS REGION
04	21 14 53.7&	58.205 N	155.522 W	32				19	ALASKA PENINSULA. <AGS-P>. ML 3.1 (PMR).
04	23 35 53.7	46.741 N	1.978 W	11			0.8	20	FRANCE. ML 3.6 (LDG).
05	02 04 15.1%	39.467 N	28.342 E	10 G			0.6	5	TURKEY
05	02 54 03.1&	59.830 N	153.357 W	116				32	SOUTHERN ALASKA. <AGS-P>.
05	05 00 43.3*	51.043 N	15.815 E	10 G			1.2	8	POLAND. ML 3.4 (VKA), 3.4 (GRF), 3.4 (KBA).
05	07 04 29.6	31.017 S	65.505 W	180	4.2		1.0	40	CORDOBA PROVINCE, ARGENTINA
05	07 15 57.1*	20.664 S	69.267 W	33 N			1.2	6	NORTHERN CHILE
05	07 36 43.7?	15.94 N	60.11 W	10 G			0.2	5	LEEWARD ISLANDS. ML 3.8 (FDF).
05	09 59 35.5	43.655 N	4.588 E	12			1.0	24	NEAR SOUTH COAST OF FRANCE. ML 3.5 (LDG).
05	11 04 28.0*	22.864 N	121.203 E	33 N			1.0	10	TAIWAN REGION
05	11 06 55.1?	51.49 N	16.11 E	10 G			0.9	10	POLAND. ML 3.9 (GRF), 3.9 (KBA), 3.7 (VKA).
05	11 18 45.9%	43.533 N	4.505 E	10 G			1.1	16	NEAR SOUTH COAST OF FRANCE. ML 2.5 (LDG).
05	11 47 08.4*	18.074 S	71.083 W	67 ?			0.8	7	OFF COAST OF NORTHERN CHILE. Felt (II) at Arequipa, Peru.
05	13 22 43.7%	12.346 S	75.781 W	33 N			0.6	7	PERU
05	13 56 37.6	44.736 N	111.055 W	5 G			0.7	9	HEBGEN LAKE REGION. ML 3.4 (NEIS). Felt (III) at West Yellowstone, Montana.
05	14 43 30.1	4.704 S	103.251 E	68 *	5.2		0.8	42	SOUTHERN SUMATRA
05	15 25 47.9%	60.454 N	5.300 E	10 G			0.8	7	SOUTHERN NORWAY. MD 1.8 (BER).
05	15 35 59.9	16.919 S	72.174 W	93	4.8		1.3	34	NEAR COAST OF PERU. Felt (IV) at Arequipa.
05	17 04 53.1	4.830 S	153.609 E	104 D	4.8		1.1	56	NEW IRELAND REGION
05	17 19 07.0?	5.36 S	129.97 E	235 *	4.2		1.4	10	BANDA SEA
05	18 14 39.1&	61.999 N	150.758 W	2				36	SOUTHERN ALASKA. <AGS-P>.
05	22 44 15.3?	31.44 S	71.77 W	33 N			0.4	13	NEAR COAST OF CENTRAL CHILE
05	23 39 10.6?	37.28 S	177.24 E	83 ?	4.0		1.4	6	OFF E. COAST OF N. ISLAND, N.Z.
06	01 11 59.5	31.235 S	71.142 W	104 ?			0.9	21	NEAR COAST OF CENTRAL CHILE
06	01 56 23.9*	9.772 S	112.649 E	33 N	4.6		1.2	12	SOUTH OF JAVA
06	03 01 46.4?	5.84 N	123.51 E	33 N	4.4		1.4	5	MINDANAO, PHILIPPINE ISLANDS
06	03 22 45.4*	11.786 N	143.139 E	33 N	4.4		0.8	13	SOUTH OF MARIANA ISLANDS
06	06 22 22.2	11.647 N	143.273 E	31	5.0		1.0	51	SOUTH OF MARIANA ISLANDS
06	06 54 46.1?	36.82 S	96.30 W	10 G	4.5		1.1	18	WEST CHILE RISE

06	07	14	42.6%	42.912 N	18.455 E	10 G	0.9	6	YUGOSLAVIA. ML 2.5 (TTG).	
06	07	26	55.8*	32.594 S	71.821 W	13	0.6	15	NEAR COAST OF CENTRAL CHILE	
06	09	04	08.5*	66.371 N	149.926 W	10 G	1.6	10	ALASKA. ML 4.0 (PMR).	
06	09	29	50.7*	44.725 N	111.023 W	5 G	0.9	8	HEBGEN LAKE REGION. ML 3.1 (NEIS). Felt (III) at West Yellowstone, Montana.	
06	09	39	50.7*	66.213 N	149.855 W	10 G 4.3	0.8	5	ALASKA. ML 4.4 (PMR).	
06	10	27	39.2	34.181 N	141.155 E	68 * 4.8	1.1	30	OFF EAST COAST OF HONSHU, JAPAN	
06	11	34	45.7*	65.98 N	150.09 W	10 G	2.0	4	ALASKA. ML 3.5 (PMR).	
f	06	12	23	48.0	36.992 N	141.786 E	36 G 5.9 6.1	1.2	454	NEAR EAST COAST OF HONSHU, JAPAN. Ms 6.0 (PAS), 5.7 (BRK). Felt (IV JMA) at Onahama and (III JMA) in the Tokyo-Sendai area. Felt from Mishima and Wajima, Honshu to Obihiro, Hokkaido. Also felt on Hachijo-jima. Depth from broadband displacement seismograms.
a	06	13	16	17.8	36.988 N	141.689 E	48 6.1 6.3	1.0	455	NEAR EAST COAST OF HONSHU, JAPAN. Ms 6.5 (PAS), 6.3 (BRK). Felt (V JMA) at Onahama and (IV JMA) at Mito, Sendai, Tokyo, Utsunomiya and Yokohama. Felt from Hikone and Wajima, Honshu to Kushiro, Hokkaido. Also felt on Oshima and Hachijo-jima. Local tsunami recorded with maximum wave heights 12 cm at Onahama; 8 cm at Ishinomaki; 7 cm at Ofunato. Two events about 4 seconds apart, observed on broadband displacement seismograms.
06	15	31	28.2*	24.259 S	67.156 W	198 ?	1.3	7	CHILE-ARGENTINA BORDER REGION	
06	15	50	24.3*	33.03 S	72.10 W	10 G	0.4	8	OFF COAST OF CENTRAL CHILE	
06	17	04	12.0*	32.400 N	115.310 W	6 G		2	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.0 (PAS).	
06	17	04	31.2*	5.13 S	147.69 E	189 * 4.5	1.2	9	EAST PAPUA NEW GUINEA REGION	
06	17	41	20.9*	24.103 N	121.854 E	33 N 4.1	1.4	18	TAIWAN	
06	19	04	06.3*	36.074 N	8.387 W	10 G	1.4	5	WEST OF GIBRALTAR. MG 3.2 (MTH).	
06	19	20	17.9*	66.356 N	149.971 W	10 G	1.0	7	ALASKA. ML 3.3 (PMR).	
06	19	28	04.6*	5.77 S	146.96 E	167 * 5.0	0.8	9	EAST PAPUA NEW GUINEA REGION	
06	19	41	48.5%	45.901 N	26.058 E	123 ?	0.4	6	ROMANIA	
06	21	22	15.2*	36.890 N	69.551 E	33 N 4.3	1.5	17	HINDU KUSH REGION	
06	23	00	23.3	40.022 N	27.269 E	10 G	0.7	8	TURKEY	
06	23	50	05.5*	37.070 N	141.915 E	33 N 4.7	0.8	9	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Utsunomiya.	
07	00	39	23.3*	58.221 S	24.912 W	33 N 5.1	1.1	22	SOUTH SANDWICH ISLANDS REGION	
07	00	55	25.8*	14.548 S	77.044 W	33 N	1.1	12	OFF COAST OF PERU. Felt (IV) at Ica.	
07	01	21	17.4	39.796 N	24.350 E	11	1.0	23	AEGEAN SEA. ML 3.8 (ATH).	
07	03	12	18.3*	47.30 N	154.07 E	33 N 4.7	0.8	10	KURIL ISLANDS	
a	07	03	45	14.7*	32.390 N	115.310 W	6 G 5.4 5.5	1.22		CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 5.4 (PAS). Felt strongly in the Mexicali, Mexico area. Felt (V) at El Centro, California and (IV) at Heber, Holtville, Pala Verde, Seeley and Westmorland, California. Also felt (IV) at San Luis and Yuma, Arizona.
07	04	12	11.2*	27.41 N	140.26 E	479 ? 4.6	0.7	15	BONIN ISLANDS REGION	
07	04	17	19.9*	32.430 N	115.300 W	6 G		4	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.3 (PAS).	
07	04	39	36.7	23.652 N	94.639 E	83 * 4.6	0.5	16	BURMA-INDIA BORDER REGION	
07	06	36	53.2*	15.72 N	93.49 W	33 N 3.7	1.5	7	NEAR COAST OF CHIAPAS, MEXICO	
07	06	48	03.8*	20.462 N	145.482 E	33 N 4.7	1.0	21	MARIANA ISLANDS	
07	07	30	09.4*	35.52 N	80.37 E	33 N	0.6	5	KASHMIR-TIBET BORDER REGION	
07	09	59	34.5*	32.370 N	115.330 W	6 G 3.8		11	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.7 (PAS).	
07	10	05	24.9*	32.300 N	115.360 W	6 G		1	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.1 (PAS).	
07	10	25	39.1*	32.410 N	115.340 W	6 G		13	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.8 (PAS).	
a	07	10	46	22.5	59.145 S	159.015 E	33 N 5.5 5.1	1.0	52	MACQUARIE ISLANDS REGION
07	11	31	34.2	1.602 N	126.666 E	33 N 5.0	1.1	50	MOLUCCAS PASSAGE	
a	07	11	57	33.9	5.800 S	147.742 E	27 5.6 6.1	1.1	112	EAST PAPUA NEW GUINEA REGION. Ms 6.0 (BRK), 5.8 (PAS). Felt throughout the Huon Peninsula and at Lae and Wau, New Guinea. Also felt in the Cape Gloucester area, New Britain.
07	12	29	01.7*	52.581 N	168.348 W	33 N 4.8	1.0	27	FOX ISLANDS, ALEUTIAN ISLANDS	
07	12	39	41.9	5.812 S	147.741 E	14 5.3	0.8	51	EAST PAPUA NEW GUINEA REGION. Felt throughout the Huon Peninsula and at Lae and Wau, New Guinea. Also felt in the Cape Gloucester area, New Britain.	
07	13	07	56.6	11.652 N	143.307 E	20 * 5.1	1.1	52	SOUTH OF MARIANA ISLANDS	
07	14	11	55.3	5.784 S	147.829 E	38 * 4.5 4.3	1.0	26	EAST PAPUA NEW GUINEA REGION	
07	14	13	39.9*	41.00 N	19.90 E	10 G	1.3	9	ALBANIA. ML 2.5 (TTG).	
07	14	17	40.2*	5.91 S	147.70 E	33 N 3.9	1.2	7	EAST PAPUA NEW GUINEA REGION	
07	15	15	51.5*	32.420 N	115.330 W	6 G		1	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.1 (PAS).	
a	07	15	24	22.3	4.924 S	103.255 E	60 D 5.4	0.9	162	SOUTHERN SUMATERA
07	15	33	38.7*	32.420 N	115.340 W	6 G		2	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.0 (PAS).	
07	15	37	09.3*	32.420 N	115.340 W	6 G		3	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.3 (PAS).	
07	15	38	02.0	5.805 S	147.743 E	33 N 5.0	1.1	24	EAST PAPUA NEW GUINEA REGION	
07	15	51	17.3*	6.19 S	147.69 E	33 N 4.2	1.0	7	EAST PAPUA NEW GUINEA REGION	
07	15	59	10.2*	7.158 S	129.132 E	152 ? 4.7	1.3	24	BANDA SEA	
07	17	13	26.0	42.630 N	1.726 E	10 G	0.9	16	PYRENEES. ML 3.3 (LDG).	
07	18	08	34.0	46.519 N	149.833 E	153 D 5.1	0.8	151	KURIL ISLANDS	
07	18	18	59.3*	5.626 S	147.788 E	33 N 4.0	1.2	9	EAST PAPUA NEW GUINEA REGION	
07	18	40	04.9%	39.624 N	29.018 E	10 G	0.9	9	TURKEY	
07	19	03	56.9	39.036 N	22.601 E	10 G	0.8	22	GREECE. ML 3.5 (ATH).	
07	19	21	59.8	8.712 S	118.880 E	91 * 4.9	1.2	36	SUMBAWA ISLAND REGION	
07	20	29	08.4	10.159 S	161.047 E	75 5.0	0.8	55	SOLOMON ISLANDS	
07	21	24	30.1*	59.871 N	153.502 W	124		27	SOUTHERN ALASKA. <AGS-P>.	
07	22	31	57.6	10.343 N	62.704 W	10 G 5.0 4.4	1.3	68	NEAR COAST OF VENEZUELA. Felt in the Carupano-Rio Coribe-EI Pilar area.	
08	00	04	31.5*	45.69 N	26.60 E	111 ?	0.8	7	ROMANIA	
08	00	07	23.6*	35.906 N	27.347 E	33 N	1.0	5	OODECANESE ISLANDS. ML 4.0 (ATH).	
08	00	16	49.4	29.853 S	71.415 W	74 * 4.7	1.3	33	NEAR COAST OF CENTRAL CHILE	
08	00	23	32.2*	9.35 N	61.82 W	10 G	0.7	8	NEAR COAST OF VENEZUELA	
08	00	44	00.9	7.477 S	128.434 E	127 * 4.9	1.0	51	BANDA SEA	
08	00	59	09.2*	15.22 N	60.30 W	10 G	0.5	6	LEEWARD ISLANDS. ML 2.6 (FDF).	
08	03	29	18.6*	34.598 N	81.190 E	33 N 4.5	1.3	9	TIBET	
08	03	38	50.6*	39.649 N	23.256 E	10 G	0.9	8	AEGEAN SEA	
08	05	03	36.8*	60.086 N	150.984 W	58		42	KENAI PENINSULA, ALASKA. <AGS-P>.	
08	05	24	20.6*	16.60 N	61.02 W	33 N	0.1	5	LEEWARD ISLANDS. ML 2.4 (FDF).	

08	05 32 57.3&	37.530 N	118.880 W	4					11	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.1 (PAS).
08	06 19 09.67	54.94 N	159.93 W	33 N	4.5	1.3			11	SOUTH OF ALASKA
08	06 22 15.37	51.56 N	178.66 W	102 D	4.3			0.8	7	ANDREANOF ISLANDS, ALEUTIAN IS.
08	10 56 00.9	44.733 N	111.068 W	5 G				0.7	10	HEBGEN LAKE REGION. ML 2.9 (NEIS).
08	12 44 00.0	13.827 N	90.995 W	70 D	4.3	1.2			55	NEAR COAST OF GUATEMALA. Felt in western Guatemala.
08	16 29 45.1+	16.496 N	121.994 E	33 N	4.0	1.0			6	LUZON, PHILIPPINE ISLANDS
o 08	17 48 48.8	1.604 N	126.588 E	17 D	5.8	5.9	1.1		206	MOLUCCA PASSAGE
08	18 25 34.8	29.737 N	67.507 W	10 G	4.7			0.9	41	NORTH ATLANTIC OCEAN
f 08	18 33 58.3	6.088 S	147.689 E	55		7.4	1.3		290	EAST PAPUA NEW GUINEA REGION. Ms 7.6 (BRK), 7.0 (PAS). Three people killed by a landslide and some damage (VI) on the Huan Peninsula. Several hundred people homeless and moderate damage (VII), landslides and ground cracks on Umboi Island. Liquefaction occurred in some sands on Malai Island. Felt (VI) in the Cape Gloucester area, New Britain. Felt (III) as far away as Wewak and Port Moresby, New Guinea and Rabaul, New Britain. Multiple event, observed an broadband displacement seismograms.
08	18 42 44.9*	5.835 S	147.747 E	33 N	5.5	1.1			19	EAST PAPUA NEW GUINEA REGION
08	19 07 35.6*	14.421 S	72.914 W	97 *	4.8	0.9			15	PERU
08	19 18 05.1	5.906 S	147.727 E	33 N	5.2	1.0			27	EAST PAPUA NEW GUINEA REGION
08	19 26 11.1*	5.683 S	147.721 E	33 N	4.6	1.3			14	EAST PAPUA NEW GUINEA REGION
08	19 31 56.1?	5.75 S	147.66 E	33 N	5.2	0.8			15	EAST PAPUA NEW GUINEA REGION
08	19 43 39.3*	5.630 S	147.671 E	33 N	4.1	0.9			11	EAST PAPUA NEW GUINEA REGION
08	20 15 04.7?	6.08 S	148.01 E	33 N	4.2	1.3			6	NEW BRITAIN REGION
08	20 30 25.7*	6.065 S	147.565 E	33 N	4.7	0.9			19	EAST PAPUA NEW GUINEA REGION
08	20 53 22.8	6.156 S	151.140 E	33	4.8	1.0			45	NEW BRITAIN REGION
08	21 38 47.7?	4.87 S	147.63 E	33 N	4.1	0.6			8	BISMARCK SEA
08	22 13 12.0?	6.20 S	147.49 E	33 N	3.9	0.4			6	EAST PAPUA NEW GUINEA REGION
08	22 22 38.3	28.773 S	68.600 W	106	4.6	1.1			41	LA RIOJA PROVINCE, ARGENTINA
08	22 51 17.7	6.038 S	147.679 E	33 N	4.7	0.8			31	EAST PAPUA NEW GUINEA REGION
08	23 45 36.5*	5.431 S	151.652 E	33 N	3.9	0.9			6	NEW BRITAIN REGION
08	23 50 09.9?	5.88 S	147.85 E	33 N	4.0	1.0			9	EAST PAPUA NEW GUINEA REGION
09	00 21 49.1	6.107 S	147.687 E	33 N	4.8	0.9			30	EAST PAPUA NEW GUINEA REGION
09	01 32 56.9	6.052 S	147.783 E	18	5.1	4.4	0.9		58	EAST PAPUA NEW GUINEA REGION
09	01 44 59.8	6.035 S	147.630 E	33 N	4.8	1.2			32	EAST PAPUA NEW GUINEA REGION
09	02 07 46.6?	7.30 S	147.10 E	33 N		0.7			5	EAST PAPUA NEW GUINEA REGION. ML 4.4 (PMG).
o 09	02 11 10.2	5.990 S	147.708 E	33 N	5.6	5.1	1.1		79	EAST PAPUA NEW GUINEA REGION
09	02 15 25.4	5.980 S	147.690 E	33 N	5.6	5.4	1.0		34	EAST PAPUA NEW GUINEA REGION
09	02 24 28.1	40.610 N	29.057 E	10 G		0.6			12	TURKEY
09	02 46 04.2*	39.504 N	27.633 E	10 G		1.0			6	TURKEY
09	03 03 10.6?	5.47 S	148.38 E	33 N	4.7	1.4			7	NEW BRITAIN REGION
09	03 38 56.3&	32.430 N	115.320 W	6	3.5				11	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.7 (PAS).
09	05 08 26.4*	14.986 S	172.478 W	33 N	4.7	1.2			35	SAMOA ISLANDS
09	05 45 40.2*	6.282 S	147.573 E	33 N	4.5	0.7			19	EAST PAPUA NEW GUINEA REGION
09	06 16 46.4	14.071 N	90.544 W	93 D	4.7	1.2			62	GUATEMALA
09	06 27 30.2*	6.271 S	147.804 E	33 N	5.1	0.9			15	EAST PAPUA NEW GUINEA REGION
09	06 47 14.4	6.249 S	147.730 E	33 N	4.3	1.3			18	EAST PAPUA NEW GUINEA REGION
o 09	06 48 00.2	6.145 S	147.691 E	33 N	5.6	5.1	1.0		136	EAST PAPUA NEW GUINEA REGION
09	07 25 38.8*	6.111 S	147.719 E	33 N	4.7	1.3			13	EAST PAPUA NEW GUINEA REGION
09	08 18 22.8*	26.243 N	128.383 E	42 *	4.8	0.7			10	RYUKYU ISLANDS. Felt (II JMA) at Nago.
09	08 30 11.8&	60.160 N	152.808 W	108					30	SOUTHERN ALASKA. <AGS-P>.
09	08 33 39.4	6.230 S	147.762 E	36 *	4.7	0.9			19	EAST PAPUA NEW GUINEA REGION
09	08 44 54.2?	40.49 N	35.32 E	10 G	3.6	1.5			7	TURKEY
09	10 01 23.5?	16.95 N	61.86 W	10 G		1.3			5	LEEWARD ISLANDS. ML 3.4 (FDF).
09	10 03 04.6?	6.04 S	147.76 E	33 N	4.4	1.3			8	EAST PAPUA NEW GUINEA REGION
09	10 30 57.1?	61.14 N	3.01 E	10 G		0.4			6	NORWEGIAN SEA. MD 2.1 (BER).
09	11 05 24.9?	6.13 S	147.91 E	33 N		0.9			5	EAST PAPUA NEW GUINEA REGION
09	11 43 32.8*	5.773 S	147.697 E	33 N	4.4	1.2			9	EAST PAPUA NEW GUINEA REGION
09	12 28 24.0	35.372 N	26.108 E	31	4.4	1.5			74	CRETE. ML 4.9 (ATH). Felt throughout Crete.
09	12 56 53.2*	35.323 N	25.986 E	59 *	4.1	1.5			9	CRETE
09	14 20 44.0?	5.40 S	148.00 E	33 N	4.1	1.2			6	NEW BRITAIN REGION
o 09	14 25 30.8	6.137 S	147.722 E	49	5.5	5.0	0.9		49	EAST PAPUA NEW GUINEA REGION
09	14 34 09.9*	44.243 N	17.941 E	10 G		1.5			7	YUGOSLAVIA
09	14 56 58.2	35.562 N	26.266 E	33 N	4.1	0.5			9	CRETE. ML 4.0 (ATH).
09	15 21 24.5*	24.309 N	95.140 E	33 N	3.4	1.0			6	BURMA
09	16 08 51.0&	37.518 N	121.695 W	7					18	CENTRAL CALIFORNIA. <BRK>. ML 3.5 (BRK). Mo=7.8*10**14 Nm (BRK). Felt at Fremont and Livermore.
09	17 07 04.7	5.524 S	147.705 E	33 N	4.8	1.1			35	EAST PAPUA NEW GUINEA REGION
o 09	18 17 30.6	6.002 S	147.802 E	44	5.7	5.7	1.1		154	EAST PAPUA NEW GUINEA REGION
09	18 53 55.7?	6.24 S	147.53 E	33 N	4.7	0.6			12	EAST PAPUA NEW GUINEA REGION
09	20 14 07.3?	5.61 S	147.75 E	33 N	4.4	1.2			6	EAST PAPUA NEW GUINEA REGION
09	20 30 21.9	6.591 S	147.849 E	49 *	4.8	4.6	1.3		54	EAST PAPUA NEW GUINEA REGION
09	21 08 03.4	6.243 S	147.794 E	37 *	4.9	1.0			23	EAST PAPUA NEW GUINEA REGION
09	21 49 48.7?	6.73 S	147.43 E	33 N	4.4	0.6			7	EAST PAPUA NEW GUINEA REGION
09	22 18 19.8*	4.313 S	138.585 E	33 N	4.9	0.9			13	WEST IRIAN
09	22 42 59.5	12.926 N	144.071 E	105	5.1	1.1			129	SOUTH OF MARIANA ISLANDS. Felt (IV) on Guam.
09	23 55 01.3*	35.482 N	25.468 E	105 ?		1.4			9	CRETE
10	00 53 55.5?	17.19 N	61.09 W	33 N		0.2			5	LEEWARD ISLANDS. ML 3.1 (FDF).
f 10	00 59 28.5	19.489 S	177.456 W	395 G	6.2	1.0			376	FIJI ISLANDS REGION. mb 6.4 (BRK), 6.4 (PAS). Depth from broadband displacement seismograms.
10	01 48 33.7*	6.266 S	147.878 E	33 N	4.8	1.5			9	EAST PAPUA NEW GUINEA REGION
10	01 53 18.2&	58.818 N	154.999 W	131					31	ALASKA PENINSULA. <AGS-P>.
10	02 09 17.5*	28.105 S	176.579 W	47 ?	5.0	1.1			46	KERMADEC ISLANDS REGION
10	02 48 57.5	3.088 N	79.254 W	27 D	5.1	5.0	1.0		136	SOUTH OF PANAMA
10	03 14 29.9*	6.593 S	147.743 E	33 N	4.2	0.7			8	EAST PAPUA NEW GUINEA REGION
10	03 25 27.9&	58.180 N	154.119 W	80					46	ALASKA PENINSULA. <AGS-P>.
10	04 17 53.9*	37.673 N	22.589 E	78 *	3.8	1.0			8	SOUTHERN GREECE
10	04 49 56.3?	6.76 S	147.55 E	33 N	4.1	1.1			6	EAST PAPUA NEW GUINEA REGION
10	05 24 23.5&	37.513 N	121.698 W	7					19	CENTRAL CALIFORNIA. <BRK>. ML 3.1 (BRK). Felt at San Jose.
10	05 55 20.0	42.344 N	147.922 E	42	5.2	4.5	0.8		119	OFF COAST OF HOKKAIDO, JAPAN. Felt (I JMA) at Nemuro.
10	06 46 33.1?	66.39 N	150.09 W	10 G		1.7			6	ALASKA. ML 3.4 (PMR).
10	07 34 32.1&	59.194 N	153.999 W	124					34	SOUTHERN ALASKA. <AGS-P>.

10	08 25 11.9	9.342 N	126.371 E	33 N	5.2	1.2	58	MINDANAO, PHILIPPINE ISLANDS. Felt (II RF) at Cagayan de Oro.
10	09 49 02.7*	5.903 S	147.837 E	33 N	4.2	1.5	8	EAST PAPUA NEW GUINEA REGION
10	09 57 35.2*	40.046 N	26.155 E	10 G		0.9	5	TURKEY
10	10 43 17.6*	10.732 S	166.149 E	33 N	4.5	1.2	17	SANTA CRUZ ISLANDS
10	10 52 37.4*	9.073 N	83.884 W	47 *		0.9	11	COSTA RICA. MD 4.1 (HDC). Felt in the Alajuela-San Jose-Cartago region.
10	12 15 58.5*	24.210 N	125.125 E	30 *	4.1	1.0	10	SOUTHWESTERN RYUKYU ISLANDS
10	12 19 38.07	32.36 S	66.66 W	33 N		1.0	10	SAN LUIS PROVINCE, ARGENTINA
o	10 12 21 59.0	6.012 S	147.779 E	40	5.4 5.1	1.0	56	EAST PAPUA NEW GUINEA REGION
10	12 28 13.07	54.81 S	119.23 W	10 G	4.8 5.4	1.1	11	EASTER ISLAND CORDILLERA
10	13 00 39.37	24.12 S	180.00 E	563 ?	4.8	0.9	17	SOUTH OF FIJI ISLANDS
10	13 11 23.0	5.961 S	147.604 E	10 G	4.5	0.9	7	EAST PAPUA NEW GUINEA REGION
10	13 58 10.1*	6.188 S	151.582 E	10 G	4.2	1.4	11	NEW BRITAIN REGION
10	14 00 44.7*	26.282 N	128.469 E	33 N	4.4	0.7	12	RYUKYU ISLANDS
10	14 20 30.27	6.88 S	126.60 E	348 ?	4.4	1.3	6	BANDA SEA
10	14 49 58.67	14.78 N	60.61 W	33 N		0.7	5	WINDWARD ISLANDS. ML 2.9 (FDF).
10	15 21 01.07	5.80 S	147.92 E	33 N	4.5	1.0	8	EAST PAPUA NEW GUINEA REGION
10	15 35 24.77	39.03 N	28.30 E	10 G		1.5	6	TURKEY
10	15 37 56.07	4.99 S	148.32 E	33 N	4.2	0.7	6	BISMARCK SEA
10	16 06 16.0*	39.869 N	141.730 E	84	4.5	0.9	14	HONSHU, JAPAN. Felt (II JMA) at Miyako and Morioka; (I JMA) at Ofunato.
a	10 16 23 50.9	35.586 N	143.013 E	38 D	5.1 5.2	1.1	114	OFF EAST COAST OF HONSHU, JAPAN
10	17 22 42.4	27.282 N	126.727 E	26 *	5.1	1.2	46	EAST CHINA SEA
10	17 51 45.6	36.121 N	139.788 E	73	4.6	1.2	59	HONSHU, JAPAN. Felt (III JMA) at Utsunomiya and Mito; (II JMA) at Onahama; (I JMA) at Moebashi, Tokyo and Tateyama.
10	19 03 02.1*	6.140 S	147.970 E	33 N	4.3	1.5	15	EAST PAPUA NEW GUINEA REGION
10	21 20 15.5	44.271 N	10.256 E	32	4.0	1.1	99	NORTHERN ITALY. ML 4.3 (FUR), 4.2 (LDG). Felt in the Lunigiana-Garfagnana area.
10	21 41 09.8*	10.546 S	155.271 E	33 N	4.6	0.8	12	DENTRECASTEAUX ISLANDS REGION
10	21 58 20.2*	43.778 N	9.394 E	10 G		0.5	6	CORSICA
10	22 02 55.37	24.25 N	70.25 E	10 G	3.8	1.0	5	INDIA-PAKISTAN BORDER REG.
10	23 03 01.5	21.895 S	175.236 E	10 G	4.9	1.1	67	SOUTH OF FIJI ISLANDS
11	00 06 33.0*	4.517 S	126.409 E	33 N	4.2	1.3	13	BANDA SEA
11	00 58 21.6*	62.955 N	156.623 E	10 G	4.6 4.9	1.0	26	EASTERN SIBERIA
a	11 01 14 40.6	6.995 S	146.991 E	19	5.3 4.9	1.2	98	EAST PAPUA NEW GUINEA REGION
11	03 04 01.5*	35.255 S	70.017 W	152	4.4	0.6	17	CHILE-ARGENTINA BORDER REGION
11	03 07 53.1	5.672 S	147.793 E	33 N	4.8	1.2	27	EAST PAPUA NEW GUINEA REGION
11	05 04 27.2*	35.990 N	141.346 E	33 N	4.4	1.1	8	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Mita.
a	11 06 12 53.3	18.831 N	120.981 E	24	5.6 5.8	1.3	239	LUZON, PHILIPPINE ISLANDS. Felt (V RF) at Pasuquin, (III RF) at Santa and (II RF) at Callaa Cave.
11	07 21 03.5	6.007 S	147.912 E	58 *	3.5	0.7	9	EAST PAPUA NEW GUINEA REGION
11	07 29 21.5%	44.826 N	6.644 E	10 G		0.3	10	FRANCE. ML 2.7 (LDG).
11	07 34 30.8%	44.839 N	6.537 E	10 G		0.4	10	FRANCE. ML 2.9 (LDG).
a	11 07 56 12.9	15.834 S	167.355 E	24 G	5.9 6.4	1.2	310	VANUATU ISLANDS. Ms 6.6 (BRK), 6.4 (PAS). Depth from broadband displacement seismograms.
11	07 59 57.9*	11.176 S	73.637 W	105 ?	4.7	0.7	10	PERU
11	10 24 18.1%	15.127 N	60.371 W	10 G		0.4	8	LEEWARD ISLANDS. ML 2.8 (FDF).
11	10 24 37.6	51.151 N	178.809 E	33 N	4.8 4.8	1.1	46	RAT ISLANDS, ALEUTIAN ISLANDS. ML 4.9 (PMR).
11	10 50 24.5	17.704 N	119.669 E	40 *	5.0	1.1	19	PHILIPPINE ISLANDS REGION
11	10 52 53.4*	6.158 S	151.816 E	26 *	4.3	1.2	7	NEW BRITAIN REGION
11	12 33 04.0*	16.245 S	166.789 E	33 N	4.8	1.1	21	VANUATU ISLANDS
11	13 38 45.4	5.726 N	123.549 E	562 *	4.7	0.9	32	MINDANAO, PHILIPPINE ISLANDS
11	14 51 18.9	6.198 S	147.780 E	53 *	4.9	1.4	30	EAST PAPUA NEW GUINEA REGION
11	15 00 31.5	62.212 N	150.142 W	33 N		0.8	8	CENTRAL ALASKA. ML 3.1 (PMR).
11	16 10 02.37	15.58 N	60.18 W	27 *		1.4	9	LEEWARD ISLANDS. ML 2.9 (FDF).
11	16 45 00.0%	37.011 N	116.045 W	0	4.5		32	SOUTHERN NEVADA. <DOE>. ML 4.2 (BRK). 37° 00' 38.48" N., 116° 02' 40.88" W., Surface Elev. 1214 m., Depth of Burial 300 m., Shot Time 164500.065, "TORNERO", Nevada Test Site (Dept. of Energy).
11	16 52 24.5	46.467 N	0.517 E	10 G		1.5	12	FRANCE. ML 2.6 (LDG).
a	11 17 42 50.9	43.169 N	132.286 E	499 D	5.5	1.1	400	NEAR E. COAST OF EASTERN USSR. Felt (I JMA) at Tateyama, Honshu, Japan.
11	18 26 11.4%	15.089 N	60.307 W	10		0.4	10	LEEWARD ISLANDS. ML 3.0 (FDF).
a	11 19 54 53.2	22.900 S	179.504 W	524	5.1	1.1	105	SOUTH OF FIJI ISLANDS
11	20 22 46.3%	19.318 N	155.105 W	10			45	HAWAII. <HVO-P>. ML 3.9 (HVO). Felt (IV) at Wahoula and (III) at Puna.
11	20 42 56.37	0.35 S	125.04 E	33 N	4.5	1.3	10	MOLUCCA SEA
11	21 21 52.07	5.35 S	148.26 E	33 N	3.8	1.4	6	NEW BRITAIN REGION
11	22 00 17.3	30.043 S	73.227 W	33 N		0.5	18	OFF COAST OF CENTRAL CHILE
11	22 22 59.8*	2.834 N	79.630 W	10 G	4.4 4.1	1.5	18	SOUTH OF PANAMA
11	23 49 06.87	9.40 N	92.96 E	107 ?	4.0	0.7	8	NICOBAR ISLANDS REGION
12	00 33 57.27	6.73 S	147.35 E	33 N	4.1	1.3	8	EAST PAPUA NEW GUINEA REGION
12	01 02 23.1*	4.523 S	138.452 E	167 *	4.6	1.1	16	WEST IRIAN
12	01 42 23.97	6.27 S	147.30 E	58 *	4.4	0.8	9	EAST PAPUA NEW GUINEA REGION
12	02 01 53.2%	62.370 N	151.522 W	93			29	CENTRAL ALASKA. <AGS-P>.
12	02 07 03.27	51.61 N	16.28 E	10 G		0.6	8	POLAND. ML 2.7 (KBA).
12	03 17 00.6*	5.968 S	147.926 E	33 N	4.4	1.5	9	EAST PAPUA NEW GUINEA REGION
12	03 39 03.6%	61.814 N	150.563 W	53			30	SOUTHERN ALASKA. <AGS-P>.
12	05 01 44.07	27.72 S	176.98 W	114 ?	4.4	1.4	16	KERMADEC ISLANDS REGION
12	06 01 03.47	35.96 S	73.62 W	33 N	4.3	0.9	5	OFF COAST OF CENTRAL CHILE
12	06 52 31.2	54.181 N	162.566 W	33 N	5.0 4.3	0.8	100	ALASKA PENINSULA
12	07 14 09.1	44.435 N	11.086 E	10 G		1.0	15	NORTHERN ITALY. MD 3.1 (TRI), 2.9 (FIR). ML 3.0 (LDG), 2.5 (KBA).
12	08 28 06.2*	5.929 S	147.715 E	67 *	4.4	1.0	6	EAST PAPUA NEW GUINEA REGION
12	09 27 27.7*	51.308 N	176.917 E	33 N	4.6	0.9	32	RAT ISLANDS, ALEUTIAN ISLANDS
12	10 32 08.0%	59.950 N	153.545 W	149			45	SOUTHERN ALASKA. <AGS-P>.
12	12 04 01.2%	60.435 N	152.122 W	81			38	SOUTHERN ALASKA. <AGS-P>.
12	12 23 20.2	43.245 N	20.997 E	4		1.2	20	YUGOSLAVIA. ML 3.0 (TTG).
12	12 26 25.4	5.707 N	94.306 E	56 *	4.8	1.1	20	NORTHERN SUMATERA
12	13 23 42.4	36.420 N	141.279 E	62	4.9	1.1	58	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Mita; (I JMA) at Utsunomiya and Tokyo.

12	15	41	23.2	45.888	N	142.686	E	328	4.6	0.9	94	HOKKAIDO, JAPAN REGION		
12	16	34	07.6*	34.623	N	139.921	E	98	5.1	0.9	19	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) on Oshimo and at Ajiro, Tokyo and Toleyomo.		
12	17	40	44.0?	5.72	S	148.75	E	57	?	4.8	1.4	8	NEW BRITAIN REGION	
12	17	41	37.1*	14.188	N	93.681	W	33	N	4.7	1.3	22	NEAR COAST OF CHIAPAS, MEXICO	
12	19	31	43.7	21.758	S	68.332	W	130	D	4.7	1.3	26	CHILE-BOLIVIA BORDER REGION	
12	19	33	03.2&	38.825	N	122.795	W	2			10	NORTHERN CALIFORNIA. <BRK>. ML 2.8 (BRK). Felt at The Geysers.		
12	19	43	18.3&	38.795	N	122.763	W	2	G		16	NORTHERN CALIFORNIA. <BRK>. ML 3.6 (BRK). Felt at The Geysers.		
12	19	47	38.9?	51.38	N	16.08	E	10	G		0.3	5	POLAND	
12	23	58	43.2*	5.692	S	147.933	E	13			1.2	19	EAST PAPUA NEW GUINEA REGION	
13	00	48	36.2	35.299	N	26.146	E	33	N		1.3	16	CRETE. ML 4.2 (ATH).	
13	01	08	40.6?	52.83	N	170.08	W	33	N	4.5	0.9	8	FOX ISLANDS, ALEUTIAN ISLANDS	
13	03	36	15.9*	15.760	S	167.513	E	153	*	4.9	1.3	77	VANUATU ISLANDS	
13	04	20	59.4?	30.98	N	131.65	E	62	*	4.2	1.4	14	KYUSHU, JAPAN	
13	05	48	56.3	4.697	S	153.572	E	54		4.7	0.9	36	NEW IRELAND REGION	
f	13	07	18	29.0	0.670	E	126.167	E	32	6.2 6.5	1.3	344	MOLUCCA PASSAGE. Ms 6.4 (PAS). Felt on Ternate and at Manado, Sulawesi.	
13	09	34	09.8%	60.553	N	4.770	E	0	G		0.8	6	SOUTHERN NORWAY. MD 1.9 (BER). Probable explosion.	
13	10	01	39.2	36.634	N	140.878	E	64		5.1	1.1	180	NEAR EAST COAST OF HONSHU, JAPAN. Felt (IV JMA) at Onohama; (III JMA) at Mito; (II JMA) at Tokyo, Fukushima and Utsunomiya; (I JMA) at Sendai, Ishinomaki, Miyoko, Morioka and Kumagaya.	
13	10	49	41.6&	60.014	N	153.123	W	117				32	SOUTHERN ALASKA. <AGS-P>.	
13	11	08	03.2*	0.773	N	126.347	E	33	N	4.7	1.1	12	MOLUCCA PASSAGE	
13	12	58	36.0&	37.020	N	117.800	W	6	G			13	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.1 (PAS).	
13	13	57	08.0?	6.53	S	147.64	E	56	*	4.2	1.1	8	EAST PAPUA NEW GUINEA REGION	
13	13	58	07.8	40.200	N	19.823	E	15		5.1 4.4	1.5	171	ALBANIA. ML 5.0 (ATH), MD 4.9 (TTG). Felt (VI) at Picor, Korrdhiq and Shtepoz; (V) at Progonat, Nivice, Gjirrokoster and Tepelena; (IV) at Saranda. Also felt at Thessaloniki and in the Kerkira-Ioannina area, Greece.	
13	14	12	07.3&	59.439	N	153.627	W	120				30	SOUTHERN ALASKA. <AGS-P>.	
13	14	50	41.4?	5.26	S	131.79	E	33	N	4.4	1.3	9	BANDA SEA	
13	14	50	43.2?	39.98	N	20.34	E	10	G		1.5	5	GREECE-ALBANIA BORDER REGION. MG 3.3 (TIR).	
13	17	28	53.7*	37.908	N	22.466	E	10	G	3.7	0.9	7	SOUTHERN GREECE. ML 3.3 (ATH).	
13	17	59	03.5	14.515	N	60.282	W	33	N		0.7	9	WINDWARD ISLANDS. ML 3.2 (FDF).	
13	18	00	49.1?	21.58	S	68.40	W	143	?	4.4	0.9	5	CHILE-BOLIVIA BORDER REGION	
13	18	07	56.6*	50.520	N	148.705	E	551	?	4.3	0.6	18	SEA OF OKHOTSK	
13	18	13	21.5*	68.147	N	146.146	W	10	G		1.4	9	ALASKA. ML 3.8 (NEIS).	
13	19	20	16.7	23.126	N	94.135	E	55	*	4.8	1.2	34	BURMA-INDIA BORDER REGION	
13	19	52	43.1	19.131	S	68.460	W	65		4.8	1.4	47	CHILE-BOLIVIA BORDER REGION	
13	19	54	16.7	11.461	S	117.457	E	33	N	5.3	1.5	51	SOUTH OF SUMBAWA ISLAND	
13	20	19	23.3	37.882	N	22.463	E	33	N	3.6	0.5	13	SOUTHERN GREECE. ML 3.4 (ATH).	
13	21	15	45.0	45.767	N	9.416	E	10	G		1.2	28	NORTHERN ITALY. ML 3.1 (LDC), 2.8 (KBA).	
13	21	53	55.6	27.378	S	63.291	W	574		4.6	0.8	61	SANTIAGO DEL ESTERO PROV., ARG.	
13	22	58	14.0*	38.518	N	26.665	E	10	G		1.4	5	AEGEAN SEA	
13	23	44	23.2	39.069	N	27.834	E	10	G		0.8	8	TURKEY	
13	23	47	21.0*	26.431	N	111.221	W	10	G	4.4	0.9	14	GULF OF CALIFORNIA	
14	00	28	12.3*	39.064	N	27.872	E	13	*		0.8	6	TURKEY	
14	02	10	10.4	40.015	N	25.218	E	13			1.2	11	AEGEAN SEA	
14	03	30	45.9&	34.790	N	120.510	W	6	G			4	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).	
14	04	44	33.7%	39.530	N	27.646	E	10	G		0.6	7	TURKEY	
14	05	06	34.7	5.617	S	147.731	E	33	N	5.0	1.2	41	EAST PAPUA NEW GUINEA REGION	
14	05	54	15.0&	36.150	N	120.335	W	13				14	CENTRAL CALIFORNIA. <BRK>. ML 2.7 (BRK).	
o	14	06	34	38.8	15.467	S	167.559	E	120	D	5.5	0.9	196	VANUATU ISLANDS
14	06	55	43.0*	57.952	S	25.363	W	33	N	5.1	1.1	28	SOUTH SANDWICH ISLANDS REGION	
14	07	11	34.2?	32.33	S	67.74	W	127	?		0.5	7	MENDOZA PROVINCE, ARGENTINA	
a	14	07	26	51.7&	36.148	N	120.335	W	13	5.3 4.6		102	CENTRAL CALIFORNIA. <BRK>. ML 5.2 (BRK), 5.1 (PAS). Mo=3.8*10**16 Nm (BRK). Slight damage (V) at Coolingo. Also felt (V) at Firebaugh and Helm. Felt (IV) at Auberry, Avenal, Bass Lake, Big Creek, Brodley, Burrell, Contou Creek, Chowchilla, Clovis, Dos Palos, Ducor, Formersville, Kingsburg, Lemaore, Los Banos, Moriposo, Plonodo, Riverbank, Soledad, South Dos Palos, Tollhouse, Tulare and Twin Harte. Felt throughout much of central California as for north as Sacramento.	
14	09	00	50.4	0.743	N	126.233	E	52	*	5.2	1.2	40	MOLUCCA PASSAGE	
14	10	34	38.7*	36.615	S	97.853	W	10	G	4.9 4.7	1.1	32	WEST CHILE RISE	
14	12	08	36.0	0.733	N	126.139	E	67	*	5.0	1.2	24	MOLUCCA PASSAGE	
14	12	42	15.0	32.658	S	70.141	W	124	?		0.4	13	CHILE-ARGENTINA BORDER REGION	
o	14	13	38	22.7	17.926	S	178.632	W	566	D	5.7	1.1	293	FIJI ISLANDS REGION
14	13	42	15.7	17.816	S	178.697	W	570	D	5.2	0.9	84	FIJI ISLANDS REGION	
14	15	24	01.8*	45.847	S	76.788	W	10	G	5.3 4.7	0.8	13	OFF COAST OF SOUTHERN CHILE	
14	15	24	54.7&	59.889	N	148.612	W	18				46	KENAI PENINSULA, ALASKA. <AGS-P>. ML 3.1 (PMR).	
14	15	26	04.3	6.215	S	146.995	E	109	*	3.7	1.1	11	EAST PAPUA NEW GUINEA REGION	
a	14	15	44	16.1	45.698	S	76.058	W	10	G	5.3 5.8	1.4	67	OFF COAST OF SOUTHERN CHILE
14	16	15	15.5*	56.131	N	162.322	E	33	N	4.9	0.7	11	NEAR EAST COAST OF KAMCHATKA	
a	14	16	42	18.1	54.720	N	161.741	E	33	N	5.7 5.0	1.1	301	NEAR EAST COAST OF KAMCHATKA
14	19	05	55.0	39.456	N	25.602	E	7		3.7	0.9	38	AEGEAN SEA. ML 3.7 (ATH).	
14	19	20	35.0	16.115	S	176.173	W	380	D	4.6	1.3	91	FIJI ISLANDS REGION	
14	19	44	02.7*	6.431	S	147.719	E	33	N	3.4	1.3	7	EAST PAPUA NEW GUINEA REGION	
14	19	54	00.3&	37.777	N	113.821	W	1				12	UTAH. <SLC-P>. ML 3.2 (SLC).	
14	20	11	13.1?	20.84	S	178.90	W	596	?	4.3	1.1	13	FIJI ISLANDS REGION	
14	20	13	50.2	33.483	S	70.617	W	100	*		0.3	15	CHILE-ARGENTINA BORDER REGION	
14	22	04	55.0&	62.411	N	149.508	W	64				32	CENTRAL ALASKA. <AGS-P>.	
14	22	35	32.5*	4.984	S	151.316	E	141	*	4.5	1.3	13	NEW BRITAIN REGION	
14	22	50	13.2	5.550	S	152.062	E	70	*	4.6	1.1	15	NEW BRITAIN REGION	
14	23	00	46.6*	55.967	N	153.223	W	33	N		0.9	6	SOUTH OF ALASKA. ML 3.8 (PMR).	
14	23	03	13.9	41.332	N	79.512	E	33	N	4.7 4.0	1.0	28	KIRGHIZ-XINJIANG BORDER REGION	
14	23	08	43.9?	16.65	N	60.88	W	10	G		1.1	5	LEEWARD ISLANDS. ML 2.0 (FDF).	
14	23	25	45.5&	37.307	N	121.717	W	4				11	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).	
14	23	38	53.6	6.237	S	154.335	E	48		5.1	1.2	27	SOLOMON ISLANDS	

15	00 49 44.3&	59.936 N	152.052 W	57					38	SOUTHERN ALASKA. <AGS-P>.
15	01 57 17.4*	2.178 N	101.541 W	10 G	4.7	4.2	1.1		31	EAST CENTRAL PACIFIC OCEAN
15	02 55 23.8*	36.836 N	142.128 E	54 *	4.3		1.4		33	OFF EAST COAST OF HONSHU, JAPAN
15	03 14 59.3*	5.272 N	94.461 E	33 N	4.2		1.2		18	NORTHERN SUMATERA
15	03 42 11.0*	36.505 N	70.278 E	201 ?	4.1		0.6		13	HINDU KUSH REGION
15	04 18 23.0*	37.433 S	73.625 W	33 N	4.7		1.3		38	NEAR COAST OF CENTRAL CHILE
15	06 39 32.6? 23.06 S		71.09 W	33 N			1.5		7	OFF COAST OF NORTHERN CHILE
15	06 45 28.6	5.511 S	151.893 E	52	4.9		1.0		55	NEW BRITAIN REGION
15	06 58 59.3*	15.197 S	175.486 W	33 N	5.0	4.9	1.4		41	TONGA ISLANDS
15	08 36 55.5*	44.012 N	10.348 E	10 G			0.6		7	NORTHERN ITALY. ML 2.8 (LDG), 2.7 (KBA).
15	08 51 20.1	41.206 N	24.012 E	10 G			0.8		13	GREECE-BULGARIA BORDER REGION
15	09 39 57.1*	37.141 N	141.633 E	60 *	4.7	4.5	1.4		32	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Onahama.
15	09 57 20.0*	5.753 S	152.073 E	14 *	4.8	3.7	1.5		14	NEW BRITAIN REGION
15	11 21 22.4*	5.673 S	151.984 E	33 N	4.0		0.9		8	NEW BRITAIN REGION
15	11 29 51.6? 6.17 S		147.83 E	59 ?	3.6		0.4		6	EAST PAPUA NEW GUINEA REGION
15	12 35 11.7&	59.899 N	152.923 W	90					36	SOUTHERN ALASKA. <AGS-P>.
15	14 07 08.0&	36.165 N	120.325 W	9					9	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).
15	16 09 26.4	53.577 N	163.601 W	33 N	4.9	3.9	0.9		45	UNIMAK ISLAND REGION
15	16 55 05.4&	61.505 S	151.637 W	87	3.9				61	SOUTHERN ALASKA. <AGS-P>.
15	17 38 39.6	9.729 S	75.560 W	26 *	4.7		1.3		24	PERU
15	17 48 52.3? 53.56 N		160.04 E	33 N	4.7		1.1		19	NEAR EAST COAST OF KAMCHATKA
15	18 04 10.4	5.406 E	153.876 E	84 *	3.9		1.0		12	NEW IRELAND REGION
15	18 23 18.9*	22.311 S	68.836 W	141 *			0.8		9	NORTHERN CHILE
15	19 26 29.3	24.245 N	94.789 E	113	4.6		1.0		56	BURMA-INDIA BORDER REGION
15	19 41 02.2	36.958 N	141.209 E	42	4.9	4.5	1.1		82	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Onahama and (I JMA) at Ishinomaki and Fukushima.
15	19 52 51.4*	31.720 S	69.863 W	33 N			1.4		6	SAN JUAN PROVINCE, ARGENTINA
15	20 37 39.5	43.781 N	16.603 E	10			1.3		29	YUGOSLAVIA. ML 3.8 (TTG).
15	20 51 54.8*	17.739 N	178.050 W	663 *	4.5		0.4		15	FIJI ISLANDS REGION
15	21 47 37.1? 16.27 N		60.54 W	10 G			0.7		5	LEEWARD ISLANDS. ML 2.7 (FDF).
15	22 05 24.1	49.147 N	128.752 W	10 G	4.2		1.1		29	VANCOUVER ISLAND REGION
15	22 06 41.5*	19.126 N	108.902 W	10 G	4.1	3.9	1.0		20	REVILLA GIGEDO ISLANDS REGION
o	22 38 44.9	15.563 S	177.204 W	33 N	5.2	5.5	1.4		120	FIJI ISLANDS REGION
15	23 19 21.4	43.933 N	16.779 E	10 G			1.2		32	YUGOSLAVIA. ML 3.6 (TRI), 3.4 (TTG).
16	00 29 48.6*	5.868 S	147.751 E	48 ?	4.4		1.2		10	EAST PAPUA NEW GUINEA REGION
16	02 22 46.9	22.754 N	120.617 E	33 N	4.8		1.2		31	TAIWAN
16	02 45 43.1*	32.144 S	178.987 W	59	5.5		1.4		32	SOUTH OF KERMADEC ISLANDS
16	03 16 48.0? 6.54 S		147.63 E	44 ?	4.1		1.1		5	EAST PAPUA NEW GUINEA REGION
16	04 24 29.0	2.913 S	147.558 E	10 G	4.3		1.4		23	ADMIRALTY ISLANDS REGION
16	04 44 37.6	30.624 S	71.452 W	50	5.1	4.3	1.2		52	NEAR COAST OF CENTRAL CHILE. Felt (V) in the Ovalle area; (III) in the La Serena-Vicuna area and (II) in the Illapel area.
16	04 47 19.3? 16.691 N		61.386 W	33 N			0.7		5	LEEWARD ISLANDS. ML 2.7 (FDF).
16	06 55 19.2? 40.710 N		23.356 E	10 G			0.4		6	GREECE
16	07 36 47.0? 17.65 N		61.50 W	33 N			0.7		10	LEEWARD ISLANDS. ML 3.4 (FDF).
o	09 38 14.5	0.739 N	126.143 E	37 *	5.3	4.8	1.2		106	MOLUCCA PASSAGE
16	10 06 38.2? 39.305 S		27.897 E	10 G			1.2		5	TURKEY
16	10 26 08.1	5.622 S	147.658 E	53 *	5.0		1.1		46	EAST PAPUA NEW GUINEA REGION
16	10 44 16.5&	59.331 N	153.524 W	99					34	SOUTHERN ALASKA. <AGS-P>.
16	12 53 02.9	60.380 N	5.338 E	10 G			0.5		6	SOUTHERN NORWAY. MD 1.7 (BER).
16	14 37 20.0	20.596 S	68.971 W	95	5.0		0.8		38	CHILE-BOLIVIA BORDER REGION
16	15 40 39.3*	36.337 N	34.707 E	10 G			1.0		9	TURKEY
16	16 39 49.3	0.844 N	126.261 E	33 N	5.0		1.1		56	MOLUCCA PASSAGE
16	17 20 42.2	0.889 N	126.231 E	33 N	4.8		1.2		35	MOLUCCA PASSAGE
o	17 28 11.2	0.838 N	126.186 E	25	5.7	5.9	1.3		213	MOLUCCA PASSAGE
16	17 37 16.7	32.764 N	32.207 E	10 G			1.2		11	EASTERN MEDITERRANEAN SEA. ML 3.6 (JER).
16	17 45 59.9*	0.934 N	126.414 E	33 N	5.0		1.3		22	MOLUCCA PASSAGE
16	18 32 52.8*	24.246 S	70.375 W	53 *	4.9		1.4		19	NEAR COAST OF NORTHERN CHILE. Felt (III) at Antofagasta.
16	20 08 08.1*	0.841 N	126.285 E	33 N	4.4		1.0		11	MOLUCCA PASSAGE
16	20 41 00.7? 40.837 N		28.174 E	10 G			0.8		8	TURKEY
16	21 40 05.2*	5.993 S	147.745 E	44 *	4.0		1.1		10	EAST PAPUA NEW GUINEA REGION
16	22 20 48.8	0.910 N	126.314 E	33 N	5.0		1.2		46	MOLUCCA PASSAGE
16	22 44 07.1&	57.970 N	142.992 W	38					28	GULF OF ALASKA. <AGS-P>.
16	22 58 03.4	0.759 N	126.473 E	116 *	4.3		1.1		18	MOLUCCA PASSAGE
16	23 14 49.4	21.920 S	63.782 W	536	4.5		0.8		23	SOUTHERN BOLIVIA
17	00 28 12.3? 36.95 N		21.70 E	33 N			0.8		5	SOUTHERN GREECE. ML 4.1 (ATH).
17	02 46 22.7? 40.213 N		29.292 E	10 G			0.9		6	TURKEY
17	03 03 24.1	33.691 N	120.664 E	10 G	5.1	4.5	1.0		119	EASTERN CHINA. ML 5.4 (BJI). Some damage in Dafeng County. Felt in the Nanjing-Yancheng-Shanghai area.
o	04 19 57.6	19.676 S	168.761 E	33 N	5.6	5.6	1.2		233	VANUATU ISLANDS
17	04 25 35.1? 44.514 N		7.337 E	11			0.4		17	NORTHERN ITALY. ML 2.9 (LDG).
17	04 27 09.1&	59.905 S	153.464 W	128					40	SOUTHERN ALASKA. <AGS-P>.
17	04 39 36.2*	11.520 S	119.803 E	33 N	3.9		1.1		11	SOUTH OF SUMBA ISLAND
17	04 54 01.3&	60.151 N	152.967 W	110					27	SOUTHERN ALASKA. <AGS-P>.
17	05 17 43.3	19.689 S	168.812 E	33 N	5.3		1.3		83	VANUATU ISLANDS
f	06 16 12.1	32.793 S	179.304 W	10 G	5.9	6.6	1.2		294	SOUTH OF KERMADEC ISLANDS. Ms 6.5 (BRK), 6.4 (PAS).
17	07 55 59.6*	19.010 S	69.483 W	33 N			0.8		6	NORTHERN CHILE
17	09 27 56.4*	46.700 S	165.961 E	33 N	4.2		1.4		14	OFF W. COAST OF S. ISLAND, N.Z.
17	09 35 19.8	38.583 N	25.499 E	10 G			1.4		16	AEGEAN SEA. ML 3.8 (ATH).
17	10 25 33.5	0.235 N	122.499 E	124 *	5.2		0.9		26	MINAHASSA PENINSULA
17	11 00 22.6	17.227 S	24.950 E	10 G	4.9	4.5	0.7		28	ZAMBIA. Felt at Victoria Falls.
17	12 42 30.6*	0.847 N	126.555 E	33 N	4.7		1.4		16	MOLUCCA PASSAGE
17	12 42 48.9*	42.795 S	23.902 E	10 G			0.4		5	BULGARIA
o	12 56 56.0	58.705 S	25.157 W	33 N	5.3	5.1	0.9		81	SOUTH SANDWICH ISLANDS REGION
17	13 44 17.3	39.105 N	29.466 E	10 G			1.5		13	TURKEY
17	14 55 49.4*	6.756 S	147.322 E	44 *	4.4		1.3		11	EAST PAPUA NEW GUINEA REGION
17	15 02 03.2&	34.130 N	117.460 W	8					12	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS). Felt at Devare and San Bernardino.
17	17 24 32.1	45.514 N	26.333 E	157	3.8		0.8		21	ROMANIA
17	18 31 50.5*	44.618 N	9.536 E	10 G			1.0		12	NORTHERN ITALY
17	18 41 39.1? 15.60 N		60.31 W	33 N			1.2		10	LEEWARD ISLANDS. ML 2.7 (FDF).

17	21	34	32.07	32.14	S	71.36	W	33	N		1.2	10	NEAR COAST OF CENTRAL CHILE	
17	21	43	21.2	31.839	S	71.957	W	33	N	4.4	1.0	19	NEAR COAST OF CENTRAL CHILE	
17	22	36	57.4*	33.150	S	178.343	W	58	*	5.3	1.3	18	SOUTH OF KERMADEC ISLANDS	
17	22	55	10.5*	43.218	N	21.002	E	10	G		1.4	9	YUGOSLAVIA. ML 2.6 (TTG). Felt (V) in the Koooonik areo.	
17	22	55	45.7*	32.714	S	178.533	W	10	G	5.1	1.5	35	SOUTH OF KERMADEC ISLANDS	
17	23	06	42.6*	32.680	S	178.379	W	10	G	5.2	1.4	19	SOUTH OF KERMADEC ISLANDS	
a	18	00	00	52.5	51.298	N	179.279	W	33	N	6.2 5.9	1.0	372	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.5 (PMR), Ms 5.8 (BRK), 5.5 (PAS). Felt (V) on Adak.
18	01	09	41.8*	33.394	S	178.606	W	10	G	4.8	1.6	18	SOUTH OF KERMADEC ISLANDS	
18	01	57	11.0	41.053	N	20.208	E	10	G		1.2	22	ALBANIA. ML 3.2 (TTG).	
18	05	24	31.5%	40.615	N	27.804	E	10	G		0.9	9	TURKEY	
a	18	05	28	23.2	51.344	N	179.298	W	33	N	5.5 4.7	1.0	212	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.4 (PMR). Felt (III) on Adak.
18	05	34	59.0	34.949	N	32.294	E	49		4.6	0.9	73	CYPRUS. Felt in the Paphos areo.	
18	07	54	36.9*	59.816	N	4.391	E	10	G		1.3	7	SOUTHERN NORWAY. MD 2.0 (BER).	
18	08	20	02.5	44.310	N	129.038	W	10	G	4.6 4.5	1.3	51	OFF COAST OF OREGON	
a	18	10	32	14.4	55.728	S	27.022	W	33	N	5.5 5.0	1.0	80	SOUTH SANDWICH ISLANDS REGION
18	10	56	52.6	44.401	N	128.966	W	10	G	4.5 4.4	1.1	45	OFF COAST OF OREGON	
18	14	22	54.2*	0.976	N	126.418	E	33	N	4.8	1.2	24	MOLUCCA PASSAGE	
18	17	00	15.8	14.235	S	75.800	W	44	D	5.0	1.1	66	NEAR COAST OF PERU. Felt (V) at Ica; (IV) at Pisco, Plata and Nazca.	
18	20	28	29.4*	43.925	N	3.973	E	10	G		1.3	11	NEAR SOUTH COAST OF FRANCE. ML 2.5 (LDG).	
18	20	46	57.4	26.091	N	57.361	E	33	N	4.6	1.0	51	SOUTHERN IRAN	
18	21	28	01.9	47.583	N	8.871	E	10	G		1.2	11	SWITZERLAND. ML 2.6 (LDG).	
18	21	31	56.0	63.210	N	150.577	W	33	N		0.8	8	CENTRAL ALASKA. ML 3.0 (PMR).	
18	21	33	50.5	42.250	N	19.979	E	10	G		0.8	14	YUGOSLAVIA. MD 2.7 (TTG).	
18	22	27	00.3*	16.340	N	120.820	E	10		4.5	1.4	27	LUZON, PHILIPPINE ISLANDS	
19	02	14	50.07	50.08	N	19.34	E	10	G		1.6	5	POLAND. ML 2.6 (KRA).	
19	02	17	52.77	43.65	N	4.73	W	10	G		0.9	10	SPAIN. ML 3.3 (LDG).	
19	02	25	40.1%	40.788	N	30.226	E	10	G		1.1	7	TURKEY	
19	02	59	57.7	17.370	N	84.327	W	10	G	4.6 3.5	0.6	26	CARIBBEAN SEA	
19	05	29	11.7	37.446	N	118.396	W	5	G		0.5	9	CALIFORNIA-NEVADA BORDER REGION. ML 2.8 (NEIS).	
19	05	47	57.2*	32.562	S	177.902	W	10	G	5.2	1.3	17	SOUTH OF KERMADEC ISLANDS	
19	05	50	11.5%	34.846	N	97.488	W	5	G			7	OKLAHOMA. <TUL>. mbLg 2.1 (TUL).	
19	05	56	48.8%	15.256	N	61.341	W	10	G		0.3	8	LEEWARD ISLANDS. ML 2.8 (FDF).	
19	06	12	14.3	11.455	S	118.724	E	33	N	4.2	0.9	13	SOUTH OF SUMBAWA ISLAND	
19	06	12	21.9	17.821	S	178.732	W	623	*	4.6	0.6	44	FIJI ISLANDS REGION	
19	07	09	39.6*	28.752	S	68.957	W	130	?		1.3	15	LA RIOJA PROVINCE, ARGENTINA	
19	07	43	48.97	43.72	N	0.29	W	10	G		1.5	5	PYRENEES. ML 3.2 (LDG).	
19	07	47	12.6*	51.799	N	175.193	W	33	N	4.7	1.1	19	ANDREANOF ISLANDS, ALEUTIAN IS.	
19	08	41	09.7*	45.551	N	26.497	E	188	*		0.8	11	ROMANIA	
a	19	09	32	45.6*	28.034	S	176.196	W	10	G	4.9 5.0	1.3	30	KERMADEC ISLANDS REGION
19	10	00	16.1*	20.903	S	70.919	W	33	N		1.3	6	NEAR COAST OF NORTHERN CHILE	
a	19	10	02	16.4*	32.722	S	178.839	W	33	N	5.3 4.7	1.4	34	SOUTH OF KERMADEC ISLANDS
19	14	01	08.1*	40.278	N	25.853	E	10	G		1.1	5	AEGEAN SEA	
19	18	05	51.1%	60.109	N	151.450	W	66				34	KENAI PENINSULA, ALASKA. <AGS-P>.	
19	18	49	31.9*	6.560	S	129.871	E	165	?	4.6	1.3	24	BANDA SEA	
19	19	38	01.67	16.30	N	148.10	E	33	N	5.1	1.1	19	MARIANA ISLANDS REGION	
19	22	25	17.47	33.22	S	179.23	W	33	N	4.7	1.5	12	SOUTH OF KERMADEC ISLANDS	
19	22	30	47.0%	61.394	N	149.702	W	39				40	SOUTHERN ALASKA. <AGS-P>. ML 3.7 (PMR). Felt (IV) at Chugiak and (III) at Anchorage, Eagle River and Palmer.	
19	22	41	25.2	40.200	N	21.560	E	35	*	4.1	1.1	28	GREECE. ML 4.0 (ATH), 3.8 (TTG).	
19	23	07	52.2%	61.389	N	149.698	W	37				33	SOUTHERN ALASKA. <AGS-P>.	
20	00	16	16.7*	9.812	N	126.256	E	48	*	4.9	1.1	27	MINDANAO, PHILIPPINE ISLANDS	
20	02	41	00.0%	62.063	N	151.431	W	82				20	CENTRAL ALASKA. <AGS-P>.	
20	04	44	40.4%	60.144	N	152.764	W	101				31	SOUTHERN ALASKA. <AGS-P>.	
20	05	26	50.9	48.030	N	7.504	E	10	G		0.4	7	FRANCE. ML 2.3 (LDG).	
20	10	15	26.2*	6.208	S	147.906	E	48	*	4.8	1.4	14	EAST PAPUA NEW GUINEA REGION	
20	10	30	15.1*	17.636	S	178.668	W	604		4.7	0.9	60	FIJI ISLANDS REGION	
20	13	10	35.4*	24.169	N	122.098	E	33	N	3.9	1.4	14	TAIWAN REGION	
20	14	27	34.4	7.047	S	129.704	E	49		5.0	1.1	89	BANDA SEA	
20	17	59	04.4*	40.384	N	32.956	E	10	G		0.2	6	TURKEY	
20	18	30	56.1	2.396	S	138.368	E	27	*	4.8	1.3	34	WEST IRIAN	
20	20	30	17.2	41.861	N	20.300	E	10	G		1.1	12	ALBANIA. ML 3.1 (SKO), 2.8 (TTG).	
20	20	52	57.5	42.520	N	142.139	E	33	N	4.7	0.7	15	HOKKAIDO, JAPAN REGION	
20	23	30	01.4*	16.625	S	176.731	E	32	*	4.2	1.1	12	FIJI ISLANDS REGION	
21	00	34	27.7*	12.637	S	77.089	W	10	G		0.7	6	NEAR COAST OF PERU	
21	01	01	57.3	41.273	N	23.663	E	10	G		0.7	9	GREECE-BULGARIA BORDER REGION. ML 1.4 (SKO).	
21	01	05	20.0*	0.597	N	126.152	E	42	*	5.2 4.3	1.1	64	MOLUCCA PASSAGE	
21	05	38	53.6*	5.982	S	148.252	E	68	?	4.4	1.6	8	NEW BRITAIN REGION	
21	06	06	36.0%	37.237	N	121.650	W	3				12	CENTRAL CALIFORNIA. <BRK>. ML 2.7 (BRK).	
21	06	53	23.47	6.51	S	147.35	E	57	?	3.8	1.3	5	EAST PAPUA NEW GUINEA REGION	
21	07	03	47.1%	61.382	N	150.968	W	65				37	SOUTHERN ALASKA. <AGS-P>.	
21	09	31	39.5	8.488	S	74.212	W	169	D	4.8	0.8	100	PERU-BRAZIL BORDER REGION	
21	10	59	09.3*	60.428	S	26.454	W	33	N	5.2 5.2	1.2	36	SOUTH SANDWICH ISLANDS REGION	
21	12	05	32.4%	37.510	N	118.400	W	6	G			14	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.1 (PAS).	
21	12	55	15.6*	6.013	S	104.870	E	33	N	4.8	1.1	30	SUNDA STRAIT	
21	13	02	19.6%	36.590	N	121.228	W	6				22	CENTRAL CALIFORNIA. <BRK>. ML 3.3 (BRK), 3.2 (PAS).	
21	13	32	45.27	5.54	S	131.39	E	33	N		1.1	5	BANDA SEA	
21	14	22	31.2*	14.535	N	123.649	E	95	*	4.5	1.2	17	LUZON, PHILIPPINE ISLANDS	
a	21	15	26	26.9	6.103	S	147.778	E	44	D	5.4 5.2	1.2	70	EAST PAPUA NEW GUINEA REGION
21	15	57	14.0*	37.841	N	27.207	E	10	G		1.0	11	TURKEY	
21	15	57	22.8*	55.576	N	161.405	E	33	N	4.6 4.6	0.6	30	NEAR EAST COAST OF KAMCHATKA	
21	16	14	36.27	5.90	S	148.03	E	33	N	4.1	1.4	5	NEW BRITAIN REGION	
21	17	34	34.8*	14.064	S	167.046	E	33	N	4.2	0.7	20	VANUATU ISLANDS	
21	17	41	40.2*	16.245	S	167.554	E	33	N	4.2	0.8	20	VANUATU ISLANDS	
21	18	21	58.6*	31.612	S	177.822	W	33	N	4.9	1.5	16	KERMADEC ISLANDS REGION	
21	18	28	27.1%	60.127	N	152.905	W	96				26	SOUTHERN ALASKA. <AGS-P>.	
21	18	46	43.1*	33.486	S	179.181	W	33	N	4.5	1.6	8	SOUTH OF KERMADEC ISLANDS	
21	18	53	14.0	2.769	S	138.614	E	43	*	4.5 4.3	1.2	31	WEST IRIAN	
21	19	02	56.6*	51.759	N	16.447	E	10	G		1.0	11	POLAND. ML 3.4 (GRF), 3.4 (VKA), 3.1 (KBA).	
21	19	29	59.6%	40.479	N	27.209	E	10	G		0.2	5	TURKEY	

21	20 36 39.4?	11.23 N	86.55 W	33 N	4.4 3.8	0.9	15	NEAR COAST OF NICARAGUA
21	20 39 01.3	36.011 N	139.761 E	97	4.7	1.0	35	HONSHU, JAPAN. Felt (I JMA) at Mito and Utsunomiya; (I JMA) at Ajira, Kumagaya and Tokyo.
21	20 49 04.5?	25.10 N	122.32 E	79 *	4.4	0.2	11	TAIWAN REGION
21	22 17 54.7?	4.65 S	143.68 E	33 N	4.1	1.3	6	PAPUA NEW GUINEA
o 21	22 19 55.3	54.931 N	110.981 E	33 N	4.7 4.7	1.1	33	LAKE BAIKAL REGION
21	22 31 06.2	11.215 N	86.834 W	33 N	4.5 3.6	0.9	22	NEAR COAST OF NICARAGUA
21	23 15 29.9&	34.130 N	117.450 W	8			27	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.9 (PAS). Felt (V) at Colton and (IV) at Atwood, Crestline, Crest Park, Fontana, Guasti, Mira Loma, Ontario and San Bernardino. Felt in ports of Los Angeles, Orange, Riverside and San Bernardino Counties.
o 22	01 22 29.5	78.866 N	125.966 E	10 G	5.2 5.1	0.9	172	EAST OF SEVERNAYA ZEMLYA
22	02 32 18.5	63.808 N	22.677 W	10 G	4.1	0.9	24	ICELAND REGION
22	03 18 02.3	42.215 N	24.942 E	8		1.1	24	BULGARIA
22	04 27 22.0*	4.980 S	133.421 E	33 N	4.6	1.4	14	WEST IRIAN REGION
22	04 48 21.4*	36.556 N	71.214 E	33 N	4.7	1.4	13	AFGHANISTAN-USSR BORDER REGION
22	04 50 32.1%	45.176 N	3.359 E	10 G		0.7	9	FRANCE. ML 2.4 (LDG).
22	06 51 41.8	38.418 N	40.551 E	10 G	4.9	1.1	43	TURKEY. Felt in the Mardin-Elozig-Bingol area.
22	09 28 46.1*	19.261 S	68.523 W	33 N		1.0	6	CHILE-BOLIVIA BORDER REGION
22	09 29 35.8%	39.571 N	29.415 E	10 G		0.6	5	TURKEY
22	09 33 41.9	43.295 N	25.901 E	10 G		0.7	7	BULGARIA
22	10 22 03.7*	38.098 N	20.547 E	24	4.1	0.9	21	GREECE. ML 3.9 (TTG), 3.8 (ATH).
22	12 12 40.0%	15.773 N	60.551 W	23 *		0.2	8	LEEWARD ISLANDS. ML 2.7 (FDF).
22	12 26 44.9*	40.232 N	139.117 E	33 N	4.5	0.8	13	NEAR WEST COAST OF HONSHU, JAPAN
22	12 45 46.5*	6.338 S	154.362 E	41 *	4.6	0.5	9	SOLOMON ISLANDS
22	13 18 20.9*	32.784 S	71.645 W	13		0.7	14	NEAR COAST OF CENTRAL CHILE. Felt (II) at Santiago.
22	13 24 08.1%	39.048 N	27.842 E	10 G		1.2	6	TURKEY
22	13 48 31.6	45.347 N	112.494 W	5 G		0.7	10	MONTANA. ML 2.9 (NEIS), 3.3 (BUT).
22	14 12 13.2%	39.280 N	27.609 E	10 G		1.0	6	TURKEY
22	17 54 49.6*	6.769 S	155.825 E	152 *	4.3	0.9	10	SOLOMON ISLANDS
22	18 43 10.3	31.503 S	67.977 W	10 G		0.9	6	SAN JUAN PROVINCE, ARGENTINA
22	19 14 19.8?	45.04 N	3.11 E	10 G		0.8	6	FRANCE. ML 2.1 (LDG).
22	19 22 11.4&	62.278 N	150.317 W	59			26	CENTRAL ALASKA. <AGS-P>.
22	20 35 31.1*	7.536 S	127.533 E	94 ?	4.4	1.2	19	BANDA SEA
22	22 35 57.5?	6.608 S	147.73 E	63 ?	4.3	0.9	7	EAST PAPUA NEW GUINEA REGION
22	23 05 03.8*	36.214 N	140.072 E	33 N		0.3	5	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Mito and Utsunomiya.
22	23 52 44.9*	32.208 S	68.510 W	33 N		0.9	5	MENDOZA PROVINCE, ARGENTINA
22	23 56 44.1%	16.770 N	61.484 W	33 N		0.6	6	LEEWARD ISLANDS. ML 2.8 (FDF).
o 23	00 21 21.2	38.983 N	70.706 E	33 N	5.0 4.7	1.4	87	AFGHANISTAN-USSR BORDER REGION. Felt (VI) at Garm; (V) at Khoit and Tavildara; (IV) at Dzhirgotol, Obigarm and Rogun. Also felt (III) at Dushonbe and Kulyob and (II) at Khorog, USSR.
23	01 31 15.8%	46.101 N	1.641 E	10 G		0.5	7	FRANCE. ML 2.1 (LDG).
23	02 14 15.3?	19.76 S	168.80 E	33 N	4.7	0.8	10	VANUATU ISLANDS
o 23	02 43 39.5	57.922 S	25.350 W	27 D	5.9 5.7	1.0	176	SOUTH SANDWICH ISLANDS REGION
23	03 11 21.5%	59.967 N	5.755 E	10 G		0.2	5	SOUTHERN NORWAY. MD 1.6 (BER).
23	03 19 08.5	39.083 N	27.808 E	10 G		1.0	10	TURKEY
23	03 37 25.3?	65.91 S	174.96 W	10 G	4.8 4.8	1.4	11	SOUTH PACIFIC CORDILLERA
23	04 16 55.5%	40.337 N	27.439 E	10 G		1.4	9	TURKEY
23	07 19 58.9	13.645 N	123.896 E	42	4.8	0.9	49	LUZON, PHILIPPINE ISLANDS
23	07 45 25.7*	24.647 N	123.206 E	33 N	4.4	0.8	9	SOUTHWESTERN RYUKYU ISLANDS
23	08 05 19.5?	54.57 S	161.15 E	33 N	4.5	0.9	14	NEAR EAST COAST OF KAMCHATKA
23	10 57 16.9&	39.392 N	112.157 W	3			20	UTAH. <SLC-P>. MD 2.8 (SLC).
23	11 23 47.4*	34.378 N	57.324 E	33 N	4.6	1.0	7	IRAN. ML 4.5 (MHI). Felt at Tobas and Ferdows.
o 23	11 27 52.3*	15.699 S	177.103 W	13	5.0 5.1	1.1	39	FIJI ISLANDS REGION
23	13 14 19.2	7.342 S	120.019 E	626	5.2	1.0	90	FLORES SEA
23	15 03 56.8	24.969 N	123.803 E	33 N	4.7	1.3	19	SOUTHWESTERN RYUKYU ISLANDS
23	15 10 48.3	6.225 S	147.233 E	109 *	3.9	1.4	21	EAST PAPUA NEW GUINEA REGION
o 23	15 49 54.6	15.854 S	167.891 E	234	5.9	1.1	289	VANUATU ISLANDS. Two events about 6 seconds apart, observed on broadband displacement seismograms.
23	17 16 54.4*	4.352 S	152.733 E	33 N		1.1	7	NEW BRITAIN REGION
23	18 19 01.8	25.146 N	123.936 E	17	4.7	1.2	56	NORTHEAST OF TAIWAN
23	19 15 14.1*	31.734 S	68.024 W	10 G		1.5	5	SAN JUAN PROVINCE, ARGENTINA
23	19 43 26.3&	60.090 N	152.908 W	114			30	SOUTHERN ALASKA. <AGS-P>.
23	20 41 27.8*	15.857 N	147.022 E	33 N	4.5	1.4	27	MARIANA ISLANDS REGION
23	21 19 08.5?	56.26 S	27.05 E	33 N	5.1	1.4	11	SOUTH SANDWICH ISLANDS REGION
23	22 22 10.9*	39.890 N	7.582 W	10 G		1.1	5	PORTUGAL. MG 3.0 (MTH). Felt (III) at Castelo Branco.
23	22 24 39.0*	5.855 S	146.863 E	70 *	4.4	1.3	12	EAST PAPUA NEW GUINEA REGION
23	22 31 05.7	41.355 N	79.310 E	33 N	4.6	1.0	26	KIRGHIZ-XINJIANG BORDER REGION
23	22 49 14.9*	3.878 S	145.602 E	33 N	4.1	1.3	9	NEAR N COAST OF PAPUA NEW GUINEA
23	23 42 10.2?	51.72 N	8.58 E	10 G		0.6	5	GERMANY. ML 2.4 (BNS).
23	23 49 35.4	0.824 N	126.355 E	47 *	5.1	1.2	52	MOLUCCA PASSAGE
o 24	00 51 26.7	56.608 S	147.329 E	10 G	5.8 5.8	1.1	110	WEST OF MACQUARIE ISLAND
24	01 18 52.0	51.487 N	176.773 W	33 N	5.1 5.1	1.2	71	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.3 (PMR). Felt (IV) on Adok.
24	01 36 22.7	22.046 S	68.339 W	122 D	5.1	1.2	64	NORTHERN CHILE
24	02 52 38.2	51.658 N	16.370 E	12		0.6	10	POLAND. ML 3.4 (GRF), 3.4 (VKA), 3.3 (KBA).
24	03 38 38.3*	30.023 S	71.387 W	33 N		1.0	13	NEAR COAST OF CENTRAL CHILE
24	04 12 00.5%	44.400 N	7.222 E	10 G		0.3	14	NORTHERN ITALY. ML 2.7 (LDG).
24	04 39 11.5	43.488 N	126.821 W	10 G	4.5	1.2	24	OFF COAST OF OREGON
24	05 36 00.9*	0.141 S	98.932 E	54 ?	4.3	1.3	16	SOUTHERN SUMATERA
24	06 15 21.9	51.437 N	174.808 W	33 N	5.0 4.7	0.9	99	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.6 (PMR).
24	07 40 08.7	52.556 N	157.736 E	121 D	5.0	0.7	141	KAMCHATKA
24	09 21 05.5*	19.672 S	68.877 W	147 *	4.2	0.9	17	CHILE-BOLIVIA BORDER REGION
24	09 41 36.4&	59.956 N	153.637 W	152			28	SOUTHERN ALASKA. <AGS-P>.
24	14 52 49.0	4.290 N	95.161 E	50 *	5.1 4.4	0.9	98	NORTHERN SUMATERA
24	16 29 31.5	43.593 N	10.659 E	10 G		1.1	17	CENTRAL ITALY. MD 2.9 (FIR). ML 2.9 (LDG), 2.8 (KBA).
24	16 32 17.1*	16.756 N	145.530 E	33 N	4.9	0.9	10	MARIANA ISLANDS
24	17 57 48.5*	6.128 S	147.866 E	50 ?	3.3	0.6	6	EAST PAPUA NEW GUINEA REGION
24	18 23 53.3?	30.73 S	178.61 W	33 N	4.8	1.2	8	KERMADEC ISLANDS
24	19 32 32.6*	3.070 S	129.471 E	33 N	4.8	1.2	23	CERAM

24	20 14 41.7	38.305 N	22.411 E	60 *	3.7	1.0	18	GREECE
24	20 47 21.7*	24.092 S	66.665 W	205 ?	4.4	1.2	11	SALTA PROVINCE, ARGENTINA
24	21 11 53.8%	16.765 N	61.389 W	10 G		0.7	6	LEEWARD ISLANDS. ML 3.0 (FDF).
24	22 17 07.5*	29.052 N	81.854 E	112 ?	4.4	0.9	11	NEPAL
24	23 00 56.8*	43.732 N	145.600 E	33 N	4.1	0.7	9	HOKKAIDO, JAPAN REGION
24	23 17 27.6*	36.257 N	27.867 E	10 G		0.6	7	DODECANESE ISLANDS
25	00 52 43.6%	59.774 N	152.092 W	71			33	SOUTHERN ALASKA. <AGS-P>.
25	00 52 56.5	38.330 N	26.755 E	10 G		0.7	19	AEGEAN SEA. ML 3.9 (ATH).
25	00 54 18.8%	15.387 N	60.714 W	30 *		1.3	9	LEEWARD ISLANDS. ML 3.1 (FDF).
25	00 59 46.1*	38.217 N	26.669 E	10 G		1.0	5	AEGEAN SEA
o 25	01 07 52.8	2.480 S	141.879 E	30	5.4 5.1	1.1	128	NEAR N COAST OF PAPUA NEW GUINEA
o 25	02 01 21.4	27.912 S	177.074 W	72 *	5.0	1.0	34	KERMADEC ISLANDS REGION. Felt (IV) on Raoul Island.
25	03 46 59.8*	9.211 S	109.816 E	33 N	4.4	1.4	10	SOUTH OF JAVA
25	04 00 30.0*	5.590 S	103.632 E	43 *	4.9	1.0	27	SOUTHERN SUMATERA
25	05 22 38.9*	31.351 S	67.800 W	10 G		1.5	11	SAN JUAN PROVINCE, ARGENTINA
25	09 15 37.3*	34.847 N	140.930 E	33 N	4.1	0.5	6	NEAR EAST COAST OF HONSHU, JAPAN
25	09 34 55.3*	12.632 S	77.015 W	10 *		1.3	6	NEAR COAST OF PERU
o 25	10 42 45.0	27.927 S	66.835 W	172 D	5.2	1.3	81	CATAMARCA PROVINCE, ARGENTINA
25	11 11 44.9	56.504 N	153.069 W	33 N	4.6	1.2	27	KODIAK ISLAND REGION. ML 3.7 (PMR).
o 25	11 27 13.6	6.123 S	147.637 E	65 D	5.6	1.0	200	EAST PAPUA NEW GUINEA REGION
25	12 20 47.7	43.322 N	20.909 E	15	4.6	0.9	33	YUGOSLAVIA. ML 3.4 (TTG), 3.2 (KBA). About 300 homes damaged in the epicentral area.
25	12 26 33.9%	60.404 N	147.539 W	27	4.0		45	SOUTHERN ALASKA. <AGS-P>. ML 3.7 (PMR).
25	12 30 33.5%	41.823 N	112.322 W	2	3.9		40	UTAH. <SLC-P>. ML 3.7 (SLC), 3.7 (NEIS). Felt (V) at Howell and Garland, (IV) at Fielding, Plymouth, Portage, Riverside and Snowville, (III) at Franklin, Lewiston, Newton, Park Valley and Willard. Also felt (IV) at Malad City, Idaho and (III) at Holbrook and Stone, Idaho.
25	13 52 27.2%	31.450 N	114.720 W	6 G			3	GULF OF CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
25	14 11 36.8%	58.21 N	6.40 E	10 G		0.7	7	SOUTHERN NORWAY. MD 2.4 (BER).
25	14 20 05.3	21.730 N	111.643 E	33 N	4.1	1.1	16	EASTERN CHINA. Felt at Fashan, Guangzhou, Zhanjiang, Zhaoqing and Wuzhou.
25	14 37 05.9	7.679 S	116.980 E	305	5.4	1.1	124	BALI SEA
o 25	15 20 18.4	18.808 N	121.080 E	16	5.3 5.3	1.2	181	LUZON, PHILIPPINE ISLANDS. Felt (VI RF) at Pasuquin, (III RF) at Santa and (II RF) at Callao Cove.
25	15 24 19.4*	42.807 N	23.323 E	10 G		1.2	7	BULGARIA
25	17 43 15.2%	62.352 N	147.767 W	41			32	CENTRAL ALASKA. <AGS-P>. ML 3.5 (PMR).
25	18 15 46.7	44.193 N	10.027 E	10 G		1.1	13	NORTHERN ITALY. ML 3.0 (LDG), 2.6 (KBA).
25	18 43 23.7*	13.566 N	121.801 E	153		0.4	8	MINDORO, PHILIPPINE ISLANDS
25	18 47 27.7%	44.226 N	10.125 E	10 G		0.5	9	NORTHERN ITALY. ML 2.8 (LDG).
25	19 55 08.5*	40.974 N	116.321 W	5 G		0.7	13	NEVADA. ML 3.8 (NEIS).
o 25	19 56 35.5	38.102 N	91.179 E	26 D	5.7 5.7	0.9	282	QINGHAI PROVINCE, CHINA. Felt in the Mangya area.
25	20 27 24.9	38.138 N	91.217 E	33 N	5.0	0.7	76	QINGHAI PROVINCE, CHINA
25	23 30 02.1%	33.230 N	116.070 W	7			9	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
26	00 18 18.0*	60.452 N	59.046 E	10 G	4.5	1.1	12	URAL MOUNTAINS REGION
o 26	00 24 03.5	30.036 N	141.927 E	33 N	5.2 4.8	1.0	144	SOUTH OF HONSHU, JAPAN
26	00 40 09.0*	16.072 S	167.188 E	33 N		1.1	15	VANUATU ISLANDS
26	02 04 07.2%	35.308 N	96.620 W	5 G			6	OKLAHOMA. <TUL>. mLg 1.9 (TUL).
26	04 02 05.6%	72.890 N	70.280 W	18	4.0		11	BAFFIN BAY. <OTT>.
26	04 05 27.0	6.811 S	125.841 E	485	5.0	0.9	60	BANDA SEA
26	04 19 20.0*	7.918 N	126.442 E	109 *	4.4	1.1	11	MINDANAO, PHILIPPINE ISLANDS
26	04 25 22.0%	48.07 N	129.03 W	10 G	3.8	1.5	7	VANCOUVER ISLAND REGION
26	04 30 35.8	19.700 S	168.707 E	43 *	5.2	1.3	81	VANUATU ISLANDS
26	04 31 39.7%	35.45 N	21.49 E	33 N	3.7	0.8	7	MEDITERRANEAN SEA
26	04 36 08.4	19.795 S	168.693 E	50	5.4 5.2	1.2	112	VANUATU ISLANDS
26	04 46 31.8%	42.301 N	19.045 E	10 G		0.4	6	YUGOSLAVIA. ML 2.2 (TTG).
26	04 50 10.1*	48.277 N	7.643 E	10 G		0.6	7	FRANCE. ML 2.7 (LDG).
26	04 58 22.0	49.839 N	78.122 E	0 G	5.4	0.9	172	EASTERN KAZAKH SSR
26	05 32 40.5	4.487 N	126.287 E	33 N	5.1	1.0	35	TALAUD ISLANDS
26	05 39 02.9	6.798 N	73.025 W	160	4.2	1.0	17	NORTHERN COLOMBIA
26	06 37 37.6*	1.466 N	126.654 E	33 N	4.6	0.4	7	MOLUCCA PASSAGE
26	06 39 52.7%	42.330 N	18.887 E	10 G		0.7	7	YUGOSLAVIA. ML 2.5 (TTG). Felt slightly at Budva.
26	07 34 18.6%	51.46 N	175.24 W	33 N	4.5	1.4	13	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.5 (PMR).
26	07 49 48.4	42.356 N	18.891 E	10 G		1.3	15	YUGOSLAVIA. ML 3.0 (TTG). Felt.
26	08 54 38.3*	8.390 S	80.180 W	33 N	4.6	1.1	9	OFF COAST OF NORTHERN PERU
26	08 58 41.1*	37.811 N	91.145 E	33 N	4.3	1.0	7	QINGHAI PROVINCE, CHINA
26	09 43 26.5*	31.911 S	68.643 W	33 N		1.0	5	SAN JUAN PROVINCE, ARGENTINA
26	10 48 54.6	53.507 N	163.696 W	33 N	4.8	1.1	61	UNIMAK ISLAND REGION
26	11 04 31.3%	32.960 N	117.730 W	6 G			9	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.0 (PAS).
26	12 16 47.8	6.116 S	104.766 E	33 N	5.2 4.6	1.0	59	SUNDA STRAIT
26	12 17 59.6*	37.817 N	141.975 E	49 *	4.3	0.9	14	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Ishinomaki and Miyako.
26	12 19 08.9*	10.281 N	86.484 W	33 N	4.1	0.7	11	OFF COAST OF COSTA RICA. MD 4.2 (HDC).
26	12 28 40.2%	10.41 N	86.82 W	33 N	4.2	0.1	9	OFF COAST OF COSTA RICA. MD 4.3 (HDC).
26	12 41 09.6%	37.545 N	118.890 W	7			21	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.1 (BRK), 3.2 (PAS).
26	12 44 20.2%	61.953 N	151.245 W	75			22	SOUTHERN ALASKA. <AGS-P>.
26	13 01 22.5%	41.827 N	112.327 W	3			6	UTAH. <SLC-P>. ML 2.8 (SLC).
26	13 02 00.2%	37.547 N	118.890 W	8			27	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.5 (BRK), 3.4 (PAS).
26	13 02 51.6%	60.396 N	5.100 E	10 G		0.6	7	SOUTHERN NORWAY. MD 1.5 (BER).
26	13 13 24.6*	14.575 N	119.230 E	62 *	4.5	1.3	19	LUZON, PHILIPPINE ISLANDS
26	13 16 19.5*	14.555 N	119.067 E	33 N	4.7	0.7	10	LUZON, PHILIPPINE ISLANDS
26	13 20 32.3	14.533 N	119.139 E	36	4.7	1.0	42	LUZON, PHILIPPINE ISLANDS
26	13 24 06.9	14.580 N	119.141 E	32	5.1	1.0	42	LUZON, PHILIPPINE ISLANDS
26	13 55 40.9*	63.136 N	149.973 W	33 N		0.4	5	CENTRAL ALASKA. ML 3.0 (PMR).
26	15 59 34.8*	8.572 S	75.433 W	33 N	5.1	1.0	11	PERU
26	16 01 58.0*	20.322 S	173.727 W	33 N	4.8	1.4	22	TONGA ISLANDS
26	16 35 30.8	39.491 N	25.644 E	10 G		0.9	14	AEGEAN SEA
26	17 13 17.1	27.633 S	67.594 W	175 *		0.9	14	CATAMARCA PROVINCE, ARGENTINA
26	18 02 13.9%	39.095 N	28.508 E	10 G		1.1	5	TURKEY
26	18 02 31.0%	5.29 S	148.10 E	33 N	3.7	1.2	7	NEW BRITAIN REGION

26	19 28 36.9	38.908 N	27.807 E	10 G	0.6	6	TURKEY
26	23 20 45.6*	41.457 N	20.301 E	33 N	1.2	11	ALBANIA. ML 2.7 (TTG).
27	00 43 36.0	38.497 N	21.380 E	10 G	1.3	11	GREECE. ML 3.6 (ATH).
27	00 51 07.1?	15.10 N	118.76 E	33 N	4.5	0.3	5 PHILIPPINE ISLANDS REGION
27	01 15 17.0?	42.383 N	19.797 E	10 G	0.5	6	YUGOSLAVIA. ML 2.2 (TTG).
a	27 01 39 55.4*	2.399 N	98.612 W	33 N	4.8 4.6	1.2	43 WEST OF GALAPAGOS ISLANDS
27	02 00 25.5	47.923 N	7.904 E	10 G	0.2	7	SWITZERLAND. ML 2.2 (LDG).
27	02 46 04.0&	40.900 N	123.300 W	18		7	NORTHERN CALIFORNIA. <BRK>. ML 2.8 (BRK).
27	03 53 08.9?	36.70 N	36.62 E	10 G	1.4	6	JORDAN - SYRIA REGION
27	04 25 40.8&	59.587 N	152.800 W	80		15	SOUTHERN ALASKA. <AGS-P>.
27	04 49 01.5?	46.213 N	3.413 E	10 G	0.3	5	FRANCE. ML 1.9 (LDG).
27	04 50 31.9?	46.243 N	3.392 E	10 G	0.2	9	FRANCE. ML 2.2 (LDG).
27	05 21 18.9*	4.096 S	135.581 E	33 N	4.3	0.9	10 WEST IRIAN REGION
27	06 20 26.1&	35.710 N	117.710 W	5		9	CENTRAL CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
27	06 23 06.1&	59.976 N	153.308 W	143	4.4	36	SOUTHERN ALASKA. <AGS-P>.
27	06 44 47.6?	11.45 S	122.32 E	33 N	4.0	1.1	6 SOUTH OF TIMOR
a	27 06 50 54.4	17.238 S	176.953 W	10 G	5.2	1.4	72 FIJI ISLANDS REGION
27	07 32 09.3*	23.060 S	66.669 W	234 *		0.4	8 JUJUY PROVINCE, ARGENTINA
27	08 13 59.8	54.758 N	162.116 E	33 N	4.8	0.8	47 NEAR EAST COAST OF KAMCHATKA
f	27 08 31 54.4	53.470 N	167.291 W	10 G	6.2 6.7	1.1	428 FOX ISLANDS, ALEUTIAN ISLANDS. Ms 6.8 (BRK), 6.5 (PAS). Minor damage at Dutch Harbor and Unalaska. Felt (V) at Akutan, (III) at Cold Bay and False Pass and (II) at Sandpoint.
27	09 02 14.5?	53.54 N	167.48 W	10 G	4.7	0.6	10 FOX ISLANDS, ALEUTIAN ISLANDS
27	09 02 31.9*	53.188 N	167.407 W	10 G	4.5	1.2	19 FOX ISLANDS, ALEUTIAN ISLANDS
27	09 54 08.6	53.527 N	167.318 W	10 G	4.6	1.0	31 FOX ISLANDS, ALEUTIAN ISLANDS
27	10 12 30.7*	53.630 N	167.090 W	10 G	4.3	0.9	14 FOX ISLANDS, ALEUTIAN ISLANDS
27	10 36 53.7?	42.362 N	19.837 E	10 G		0.4	6 YUGOSLAVIA. ML 2.4 (TTG).
27	10 46 03.8	5.435 S	148.175 E	49 *	4.7	1.2	16 NEW BRITAIN REGION
27	11 48 33.3?	40.72 N	19.47 E	10 G		0.5	5 ALBANIA. ML 2.6 (TTG).
27	12 17 59.6?	16.73 S	167.47 E	222 ?	4.4	0.8	20 VANUATU ISLANDS
27	12 29 55.1&	38.815 N	122.795 W	5		20	NORTHERN CALIFORNIA. <BRK>. ML 3.4 (BRK). Mo=2.2*10**14 Nm (BRK). Felt at Middletown.
27	12 34 50.6	2.514 S	126.411 E	33 N	4.5	1.0	24 CERAM SEA
27	12 57 05.5*	53.377 N	167.207 W	10 G	4.6	0.5	7 FOX ISLANDS, ALEUTIAN ISLANDS
27	14 56 23.8?	53.20 N	167.12 W	10 G	4.4	1.9	11 FOX ISLANDS, ALEUTIAN ISLANDS
27	15 00 14.9	53.469 N	167.235 W	10 G	4.5	0.8	21 FOX ISLANDS, ALEUTIAN ISLANDS
27	16 24 57.7&	37.542 N	118.887 W	8		29	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.9 (BRK), 3.5 (PAS). Felt (III) at Mammoth Lakes, California.
27	17 36 51.8?	15.090 N	60.578 W	33 N		0.3	10 LEEWARD ISLANDS. ML 2.6 (FDF).
27	20 20 16.7&	40.400 N	126.245 W	10 G		15	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.5 (BRK).
27	20 25 54.9	39.021 N	24.821 E	10 G		0.5	6 AEGEAN SEA. ML 3.0 (ATH).
27	20 58 17.5*	53.571 N	167.266 W	10 G	4.5	1.3	32 FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.7 (PMR).
27	21 43 44.2*	1.443 N	126.886 E	100 ?	4.7	0.9	19 MOLUCCA PASSAGE
a	27 21 51 12.3	6.063 S	112.792 E	584	5.4	1.0	83 JAVA
27	22 18 10.6*	24.111 S	68.069 W	127 *	4.6	1.4	16 CHILE-ARGENTINA BORDER REGION
27	22 43 19.8&	34.470 N	120.800 W	6 G		13	SOUTHERN CALIFORNIA. <AGS-P>. ML 3.6 (PAS). Felt (III) at Lampoc. Also felt at San Luis Obispo.
27	23 08 23.9*	53.284 N	167.113 W	10 G	4.4	1.0	16 FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.1 (PMR).
27	23 25 56.1	53.753 N	167.301 W	10 G	4.5	1.1	32 FOX ISLANDS, ALEUTIAN ISLANDS
a	27 23 34 52.0	38.473 N	20.290 E	5 G	5.3 5.5	1.2	296 GREECE. MD 5.6 (TTG), ML 5.4 (ATH). Felt strongly on Kefallinia.
28	00 10 22.3	33.591 S	71.306 W	39 *		0.7	15 NEAR COAST OF CENTRAL CHILE. Felt (II) at Santiago.
28	01 50 01.8*	57.951 S	25.410 W	33 N	4.9	0.7	13 SOUTH SANDWICH ISLANDS REGION
28	02 09 02.7	18.104 N	68.858 W	103 D	4.7	0.9	43 MONA PASSAGE
28	02 25 33.9*	53.158 N	167.183 W	10 G	4.7	1.1	27 FOX ISLANDS, ALEUTIAN ISLANDS
28	03 38 11.7?	51.16 N	19.98 E	10 G		1.2	9 POLAND. ML 3.0 (KRA).
28	04 00 08.7	0.475 N	126.462 E	33 N	4.8	1.2	20 MOLUCCA PASSAGE
28	04 01 20.4	35.903 N	1.439 E	10	4.0	0.8	30 ALGERIA. Felt at Bordj Bounaomo.
28	04 14 11.3*	53.604 N	166.849 W	10 G		1.0	9 FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.6 (PMR).
28	04 15 06.4	9.772 S	118.261 E	59 *	4.9	1.2	48 SUMBAWA ISLAND REGION
28	05 06 25.3	22.491 S	67.486 W	167	4.5	1.0	27 CHILE-BOLIVIA BORDER REGION
28	06 01 52.3?	18.90 N	63.23 W	33 N		0.2	5 LEEWARD ISLANDS. ML 3.7 (FDF).
28	06 14 41.1*	18.713 N	63.251 W	33 N		0.5	11 LEEWARD ISLANDS. ML 4.2 (FDF).
a	28 06 52 03.4	36.957 N	141.603 E	49	5.3 5.3	1.1	175 NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Shirakawa, (I JMA) in the Sendai-Mita-Utsunomiya area, and (I JMA) in the Tokyo-Mariaka-Chashi area.
28	07 32 43.8	37.936 N	141.117 E	92	4.8	0.9	91 NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Miyako and Ofunato; (I JMA) in the Ishinamaki-Utsunomiya area.
28	07 41 33.8?	60.36 N	2.38 E	10 G		0.2	7 NORTH SEA. MD 2.4 (BER).
28	10 27 27.4?	39.265 N	27.631 E	10 G		0.4	6 TURKEY
28	10 53 12.6?	5.03 S	148.38 E	33 N	3.8 3.3	0.5	6 NEW BRITAIN REGION
28	11 23 54.6	39.096 N	28.058 E	10 G		0.9	10 TURKEY
28	12 35 06.5	39.130 N	27.969 E	10 G		1.1	12 TURKEY
28	13 12 10.3?	39.111 N	27.940 E	10 G		0.8	5 TURKEY
28	13 35 29.7?	39.124 N	27.620 E	10 G		0.8	5 TURKEY
28	16 17 36.0*	43.342 N	20.881 E	10 G		1.0	8 YUGOSLAVIA. ML 2.5 (TTG).
28	16 22 41.0&	59.841 N	151.261 W	40		38	KENAI PENINSULA, ALASKA. <AGS-P>. ML 3.6 (PMR). Felt at Homer.
28	16 24 28.3&	37.455 N	121.700 W	6		29	CENTRAL CALIFORNIA. <BRK>. ML 4.0 (BRK), 3.6 (PAS). Mo=2.4*10**16 Nm (BRK). Felt (IV) at Mount Hamilton, San Jose, Santa Clara and Sunnyvale. Also felt at Fremont and Milpitas.
28	16 34 18.4&	37.457 N	121.697 W	6		17	CENTRAL CALIFORNIA. <BRK>. ML 3.1 (BRK). Mo=9.2*10**13 Nm (BRK).
28	16 45 52.3	38.068 N	69.625 E	33 N	4.2 4.2	1.2	18 TAJIK SSR. Felt (V) at Kangurt; (IV) at Boldzhan, Dangara, Igran and Nurek; (III) at Savetskiy.
28	17 23 05.3	39.880 N	106.368 E	33 N		1.0	12 NORTHERN CHINA. ML 4.7 (BJI).
28	17 59 02.3&	60.049 N	152.633 W	89		24	SOUTHERN ALASKA. <AGS-P>.
28	18 23 21.1?	43.781 N	7.941 E	10 G		0.5	7 NEAR SOUTH COAST OF FRANCE. ML 2.5 (LDG).
28	19 10 04.9?	5.39 S	154.05 E	99 ?	3.5	0.4	5 SOLOMON ISLANDS
28	20 07 46.0	40.144 N	29.292 E	10 G		1.1	11 TURKEY

28	20	47	38.1	20.529	S	176.906	W	347	?	4.3	0.4	40	FIJI ISLANDS REGION
28	21	10	39.1*	37.423	N	29.473	E	10	G		1.5	6	TURKEY
28	21	27	29.0*	53.118	N	167.523	W	10	G	4.5	0.8	14	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.6 (PMR).
28	21	52	49.3*	4.75	N	97.43	E	33	N	3.6	0.2	5	NORTHERN SUMATERA
28	22	25	57.7	38.374	N	20.256	E	10	G	3.7	1.1	21	GREECE. ML 3.7 (ATH).
28	23	20	11.1*	53.025	N	162.549	W	33	N	4.8	1.1	22	SOUTH OF ALASKA

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

01	06	56	01.35	0.114S	17.789W	10km	CENTROID, MOMENT TENSOR (HRV)					FAULT PLANE SOLUTION: P-Waves				
5.5mb (64 obs.) 5.2Msz (12 obs.)							Data Used: GDSN					NP1:Strike= 30 Dip=70 Slip= 70				
NORTH OF ASCENSION ISLAND							L.P.B.: 10S, 20C					NP2: 257 28 133				
CENTROID, MOMENT TENSOR (HRV)							Centroid Location:					Principal Axes:				
Data Used: GDSN							Origin Time 04:41:16.4 0.4					T Vol= 3.07 P1g=0 Azm=271				
L.P.B.: 8S, 17C							Lat 14.86S 0.07 Lon 173.50W 0.07					P 22 135				
Centroid Location:							Dep 15.0 FIX Half-duration 2.0					Comment: The focal mechanism is moderately well controlled and corresponds to reverse faulting with a moderate left-lateral strike-slip component. The preferred fault plane is NP2.				
Origin Time 06:56:11.4 0.3							Principal Axes:					RADIATED ENERGY				
Lot 0.55N 0.03 Lon 17.47W 0.03							Scale 10**17 Nm					No. of sta: 4 Focal mech. F				
Dep 15.0 FIX Half-duration 2.6							T Vol= 1.63 P1g=36 Azm=312					Energy 3.2+1.0*10**14 Nm				
Principal Axes:							N 0.47 38 187					MOMENT TENSOR SOLUTION				
Scale 10**17 Nm							P -2.10 31 68					Dep 32 No. of sta: 12				
T Vol= 3.07 P1g=0 Azm=216							Best Double Couple:Mo=1.9*10**17					Principal Axes:				
N 0.32 90 180							NP1:Strike=103 Dip=39 Slip= 5					Scale 10**19 Nm				
P -3.39 0 126							NP2: 9 87 129					T Vol= 1.68 P1g=62 Azm=296				
Best Double Couple:Mo=3.2*10**17							04 16 06 42.76 34.719S 179.931W 61km					N 0.10 5 35				
NP1:Strike=261 Dip=90 Slip= 180							5.2mb (9 obs.)					P -1.78 27 128				
NP2: 351 90 0							SOUTH OF KERMADEC ISLANDS					Best Double Couple:Mo=1.7*10**19				
							CENTROID, MOMENT TENSOR (HRV)					NP1:Strike=231 Dip=18 Slip= 106				
							Data Used: GDSN					NP2: 34 73 85				
							L.P.B.: 10S, 20C					CENTROID, MOMENT TENSOR (HRV)				
							Centroid Location:					Data Used: GDSN, IDA				
							Origin Time 16:06:47.6 0.7					L.P.B.: 17S, 46C M.W.: 15S, 36C				
							Lot 34.24S 0.08 Lon 179.76W 0.13					Centroid Location:				
							Dep 35.0 6.5 Half-duration 1.9					Origin Time 13:16:22.8 0.1				
							Principal Axes:					Lot 36.91N 0.01 Lon 141.94E 0.02				
							Scale 10**17 Nm					Dep 41.4 0.8 Half-duration 9.0				
							T Vol= 1.78 P1g=50 Azm=268					Principal Axes:				
							N 0.20 4 3					Scale 10**19 Nm				
							P -1.97 39 97					T Vol= 1.34 P1g=70 Azm=281				
							Best Double Couple:Mo=1.9*10**17					N -0.04 4 21				
							NP1:Strike=221 Dip= 7 Slip= 128					P -1.30 20 113				
							NP2: 3 85 86					Best Double Couple:Mo=1.3*10**19				
							06 12 23 48.02 36.992N 141.786E 36km					NP1:Strike=209 Dip=25 Slip= 99				
							5.9mb (108 obs.) 6.1Msz (18 obs.)					NP2: 20 65 86				
							NEAR EAST COAST OF HONSHU, JAPAN					07 03 45 14.70 32.390N 115.310W 6km				
							FAULT PLANE SOLUTION: P-Waves					5.4mb (43 obs.) 5.5Msz (5 obs.)				
							NP1:Strike= 35 Dip=78 Slip= 95					CALIFORNIA-MEXICO BORDER REGION				
							NP2: 192 13 68					CENTROID, MOMENT TENSOR (HRV)				
							Principal Axes:					Data Used: GDSN				
							T Vol= 6.46 P1g=61 Azm= 80					L.P.B.: 13S, 29C				
							N 0.46 1 172					Centroid Location:				
							P -6.92 29 263					Origin Time 03:45:17.0 0.6				
							Best Double Couple:Mo=8.0*10**17					Lot 32.15N 0.06 Lon 115.22W 0.06				
							NP1:Strike=269 Dip=39 Slip= 31					Dep 15.0 FIX Half-duration 2.1				
							NP2: 155 71 125					Principal Axes:				
							CENTROID, MOMENT TENSOR (HRV)					Scale 10**17 Nm				
							Data Used: GDSN					T Vol= 2.05 P1g=16 Azm= 65				
							L.P.B.: 11S, 26C					N 0.08 69 286				
							Centroid Location:					P -2.13 13 159				
							Origin Time 16:42:46.6 0.3					Best Double Couple:Mo=2.1*10**17				
							Lot 37.69S 0.05 Lon 73.30W 0.06					NP1:Strike=202 Dip=70 Slip= 2				
							Dep 28.4 2.8 Half-duration 2.9					NP2: 112 88 160				
							Principal Axes:					07 10 46 22.55 59.145S 159.015E 33km				
							Scale 10**17 Nm					5.5mb (14 obs.) 5.1Msz (1 obs.)				
							T Vol= 7.49 P1g=51 Azm=104					MACQUARIE ISLANDS REGION				
							N 1.09 33 322					CENTROID, MOMENT TENSOR (HRV)				
							P -8.58 19 219					Data Used: GDSN				
							Best Double Couple:Mo=6.7*10**17					L.P.B.: 10S, 26C				
							NP1:Strike=357 Dip=16 Slip= 95					Centroid Location:				
							NP2: 172 74 89					Origin Time 10:46:28.2 0.6				
							04 02 22 32.76 20.053N 156.530W 10km					Lot 58.70S 0.06 Lon 158.48E 0.12				
							5.2mb (20 obs.) 4.9Msz (5 obs.)					Dep 15.0 BDY Half-duration 2.2				
							HAWAII					Principal Axes:				
							CENTROID, MOMENT TENSOR (HRV)					Scale 10**17 Nm				
							Data Used: GDSN, IDA					T Vol= 2.55 P1g=12 Azm=128				
							L.P.B.: 13S, 25C					N 0.47 77 335				
							Centroid Location:					P -3.02 6 220				
							Origin Time 02:22:36.0 0.4					Best Double Couple:Mo=2.8*10**17				
							Lot 20.41N 0.08 Lon 156.39W 0.10					NP1:Strike=264 Dip=78 Slip= 4				
							Dep 15.0 FIX Half-duration 1.6					NP2: 174 86 167				
							Principal Axes:					07 11 57 33.94 5.800S 147.742E 27km				
							Scale 10**17 Nm					5.6mb (33 obs.) 6.1Msz (17 obs.)				
							T Vol= 1.89 P1g=48 Azm=100					EAST PAPUA NEW GUINEA REGION				
							N -0.33 30 329									
							P -1.56 26 223									
							Best Double Couple:Mo=1.7*10**17									
							NP1:Strike=266 Dip=33 Slip= 23									
							NP2: 157 77 121									
							04 04 41 13.01 15.186S 172.933W 33km									
							5.2mb (14 obs.) 5.2Msz (4 obs.)									
							SAMOA ISLANDS REGION									
							06 13 16 17.89 36.988N 141.689E 48km									
							6.1mb (95 obs.) 6.3Msz (20 obs.)									
							NEAR EAST COAST OF HONSHU, JAPAN									
							CENTROID, MOMENT TENSOR (HRV)									
							Data Used: GDSN, IDA									
							L.P.B.: 16S, 43C M.W.: 12S, 25C									
							Centroid Location:									
							Origin Time 12:23:52.1 0.2									
							Lot 36.79N 0.02 Lon 141.81E 0.03									
							Dep 38.2 1.5 Half-duration 5.9									
							Principal Axes:									
							Scale 10**18 Nm									
							T Vol= 4.03 P1g=68 Azm=302									
							N 0.66 2 205									
							P -4.69 22 114									
							Best Double Couple:Mo=4.4*10**18									
							NP1:Strike=200 Dip=24 Slip= 84									
							NP2: 27 67 93									

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 42C
 Centroid Location:
 Origin Time 11:57:38.8 0.3
 Lat 5.96S 0.03 Lon 147.96E 0.03
 Dep 15.0 BDY Half-duration 4.5
 Principal Axes:
 Scale 10**18 Nm
 T Val= 2.58 Plg=23 Azm=312
 N -0.51 65 153
 P -2.06 8 45
 Best Double Couple:Mo=2.3*10**18
 NP1:Strike= 91 Dip=67 Slip= 11
 NP2: 357 80 157

07 15 24 22.37 4.924S 103.255E 60km
 5.4mb (41 obs.)
 SOUTHERN SUMATERA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 14S, 29C
 Centroid Location:
 Origin Time 15:24:24.9 0.8
 Lat 5.34S 0.06 Lon 102.94E 0.09
 Dep 47.5 6.4 Half-duration 2.0
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.04 Plg=22 Azm= 95
 N 0.76 56 327
 P -1.80 24 195
 Best Double Couple:Mo=1.4*10**17
 NP1:Strike=234 Dip=56 Slip= -2
 NP2: 325 89 -146

08 17 48 48.85 1.604N 126.588E 17km
 5.8mb (48 obs.) 5.9Msz (2 obs.)
 MOLLUCCA PASSAGE
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 36C
 Centroid Location:
 Origin Time 17:48:59.4 0.3
 Lat 1.68N 0.03 Lon 126.59E 0.04
 Dep 57.7 2.9 Half-duration 4.8
 Principal Axes:
 Scale 10**18 Nm
 T Val= 2.37 Plg=44 Azm=184
 N 0.18 42 32
 P -2.55 14 289
 Best Double Couple:Mo=2.5*10**18
 NP1:Strike=337 Dip=48 Slip= 25
 NP2: 230 72 135

08 18 33 58.39 6.088S 147.689E 55km
 7.4Msz (21 obs.)
 EAST PAPUA NEW GUINEA REGION
 FAULT PLANE SOLUTION: P-Waves
 NP1:Strike= 0 Dip=65 Slip= 168
 NP2: 95 79 25
 Principal Axes:
 T Plg=26 Azm=320
 P 10 225
 Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting with a moderate reverse component. The preferred fault plane is not determined.

RADIATED ENERGY
 No. of sta: 6 Focal mech. M
 Energy 2.3+0.6*10**15 Nm
 MOMENT TENSOR SOLUTION
 Dep 21 No. of sta: 12
 Principal Axes:
 Scale 10**20 Nm
 T Val= 1.07 Plg= 1 Azm=306
 N 0.01 88 70
 P -1.08 1 216
 Best Double Couple:Mo=1.1*10**20
 NP1:Strike=351 Dip=88 Slip=-180
 NP2: 261 90 -2

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN, IDA
 L.P.B.: 17S, 44C M.W.: 13S, 34C
 Centroid Location:
 Origin Time 18:34:13.5 0.2
 Lat 5.90S 0.01 Lon 147.72E 0.02
 Dep 15.0 FIX Half-duration 15.0
 Principal Axes:
 Scale 10**20 Nm
 T Val= 1.23 Plg= 8 Azm=307

N -0.24 82 146
 P -0.99 3 37
 Best Double Couple:Mo=1.1*10**20
 NP1:Strike= 82 Dip=83 Slip= 4
 NP2: 352 87 173

09 02 11 10.27 5.990S 147.708E 33km
 5.6mb (17 obs.) 5.1Msz (3 obs.)
 EAST PAPUA NEW GUINEA REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 11S, 22C
 Centroid Location:
 Origin Time 02:11:13.8 0.8
 Lat 6.12S 0.08 Lon 147.98E 0.09
 Dep 33.0 FIX Half-duration 2.9
 Principal Axes:
 Scale 10**17 Nm
 T Val= 4.97 Plg=16 Azm=107
 N 1.46 48 358
 P -6.44 38 210
 Best Double Couple:Mo=5.7*10**17
 NP1:Strike=241 Dip=51 Slip= -17
 NP2: 342 77 -140

09 06 48 00.20 6.145S 147.691E 33km
 5.6mb (32 obs.) 5.1Msz (5 obs.)
 EAST PAPUA NEW GUINEA REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 34C
 Centroid Location:
 Origin Time 06:48: 5.7 0.5
 Lat 6.29S 0.05 Lon 147.55E 0.06
 Dep 31.8 5.6 Half-duration 2.6
 Principal Axes:
 Scale 10**17 Nm
 T Val= 3.68 Plg=35 Azm=321
 N -0.54 55 137
 P -3.14 1 230
 Best Double Couple:Mo=3.4*10**17
 NP1:Strike=359 Dip=65 Slip= 154
 NP2: 101 67 28

09 14 25 30.85 6.137S 147.722E 49km
 5.5mb (17 obs.) 5.0Msz (2 obs.)
 EAST PAPUA NEW GUINEA REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 14S, 35C
 Centroid Location:
 Origin Time 14:25:34.3 0.3
 Lat 6.21S 0.03 Lon 147.85E 0.03
 Dep 44.3 3.4 Half-duration 2.4
 Principal Axes:
 Scale 10**17 Nm
 T Val= 2.39 Plg= 0 Azm=138
 N 0.62 89 48
 P -3.01 1 228
 Best Double Couple:Mo=2.7*10**17
 NP1:Strike=273 Dip=89 Slip= -1
 NP2: 3 89 -179

09 18 17 30.62 6.002S 147.802E 44km
 5.7mb (44 obs.) 5.7Msz (11 obs.)
 EAST PAPUA NEW GUINEA REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 17S, 43C
 Centroid Location:
 Origin Time 18:17:36.1 0.3
 Lat 6.23S 0.03 Lon 147.99E 0.03
 Dep 48.6 2.6 Half-duration 3.9
 Principal Axes:
 Scale 10**17 Nm
 T Val= 11.07 Plg=13 Azm=105
 N 0.44 66 343
 P -11.51 20 200
 Best Double Couple:Mo=1.1*10**18
 NP1:Strike=241 Dip=66 Slip= -5
 NP2: 333 85 -156

10 00 59 28.57 19.489S 177.456W 395km
 6.2mb (52 obs.)
 FIJI ISLANDS REGION
 FAULT PLANE SOLUTION: P-Waves
 NP1:Strike= 10 Dip=77 Slip= -90
 NP2: 190 13 -90
 Principal Axes:
 T Plg=32 Azm=100
 P 58 280
 Comment: The focal mechanism is poorly controlled and

corresponds to normal faulting. The preferred fault plane is NP1.

RADIATED ENERGY
 No. of sta: 6 Focal mech. C
 Energy 7.4+1.7*10**13 Nm
 MOMENT TENSOR SOLUTION
 Dep 391 No. of sta: 9
 Principal Axes:
 Scale 10**18 Nm
 T Val= 6.37 Plg=29 Azm= 77
 N -0.55 21 179
 P -5.81 52 300
 Best Double Couple:Mo=6.1*10**18
 NP1:Strike=122 Dip=25 Slip=-150
 NP2: 4 78 -68

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN, IDA
 L.P.B.: 20S, 51C M.W.: 13S, 29C
 Centroid Location:
 Origin Time 00:59:35.9 0.1
 Lat 19.47S 0.01 Lon 177.38W 0.01
 Dep 418.5 0.6 Half-duration 6.4
 Principal Axes:
 Scale 10**18 Nm
 T Val= 6.02 Plg=27 Azm= 94
 N -0.41 8 188
 P -5.61 61 294
 Best Double Couple:Mo=5.8*10**18
 NP1:Strike=164 Dip=19 Slip=-116
 NP2: 11 73 -81

10 12 21 59.08 6.012S 147.779E 40km
 5.4mb (17 obs.) 5.1Msz (2 obs.)
 EAST PAPUA NEW GUINEA REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 14S, 29C
 Centroid Location:
 Origin Time 12:22: 3.2 0.6
 Lat 6.07S 0.05 Lon 147.88E 0.06
 Dep 46.8 5.2 Half-duration 2.1
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.82 Plg=17 Azm=103
 N -0.02 59 343
 P -1.80 25 201
 Best Double Couple:Mo=1.8*10**17
 NP1:Strike=240 Dip=60 Slip= -7
 NP2: 333 84 -150

10 16 23 50.94 35.586N 143.013E 30km
 5.1mb (24 obs.) 5.2Msz (1 obs.)
 OFF EAST COAST OF HONSHU, JAPAN
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 24C
 Centroid Location:
 Origin Time 16:23:49.0 1.4
 Lat 35.46N 0.11 Lon 143.21E 0.16
 Dep 17.1 7.0 Half-duration 1.4
 Principal Axes:
 Scale 10**16 Nm
 T Val= 5.47 Plg=13 Azm=296
 N -1.24 8 205
 P -4.23 75 85
 Best Double Couple:Mo=4.9*10**16
 NP1:Strike= 36 Dip=33 Slip= -76
 NP2: 200 58 -99

11 01 14 40.61 6.995S 146.991E 19km
 5.3mb (12 obs.) 4.9Msz (2 obs.)
 EAST PAPUA NEW GUINEA REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 33C
 Centroid Location:
 Origin Time 01:14:47.2 0.4
 Lat 7.36S 0.04 Lon 146.83E 0.05
 Dep 38.3 4.9 Half-duration 2.1
 Principal Axes:
 Scale 10**17 Nm
 T Val= 2.06 Plg= 4 Azm= 69
 N -0.12 80 318
 P -1.94 10 160
 Best Double Couple:Mo=2.0*10**17
 NP1:Strike=204 Dip=81 Slip= -4
 NP2: 295 86 -171

11 06 12 53.39 18.831N 120.981E 24km
 5.6mb (65 obs.) 5.8Msz (11 obs.)
 LUZON, PHILIPPINE ISLANDS
 CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
L.P.B.: 15S, 35C
Centroid Location:
Origin Time 06:12:53.9 0.3
Lat 19.01N 0.03 Lon 120.86E 0.04
Dep 24.0 BDY Half-duration 4.0
Principal Axes:
Scale 10**18 Nm
T Val= 1.56 Plg=11 Azm=215
N -0.44 72 90
P -1.12 14 308
Best Double Couple:Mo=1.3*10**18
NP1:Strike=351 Dip=72 Slip= -3
NP2: 82 87 -162

11 07 56 12.91 15.834S 167.355E 24km
5.9mb (41 obs.) 6.4Msz (27 obs.)
VANUATU ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=180 Dip=60 Slip= 90
NP2: 360 30 90
Principal Axes:
T Plg=75 Azm= 90
P 15 270
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
RADIATED ENERGY
No. of sta: 8 Focal mech. C
Energy 1.1+0.2*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 41 No. of sta: 13
Principal Axes:
Scale 10**18 Nm
T Val= 5.34 Plg=65 Azm=124
N 0.33 14 3
P -5.68 21 267
Best Double Couple:Mo=5.5*10**18
NP1:Strike=334 Dip=27 Slip= 58
NP2: 189 67 185
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN, IDA
L.P.B.: 19S, 49C M.W.: 12S, 25C
Centroid Location:
Origin Time 07:56:20.2 0.1
Lat 15.92S 0.02 Lon 167.16E 0.01
Dep 32.6 0.8 Half-duration 6.0
Principal Axes:
Scale 10**18 Nm
T Val= 4.62 Plg=70 Azm=132
N 0.27 18 337
P -4.90 8 245
Best Double Couple:Mo=4.8*10**18
NP1:Strike=315 Dip=40 Slip= 62
NP2: 170 55 112

11 17 42 50.96 43.169N 132.286E 499km
5.5mb (90 obs.)
NEAR E. COAST OF EASTERN USSR
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 40C
Centroid Location:
Origin Time 17:42:56.1 0.2
Lat 43.13N 0.02 Lon 132.16E 0.03
Dep 504.2 1.4 Half-duration 4.1
Principal Axes:
Scale 10**18 Nm
T Val= 1.57 Plg= 6 Azm=177
N 0.07 68 72
P -1.64 21 269
Best Double Couple:Mo=1.6*10**18
NP1:Strike=311 Dip=71 Slip= -11
NP2: 44 79 -161

11 19 54 53.20 22.900S 179.504W 524km
5.1mb (28 obs.)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 23C
Centroid Location:
Origin Time 19:55: 1.4 1.2
Lat 22.44S 0.11 Lon 179.97E 0.11
Dep 524.1 5.0 Half-duration 1.6
Principal Axes:
Scale 10**17 Nm
T Val= 1.50 Plg=47 Azm= 43
N -0.15 6 307
P -1.35 43 211
Best Double Couple:Mo=1.4*10**17

NP1:Strike=234 Dip= 6 Slip= 17
NP2: 127 88 96

13 07 18 29.09 0.670N 126.167E 32km
6.2mb (58 obs.) 6.5Msz (25 obs.)
MOLUCCA PASSAGE
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=192 Dip=70 Slip= 90
NP2: 12 20 90
Principal Axes:
T Plg=65 Azm=102
P 25 282
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 49 No. of sta: 11
Principal Axes:
Scale 10**19 Nm
T Val= 1.86 Plg=76 Azm=164
N -0.30 13 10
P -1.56 6 278
Best Double Couple:Mo=1.7*10**19
NP1:Strike=354 Dip=41 Slip= 70
NP2: 200 52 107
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN, IDA
L.P.B.: 15S, 39C M.W.: 12S, 29C
Centroid Location:
Origin Time 07:18:37.2 0.1
Lat 0.79N 0.02 Lon 126.27E 0.02
Dep 37.1 0.7 Half-duration 8.0
Principal Axes:
Scale 10**19 Nm
T Val= 1.34 Plg=84 Azm=165
N 0.10 4 25
P -1.44 4 292
Best Double Couple:Mo=1.4*10**19
NP1:Strike= 18 Dip=42 Slip= 85
NP2: 207 49 96

14 06 34 38.88 15.467S 167.559E 120km
5.5mb (30 obs.)
VANUATU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 29C
Centroid Location:
Origin Time 06:34:46.7 0.5
Lat 15.50S 0.04 Lon 167.16E 0.05
Dep 129.2 2.1 Half-duration 2.6
Principal Axes:
Scale 10**17 Nm
T Val= 3.41 Plg=65 Azm= 92
N 0.34 1 184
P -3.75 25 275
Best Double Couple:Mo=3.6*10**17
NP1:Strike= 6 Dip=20 Slip= 92
NP2: 184 70 89

14 07 26 51.70 36.148N 120.335W 13km
5.3mb (39 obs.) 4.6Msz (1 obs.)
CENTRAL CALIFORNIA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 18C
Centroid Location:
Origin Time 07:26:49.7 1.5
Lat 35.57N 0.25 Lon 120.00W 0.24
Dep 15.0 FIX Half-duration 1.4
Principal Axes:
Scale 10**16 Nm
T Val= 8.00 Plg=53 Azm=141
N -0.06 35 341
P -7.94 10 244
Best Double Couple:Mo=8.0*10**16
NP1:Strike=300 Dip=64 Slip= 38
NP2: 181 64 130

14 13 38 22.77 17.926S 178.632W 566km
5.7mb (53 obs.)
FIJI ISLANDS REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=140 Dip=70 Slip= 90
NP2: 320 20 90
Principal Axes:
T Plg=65 Azm= 50
P 25 250
Comment: The focal mechanism is poorly controlled and corresponds to reverse

faulting. The preferred fault plane is not determined.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 27C
Centroid Location:
Origin Time 13:38:31.4 0.5
Lat 17.76S 0.04 Lon 178.90W 0.05
Dep 577.9 2.2 Half-duration 2.5
Principal Axes:
Scale 10**17 Nm
T Val= 4.16 Plg=53 Azm= 0
N -1.33 35 161
P -2.83 9 258
Best Double Couple:Mo=3.5*10**17
NP1:Strike= 22 Dip=47 Slip= 142
NP2: 140 63 49

14 15 44 16.16 45.698S 76.058W 10km
5.3mb (16 obs.) 5.8Msz (5 obs.)
OFF COAST OF SOUTHERN CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 34C
Centroid Location:
Origin Time 15:44:19.1 0.2
Lat 45.70S 0.03 Lon 76.51W 0.05
Dep 15.0 FIX Half-duration 3.2
Principal Axes:
Scale 10**17 Nm
T Val= 8.11 Plg= 4 Azm=214
N -0.85 74 316
P -7.26 16 123
Best Double Couple:Mo=7.7*10**17
NP1:Strike=259 Dip=76 Slip= -171
NP2: 167 81 -14

14 16 42 18.18 54.720N 161.741E 33km
5.7mb (82 obs.) 5.0Msz (7 obs.)
NEAR EAST COAST OF KAMCHATKA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 22C
Centroid Location:
Origin Time 16:42:22.4 0.6
Lat 54.30N 0.07 Lon 161.73E 0.12
Dep 38.3 5.0 Half-duration 1.9
Principal Axes:
Scale 10**17 Nm
T Val= 2.10 Plg=65 Azm=225
N 0.25 24 25
P -2.35 8 118
Best Double Couple:Mo=2.2*10**17
NP1:Strike=234 Dip=43 Slip= 127
NP2: 8 57 61

15 22 38 44.91 15.563S 177.204W 33km
5.2mb (24 obs.) 5.5Msz (8 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 28C
Centroid Location:
Origin Time 22:38:50.9 0.6
Lat 15.02S 0.05 Lon 179.96W 0.04
Dep 15.0 FIX Half-duration 2.7
Principal Axes:
Scale 10**17 Nm
T Val= 4.84 Plg=23 Azm=215
N -0.55 67 28
P -4.30 2 124
Best Double Couple:Mo=4.6*10**17
NP1:Strike=257 Dip=72 Slip= 165
NP2: 352 76 19

16 09 38 14.54 0.739N 126.143E 37km
5.3mb (26 obs.) 4.8Msz (4 obs.)
MOLUCCA PASSAGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 25C
Centroid Location:
Origin Time 09:38:17.3 0.4
Lat 1.15N 0.05 Lon 126.46E 0.05
Dep 37.3 4.2 Half-duration 1.9
Principal Axes:
Scale 10**17 Nm
T Val= 1.72 Plg=66 Azm=208
N -0.50 23 47
P -1.21 7 314
Best Double Couple:Mo=1.5*10**17
NP1:Strike= 20 Dip=43 Slip= 55
NP2: 244 56 118

16 17 28 11.22 0.838N 126.186E 25km
 5.7mb (46 obs.) 5.9Msz (18 obs.)
 MOLUCCA PASSAGE
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 14S, 36C
 Centroid Location:
 Origin Time 17:28:19.2 0.2
 Lat 1.09N 0.02 Lon 126.53E 0.03
 Dep 34.4 2.1 Half-duration 4.9
 Principal Axes:
 Scale 10**18 Nm
 T Val= 2.38 Plg=84 Azm=310
 N 0.08 1 214
 P -2.46 6 124
 Best Double Couple:Mo=2.4*10**18
 NP1:Strike=213 Dip=39 Slip= 89
 NP2: 34 51 91

17 04 19 57.65 19.676S 168.761E 33km
 5.6mb (30 obs.) 5.6Msz (8 obs.)
 VANUATU ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 14S, 33C
 Centroid Location:
 Origin Time 04:20: 3.9 0.6
 Lat 19.55S 0.05 Lon 168.57E 0.05
 Dep 22.0 BDY Half-duration 2.7
 Principal Axes:
 Scale 10**17 Nm
 T Val= 4.58 Plg=15 Azm=170
 N 0.06 1 261
 P -4.64 75 356
 Best Double Couple:Mo=4.6*10**17
 NP1:Strike=258 Dip=30 Slip=-93
 NP2: 82 60 -88

17 06 16 12.12 32.793S 179.304W 10km
 5.9mb (30 obs.) 6.6Msz (25 obs.)
 SOUTH OF KERMADEC ISLANDS
 FAULT PLANE SOLUTION: P-Waves
 NP1:Strike= 5 Dip=75 Slip= 90
 NP2: 185 15 90
 Principal Axes:
 T Plg=60 Azm=275
 P 30 95
 Comment: The focal mechanism is
 poorly controlled and
 corresponds to reverse
 faulting. The preferred fault
 plane is NP2.

MOMENT TENSOR SOLUTION

Dep 39 No. of sto: 13

Principal Axes:
 Scale 10**19 Nm
 T Val= 1.36 Plg=53 Azm=234
 N 0.36 30 14
 P -1.72 20 116

Best Double Couple:Mo=1.5*10**19
 NP1:Strike=245 Dip=36 Slip= 147
 NP2: 2 71 58

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN, 1DA
 L.P.B.: 15S, 42C M.W.: 11S, 29C
 Centroid Location:

Origin Time 06:16:25.3 0.2
 Lat 32.73S 0.01 Lon 178.86W 0.02
 Dep 41.9 0.8 Half-duration 8.0

Principal Axes:
 Scale 10**18 Nm
 T Val= 11.58 Plg=69 Azm=267
 N -0.32 5 9
 P -11.26 21 101

Best Double Couple:Mo=1.1*10**19
 NP1:Strike=199 Dip=25 Slip= 101
 NP2: 7 66 85

17 12 56 56.02 58.705S 25.157W 33km
 5.3mb (7 obs.) 5.1Msz (1 obs.)
 SOUTH SANDWICH ISLANDS REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 10S, 19C
 Centroid Location:
 Origin Time 12:57: 4.9 0.6
 Lat 58.54S 0.07 Lon 25.44W 0.17
 Dep 26.7 4.8 Half-duration 2.0
 Principal Axes:
 Scale 10**17 Nm
 T Val= 2.23 Plg=57 Azm=298
 N 0.02 15 184
 P -2.24 29 85

Best Double Couple:Mo=2.2*10**17
 NP1:Strike=140 Dip=21 Slip= 44
 NP2: 8 76 106

18 00 00 52.54 51.298N 179.279W 33km
 6.2mb (78 obs.) 5.9Msz (29 obs.)
 ANDREANOF ISLANDS, ALEUTIAN IS.
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 42C
 Centroid Location:
 Origin Time 00:00:55.8 0.2
 Lat 51.48N 0.02 Lon 179.20W 0.04
 Dep 33.9 1.4 Half-duration 5.0
 Principal Axes:
 Scale 10**18 Nm
 T Val= 2.54 Plg=62 Azm=304
 N 0.09 14 62
 P -2.63 24 158
 Best Double Couple:Mo=2.6*10**18
 NP1:Strike=276 Dip=24 Slip= 126
 NP2: 57 71 75

Comment: The focal mechanism is
 poorly controlled and
 corresponds to reverse
 faulting. The preferred fault
 plane is NP2.

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 42C
 Centroid Location:
 Origin Time 00:00:55.8 0.2
 Lat 51.48N 0.02 Lon 179.20W 0.04
 Dep 33.9 1.4 Half-duration 5.0
 Principal Axes:
 Scale 10**18 Nm
 T Val= 2.54 Plg=62 Azm=304
 N 0.09 14 62
 P -2.63 24 158
 Best Double Couple:Mo=2.6*10**18
 NP1:Strike=276 Dip=24 Slip= 126
 NP2: 57 71 75

18 05 28 23.29 51.344N 179.298W 33km
 5.5mb (75 obs.) 4.7Msz (8 obs.)
 ANDREANOF ISLANDS, ALEUTIAN IS.
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 19C
 Centroid Location:
 Origin Time 05:28:28.0 0.9
 Lat 51.52N 0.09 Lon 179.44W 0.29
 Dep 20.2 8.8 Half-duration 1.8
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.57 Plg=57 Azm=279
 N -0.42 29 65
 P -1.16 16 164
 Best Double Couple:Mo=1.4*10**17
 NP1:Strike=288 Dip=39 Slip= 140
 NP2: 51 66 58

18 10 32 14.40 55.728S 27.022W 33km
 5.5mb (11 obs.) 5.0Msz (2 obs.)
 SOUTH SANDWICH ISLANDS REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 25C
 Centroid Location:
 Origin Time 10:32:20.1 0.4
 Lat 55.68S FIX;Lon 26.99W FIX
 Dep 18.4 3.3 Half-duration 2.0
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.46 Plg=71 Azm=285
 N 0.43 14 148
 P -1.89 12 55
 Best Double Couple:Mo=1.7*10**17
 NP1:Strike=127 Dip=35 Slip= 65
 NP2: 337 59 106

19 09 32 45.65 28.034S 176.196W 10km
 4.9mb (4 obs.) 5.0Msz (1 obs.)
 KERMADEC ISLANDS REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 21C
 Centroid Location:
 Origin Time 09:32:52.7 1.4
 Lat 27.92S 0.13 Lon 176.37W 0.13
 Dep 48.0 9.4 Half-duration 1.3
 Principal Axes:
 Scale 10**16 Nm
 T Val= 4.02 Plg=68 Azm=292
 N -0.56 3 195
 P -3.46 21 104
 Best Double Couple:Mo=3.7*10**16
 NP1:Strike=189 Dip=24 Slip= 83
 NP2: 16 67 93

19 10 02 16.43 32.722S 178.839W 33km
 5.3mb (5 obs.) 4.7Msz (1 obs.)

SOUTH OF KERMADEC ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 27C
 Centroid Location:
 Origin Time 10:02:21.6 0.8
 Lat 32.54S 0.06 Lon 178.71W 0.08
 Dep 37.0 4.4 Half-duration 1.7
 Principal Axes:
 Scale 10**16 Nm
 T Val= 9.92 Plg=68 Azm=321
 N 3.22 12 201
 P -13.14 19 106
 Best Double Couple:Mo=1.2*10**17
 NP1:Strike=178 Dip=28 Slip= 64
 NP2: 26 65 103

21 15 26 26.97 6.103S 147.778E 44km
 5.4mb (15 obs.) 5.2Msz (2 obs.)
 EAST PAPUA NEW GUINEA REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 25C
 Centroid Location:
 Origin Time 15:26:31.5 0.6
 Lat 6.01S 0.05 Lon 147.82E 0.05
 Dep 43.6 5.6 Half-duration 2.3
 Principal Axes:
 Scale 10**17 Nm
 T Val= 2.22 Plg= 8 Azm=112
 N 0.11 75 350
 P -2.33 13 204
 Best Double Couple:Mo=2.3*10**17
 NP1:Strike=248 Dip=75 Slip= -3
 NP2: 339 87 -165

21 22 19 55.35 54.931N 110.981E 33km
 4.7mb (10 obs.) 4.7Msz (1 obs.)
 LAKE BAIKAL REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 11S, 17C
 Centroid Location:
 Origin Time 22:19:51.5 1.5
 Lat 54.40N 0.19 Lon 110.33E 0.35
 Dep 15.0 FIX Half-duration 1.3
 Principal Axes:
 Scale 10**16 Nm
 T Val= 1.91 Plg=14 Azm=103
 N 0.95 13 197
 P -2.86 71 327
 Best Double Couple:Mo=2.4*10**16
 NP1:Strike=176 Dip=33 Slip=-114
 NP2: 24 60 -75

22 01 22 29.56 78.866N 125.966E 10km
 5.2mb (66 obs.) 5.1Msz (5 obs.)
 EAST OF SEVERNAYA ZEMLYA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 28C
 Centroid Location:
 Origin Time 01:22:32.0 0.3
 Lat 78.76N 0.05 Lon 125.59E 0.28
 Dep 15.0 BDY Half-duration 1.8
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.38 Plg= 2 Azm=248
 N -0.02 24 157
 P -1.36 66 341
 Best Double Couple:Mo=1.4*10**17
 NP1:Strike= 0 Dip=48 Slip=-57
 NP2: 136 51 -122

23 00 21 21.21 38.983N 70.706E 33km
 5.0mb (39 obs.) 4.7Msz (2 obs.)
 AFGHANISTAN-USSR BORDER REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 11S, 21C
 Centroid Location:
 Origin Time 00:21:24.0 1.2
 Lat 39.12N 0.16 Lon 70.14E 0.16
 Dep 33.0 FIX Half-duration 1.7
 Principal Axes:
 Scale 10**16 Nm
 T Val= 2.27 Plg=48 Azm= 24
 N 0.99 42 211
 P -3.26 4 118
 Best Double Couple:Mo=2.8*10**16
 NP1:Strike=173 Dip=55 Slip= 36
 NP2: 61 61 139

23 02 43 39.58 57.922S 25.350W 27km
 5.9mb (18 abs.) 5.7msz (16 abs.)
 SOUTH SANDWICH ISLANDS REGION
 FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=20 Dip=70 Slip= 90
 NP2: 200 20 90
 Principal Axes:
 T P1g=65 Azm=290
 P 25 110
 Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
 MOMENT TENSOR SOLUTION
 Dep 1 No. of sta: 5
 Principal Axes:
 Scale 10**18 Nm
 T Val= 3.28 P1g=50 Azm=309
 N 0.08 15 201
 P -3.36 36 100
 Best Double Couple:Mo=3.3*10**18
 NP1:Strike=138 Dip=17 Slip= 26
 NP2: 23 83 105
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 17S, 42C
 Centroid Location:
 Origin Time 02:43:47.7 0.2
 Lat 57.98S 0.02 Lon 25.22W 0.04
 Dep 19.6 1.4 Half-duration 4.7
 Principal Axes:
 Scale 10**18 Nm
 T Val= 1.92 P1g=68 Azm=278
 N 0.10 7 171
 P -2.02 21 78
 Best Double Couple:Mo=2.0*10**18
 NP1:Strike=156 Dip=25 Slip= 74
 NP2: 354 66 97

23 11 27 52.35 15.699S 177.103W 13km
 5.0mb (9 abs.) 5.1msz (5 abs.)
 FIJI ISLANDS REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 14S, 28C
 Centroid Location:
 Origin Time 11:28: 3.5 0.6
 Lat 15.31S 0.07 Lon 177.48W 0.05
 Dep 15.0 FIX Half-duration 1.9
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.48 P1g=18 Azm=131
 N -0.19 71 318
 P -1.30 2 221
 Best Double Couple:Mo=1.4*10**17
 NP1:Strike=267 Dip=75 Slip= 12
 NP2: 174 79 165

23 15 49 54.64 15.854S 167.891E 234km
 5.9mb (47 abs.)
 VANUATU ISLANDS
 FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=260 Dip=85 Slip= 48
 NP2: 164 42 173
 Principal Axes:
 T P1g=36 Azm=134
 P 28 22
 Comment: The focal mechanism is moderately well controlled and corresponds to reverse faulting with a large strike-slip component. The preferred fault plane is not determined.
 RADIATED ENERGY
 No. of sta: 7 Focal mech. F
 Energy 1.0+0.8*10**14 Nm
 MOMENT TENSOR SOLUTION
 Dep 216 No. of sta: 11
 Principal Axes:
 Scale 10**19 Nm
 T Val= 2.53 P1g=44 Azm=132
 N 0.38 35 264
 P -2.91 25 14
 Best Double Couple:Mo=2.7*10**19
 NP1:Strike=152 Dip=37 Slip= 162
 NP2: 257 79 54
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN, 1DA
 L.P.B.: 17S, 46C M.W.: 16S, 43C
 Centroid Location:
 Origin Time 15:50: 5.2 0.1
 Lat 15.83S 0.01 Lon 167.87E 0.01

Dep 224.9 0.8 Half-duration 11.2
 Principal Axes:
 Scale 10**19 Nm
 T Val= 3.33 P1g=38 Azm=135
 N -0.83 46 277
 P -2.50 20 29
 Best Double Couple:Mo=2.9*10**19
 NP1:Strike=165 Dip=48 Slip= 165
 NP2: 266 79 43

24 00 51 26.75 56.608S 147.329E 10km
 5.8mb (22 abs.) 5.8msz (13 abs.)
 WEST OF MACQUARIE ISLAND
 FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=178 Dip=79 Slip= 90
 NP2: 358 11 90
 Principal Axes:
 T P1g=56 Azm= 88
 P 34 268
 Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is not determined.
 MOMENT TENSOR SOLUTION
 Dep 11 No. of sta: 5
 Principal Axes:
 Scale 10**18 Nm
 T Val= 1.56 P1g=37 Azm= 51
 N -0.02 44 187
 P -1.54 24 302
 Best Double Couple:Mo=1.6*10**18
 NP1:Strike= 81 Dip=45 Slip= 168
 NP2: 179 82 46
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 36C
 Centroid Location:
 Origin Time 00:51:34.6 0.3
 Lat 56.54S 0.03 Lon 147.22E 0.05
 Dep 15.0 FIX Half-duration 3.7
 Principal Axes:
 Scale 10**17 Nm
 T Val= 11.31 P1g= 0 Azm=212
 N -2.29 90 180
 P -9.02 0 122
 Best Double Couple:Mo=1.0*10**18
 NP1:Strike=257 Dip=90 Slip= 180
 NP2: 347 90 0

25 01 07 52.88 2.480S 141.879E 30km
 5.4mb (21 abs.) 5.1msz (8 abs.)
 NEAR N COAST OF PAPUA NEW GUINEA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 29C
 Centroid Location:
 Origin Time 01:07:53.8 0.3
 Lat 2.23S 0.04 Lon 141.95E 0.04
 Dep 15.0 FIX Half-duration 2.3
 Principal Axes:
 Scale 10**17 Nm
 T Val= 2.99 P1g=14 Azm=212
 N -0.46 12 305
 P -2.54 71 75
 Best Double Couple:Mo=2.8*10**17
 NP1:Strike=286 Dip=33 Slip=-113
 NP2: 133 60 -76

25 02 01 21.48 27.912S 177.074W 72km
 5.0mb (6 abs.)
 KERMADEC ISLANDS REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 25C
 Centroid Location:
 Origin Time 02:01:22.6 1.1
 Lat 28.10S 0.10 Lon 177.15W 0.11
 Dep 74.6 6.7 Half-duration 1.4
 Principal Axes:
 Scale 10**16 Nm
 T Val= 5.22 P1g=69 Azm=305
 N 1.49 13 177
 P -6.71 16 83
 Best Double Couple:Mo=6.0*10**16
 NP1:Strike=154 Dip=31 Slip= 64
 NP2: 4 62 105

25 10 42 45.06 27.927S 66.835W 172km
 5.2mb (28 abs.)
 CATAMARCA PROVINCE, ARGENTINA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN

L.P.B.: 12S, 24C
 Centroid Location:
 Origin Time 10:42:48.5 0.8
 Lat 28.73S 0.09 Lon 66.31W 0.16
 Dep 176.1 4.1 Half-duration 1.5
 Principal Axes:
 Scale 10**16 Nm
 T Val= 10.50 P1g=23 Azm= 39
 N 0.99 51 278
 P -11.49 30 143
 Best Double Couple:Mo=1.1*10**17
 NP1:Strike=179 Dip=52 Slip= -6
 NP2: 272 86 -142

25 11 27 13.64 6.123S 147.637E 65km
 5.6mb (41 abs.)
 EAST PAPUA NEW GUINEA REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 41C
 Centroid Location:
 Origin Time 11:27:15.0 0.2
 Lat 6.14S 0.02 Lon 147.71E 0.02
 Dep 33.5 2.8 Half-duration 4.3
 Principal Axes:
 Scale 10**18 Nm
 T Val= 1.47 P1g= 0 Azm=142
 N 0.00 90 180
 P -1.47 0 52
 Best Double Couple:Mo=1.5*10**18
 NP1:Strike=187 Dip=90 Slip= 180
 NP2: 277 90 0

25 15 20 18.43 18.808N 121.080E 16km
 5.3mb (47 abs.) 5.3msz (5 abs.)
 LUZON, PHILIPPINE ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 26C
 Centroid Location:
 Origin Time 15:20:20.8 0.3
 Lat 18.79N 0.03 Lon 121.01E 0.06
 Dep 32.7 3.7 Half-duration 2.3
 Principal Axes:
 Scale 10**17 Nm
 T Val= 2.74 P1g= 4 Azm=205
 N -0.10 27 297
 P -2.64 62 107
 Best Double Couple:Mo=2.7*10**17
 NP1:Strike=269 Dip=48 Slip=-128
 NP2: 138 55 -56

25 19 56 35.51 38.102N 91.179E 26km
 5.7mb (80 abs.) 5.7msz (15 abs.)
 QINGHAI PROVINCE, CHINA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 30C
 Centroid Location:
 Origin Time 19:56:45.2 0.4
 Lat 38.30N 0.05 Lon 91.08E 0.05
 Dep 15.0 BDY Half-duration 2.9
 Principal Axes:
 Scale 10**17 Nm
 T Val= 5.63 P1g=67 Azm=135
 N 0.24 19 278
 P -5.86 13 13
 Best Double Couple:Mo=5.8*10**17
 NP1:Strike=127 Dip=36 Slip= 124
 NP2: 267 60 68

26 00 24 03.53 30.036N 141.927E 33km
 5.2mb (32 abs.) 4.8msz (4 abs.)
 SOUTH OF HONSHU, JAPAN
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 24C
 Centroid Location:
 Origin Time 00:24: 4.7 0.8
 Lat 30.03N 0.09 Lon 141.68E 0.14
 Dep 45.2 7.4 Half-duration 1.4
 Principal Axes:
 Scale 10**16 Nm
 T Val= 7.52 P1g=16 Azm=328
 N -0.65 30 228
 P -6.87 55 82
 Best Double Couple:Mo=7.2*10**16
 NP1:Strike= 94 Dip=39 Slip=-38
 NP2: 214 67 -123

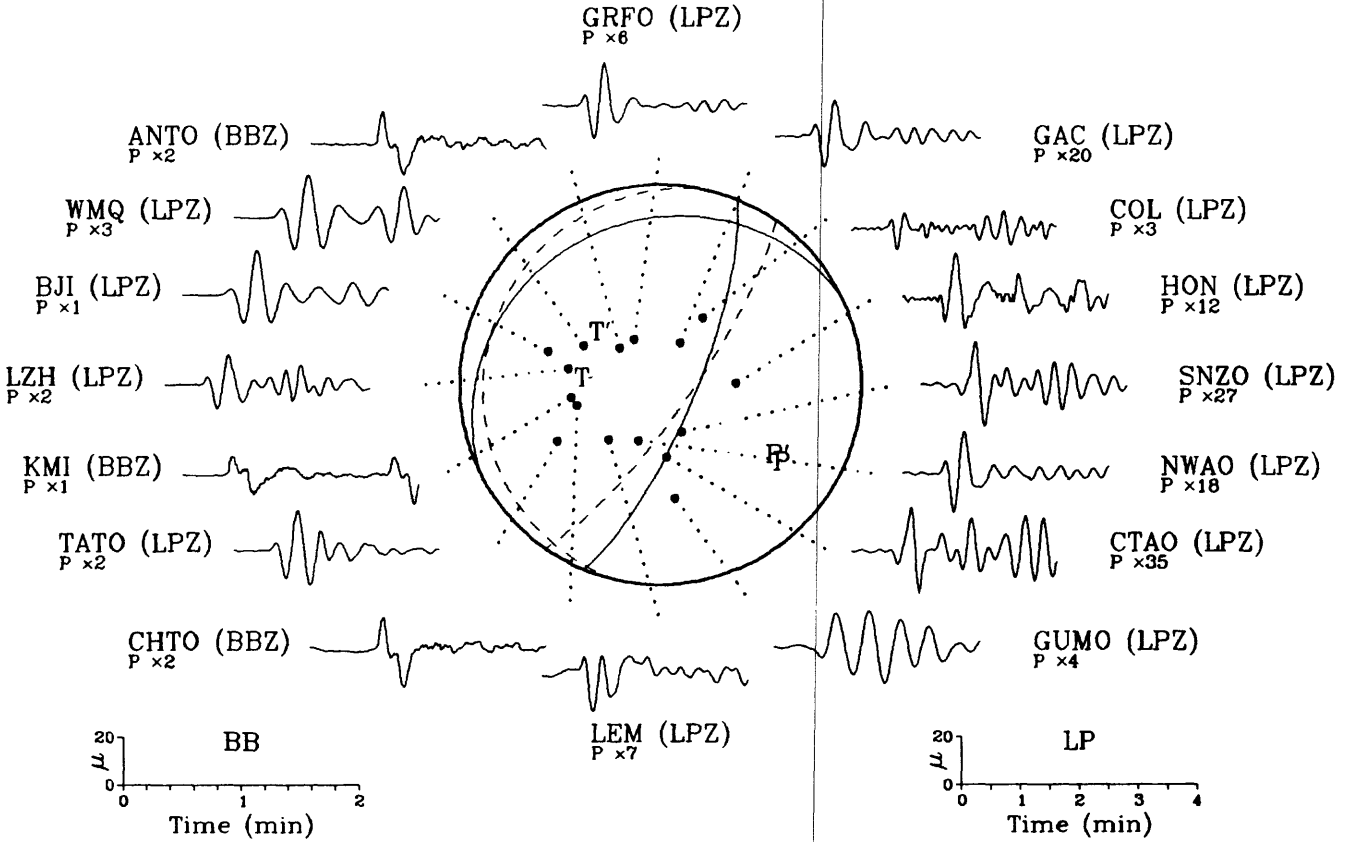
27 01 39 55.40 2.399N 98.612W 33km
 4.8mb (15 abs.) 4.6msz (3 obs.)
 WEST OF GALAPAGOS ISLANDS

<p>CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 13S, 27C Centroid Location: Origin Time 01:39:55.7 1.1 Lat 2.08N 0.11 Lon 98.40W 0.12 Dep 15.0 FIX Half-duration 1.4 Principal Axes: Scale 10**16 Nm T Val= 5.98 Plg=7 Azm=165 N 2.30 65 270 P -8.28 24 72 Best Double Couple:Mo=7.1*10**16 NP1:Strike=211 Dip=68 Slip=-168 NP2: 116 78 -22</p>	<p>poorly controlled and corresponds to normal faulting. The preferred fault plane is not determined. RADIATED ENERGY No. of sta: 5 Facal mech. F Energy 2.0+0.7*10**14 Nm MOMENT TENSOR SOLUTION Dep 14 No. of sta: 17 Principal Axes: Scale 10**19 Nm T Val= 1.25 Plg=21 Azm=255 N 0.05 0 345 P -1.29 69 76 Best Double Couple:Mo=1.3*10**19 NP1:Strike=344 Dip=24 Slip=-91 NP2: 165 66 -90 CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN, IDA L.P.B.: 16S, 41C M.W.: 13S, 34C Centroid Location: Origin Time 08:32:4.3 0.1 Lat 53.72N 0.01 Lon 167.16W 0.01 Dep 16.0 0.6 Half-duration 10.1 Principal Axes: Scale 10**19 Nm T Val= 2.48 Plg=14 Azm=284 N 0.16 8 192 P -2.64 73 73 Best Double Couple:Mo=2.6*10**19 NP1:Strike=26 Dip=32 Slip=-74 NP2: 187 60 -100</p>	<p>T Val= 1.33 Plg=33 Azm= 36 N 0.08 17 295 P -1.41 52 182 Best Double Couple:Mo=1.4*10**17 NP1:Strike=172 Dip=20 Slip= -31 NP2: 292 80 -107</p>
<p>27 06 50 54.41 17.238S 176.953W 10km 5.2mb (20 obs.) FIJI ISLANDS REGION CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 12S, 24C Centroid Location: Origin Time 06:51:0.1 0.6 Lat 17.44S 0.09 Lon 177.06W 0.11 Dep 15.0 FIX Half-duration 1.8 Principal Axes: Scale 10**16 Nm T Val= 14.57 Plg=25 Azm= 80 N -1.62 43 195 P -12.94 37 329 Best Double Couple:Mo=1.4*10**17 NP1:Strike=119 Dip=44 Slip=-170 NP2: 22 83 -47</p>	<p>27 21 51 12.35 6.063S 112.792E 584km 5.4mb (20 obs.) JAVA CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 11S, 23C Centroid Location: Origin Time 21:51:18.1 0.8 Lat 6.19S 0.07 Lon 112.63E 0.11 Dep 583.8 5.8 Half-duration 1.7 Principal Axes: Scale 10**17 Nm</p>	<p>27 23 34 52.03 38.473N 20.290E 5km 5.3mb (49 obs.) 5.5Msz (6 obs.) GREECE CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 12S, 28C Centroid Location: Origin Time 23:34:55.6 0.6 Lat 38.51N 0.05 Lon 21.02E 0.08 Dep 15.0 BDY Half-duration 2.7 Principal Axes: Scale 10**17 Nm T Val= 4.80 Plg=22 Azm=359 N -0.39 33 105 P -4.41 48 242 Best Double Couple:Mo=4.6*10**17 NP1:Strike=46 Dip=37 Slip=-155 NP2: 295 75 -55</p>
<p>27 08 31 54.40 53.470N 167.291W 10km 6.2mb (81 obs.) 6.7Msz (29 obs.) FOX ISLANDS, ALEUTIAN ISLANDS FAULT PLANE SOLUTION: P-Waves NP1:Strike=185 Dip=73 Slip= -90 NP2: 5 17 -90 Principal Axes: T Plg=28 Azm=275 P 62 95 Comment: The focal mechanism is</p>	<p>28 06 52 03.48 36.957N 141.603E 49km 5.3mb (52 obs.) 5.3Msz (2 obs.) NEAR EAST COAST OF HONSHU, JAPAN CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 11S, 27C Centroid Location: Origin Time 06:52:6.5 0.5 Lat 36.69N 0.04 Lon 141.60E 0.06 Dep 30.0 BDY Half-duration 2.1 Principal Axes: Scale 10**17 Nm T Val= 2.19 Plg=76 Azm=303 N 0.38 3 202 P -2.57 14 112 Best Double Couple:Mo=2.4*10**17 NP1:Strike=198 Dip=31 Slip= 85 NP2: 24 59 93</p>	

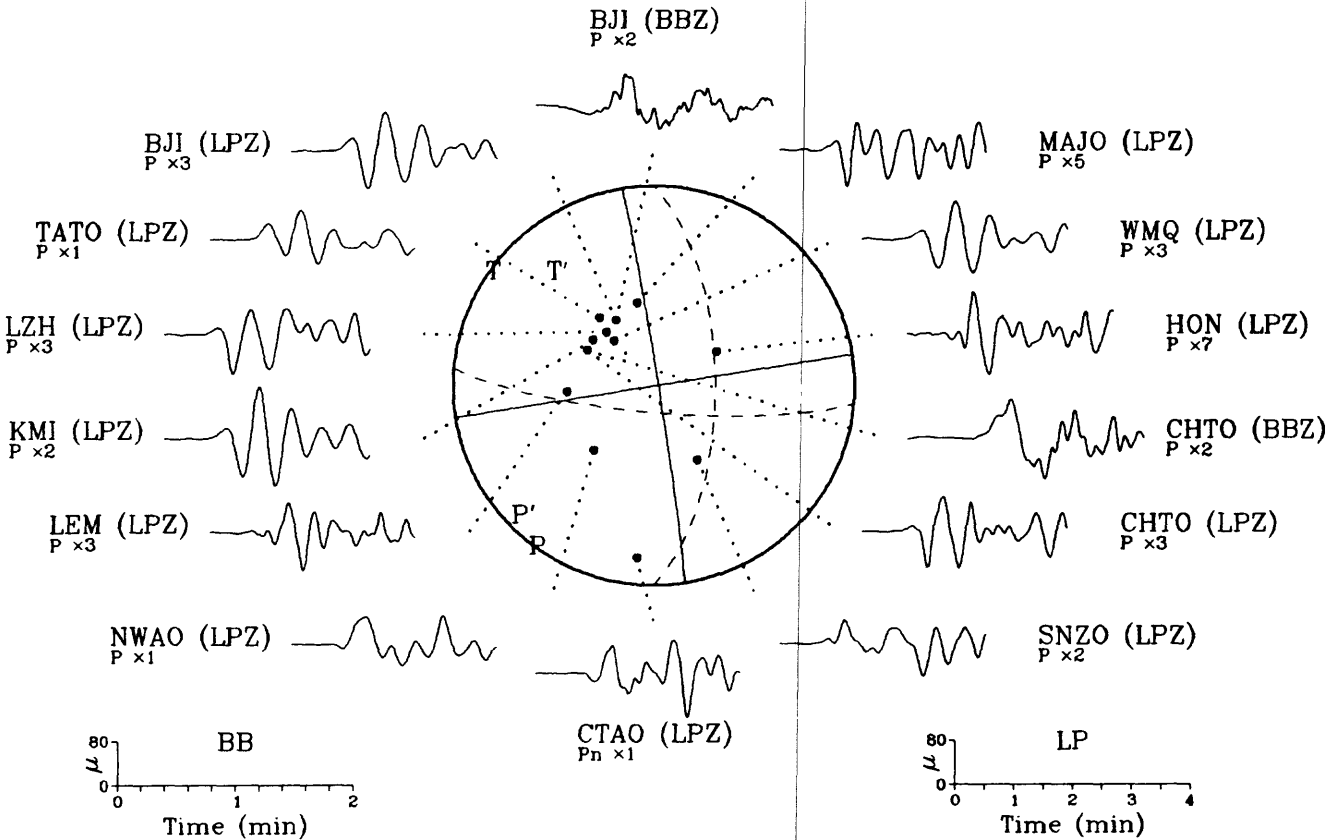
Compiled by Willis S. Jacobs, Leonard E. Kerry, John H. Minsch, Russell E. Needham, Waverly J. Person, Bruce W. Presgrave and William H. Schmieder.

Macroseismic information for the Papua New Guinea earthquakes of February 7 and 8 was contributed by I.D. Ripper and H. Letz of the Port Moresby Geophysical Observatory, Papua New Guinea.

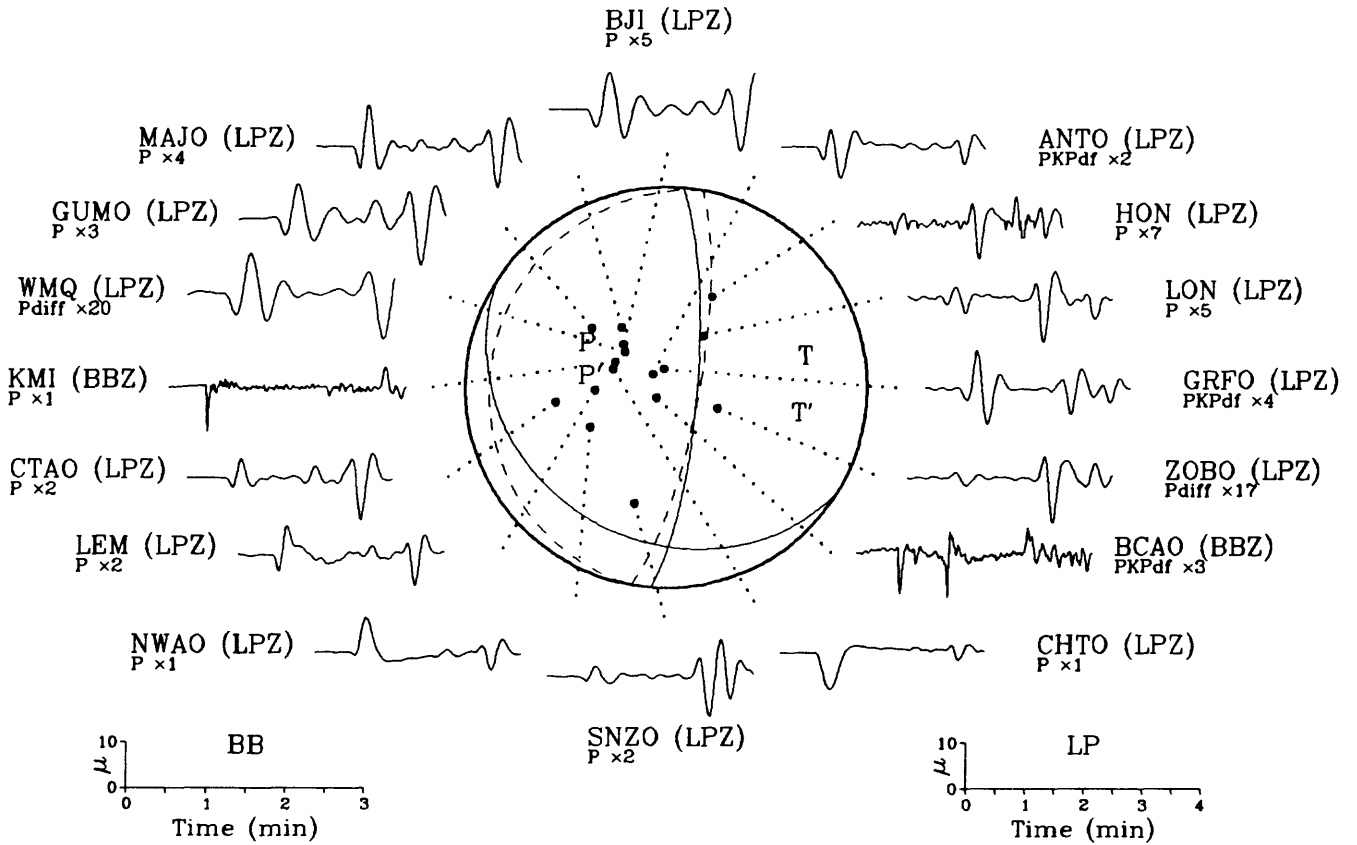
06 February 1987 12:23:48.02
Near East Coast of Honshu, Japan



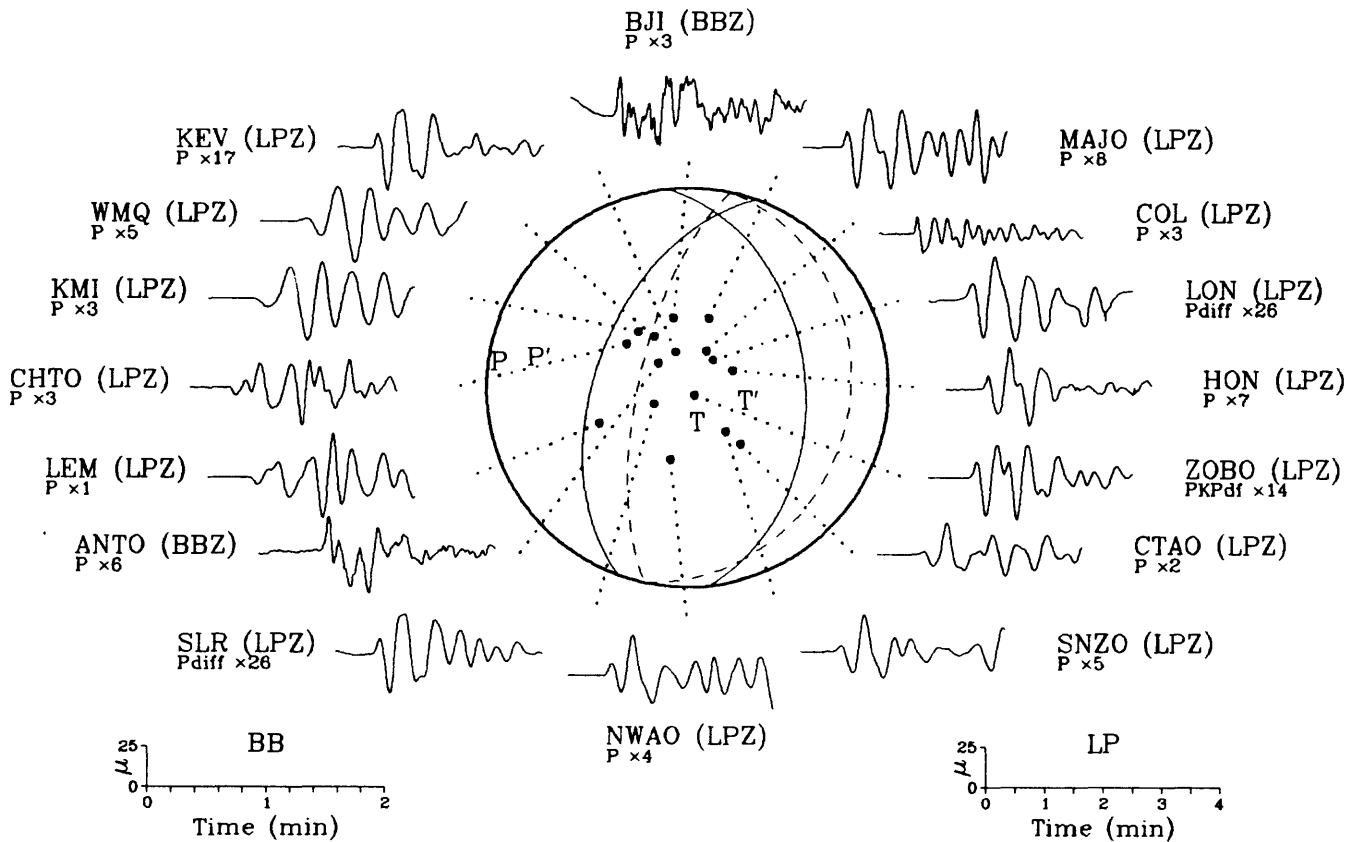
08 February 1987 18:33:58.39
East Papua New Guinea Region



10 February 1987 00:59:28.57
Fiji Islands Region

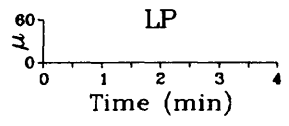
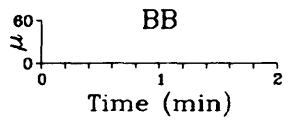
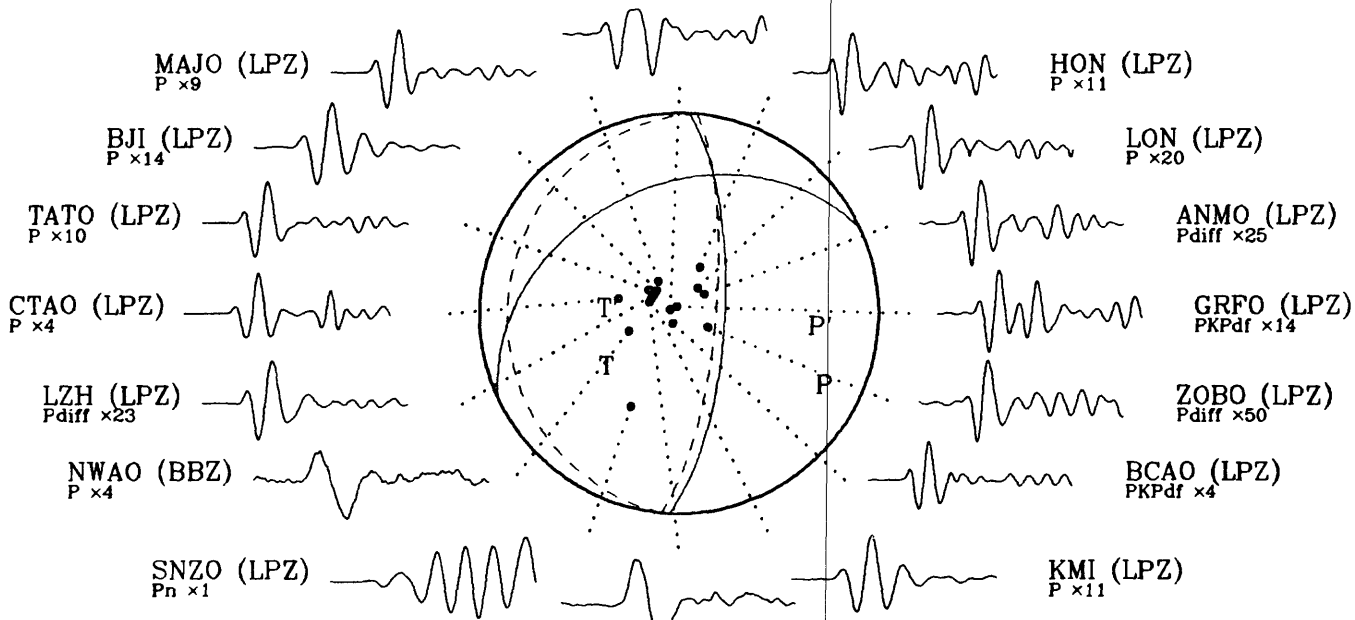


13 February 1987 07:18:29.09
Molucca Passage



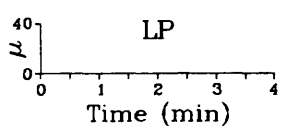
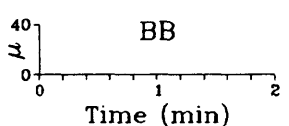
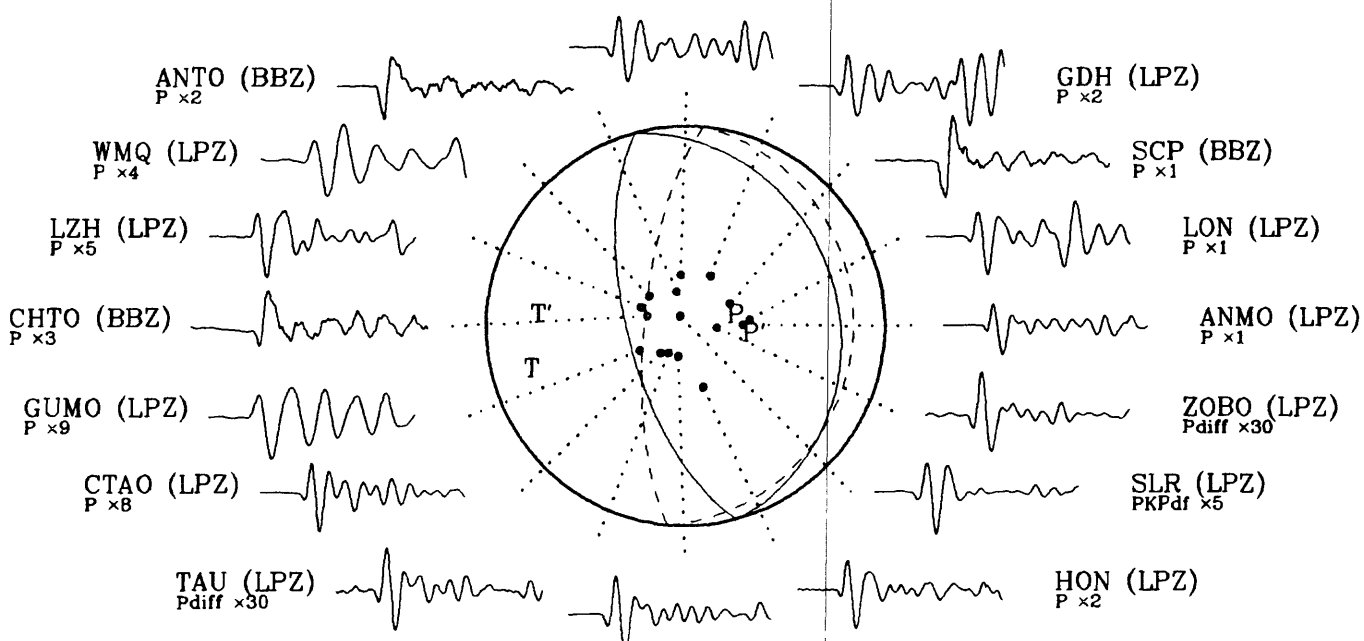
17 February 1987 06:16:12.12
South of Kermadec Islands

ANTO (LPZ)
PKPdf x15

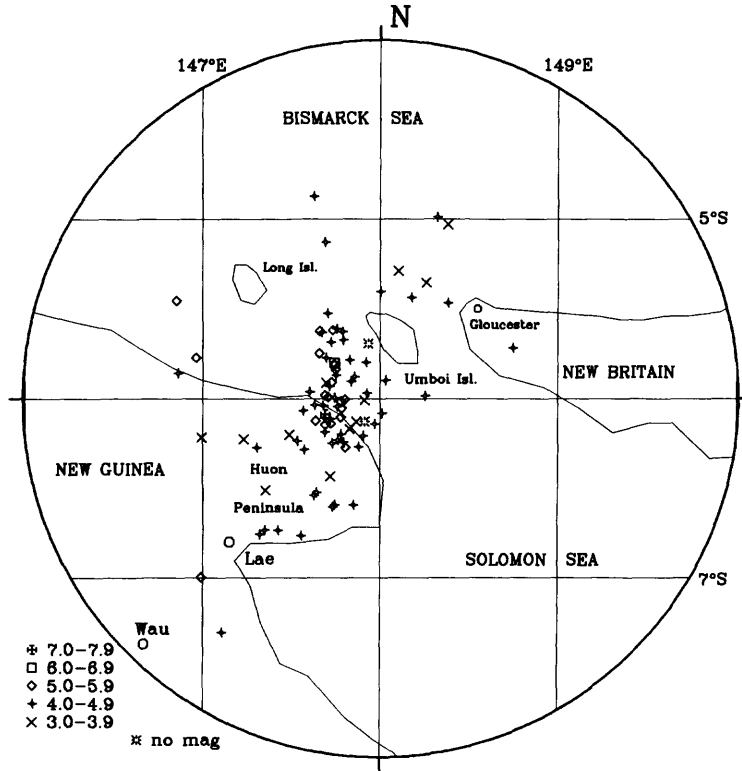


27 February 1987 08:31:54.40
Fox Islands, Aleutian Islands

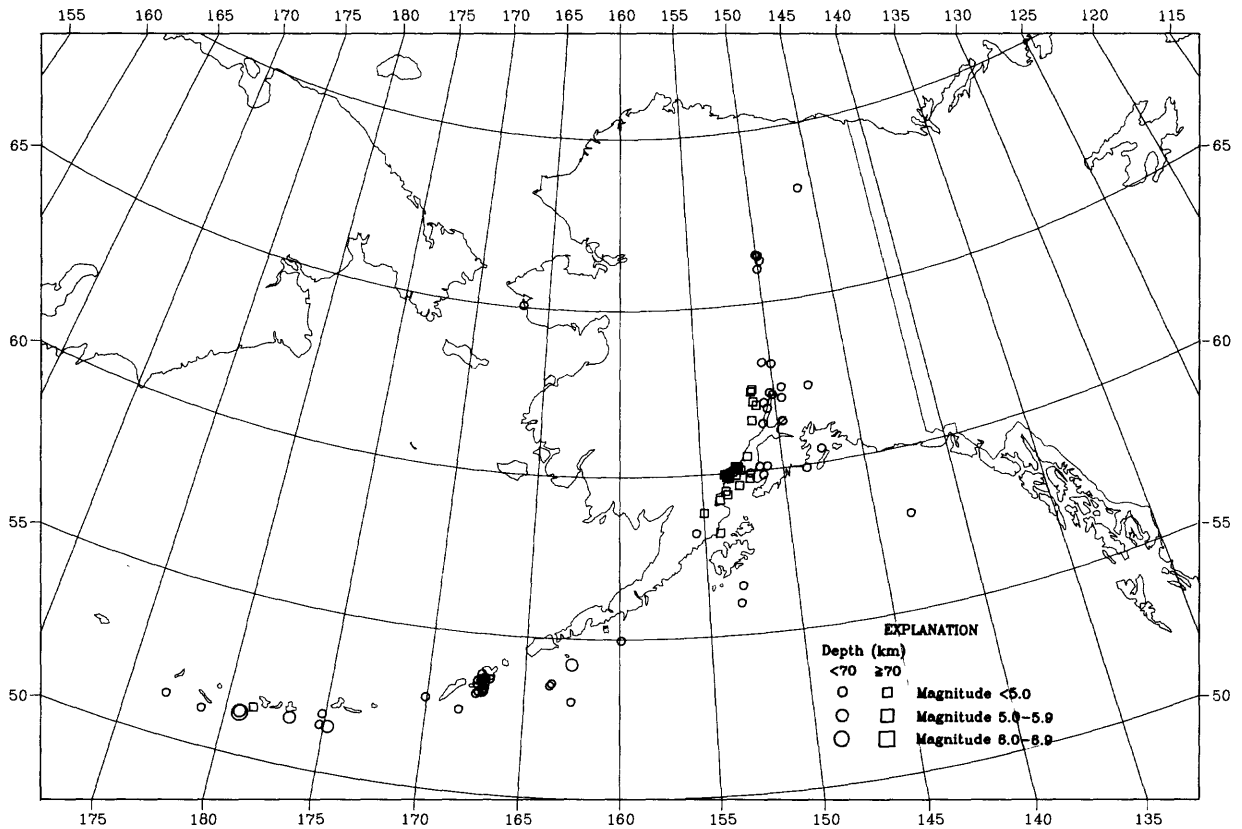
KEV (LPZ)
P x3



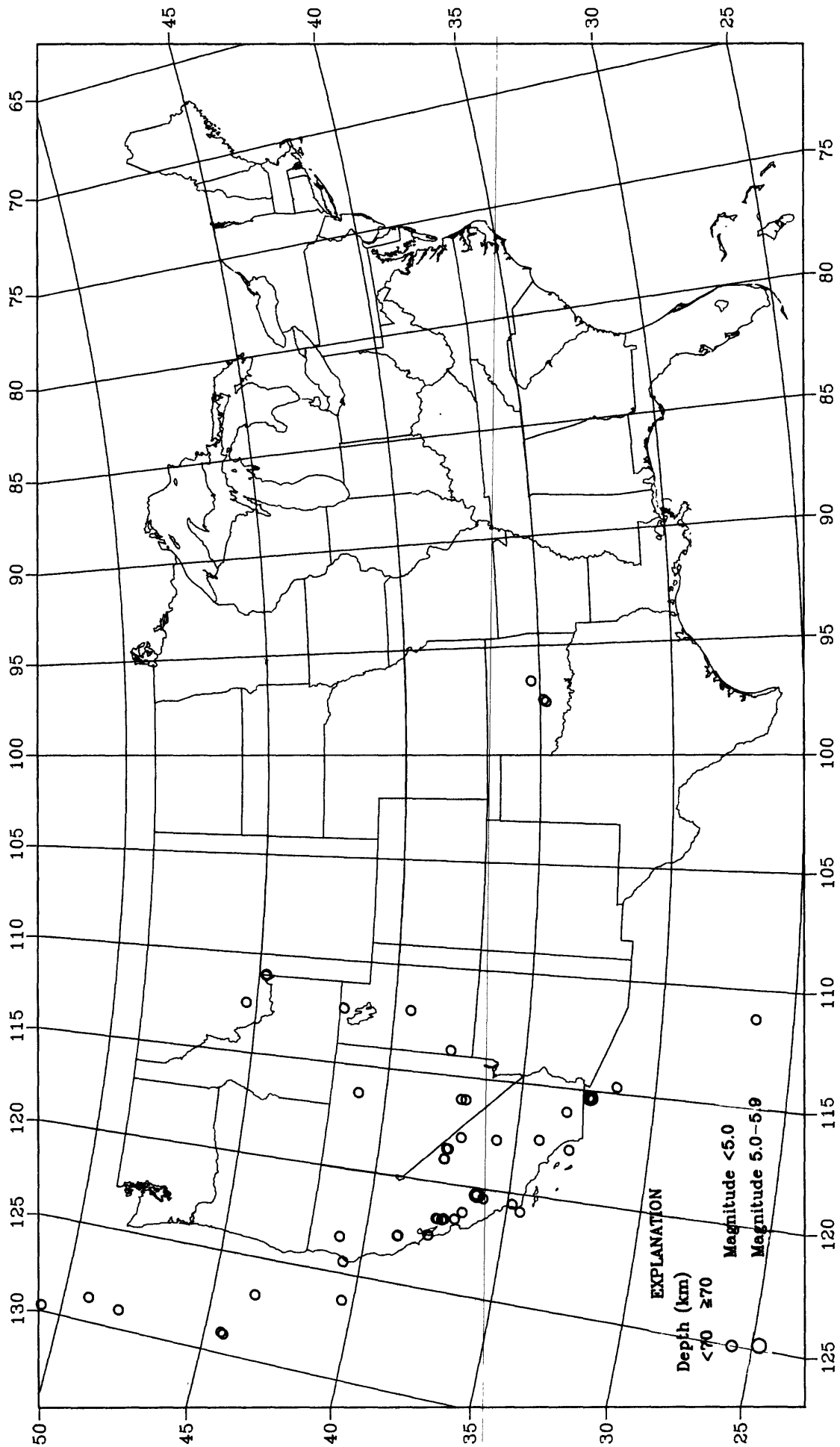
Earthquake Epicenters in the Vitiav Strait,
Papua New Guinea, February 1987



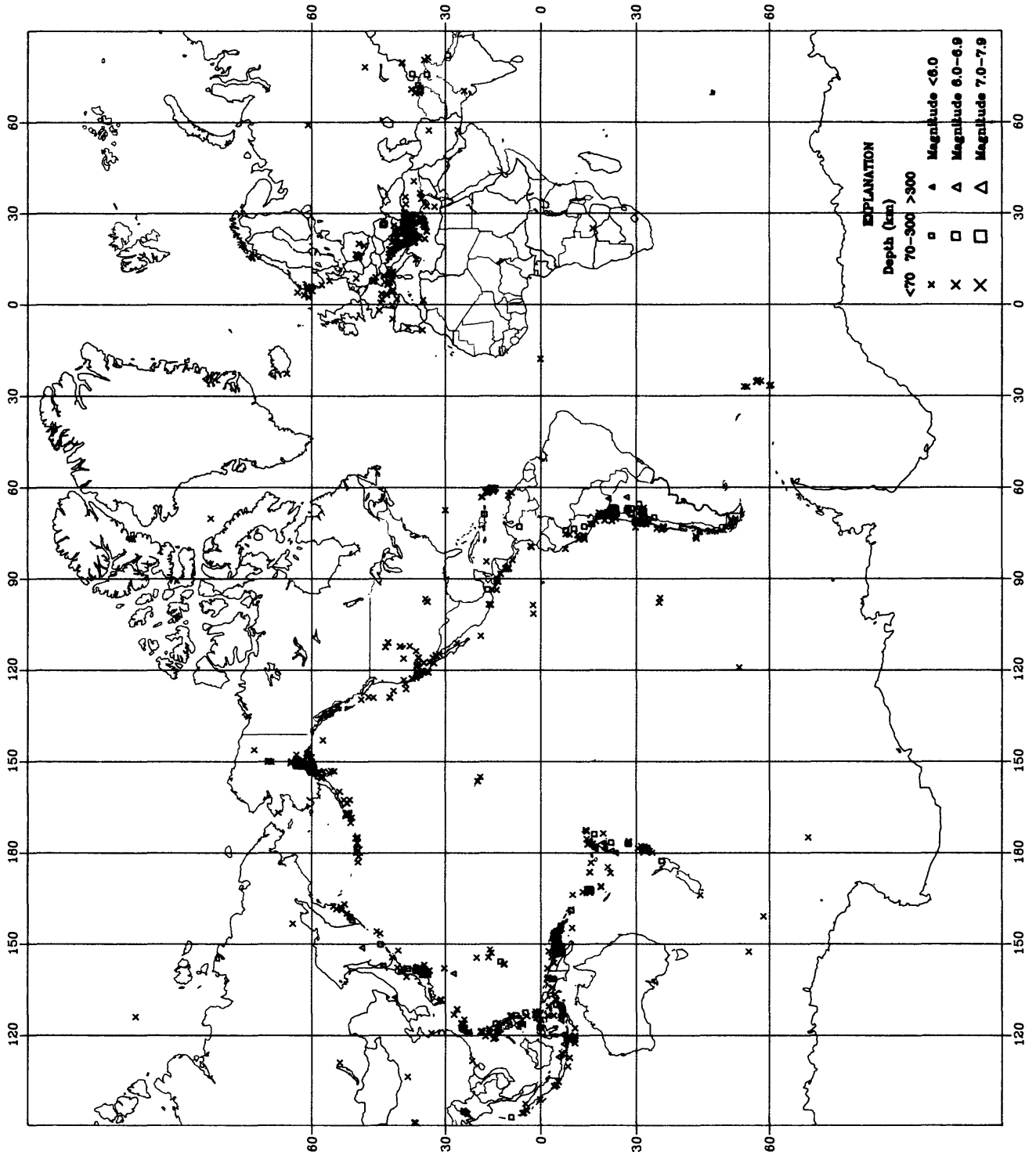
Earthquake epicenters in Alaska and adjacent regions for February, 1987



Earthquake epicenters in the conterminous United States and adjacent regions for February, 1987



Earthquakes located in February, 1967



CHANGE OF ADDRESS FORM

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

Mail this form to: NEW ADDRESS

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

Attach last subscription
label here.

SUBSCRIPTION ORDER FORM

SUBSCRIPTION ORDER FORM
ENTER MY SUBSCRIPTION TO:

@ \$ Domestic; @ \$ Foreign.

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

- Remittance Enclosed (Make checks payable to Superintendent of Documents)
- Charge to my Deposit Account No.

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



PRELIMINARY DETERMINATION OF EPICENTERS

MONTHLY LISTING

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

MARCH 1987

K E Y	DAY	ORIGIN TIME			GEOGRAPHIC COORDINATES		DEPTH	MAGNITUDES			NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
		UTC	HR	MN	SEC	LAT		LONG	GS	SD		
	01	00	38	22.7	36.417 N	70.823 E	180 *	4.6	1.0	34	HINDU KUSH REGION	
	01	01	38	33.6	40.917 N	124.982 W	5 G			6	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.0 (BRK).	
	01	02	32	49.4	31.612 S	69.153 W	122	4.7	0.9	56	SAN JUAN PROVINCE, ARGENTINA	
	01	03	19	31.5	33.756 N	22.998 E	33 N	4.6	1.1	197	MEDITERRANEAN SEA. ML 4.8 (ATH).	
	01	03	38	35.1?	38.87 N	27.72 E	10 G		1.7	5	TURKEY	
	01	03	52	25.7	3.895 S	136.701 E	33 N	4.9 4.8	0.9	32	WEST IRIAN	
a	01	04	55	04.3*	32.665 S	57.225 E	10 G	4.9	1.1	23	ATLANTIC-INDIAN RISE	
	01	06	41	59.3	56.932 N	7.127 E	10 G		1.0	38	NORTH SEA. MD 3.2 (BER).	
	01	07	16	01.6*	55.226 N	159.894 E	144 D	4.2	1.2	13	KAMCHATKA	
	01	07	32	29.7	28.112 S	66.624 W	129	4.8	1.0	44	CATAMARCA PROVINCE, ARGENTINA	
	01	07	48	47.6	37.372 N	141.387 E	62	4.8	1.1	84	NEAR EAST COAST OF HONSHU, JAPAN. Felt (11 JMA) at Fukushima and Ishinomaki; (1 JMA) at Onahama, Sendai and Utsunomiya.	
	01	08	49	43.4	53.606 N	167.180 W	10 G	4.5	1.1	40	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.6 (PMR).	
	01	08	53	02.0*	53.522 N	167.609 W	10 G	4.5	1.0	23	FOX ISLANDS, ALEUTIAN ISLANDS	
	01	09	11	50.3&	37.482 N	118.853 W	6			18	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.1 (BRK), 3.2 (PAS).	
	01	10	00	06.3?	20.77 S	177.88 W	486 ?	4.2	0.8	8	FIJI ISLANDS REGION	
	01	11	04	38.8*	38.344 N	20.442 E	10 G		0.4	7	GREECE. ML 3.5 (ATH).	
	01	12	17	45.5	39.001 N	22.203 E	43	4.1	1.2	51	GREECE	
	01	12	34	04.0&	60.415 N	147.573 W	22			37	SOUTHERN ALASKA. <AGS-P>. ML 3.3 (PMR).	
	01	12	42	00.1*	6.863 N	72.927 W	180 *		0.6	12	NORTHERN COLOMBIA	
	01	13	31	09.4	28.642 N	95.921 E	33 N	5.1	1.0	26	INDIA-CHINA BORDER REGION	
	01	14	10	29.7*	35.384 N	3.622 W	10 G		1.1	13	STRAIT OF GIBRALTAR. MG 3.1 (TOL).	
	01	15	19	18.2?	6.21 S	147.74 E	58 ?	4.0 3.1	1.3	7	EAST PAPUA NEW GUINEA REGION	
	01	17	59	10.0	49.777 N	102.749 E	24 D	4.8	1.2	63	MONGOLIA. Felt (1V) in the Irkutsk-Zakamensk area, USSR.	
	01	18	53	41.2&	33.910 N	116.780 W	18			8	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS). Felt in the Palm Springs area.	
	01	20	45	22.2	44.439 N	7.411 E	10 G		0.1	7	NORTHERN ITALY. ML 2.7 (LDG).	
	01	21	14	54.7?	35.98 N	28.22 E	10 G		1.1	5	EASTERN MEDITERRANEAN SEA	
	01	21	25	03.5	39.319 N	28.166 E	14		0.8	12	TURKEY	
	01	21	37	00.8	21.661 S	178.016 W	412 D	5.1	0.9	123	FIJI ISLANDS REGION	
	01	23	03	33.4?	6.34 S	147.68 E	62 *	4.3	1.4	10	EAST PAPUA NEW GUINEA REGION	
	01	23	20	31.6*	41.218 N	14.530 E	14		1.4	20	SOUTHERN ITALY	
	01	23	36	46.1*	18.663 N	146.313 E	77 ?	4.9	0.8	20	MARIANA ISLANDS	
	01	23	48	47.8*	43.998 N	9.896 E	10 G		0.5	7	CORSICA. ML 2.8 (LDG).	
	02	00	38	15.6?	29.78 N	113.50 W	10 G	4.0	1.7	10	GULF OF CALIFORNIA	
	02	00	57	28.8	37.444 N	29.513 E	10 G		1.1	7	TURKEY	
	02	01	35	38.9	37.930 S	176.916 E	29	5.1	1.5	31	NORTH ISLAND, NEW ZEALAND	
f	02	01	42	34.1	37.965 S	176.765 E	19 G	5.9 6.6	1.5	198	NORTH ISLAND, NEW ZEALAND. Ms 6.8 (BRK), 6.4 (PAS). One person died from a heart attack, 25 injured and extensive damage (X) in the Edgecumbe-Kawerau-Whakatane area. Felt throughout much of North Island. Landslides and sandblows occurred. A southwest trending fault scarp 6 km. long had extension openings of up to 1 m. and as much as 1.5 m. of downthrow on the northwest side. Peak ground acceleration of 0.33 g. was recorded within 15 km. of the epicenter. Depth from broadband displacement seismograms.	
	02	01	50	58.9	37.817 S	176.949 E	18 D	5.8	1.1	82	NORTH ISLAND, NEW ZEALAND. Felt.	
	02	03	27	39.4*	38.100 S	176.598 E	20 G	4.8	1.0	12	NORTH ISLAND, NEW ZEALAND	
	02	04	27	16.2&	40.265 N	124.618 W	15			7	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.1 (BRK).	
	02	05	07	06.0?	37.67 N	29.57 E	10 G		1.3	4	TURKEY	
a	02	05	57	43.5	45.708 S	96.212 E	10 G	5.6 6.2	1.1	94	SOUTHEAST INDIAN RISE	
	02	07	42	03.0*	30.886 S	67.982 W	33 N	4.7	1.2	10	SAN JUAN PROVINCE, ARGENTINA	
	02	07	55	08.9	37.912 S	176.848 E	10 G	5.5 5.2	1.2	40	NORTH ISLAND, NEW ZEALAND	
	02	08	13	02.7*	31.055 S	68.383 W	10 G		1.5	11	SAN JUAN PROVINCE, ARGENTINA	

02	08	30	51.7*	75.366	N	15.577	E	10	G	4.7	0.8	8	SVALBARD REGION	
02	09	43	55.3	52.137	N	159.202	E	41	D	5.0	0.8	107	OFF EAST COAST OF KAMCHATKA	
02	09	47	57.4*	45.578	S	95.953	E	10	G	4.6	0.8	18	SOUTHEAST INDIAN RISE	
02	13	34	24.6&	60.578	N	142.874	W	14				22	SOUTHERN ALASKA. <AGS-P>.	
02	15	16	57.4*	21.206	S	179.327	W	629		4.6	0.7	32	FIJI ISLANDS REGION	
02	16	31	37.6*	39.087	S	91.633	W	10	G	4.9 4.1	1.3	17	WEST CHILE RISE	
02	16	44	15.6*	31.611	S	117.108	E	10	G	3.6	1.2	8	WESTERN AUSTRALIA	
02	17	10	08.3*	21.215	S	67.745	W	183		4.1	1.3	21	CHILE-BOLIVIA BORDER REGION	
02	18	10	54.6*	36.932	N	28.594	E	10	G		0.6	6	DODECANESE ISLANDS	
02	18	34	26.7	19.139	S	68.567	W	57	*		0.9	10	CHILE-BOLIVIA BORDER REGION	
02	19	45	13.0*	40.089	N	20.500	E	10	G		1.4	5	GREECE-ALBANIA BORDER REGION. ML 3.0 (TTG).	
02	20	17	59.8	5.433	S	145.910	E	125	*	4.4	1.1	17	EAST PAPUA NEW GUINEA REGION	
02	21	51	08.2	25.436	N	63.121	E	33	N	4.4	1.0	23	PAKISTAN	
02	22	22	10.9	31.089	S	117.629	E	10	G		1.4	8	WESTERN AUSTRALIA	
02	22	34	38.3*	6.712	S	104.609	E	33	N	5.1	1.3	16	SUNDA STRAIT	
02	22	52	09.2*	58.726	S	25.379	W	33	N	4.8	0.7	13	SOUTH SANDWICH ISLANDS REGION	
02	23	14	30.9	53.399	N	167.528	W	10	G	4.8	1.4	52	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.9 (PMR).	
02	23	25	33.5&	62.098	N	150.883	W	60				21	CENTRAL ALASKA. <AGS-P>.	
02	23	35	08.1?	6.68	S	147.61	E	33	N	4.1	1.2	7	EAST PAPUA NEW GUINEA REGION	
03	00	06	03.5	52.713	N	174.613	W	162		5.0	1.0	157	ANDREANOF ISLANDS, ALEUTIAN IS.	
03	01	27	29.9?	34.37	N	104.01	E	33	N	4.3	1.7	11	GANSU PROVINCE, CHINA	
a	03	01	32	12.3	46.347	N	152.013	E	96	G	5.8	0.9	408	KURIL ISLANDS. Felt (II JMA) at Kushiro and (I JMA) at Nemuro, Hokkaido. Depth from broadband displacement seismograms.
03	02	16	34.7	38.932	N	25.693	E	26		3.4	1.1	47	AEGEAN SEA. ML 3.5 (ATH).	
03	02	44	00.0?	39.53	N	22.54	E	10	G		0.1	5	GREECE	
03	03	04	05.0%	60.570	N	5.065	E	10	G		0.3	7	SOUTHERN NORWAY. MD 2.0 (BER).	
03	05	37	45.9	44.174	N	11.165	E	17			1.3	35	NORTHERN ITALY. MD 3.6 (FIR), ML 3.6 (KBA).	
03	06	05	52.1	53.314	N	167.414	W	10	G	4.7	1.3	39	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.8 (PMR).	
03	07	17	53.8*	53.347	N	167.362	W	10	G	4.6	1.4	18	FOX ISLANDS, ALEUTIAN ISLANDS	
03	08	00	28.8*	33.849	S	71.518	W	10	G		0.6	8	NEAR COAST OF CENTRAL CHILE	
03	08	34	03.6?	20.41	S	177.93	W	551	?	4.6	0.9	18	FIJI ISLANDS REGION	
03	09	33	02.5&	61.324	N	146.933	W	31				40	SOUTHERN ALASKA. <AGS-P>. ML 3.3 (PMR).	
03	09	34	03.2	62.210	N	124.299	W	10	G		0.9	6	NORTHWEST TERRITORIES, CANADA	
a	03	09	41	33.6	41.292	N	79.298	E	33	N	5.1 5.0	1.2	81	KIRGHIZ-XINJIANG BORDER REGION
03	10	07	19.6	19.839	S	68.772	W	149		4.9	1.0	94	CHILE-BOLIVIA BORDER REGION. Felt (III) in the Iquique area, Chile.	
03	10	41	52.1	43.198	N	0.640	W	10	G		1.1	32	PYRENEES. ML 3.9 (LDG).	
03	10	42	50.7*	42.767	N	0.483	W	10	G		0.2	5	PYRENEES. ML 3.6 (LDG).	
03	11	09	47.1%	39.014	N	26.211	E	10	G		1.5	6	TURKEY	
03	11	32	56.6%	39.500	N	28.552	E	10	G		0.3	8	TURKEY	
03	12	26	05.9?	41.83	N	24.31	E	10	G		0.7	6	GREECE-BULGARIA BORDER REGION	
03	12	59	18.2*	23.990	S	66.869	W	193		4.6	1.0	29	JUJUY PROVINCE, ARGENTINA	
03	13	09	32.0*	71.123	N	5.696	W	10	G	4.4	1.4	21	JAN MAYEN ISLAND REGION	
a	03	14	20	32.3	57.910	S	25.147	W	25	D	5.4 5.0	0.9	82	SOUTH SANDWICH ISLANDS REGION
03	14	23	06.8*	40.313	N	63.607	E	33	N	4.5	1.4	13	UZBEK SSR	
03	14	32	41.7*	39.554	N	25.829	E	10	G		1.4	9	AEGEAN SEA	
03	15	30	54.6%	60.708	N	5.538	E	10	G		0.6	7	SOUTHERN NORWAY. MD 2.3 (BER).	
03	16	47	05.5?	43.67	N	1.07	W	10	G		0.6	5	PYRENEES. ML 3.2 (LDG).	
03	17	37	44.0	43.052	N	2.030	W	10	G		1.2	23	SPAIN. ML 3.5 (LDG). Felt (III) at Astrain.	
03	20	52	46.9?	79.68	N	1.62	W	10	G		1.4	7	GREENLAND SEA	
03	21	36	00.2*	53.169	N	167.121	W	10	G	4.3	1.1	10	FOX ISLANDS, ALEUTIAN ISLANDS	
03	22	34	01.9	45.756	N	150.700	E	109	D	4.9	0.8	125	KURIL ISLANDS	
03	22	38	19.1?	23.99	N	121.79	E	114	?		0.8	5	TAIWAN	
03	23	46	25.9	35.260	N	141.222	E	52	*	4.4	0.8	14	NEAR EAST COAST OF HONSHU, JAPAN	
04	00	12	28.0	21.739	N	142.999	E	312	*	4.5	0.9	45	MARIANA ISLANDS REGION	
04	01	23	21.3	47.413	N	11.369	E	13			1.3	23	AUSTRIA. ML 3.4 (KBA), 3.4 (LDG), 3.1 (GRF), 2.8 (FUR).	
04	01	38	15.7?	22.34	S	179.51	W	592	?	4.7	1.1	16	SOUTH OF FIJI ISLANDS	
04	02	22	54.2*	53.745	N	166.954	W	10	G	4.2	1.1	19	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.5 (PMR).	
04	02	49	40.9*	34.938	S	108.749	W	10	G	4.9	1.1	17	EASTER ISLAND CORDILLERA	
04	02	55	47.9*	24.134	N	121.945	E	33	N	3.9	1.4	12	TAIWAN	
04	04	16	26.1*	1.817	N	127.111	E	86	?	4.5	1.4	10	HALMAHERA	
04	04	19	26.3&	40.645	N	119.682	W	19	G			15	NEVADA. <BRK>. ML 3.7 (BRK). Felt (II) at Wendel, California.	
04	04	33	05.6*	46.371	N	13.319	E	10	G		1.0	8	AUSTRIA. ML 2.3 (KBA), 2.2 (TRI).	
04	05	22	01.6*	41.236	N	23.616	E	10	G		0.4	8	GREECE-BULGARIA BORDER REGION	
a	04	06	25	22.6	6.528	S	147.921	E	16		5.2 5.2	1.1	86	EAST PAPUA NEW GUINEA REGION. ML 5.3 (PMG).
04	06	49	56.2%	40.685	N	23.507	E	10	G		0.8	6	GREECE	
04	08	22	05.6*	36.202	N	28.536	E	10	G		1.1	10	DODECANESE ISLANDS	
04	09	55	29.1&	36.137	N	120.220	W	5				19	CENTRAL CALIFORNIA. <BRK>. ML 3.2 (BRK).	
a	04	10	04	58.5	19.962	S	68.926	W	113	D	5.2	1.2	137	CHILE-BOLIVIA BORDER REGION. Felt (III) in the Iquique area, Chile.
04	12	04	45.6*	34.307	N	23.633	E	33	N	4.4	1.2	9	CRETE	
04	13	11	29.6	60.417	N	7.113	E	10	G		0.7	8	SOUTHERN NORWAY. MD 2.2 (BER).	
04	13	29	15.1&	36.883	N	121.335	W	4				13	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK).	
04	15	12	00.2*	71.360	N	4.160	W	10	G	4.3	0.8	7	JAN MAYEN ISLAND REGION	
04	18	15	26.6&	60.078	N	152.553	W	93				42	SOUTHERN ALASKA. <AGS-P>.	
04	21	18	33.4%	46.147	N	2.699	E	10	G		0.9	8	FRANCE. ML 2.0 (LDG).	
04	21	31	20.1?	4.80	S	77.26	W	33	N		1.2	7	NORTHERN PERU	
05	00	30	21.0	40.776	N	116.253	W	5	G		0.8	15	NEVADA. ML 4.1 (SLC), MD 4.1 (REN). Felt (III) at Beowawe. Felt 7 miles and 18 miles north of Carlin.	
05	00	46	42.4	0.310	S	129.730	E	33	N	4.9 4.3	1.1	40	HALMAHERA	
05	00	58	55.8	40.486	N	22.684	E	10	G		0.2	7	GREECE	
05	01	46	00.8	37.117	N	141.461	E	56		4.8	1.1	78	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Fukushima, Onahama and Sendai.	
05	02	33	39.3	35.410	N	87.386	E	33	N	4.5	1.6	18	TIBET	
05	02	56	17.0	47.803	N	155.327	E	34	D	4.8	1.2	89	KURIL ISLANDS REGION	
05	03	02	50.4&	40.442	N	110.616	W	1		4.0		40	UTAH. <SLC-P>. ML 3.7 (SLC). Felt (IV) at Mountain Home.	
05	03	19	18.8?	36.52	N	28.69	E	10	G		1.1	7	DODECANESE ISLANDS	
05	04	13	54.3&	59.514	N	153.587	W	122				32	SOUTHERN ALASKA. <AGS-P>.	
05	04	50	18.1*	38.921	N	25.652	E	10	G		0.6	6	AEGEAN SEA	
05	05	27	22.5?	23.59	S	179.25	W	566	*	5.0	0.6	23	SOUTH OF FIJI ISLANDS	

05	05 50 16.1*	5.270 S	152.694 E	33 N	3.9	1.5	6	NEW BRITAIN REGION
05	05 56 47.5*	43.222 N	20.881 E	10 G		1.3	6	YUGOSLAVIA. Felt (IV) in the Blazevic area.
05	06 55 25.2*	36.578 N	121.198 W	4			12	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK).
f 05	09 17 05.2	24.388 S	70.161 W	62 G	6.5 7.3	1.2	303	NEAR COAST OF NORTHERN CHILE. Ms 7.2 (BRK), 7.0 (PAS), mb 6.8 (PAS). One person killed and damage (VI) in the Antofagasta area. Felt (VI) at Chuquibambilla; (V) in the Taltal-Tacnanao-Colama area; (IV) at Arica; (III) at Valparaiso. Felt (II) at Arequipa, Peru. Also felt at La Paz, Bolivia. Local tsunami generated with maximum wave heights 22 cm. at Caldera, 20 cm. at Coquimbo, 14 cm. at Valparaiso and 18 cm. at Arica. Depth from broadband displacement seismograms.
05	09 24 43.7	42.502 N	18.659 E	10 G		0.9	9	YUGOSLAVIA. ML 2.5 (TTG).
05	09 51 53.4	24.432 S	70.216 W	43 D	5.6	0.9	158	NEAR COAST OF NORTHERN CHILE
05	09 56 08.5	24.463 S	70.466 W	48 *	5.6	0.9	120	NEAR COAST OF NORTHERN CHILE
a 05	10 55 12.3	24.495 S	70.701 W	35 D	5.7	1.2	183	NEAR COAST OF NORTHERN CHILE. Felt (IV) at Antofagasta.
05	11 08 21.8*	5.922 S	78.969 W	33 N	5.0	0.9	16	NORTHERN PERU
05	13 06 25.3*	24.568 S	70.631 W	33 N	4.6	0.7	13	NEAR COAST OF NORTHERN CHILE
05	15 52 20.6*	5.838 S	142.028 E	33 N	3.7	1.0	5	PAPUA NEW GUINEA
05	16 04 13.1	40.523 N	23.750 E	10 G		1.1	10	GREECE
05	18 20 16.6*	53.245 N	167.142 W	10 G	4.6	1.4	27	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.6 (PMR).
05	18 27 41.6*	24.436 S	70.100 W	33 N		1.2	7	NEAR COAST OF NORTHERN CHILE
05	19 43 28.1*	36.356 N	28.611 E	10 G		1.5	6	DODECANESE ISLANDS
a 05	19 47 09.1	5.887 S	146.653 E	56	5.4 5.2	1.0	110	EAST PAPUA NEW GUINEA REGION
05	20 24 34.5	53.149 N	167.143 W	10 G	4.6	1.0	39	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.8 (PMR).
05	20 35 06.3*	62.518 N	147.721 W	58			29	CENTRAL ALASKA. <AGS-P>.
05	20 39 19.7	52.471 N	132.719 E	15 D	5.0	0.9	87	EASTERN USSR
05	20 42 14.5*	35.200 N	23.34 E	33 N	3.7	1.3	8	CRETE. ML 3.6 (ATH).
05	21 14 20.2	37.597 N	118.446 W	5 G		0.6	10	CALIFORNIA-NEVADA BORDER REGION. MD 3.2 (REN).
05	21 27 50.1	24.013 S	70.534 W	52	5.0	1.1	37	NEAR COAST OF NORTHERN CHILE
05	22 20 43.3*	60.099 N	152.071 W	60			18	SOUTHERN ALASKA. <AGS-P>.
05	23 09 07.1*	47.117 N	0.135 W	10 G		0.5	14	FRANCE. ML 3.3 (LDG).
06	01 06 56.4	54.624 N	161.804 E	31 D	4.6	0.9	31	NEAR EAST COAST OF KAMCHATKA
f 06	01 54 50.4	0.048 N	77.653 W	14 G	6.1 6.1	0.9	354	COLOMBIA-ECUADOR BORDER REGION. Ms 6.2 (BRK). One old building collapsed in Quito, Ecuador. Felt throughout northern Ecuador, central and southwestern Colombia, and northern Peru. Depth from broadband displacement seismograms.
06	02 14 47.0	48.346 N	7.664 E	10 G		0.3	8	FRANCE. ML 2.3 (LDG).
06	02 37 05.5*	30.72 S	178.26 W	33 N	4.6	1.2	10	KERMADEC ISLANDS
f 06	04 10 41.9	0.151 N	77.821 W	10 G	6.5 6.9	1.2	344	COLOMBIA-ECUADOR BORDER REGION. Ms 7.0 (BRK), 6.7 (PAS). Approximately 1,000 people killed, 4,000 missing, 20,000 homeless, extensive damage, landslides and ground cracks in Napo Province and in the Quito-Tulcan area, Ecuador. About 27 km. of the oil pipeline in Ecuador, between Lago Agrio and Balao, were destroyed or badly damaged. Landslides occurred in the Pasto-Mocoa area, Colombia. Felt (IV) at Iquitos, Peru. Felt strongly in many parts of Ecuador and southwestern Colombia. Also felt in central Colombia and northern Peru.
06	04 17 30.0*	0.220 S	77.600 W	10 G	5.5	1.3	50	ECUADOR
06	04 56 29.0*	24.48 S	68.74 W	33 N	4.7	1.5	12	CHILE-ARGENTINA BORDER REGION
06	05 34 33.3	51.690 N	16.168 E	10 G		0.8	16	POLAND. ML 4.2 (VKA), 3.9 (KBA).
06	06 10 33.2*	37.13 N	22.20 E	10 G		1.4	6	SOUTHERN GREECE. ML 3.3 (ATH).
06	06 28 06.6*	61.567 N	152.003 W	105			25	SOUTHERN ALASKA. <AGS-P>.
06	06 33 03.6	0.055 S	77.629 W	10 G	5.2	1.0	112	ECUADOR. Felt in southwestern Colombia.
a 06	07 06 44.0	24.089 S	70.104 W	41 D	5.9 5.5	0.9	250	NEAR COAST OF NORTHERN CHILE. Felt (IV) at Antofagasta.
06	08 12 51.3*	24.157 S	70.184 W	33 N	4.3	1.4	9	NEAR COAST OF NORTHERN CHILE
a 06	08 14 48.0	0.022 N	77.927 W	9 D	5.5 5.4	1.2	173	COLOMBIA-ECUADOR BORDER REGION. Felt in southwestern Colombia.
06	08 24 36.3*	23.904 S	70.056 W	33 *		0.5	7	NEAR COAST OF NORTHERN CHILE
06	08 29 16.1*	10.922 N	61.802 W	33 N		0.8	7	TRINIDAD. MD 3.7 (TRN). Felt (IV) on Trinidad.
06	09 36 24.4*	11.178 S	119.498 E	33 N	3.9	1.0	8	SOUTH OF SUMBA ISLAND
a 06	09 39 54.7	24.149 S	70.118 W	46 D	5.7 5.7	1.0	265	NEAR COAST OF NORTHERN CHILE. Felt (V) at Antofagasta.
06	10 12 56.7	59.791 N	6.239 E	10 G		1.6	6	SOUTHERN NORWAY. MD 2.0 (BER).
06	10 16 01.9*	31.484 S	179.664 W	320 *	4.9	1.3	36	KERMADEC ISLANDS REGION
a 06	10 23 26.6	14.590 N	92.287 W	95	5.1	1.0	194	NEAR COAST OF CHIAPAS, MEXICO
06	12 40 05.0	0.152 S	77.565 W	12 D	4.9	1.3	31	ECUADOR
a 06	13 48 41.5	51.135 N	179.587 E	54 D	5.4	1.0	220	RAT ISLANDS, ALEUTIAN ISLANDS
06	13 49 52.3	0.140 N	77.268 W	10 G	4.7	1.1	27	COLOMBIA-ECUADOR BORDER REGION
06	13 58 11.7	6.737 N	73.042 W	172	4.9	0.9	68	NORTHERN COLOMBIA
06	14 09 16.8*	51.09 N	179.24 E	33 N	4.5	0.8	9	RAT ISLANDS, ALEUTIAN ISLANDS
06	14 19 20.8*	31.223 S	117.495 E	10 G		1.4	6	WESTERN AUSTRALIA
06	15 06 08.8*	41.461 N	32.870 E	10 G		1.6	7	TURKEY
06	15 18 30.5	45.151 N	23.109 E	10 G		1.6	10	ROMANIA
06	15 27 41.7	16.888 N	59.876 E	10 G	4.8	1.3	50	ARABIAN SEA
06	15 37 32.8*	51.30 N	179.44 E	33 N	4.4	0.9	7	RAT ISLANDS, ALEUTIAN ISLANDS
06	16 30 19.4*	50.982 N	179.586 E	33 N	4.8	1.2	32	RAT ISLANDS, ALEUTIAN ISLANDS. ML 4.6 (PMR).
06	16 54 50.6	51.094 N	179.560 E	33 N	5.1	1.1	89	RAT ISLANDS, ALEUTIAN ISLANDS
06	17 10 52.7	7.159 N	76.123 W	54 *	4.1	1.1	13	NORTHERN COLOMBIA
06	17 17 42.8	31.880 S	67.881 W	117	5.0	1.0	76	SAN JUAN PROVINCE, ARGENTINA. Felt (III) at Mendoza.
06	18 11 55.8	15.436 N	94.611 W	39 *	4.8	0.9	50	NEAR COAST OF OAXACA, MEXICO
06	19 24 25.3*	38.437 N	31.689 E	10 G		1.0	11	TURKEY. Felt at Ilgin.
06	19 35 39.1*	49.160 N	9.376 E	10 G		0.9	8	GERMANY. ML 3.0 (LDG).
06	19 56 07.4*	53.217 N	167.147 W	10 G	4.5	1.1	19	FOX ISLANDS, ALEUTIAN ISLANDS
06	20 22 26.4*	53.734 N	166.938 W	10 G	4.0	0.9	9	FOX ISLANDS, ALEUTIAN ISLANDS
06	20 46 27.6*	6.809 S	129.698 E	87 ?	4.4	0.8	11	BANDA SEA
06	22 27 39.7*	24.90 S	71.30 W	33 N		0.9	6	OFF COAST OF NORTHERN CHILE
07	00 03 08.3*	5.71 S	147.54 E	179 ?	4.0	1.2	6	EAST PAPUA NEW GUINEA REGION
07	00 23 39.1	6.788 N	72.965 W	167	4.8	0.9	42	NORTHERN COLOMBIA
07	00 44 15.8*	23.858 S	174.513 W	33 N	4.7	0.8	6	TONGA ISLANDS REGION
07	01 14 27.1	48.308 N	7.693 E	10 G		0.9	9	FRANCE. ML 2.6 (LDG).

07	01 36 28.9*	5.347 N	126.150 E	117 *	4.7	1.0	22	MINDANAO, PHILIPPINE ISLANDS
07	01 37 22.7	6.781 N	73.015 W	167	4.9	0.8	82	NORTHERN COLOMBIA
07	03 16 37.2	35.236 N	140.880 E	60 *	4.5	1.2	48	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Kofu and Mito.
07	03 59 47.0*	48.353 N	7.614 E	10 G		0.4	6	FRANCE. ML 2.1 (LDG).
07	04 52 44.8?	51.58 N	16.76 E	10 G		1.1	5	POLAND
07	05 25 52.8?	38.04 N	20.01 E	10 G		1.3	8	GREECE. ML 3.5 (ATH).
07	05 38 06.6	30.739 S	117.124 E	19	4.0	0.9	10	WESTERN AUSTRALIA
o 07	06 11 17.0	16.022 S	167.399 E	36 D	5.6 5.5	1.1	171	VANUATU ISLANDS
07	07 29 14.4*	53.268 N	166.826 W	10 G	4.2	1.3	11	FOX ISLANDS, ALEUTIAN ISLANDS
07	07 32 20.0%	60.654 N	4.901 E	10 G		0.9	6	SOUTHERN NORWAY. MD 1.6 (BER).
07	07 57 01.2	33.239 S	179.855 W	93 *	5.0	1.1	67	SOUTH OF KERMADEC ISLANDS
07	07 58 36.9	8.387 S	156.522 E	33 N	4.3	0.6	8	SOLOMON ISLANDS
07	08 07 51.9*	51.469 N	174.148 W	33 N	4.8	0.7	35	ANDREANOF ISLANDS, ALEUTIAN IS.
07	08 30 13.9%	62.568 N	150.901 W	75			17	CENTRAL ALASKA. <AGS-P>.
07	10 55 56.4%	59.894 N	153.482 W	130			25	SOUTHERN ALASKA. <AGS-P>.
07	12 17 30.0?	6.87 N	82.62 W	10 G	4.4	0.9	7	SOUTH OF PANAMA
07	13 24 28.6?	24.18 S	70.77 W	33 N	5.2	0.8	5	NEAR COAST OF NORTHERN CHILE
07	14 01 37.5*	7.159 S	125.132 E	510 *	3.4	0.8	12	BANDA SEA
07	14 23 34.6*	40.836 N	22.801 E	10 G		0.1	5	GREECE. ML 1.0 (SKO).
a 07	14 50 54.2	6.129 S	147.791 E	41	5.4	0.9	68	EAST PAPUA NEW GUINEA REGION
07	15 08 03.2	10.440 N	84.618 W	10 G		0.4	16	COSTA RICA. MD 3.5 (HDC). Felt (IV) at Fortuna, Los Angeles and Tanque. Also felt at Arenal, Quesada and San Francisco.
07	15 25 42.8*	24.658 N	123.238 E	33 N	4.1	0.6	8	SOUTHWESTERN RYUKYU ISLANDS
07	17 05 18.7	7.000 S	129.496 E	146	5.3	0.9	106	BANDA SEA
07	17 20 55.7	7.302 N	121.779 E	35	5.2	1.0	79	MINDANAO, PHILIPPINE ISLANDS
07	17 34 56.4	30.817 N	137.751 E	449 *	4.2	0.6	35	SOUTH OF HONSHU, JAPAN
07	19 16 32.2*	0.208 S	77.716 W	10 G	4.3	1.4	15	ECUADOR. Felt (III) at Quito.
a 07	19 43 06.5	15.988 S	172.716 W	33 N	5.3 5.5	1.1	148	SAMOA ISLANDS REGION. Ms 5.8 (BRK).
07	21 45 44.2*	24.462 S	70.631 W	33 N	4.6	1.1	15	NEAR COAST OF NORTHERN CHILE. Felt (III) at Antofagasta.
a 07	21 48 46.5*	16.225 S	172.664 W	33 N	5.0 5.2	1.1	32	SAMOA ISLANDS REGION
07	21 56 31.7*	15.648 S	170.292 E	33 N	4.5	1.5	27	VANUATU ISLANDS REGION
07	22 37 04.3?	21.52 S	69.71 W	100 ?		1.1	5	NORTHERN CHILE
07	22 52 17.6%	45.568 N	3.495 E	10 G		1.2	13	FRANCE. ML 2.8 (LDG).
07	22 58 14.0	0.138 S	77.533 W	10 G	4.7	1.3	40	ECUADOR. Felt at Quito.
07	23 18 56.9	0.775 N	126.098 E	33 N	4.2	1.0	16	MOLUCCA PASSAGE
08	00 24 24.2*	53.473 N	167.053 W	10 G	4.4	0.7	7	FOX ISLANDS, ALEUTIAN ISLANDS
08	01 24 20.7*	53.718 N	167.195 W	10 G	4.1	0.4	6	FOX ISLANDS, ALEUTIAN ISLANDS
08	01 59 05.5	43.012 N	1.955 W	10 G		1.2	13	PYRENEES. MG 2.8 (MDD).
08	03 16 25.4*	53.573 N	167.148 W	10 G	4.4	1.1	13	FOX ISLANDS, ALEUTIAN ISLANDS
08	05 10 02.1	25.617 N	124.620 E	167	4.3	0.9	30	NORTHEAST OF TAIWAN
08	05 13 25.3	5.339 S	141.892 E	33 N	4.2	1.1	12	PAPUA NEW GUINEA
08	06 03 25.1%	58.220 N	155.052 W	14			13	ALASKA PENINSULA. <AGS-P>.
08	06 26 28.9?	20.83 S	177.49 W	504 ?	4.4	0.9	16	FIJI ISLANDS REGION
08	08 13 41.6	54.373 N	165.022 W	84 *	4.5	0.8	47	FOX ISLANDS, ALEUTIAN ISLANDS
08	10 35 41.1%	60.425 N	7.196 E	10 G		0.6	7	SOUTHERN NORWAY. MD 2.0 (BER).
08	12 25 00.9?	16.25 N	120.93 E	29 *	4.6	0.9	8	LUZON, PHILIPPINE ISLANDS
08	12 31 08.8	13.153 N	75.312 W	10 G	4.5 3.8	1.2	28	CARIBBEAN SEA
08	12 49 29.1	48.186 N	7.960 E	10 G		0.4	8	FRANCE. ML 2.7 (LDG).
a 08	12 51 43.3	20.483 S	70.376 W	30 D	5.2	0.9	122	NEAR COAST OF NORTHERN CHILE. Felt (III) at Iquique.
08	13 12 33.6	10.126 N	56.826 E	10 G	4.9	1.0	24	CARLSBERG RIDGE
08	15 43 12.6%	35.808 N	121.208 W	2 G			12	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).
08	16 01 34.0*	24.162 S	70.774 W	53 *	4.5	1.4	16	NEAR COAST OF NORTHERN CHILE. Felt (II) at Antofagasta.
08	16 21 57.4?	10.87 N	85.06 W	120 ?		0.3	13	COSTA RICA. MD 4.4 (HDC).
08	16 33 05.5*	6.296 S	147.824 E	33 N	4.3	0.9	6	EAST PAPUA NEW GUINEA REGION. ML 3.9 (PMG).
08	17 22 23.3%	61.884 N	152.075 W	126			29	SOUTHERN ALASKA. <AGS-P>.
08	17 38 36.0	39.421 N	20.568 E	56	4.1	1.3	70	GREECE-ALBANIA BORDER REGION. Felt at Ioannina, Greece.
08	17 42 21.2	39.472 N	20.569 E	41	4.9 3.7	1.3	148	GREECE-ALBANIA BORDER REGION. Felt at Ioannina, Greece.
08	17 53 04.7	6.541 S	155.484 E	111	4.7	0.9	36	SOLOMON ISLANDS
08	18 27 58.3*	37.900 N	29.554 E	10 G		1.6	5	TURKEY
08	19 08 27.1*	24.080 S	71.187 W	33 N		0.4	5	OFF COAST OF NORTHERN CHILE
08	19 17 57.3	43.137 S	173.179 E	26	5.1 4.5	1.5	33	OFF E. COAST OF S. ISLAND, N.Z. Minor damage in the Christchurch area. Felt at Greymouth.
08	19 24 17.3%	60.939 N	151.977 W	84			24	KENAI PENINSULA, ALASKA. <AGS-P>.
08	19 33 16.7	24.340 S	70.626 W	30 *	4.9 4.6	1.2	41	NEAR COAST OF NORTHERN CHILE. Felt (III) at Antofagasta.
08	20 51 47.2	5.971 S	146.570 E	132 *	4.3	1.3	11	EAST PAPUA NEW GUINEA REGION
08	22 41 55.7*	5.308 S	80.909 W	33 N	4.7	1.3	19	NEAR COAST OF NORTHERN PERU
08	23 36 05.4%	44.307 N	7.335 E	10 G		0.4	14	NORTHERN ITALY. ML 2.9 (LDG).
09	01 04 28.3	15.613 S	173.278 W	33 N	4.8	0.8	21	TONGA ISLANDS
09	03 13 40.9	38.155 N	73.964 E	51 *	4.8 4.4	1.1	37	TAJIK-XINJIANG BORDER REGION
09	04 44 46.9	41.999 N	20.390 E	5 G		0.8	7	ALBANIA. ML 2.8 (SKO).
09	05 07 10.0%	62.728 N	151.806 W	112			23	CENTRAL ALASKA. <AGS-P>.
09	05 22 32.3?	41.76 N	143.74 E	71 ?	4.1	0.2	6	HOKKAIDO, JAPAN REGION. Felt (I JMA) at Urakawa.
09	05 32 38.1	37.560 N	118.435 W	5 G		0.6	9	CALIFORNIA-NEVADA BORDER REGION. ML 2.9 (NEIS).
09	06 05 26.4*	24.299 S	70.419 W	39 *	4.8	1.0	18	NEAR COAST OF NORTHERN CHILE. Felt (III) at Antofagasta.
09	06 10 16.0%	61.599 N	151.562 W	84			22	SOUTHERN ALASKA. <AGS-P>.
09	06 32 31.2*	17.979 S	177.986 W	541 *	4.8	0.9	27	FIJI ISLANDS REGION
09	07 49 42.6*	38.498 N	22.605 E	10 G		1.1	7	GREECE. ML 3.0 (ATH).
09	07 53 05.6*	5.838 N	126.151 E	102 ?	4.5	1.4	16	MINDANAO, PHILIPPINE ISLANDS
09	08 47 51.0*	54.561 S	158.594 E	10 G	4.4	1.4	8	MACQUARIE ISLANDS REGION. Felt at Green Gorge, Caroline Cove and Main Base.
09	09 25 28.7	0.561 S	78.797 W	10 G	4.7	1.4	34	ECUADOR
09	10 05 00.7	7.522 N	126.639 E	79	5.1	1.2	108	MINDANAO, PHILIPPINE ISLANDS. Felt (I RF) at Cagayan de Oro.
09	10 19 15.9*	38.401 N	31.743 E	10 G		1.1	13	TURKEY. Felt at Iigin.
09	10 46 45.8	42.303 N	19.981 E	5 G		0.8	8	YUGOSLAVIA. ML 2.5 (TTG).
09	12 06 25.1*	0.930 S	129.931 E	33 N	4.4	1.5	10	HALMAHERA
09	12 33 23.0*	12.173 N	143.474 E	33 N	4.8	1.0	21	SOUTH OF MARIANA ISLANDS
09	13 26 06.9	5.091 N	82.482 W	10 G	5.0 4.3	1.2	71	SOUTH OF PANAMA

09	13 41 25.4	40.076 N	114.360 W	5 G	0.5	9	NEVADA. ML 2.8 (NEIS).
09	14 25 18.8	40.682 N	23.508 E	10 G	0.6	13	GREECE
09	14 30 31.7*	2.955 N	128.260 E	145 * 3.8	0.7	10	HALMAHERA
09	14 33 31.0	42.005 N	21.286 E	10 G	1.0	10	YUGOSLAVIA. ML 2.7 (TTG), 2.6 (SKO).
09	15 42 13.2?	24.22 S	70.56 W	33 N	0.8	5	NEAR COAST OF NORTHERN CHILE
09	16 52 46.5%	46.531 N	2.928 E	10 G	0.7	10	FRANCE. ML 2.2 (LDG).
09	18 50 56.0	38.925 N	25.739 E	14	1.2	23	AEGEAN SEA. ML 3.2 (ATH).
09	19 39 15.5*	53.640 N	166.933 W	10 G 4.3	0.9	13	FOX ISLANDS, ALEUTIAN ISLANDS
09	19 45 18.0	37.555 N	118.893 W	5 G	0.6	7	CALIFORNIA-NEVADA BORDER REGION. ML 2.8 (NEIS).
09	19 50 21.2	39.420 N	20.526 E	33 N 3.7	1.3	32	GREECE-ALBANIA BORDER REGION. ML 3.6 (ATH).
09	20 32 18.7	22.181 N	120.130 E	33 N 4.5 4.5	1.1	33	TAIWAN
09	20 56 21.8	48.315 N	6.757 E	10 G	0.3	7	FRANCE. ML 2.5 (LDG).
09	22 03 47.9	40.678 N	23.458 E	10 G	0.9	10	GREECE
09	23 58 50.4	25.488 S	179.670 E	483 4.9	0.9	97	SOUTH OF FIJI ISLANDS
a 10	00 22 35.9	18.448 S	72.035 W	41 D 5.7 5.6	1.2	225	OFF COAST OF NORTHERN CHILE. Felt (III) at Arica, Chile and (II) at Arequipa, Peru.
10	00 37 44.5	36.474 N	140.688 E	81 5.1	1.0	47	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Mito; (II JMA) at Onahama and Utsunomiya; (I JMA) in the Kofu-Takyo-Maebashi area.
10	00 38 33.3*	38.192 N	22.045 E	10 G	0.5	6	GREECE. ML 3.0 (ATH).
10	00 54 48.6	14.182 N	92.444 W	33 N 4.6	0.8	18	NEAR COAST OF CHIAPAS, MEXICO
10	01 35 28.5	0.187 S	77.948 W	10 G 4.8	1.0	30	ECUADOR
a 10	02 18 09.6	18.341 S	71.976 W	37 D 5.5 3.9	1.1	145	OFF COAST OF NORTHERN CHILE. Felt (II) at Arequipa, Peru.
a 10	03 24 12.6	36.924 N	141.662 E	47 5.2 5.5	0.9	207	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Sendai; (II JMA) at Mariaka, Onahama and Fukushima; (I JMA) at Ishinomaki and in the Mito-Maebashi-Takyo area.
10	03 28 54.1*	36.941 N	141.822 E	46 * 5.1	0.7	24	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Fukushima, Sendai and Utsunomiya.
10	04 00 11.6*	18.204 S	178.120 W	593 * 4.5	0.8	33	FIJI ISLANDS REGION
10	04 02 54.7*	45.973 N	10.809 E	10 G	1.5	7	NORTHERN ITALY. ML 2.9 (KBA).
10	04 22 23.7	25.725 S	178.962 W	367 4.9	1.1	86	SOUTH OF FIJI ISLANDS
10	05 27 36.7*	21.389 S	66.650 W	233 *	1.4	9	SOUTHERN BOLIVIA
10	06 14 37.3*	42.307 N	20.088 E	2 G	1.0	5	YUGOSLAVIA. ML 2.4 (TTG).
10	06 34 01.9%	40.737 N	23.453 E	10 G	0.5	5	GREECE
10	06 38 56.5	0.267 S	77.950 W	10 G 4.7	1.3	31	ECUADOR
10	07 28 13.0	41.858 N	112.758 W	10 G	0.5	7	UTAH. ML 2.9 (NEIS).
10	07 36 03.2*	17.944 S	178.367 W	604 * 4.3	1.0	34	FIJI ISLANDS REGION
10	07 43 47.3	51.656 N	175.211 W	33 N 5.0	1.0	53	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.9 (PMR). Felt (IV) at Adak.
10	07 56 46.0	23.590 S	179.980 W	521 * 4.6	0.9	51	SOUTH OF FIJI ISLANDS
10	08 58 41.3*	16.639 S	177.041 E	33 N 4.4	1.6	24	FIJI ISLANDS. Felt (III) at Yasawa.
10	09 19 54.6*	4.822 N	126.088 E	90 * 4.4	1.4	29	TALAUD ISLANDS
10	11 14 24.5	18.730 S	72.368 W	10 G	1.0	9	OFF COAST OF NORTHERN CHILE
10	11 48 22.7	18.636 S	72.317 W	33 N 4.8	1.2	17	OFF COAST OF NORTHERN CHILE
10	14 29 29.7*	48.349 N	7.609 E	10 G	0.4	6	FRANCE. ML 2.2 (LDG).
10	14 43 21.4%	60.105 N	4.866 E	10 G	0.1	7	SOUTHERN NORWAY. MD 2.3 (BER).
10	14 59 23.4	0.268 S	77.733 W	10 G 4.7	1.0	43	ECUADOR
10	15 01 10.2	60.099 N	4.902 E	10 G	0.3	8	SOUTHERN NORWAY. MD 2.2 (BER).
a 10	16 14 53.2	40.612 N	145.259 E	39 D 5.7 5.2	1.0	324	OFF EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Hachinahe and Miyaka, Honshu, and at Kushiro, Hokkaido; (I JMA) at Ofunata, Mariaka, Amari and Sendai, Honshu and at Nemura and Urakawa, Hokkaido.
10	17 55 54.5	13.564 N	120.894 E	143 4.7	1.0	27	MINDORO, PHILIPPINE ISLANDS
10	17 56 31.0*	40.594 N	145.260 E	33 N 4.8	0.8	35	OFF EAST COAST OF HONSHU, JAPAN
10	18 14 50.5*	31.564 S	178.072 W	21 * 5.3	1.2	13	KERMADEC ISLANDS REGION
a 10	18 24 34.1	40.595 N	145.235 E	38 D 5.7 5.0	1.0	306	OFF EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Miyaka and Hachinahe, Honshu, and at Kushiro, Hokkaido; (I JMA) at Mariaka, Ofunata and Sendai, Honshu and at Urakawa, Hokkaido.
10	18 28 15.1*	21.674 S	172.324 E	33 N 4.0	0.6	8	LOYALTY ISLANDS REGION
10	18 54 56.6*	50.755 N	5.696 E	10 G	0.9	5	BELGIUM
10	19 04 12.7	2.800 N	128.297 E	33 N 4.9	1.1	38	HALMAHERA
10	19 20 12.3*	32.429 S	72.002 W	10 G 4.6	0.5	13	OFF COAST OF CENTRAL CHILE. Felt (III) at Valparaiso.
10	20 20 31.8	41.569 N	20.159 E	10 G	0.7	9	ALBANIA. ML 3.3 (SKO), 2.8 (TTG).
a 10	22 20 33.8	6.093 N	76.623 W	56 5.1	0.9	139	NORTHERN COLOMBIA. Felt at Manizales.
10	23 16 27.5*	46.452 N	12.623 E	10 G	1.2	8	NORTHERN ITALY. ML 2.5 (KBA).
11	00 36 39.7	37.819 N	3.334 W	27	1.5	42	SPAIN. MG 4.2 (MDD). Felt (V) in the Jardar-Larag area, (IV) in the Santo Tome-Larva area and (III) in the Castellar-Jaen area.
11	01 56 06.6	40.120 N	114.311 W	5 G	0.9	9	NEVADA. ML 3.0 (NEIS).
11	01 59 29.3*	32.828 N	46.261 E	54 * 4.4	1.4	13	IRAN-IRAQ BORDER REGION. Felt in the Mehran, Iran area.
11	02 15 02.6	25.066 N	123.113 E	164 D 4.8	1.0	80	NORTHEAST OF TAIWAN. Felt (I JMA) at Ishigaki-shima, Ryukyu Islands.
a 11	02 50 55.1	34.219 S	178.951 E	233 5.3	1.4	81	SOUTH OF KERMADEC ISLANDS
11	03 26 23.6?	35.23 N	25.67 E	10 G	1.2	6	CRETE
11	03 48 43.1?	15.39 S	72.42 W	135 *	0.3	8	SOUTHERN PERU
11	04 49 34.9	18.842 N	146.936 E	46 * 4.8 4.9	1.2	53	MARIANA ISLANDS
11	04 54 55.5	12.616 N	87.803 W	73 4.9	1.3	85	NEAR COAST OF NICARAGUA. Felt in the Managua area. Felt (II) at San Salvador, El Salvador.
11	05 56 15.8%	60.966 N	149.633 W	39	4.0	40	KENAI PENINSULA, ALASKA. <AGS-P>. ML 3.0 (PMR). Felt (II) at Anchorage.
11	06 48 02.3*	21.309 S	70.330 W	33 N	0.4	6	NEAR COAST OF NORTHERN CHILE
11	06 48 48.1?	5.93 S	148.30 E	33 N 3.6	1.4	6	NEW BRITAIN REGION
11	07 49 16.7%	36.593 N	121.228 W	5	1.8	18	CENTRAL CALIFORNIA. <BRK>. ML 3.1 (BRK).
11	08 31 51.9	51.408 N	178.364 W	33 N 4.8	1.2	76	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.4 (PMR).
11	08 51 09.1	15.961 N	145.581 E	174 4.6	0.8	56	MARIANA ISLANDS
11	10 58 22.0%	36.592 N	121.223 W	5	1.5	15	CENTRAL CALIFORNIA. <BRK>. ML 2.7 (BRK).
11	11 59 10.0%	19.200 N	155.467 W	11	4.3	43	HAWAII. <HVO-P>. ML 3.9 (HVO). Felt (IV) at Pahala; (III) at Discovery Harbor Subdivision, Ocean View Estates and Papaloo-kana; (II) at Hilo, Keahou-kana, Kealakukua, Papaikau and Volcano.
11	12 02 36.9	60.392 N	5.401 E	0 G	0.2	6	SOUTHERN NORWAY. MD 1.9 (BER). Probable explosion.

11	12 24 56.1	4.859 S	153.645 E	94	5.3	0.9	98	NEW IRELAND REGION. Felt (III) at Rabaul.
11	13 11 29.4& 39.246	N	111.629 W	1			18	UTAH. <SLC-P>. ML 2.8 (SLC). Felt (IV) at Manti and Sterling. Also felt at Ephraim.
11	13 27 31.9*	3.169 S	134.334 E	33 N	4.6	1.3	11	WEST IRIAN REGION
11	14 34 33.8*	32.068 S	69.732 W	95 ?		1.4	11	MENDOZA PROVINCE, ARGENTINA
11	14 50 49.17	58.35 N	6.32 E	10 G		0.5	8	SOUTHERN NORWAY. MD 2.5 (BER).
11	15 31 02.9& 39.250	N	111.636 W	2			8	UTAH. <SLC-P>. ML 3.0 (NEIS). Felt at Manti.
11	15 59 37.3& 32.990	N	117.740 W	6 G			7	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.1 (PAS).
11	16 18 45.3	5.324 S	147.996 E	35 *	4.8	1.4	32	EAST PAPUA NEW GUINEA REGION. ML 4.8 (PMG).
11	17 02 17.1	6.310 N	125.558 E	45 *	4.7	1.2	31	MINDANAO, PHILIPPINE ISLANDS
o 11	17 04 14.8	24.712 S	88.219 E	10 G	5.1 5.5	1.2	57	SOUTH INDIAN OCEAN
11	17 45 02.0*	41.797 N	140.999 E	142 ?	4.3	0.9	19	HOKKAIDO, JAPAN REGION
11	17 46 03.3	60.700 N	5.495 E	0 G		0.9	8	SOUTHERN NORWAY. MD 2.1 (BER). Probable explosion.
11	18 43 44.8%	45.362 N	6.711 E	10 G		0.2	5	FRANCE. ML 2.5 (LDG).
11	20 27 44.2*	51.029 N	15.872 E	10 G		1.4	5	POLAND
11	20 42 28.3*	40.836 N	22.801 E	10 G		0.1	5	GREECE. ML 1.6 (SKO).
11	20 54 37.3& 59.306	N	153.736 W	108			19	SOUTHERN ALASKA. <AGS-P>.
11	23 04 39.9	4.050 N	127.916 E	72 *	4.8	0.9	26	TALAUD ISLANDS
11	23 14 38.2*	21.211 S	69.077 W	151 *		1.2	9	NORTHERN CHILE
11	23 28 16.5	14.244 N	91.479 W	80	4.6	1.5	51	GUATEMALA. Felt along the Pacific coast of Guatemala and at Guatemala City.
12	01 20 05.3	27.720 N	139.714 E	483 *	4.3	0.8	36	BONIN ISLANDS REGION
12	01 57 17.2	49.939 N	78.823 E	0 G	5.5 3.9	0.8	207	EASTERN KAZAKH SSR
12	01 57 44.6*	15.659 S	172.659 W	33 ?	5.1 5.0	1.0	38	SAMOA ISLANDS REGION
12	02 34 33.9*	35.557 N	23.132 E	76 *		0.8	10	CRETE
12	02 41 07.7*	24.327 S	70.117 W	33 N		1.6	7	NEAR COAST OF NORTHERN CHILE
12	05 34 20.4*	0.993 S	13.696 W	10 G	4.8 4.4	1.1	19	NORTH OF ASCENSION ISLAND
12	05 57 07.0& 36.048	N	120.077 W	8			14	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
o 12	06 07 19.2	18.467 S	72.192 W	35	5.1	1.1	80	OFF COAST OF NORTHERN CHILE
12	06 27 24.2?	26.62 N	68.48 E	33 N	4.2	1.4	10	PAKISTAN
12	06 37 34.2	5.237 S	148.047 E	27 *	4.2	1.4	19	NEW BRITAIN REGION
12	06 57 44.7*	18.818 S	72.246 W	33 N		1.4	9	OFF COAST OF NORTHERN CHILE
12	07 35 45.5	2.735 N	126.726 E	63 *	5.0	1.2	49	MOLUCCA PASSAGE
12	07 58 55.1	17.982 S	69.772 W	135 *	4.8	1.3	26	PERU-BOLIVIA BORDER REGION
12	09 13 37.3*	6.018 N	125.700 E	171 *	4.5	1.3	19	MINDANAO, PHILIPPINE ISLANDS
12	09 31 48.5*	6.033 S	150.138 E	124 *	3.7	0.6	6	NEW BRITAIN REGION
12	10 39 49.2% 60.723	N	5.560 E	10 G		0.4	6	SOUTHERN NORWAY. MD 1.8 (BER).
o 12	11 02 28.2	3.861 S	81.444 W	33 *	5.2	0.9	98	NEAR COAST OF NORTHERN PERU
12	11 59 24.8	9.911 S	119.178 E	33 N	4.5	1.1	29	SUMBA ISLAND REGION
12	12 05 20.4	40.623 N	22.484 E	10 G		1.2	12	GREECE. ML 1.8 (SKO).
o 12	12 18 11.9	15.610 N	94.597 W	40	5.7 5.6	1.1	262	NEAR COAST OF OAXACA, MEXICO. Ms 5.8 (BRK), 5.8 (PAS). Felt at Mexico City and in Chiapas, Guerrero, Oaxaca and Michoacan. Also felt in the San Marcos-Retalhuleu area, Guatemala.
12	13 21 28.1*	53.385 N	167.186 W	10 G	4.5	1.4	15	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.6 (PMR).
o 12	14 56 28.3	5.034 S	151.357 E	149	4.8	1.1	21	NEW BRITAIN REGION
12	15 21 42.5*	29.943 N	69.730 E	33 N	4.0	1.0	12	PAKISTAN
12	16 03 33.2% 47.080	N	7.782 E	10 G		0.1	5	SWITZERLAND
12	16 36 22.1*	29.854 N	69.395 E	33 N	4.1	1.4	8	PAKISTAN
12	18 28 52.5*	39.053 N	27.740 E	10 G		0.7	5	TURKEY
12	20 21 19.4*	28.159 N	142.660 E	33 N	4.7	1.0	17	BONIN ISLANDS REGION
12	21 28 37.9?	36.40 N	28.55 E	10 G		1.5	6	DODECANESE ISLANDS
12	22 48 47.5*	31.333 N	50.856 E	78 *	4.3	1.3	17	IRAN
12	23 07 48.7?	51.37 N	20.21 E	10 G		0.1	5	POLAND. ML 2.6 (KRA). Three people killed and three injured in the Slask Mine at Ruda Slaska.
o 12	23 10 30.7	0.268 S	18.147 W	10 G	5.5 4.8	0.9	167	CENTRAL MID-ATLANTIC RIDGE
12	23 17 41.5*	8.267 N	83.131 W	10 G		0.4	11	COSTA RICA. MD 4.1 (HDC). Felt at Laurel.
12	23 18 15.1?	36.10 N	28.56 E	28 *		1.2	8	DODECANESE ISLANDS
13	00 06 42.2*	51.167 N	179.090 E	33 N	4.6	0.8	19	RAT ISLANDS, ALEUTIAN ISLANDS
13	00 31 30.4?	42.60 N	1.28 E	10 G		1.8	5	PYRENEES. ML 2.7 (LDG).
13	00 31 42.9*	6.443 S	147.996 E	66 *	3.7	1.2	8	EAST PAPUA NEW GUINEA REGION
13	00 53 10.3?	39.32 N	20.55 E	10 G		1.5	5	GREECE-ALBANIA BORDER REGION
13	02 04 51.3*	41.763 S	171.976 E	33 N	4.8	1.3	10	SOUTH ISLAND, NEW ZEALAND. Felt at Greymouth, Westport and Christchurch.
13	02 24 25.5	40.690 N	23.521 E	10 G		0.4	7	GREECE
13	03 34 59.7	48.211 N	7.959 E	10 G		1.3	13	FRANCE. ML 2.5 (LDG).
13	03 39 38.6	40.687 N	23.512 E	10 G		0.4	8	GREECE
o 13	05 03 35.4*	23.368 S	177.587 W	94 ?	4.8	1.1	38	SOUTH OF FIJI ISLANDS
13	05 24 32.0*	23.271 S	177.635 W	63 ?	4.8	1.4	22	SOUTH OF FIJI ISLANDS
13	06 06 56.6?	61.68 N	6.60 E	0 G		0.5	6	SOUTHERN NORWAY. MD 2.0 (BER). Probable explosion.
o 13	06 19 13.4*	23.484 S	177.520 W	80 ?	4.9	1.1	35	SOUTH OF FIJI ISLANDS
13	06 28 10.6*	23.754 S	177.420 W	56 ?	5.1	1.2	29	SOUTH OF FIJI ISLANDS
o 13	06 32 00.7?	31.84 S	177.55 W	33 N	4.9 5.7	1.3	27	KERMADEC ISLANDS REGION
13	06 39 49.4	40.698 N	23.544 E	10 G		0.7	15	GREECE
13	06 51 50.5	40.709 N	23.519 E	10 G		0.5	8	GREECE
o 13	06 56 32.8	12.301 N	87.432 W	60	5.1	1.2	172	NEAR COAST OF NICARAGUA
13	07 11 47.5?	24.84 S	176.73 W	33 N	4.7	0.7	9	SOUTH OF FIJI ISLANDS
13	07 22 18.5?	23.90 S	177.23 W	33 N	4.6	1.5	11	SOUTH OF FIJI ISLANDS
13	07 27 00.5	8.331 N	83.103 W	27	4.5	1.3	29	COSTA RICA. MD 4.8 (HDC).
o 13	07 40 20.1	23.771 S	177.301 W	50 *	5.2 5.3	0.9	49	SOUTH OF FIJI ISLANDS
13	07 57 35.9*	8.010 N	82.952 W	9	4.2	0.7	21	PANAMA-COSTA RICA BORDER REGION. MD 4.2 (HDC).
13	08 14 46.8	40.664 N	23.450 E	10 G		1.1	14	GREECE
o 13	08 21 49.0	23.778 S	177.325 W	32	5.8 6.0	1.2	207	SOUTH OF FIJI ISLANDS
13	08 24 00.2& 59.860	N	152.516 W	70			38	SOUTHERN ALASKA. <AGS-P>.
13	08 35 50.6*	23.654 S	177.247 W	33 N	4.8	1.2	14	SOUTH OF FIJI ISLANDS
13	08 40 11.8?	30.22 S	71.09 W	33 N		1.4	13	NEAR COAST OF CENTRAL CHILE
13	09 28 15.4	1.840 N	126.996 E	67 *	5.0	1.2	83	MOLUCCA PASSAGE
13	09 36 07.2*	14.439 N	91.279 W	88	4.4	1.2	30	GUATEMALA
13	09 49 22.4*	22.916 S	177.990 W	152 D	4.7	1.0	18	SOUTH OF FIJI ISLANDS
o 13	10 28 13.7	15.624 S	74.276 W	66	5.3	1.2	100	NEAR COAST OF PERU. Felt (V) at Chala and Agua Salada and (II) at Nazca.
13	11 05 26.3*	50.649 N	5.365 E	10 G		0.8	5	BELGIUM
13	11 18 38.3*	54.217 N	165.105 W	33 N	4.5	1.3	12	FOX ISLANDS, ALEUTIAN ISLANDS

13	11 48 36.3	41.339 N	23.937 E	10 G		1.4	16	GREECE-BULGARIA BORDER REGION
13	11 52 39.4	46.621 N	7.506 E	10 G		0.9	6	SWITZERLAND
13	13 03 57.1*	23.884 S	177.414 W	33 N	5.0 4.3	1.1	21	SOUTH OF FIJI ISLANDS
13	13 58 02.3*	37.435 N	23.340 E	56 *	3.6	1.3	16	SOUTHERN GREECE
13	15 08 00.8&	38.803 N	122.818 W	5 G			22	NORTHERN CALIFORNIA. <BRK>. ML 3.5 (BRK). Mo=4.4*10**14 Nm (BRK).
13	16 05 14.1&	57.756 N	138.886 W	33			13	OFF COAST OF SOUTHEASTERN ALASKA. <AGS-P>.
13	17 05 04.5&	59.615 N	152.983 W	97			41	SOUTHERN ALASKA. <AGS-P>.
13	17 54 37.4*	53.214 N	167.203 W	10 G	4.6	1.2	29	FOX ISLANDS, ALEUTIAN ISLANDS
13	18 48 32.7&	61.421 N	149.897 W	58			40	SOUTHERN ALASKA. <AGS-P>. Felt (II) at Anchorage, Eagle River and Palmer.
13	18 49 18.2?	23.01 S	178.80 W	78 ?	4.7	1.1	20	SOUTH OF FIJI ISLANDS
13	19 09 22.0*	22.368 S	177.521 W	275 ?	5.0	1.0	22	SOUTH OF FIJI ISLANDS
13	19 50 19.0	51.502 N	176.315 W	33 N	4.8	1.0	31	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.5 (PMR). Felt (I) on Adok.
13	19 55 39.9*	4.813 N	82.785 W	10 G	4.5 3.9	1.1	15	SOUTH OF PANAMA
14	02 02 22.5?	41.90 N	20.16 E	10 G		0.8	8	ALBANIA. ML 3.4 (TTG).
14	02 21 29.1*	24.175 S	70.513 W	67 *	4.8	1.6	15	NEAR COAST OF NORTHERN CHILE
14	02 42 51.1*	5.623 N	78.157 W	10 G	4.2 3.5	1.4	10	SOUTH OF PANAMA
14	03 00 53.8	40.658 N	23.477 E	10 G		1.2	15	GREECE
14	03 48 58.8*	16.310 N	120.483 E	25	4.3	1.3	17	LUZON, PHILIPPINE ISLANDS
o 14	04 25 58.1	10.693 N	138.954 E	20 *	5.3 4.2	0.9	65	WEST CAROLINE ISLANDS
14	04 43 03.5&	34.790 N	96.331 W	5 G			6	OKLAHOMA. <TUL>. mbLg 2.8 (TUL).
14	05 21 11.5	0.223 S	132.551 E	68 *	5.1	1.4	60	WEST IRIAN REGION
o 14	05 35 58.9	13.157 N	143.822 E	147	5.2	1.0	126	SOUTH OF MARIANA ISLANDS
o 14	06 10 04.9	23.520 S	177.467 W	40 *	5.3 5.4	1.1	89	SOUTH OF FIJI ISLANDS
14	09 23 58.6	51.598 N	173.444 W	33 N	5.1 4.4	1.0	146	ANDREANOF ISLANDS, ALEUTIAN IS.
14	13 12 07.4*	53.246 N	166.990 W	10 G	4.0	1.0	15	FOX ISLANDS, ALEUTIAN ISLANDS
14	13 41 57.2	41.744 N	27.306 E	10 G		0.6	8	TURKEY
14	13 50 09.7?	35.62 N	20.60 E	10 G		1.6	5	MEDITERRANEAN SEA. ML 4.0 (ATH).
14	14 11 57.0?	5.58 S	148.03 E	33 N	3.2	1.1	6	NEW BRITAIN REGION
14	14 42 45.4	43.105 N	25.653 E	10 G		1.4	9	BULGARIA
14	14 43 40.3*	2.174 N	128.112 E	154 ?	4.5	0.5	12	HALMAHERA
14	16 11 51.4?	32.86 S	179.16 W	33 N	4.8	1.4	11	SOUTH OF KERMADEC ISLANDS
o 14	20 18 37.6	38.897 S	92.203 W	10 G	5.4 5.6	1.2	85	WEST CHILE RISE
14	20 46 50.8*	38.212 N	21.799 E	56 ?	3.5	1.4	8	GREECE
14	21 09 32.8*	38.742 N	28.115 E	10 G		0.6	5	TURKEY
14	21 33 14.1	44.182 N	12.160 E	19		1.3	29	NORTHERN ITALY. ML 3.4 (KBA), 3.3 (LDG). MD 2.9 (TRI).
14	21 42 56.7*	53.127 N	167.121 W	10 G	4.3	1.4	19	FOX ISLANDS, ALEUTIAN ISLANDS
14	22 31 20.5	21.458 S	66.634 W	224	4.4	1.1	24	SOUTHERN BOLIVIA
14	23 14 55.6*	24.019 N	122.331 E	37 ?	4.4	1.5	18	TAIWAN REGION
15	02 02 14.9	41.567 N	20.482 E	10 G	3.4	1.4	20	ALBANIA
15	02 23 19.5*	15.713 S	174.360 W	33 N	4.7	0.7	13	TONGA ISLANDS
15	03 57 08.6	39.306 N	23.794 E	10 G		1.0	8	AEGEAN SEA. ML 3.0 (ATH).
15	05 06 53.2	24.945 N	127.096 E	23 *	4.9 5.5	0.9	45	RYUKYU ISLANDS REGION
15	05 08 59.9*	20.195 S	68.915 W	156 *		1.5	15	CHILE-BOLIVIA BORDER REGION
o 15	05 11 17.0	15.609 N	94.581 W	40	5.6 5.5	1.1	246	NEAR COAST OF OAXACA, MEXICO. Felt in the Oaxaca-Solino Cruz area.
15	05 17 27.0?	15.49 N	94.64 W	33 N	4.9	0.8	32	NEAR COAST OF OAXACA, MEXICO
15	06 02 51.2?	40.304 N	27.668 E	10 G		0.4	6	TURKEY
o 15	06 03 02.2	24.285 S	70.557 W	24 *	5.0 5.2	1.3	57	NEAR COAST OF NORTHERN CHILE. Minor damage in the epicentral area. Felt (III) at Antofagasta.
15	06 17 51.0*	23.925 S	70.379 W	48 *	4.9	1.5	42	NEAR COAST OF NORTHERN CHILE. Felt (II) at Antofagasta.
15	06 46 29.9%	44.133 N	6.924 E	10 G		0.8	5	FRANCE. ML 2.1 (LDG).
15	07 40 11.4	18.764 N	146.923 E	58 *	4.7 4.6	1.0	59	MARIANA ISLANDS
15	08 06 26.6	18.818 N	147.005 E	43 *	4.8 4.6	1.0	51	MARIANA ISLANDS REGION
15	08 17 31.4	18.890 N	147.003 E	33 N	4.7 4.5	0.9	54	MARIANA ISLANDS REGION
15	08 57 23.3*	0.561 N	126.367 E	33 N	4.5	1.6	11	MOLUCCA PASSAGE
15	09 02 06.9%	39.601 N	29.434 E	10 G		0.6	5	TURKEY
15	09 30 02.7?	15.33 N	94.99 W	33 N	4.0	1.3	10	NEAR COAST OF OAXACA, MEXICO
15	09 44 23.2&	61.708 N	150.613 W	64			20	SOUTHERN ALASKA. <AGS-P>.
15	09 50 28.6	46.422 N	14.872 E	10 G		0.9	11	YUGOSLAVIA. ML 2.9 (VKA), MD 2.5 (TRI).
o 15	11 35 24.5	18.766 N	146.949 E	52 *	5.3	0.9	114	MARIANA ISLANDS
15	11 56 12.6*	18.880 N	146.832 E	39 ?	4.9 5.2	1.2	35	MARIANA ISLANDS
15	12 15 33.0*	47.902 N	7.288 E	10 G		0.6	6	SWITZERLAND. ML 2.3 (LDG).
15	12 16 46.2*	18.848 N	146.914 E	50 ?	4.4	0.9	16	MARIANA ISLANDS
15	12 39 22.4*	24.023 S	67.090 W	206 *	4.8	0.7	8	CHILE-ARGENTINA BORDER REGION
15	13 13 34.4?	27.23 N	111.88 W	10 G	3.6	1.5	10	GULF OF CALIFORNIA
15	13 45 09.2&	59.983 N	153.474 W	132			21	SOUTHERN ALASKA. <AGS-P>.
15	15 33 53.9	40.676 N	23.377 E	10 G		1.1	18	GREECE
o 15	16 14 46.2	10.365 S	91.617 E	10 G	5.6 4.8	1.0	227	SOUTH INDIAN OCEAN
15	16 43 18.2&	63.132 N	150.942 W	118			18	CENTRAL ALASKA. <AGS-P>.
15	17 44 07.2&	32.580 N	118.010 W	6 G			7	OFF COAST OF CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
15	17 47 18.0%	45.579 N	3.369 E	8		1.5	16	FRANCE. ML 2.9 (LDG).
15	19 00 01.8	18.662 N	146.362 E	82 *	4.6	1.0	34	MARIANA ISLANDS
15	19 08 22.5*	18.810 N	146.303 E	52 ?	4.6	0.9	15	MARIANA ISLANDS
15	19 25 38.6*	31.355 N	113.006 W	5 G	4.4	1.0	6	GULF OF CALIFORNIA
15	19 41 39.7?	58.49 S	25.02 W	33 N	4.5	1.3	10	SOUTH SANDWICH ISLANDS REGION
o 15	21 42 17.1	5.314 S	151.488 E	63	5.7	0.9	225	NEW BRITAIN REGION. Felt (III) at Rabaul.
16	00 13 43.6%	44.465 N	7.274 E	10 G		0.1	5	NORTHERN ITALY. ML 2.2 (LDG).
16	00 28 23.4*	23.917 S	70.334 W	33 N		1.4	5	NEAR COAST OF NORTHERN CHILE
16	01 07 59.8%	44.788 N	7.662 E	10 G		0.7	10	NORTHERN ITALY. ML 2.7 (LDG).
16	01 45 51.0?	9.52 S	125.23 E	33 N	4.4	1.6	12	TIMOR
16	02 34 17.6%	45.078 N	6.722 E	10 G		0.3	10	FRANCE. ML 2.8 (LDG).
16	03 46 14.7	40.574 N	145.320 E	37 D	5.3 5.0	0.8	164	OFF EAST COAST OF HONSHU, JAPAN
o 16	03 50 16.4	16.337 S	172.627 W	33 N	5.0 4.8	1.3	64	SAMOA ISLANDS REGION
16	04 21 33.1%	45.974 N	3.196 E	11		0.3	9	FRANCE. ML 1.9 (LDG).
16	04 32 22.2*	23.724 S	176.043 W	33 N	4.9	0.9	17	SOUTH OF FIJI ISLANDS
16	07 31 49.7*	0.100 S	77.776 W	10 G	4.3	1.4	20	ECUADOR. La Merced cathedral at Ibarra collapsed. It had been damaged by the main shock.
16	08 55 31.2*	7.009 S	145.694 E	33 N	3.3	0.2	5	NEAR S COAST OF PAPUA NEW GUINEA
16	09 50 02.6	60.574 N	4.707 E	0 G		0.7	7	SOUTHERN NORWAY. MD 1.6 (BER). Probable explosion.
16	10 28 58.3	39.288 N	72.982 E	58 ?	4.5	1.3	24	KIRGHIZ SSR

a	16	12 21 39.0	6.441 S	147.652 E	24	5.8 5.5	1.3	118	EAST PAPUA NEW GUINEA REGION. ML 5.8 (PMG).
a	16	12 33 35.8	6.414 S	147.645 E	29	5.5 5.5	1.3	114	EAST PAPUA NEW GUINEA REGION. ML 5.8 (PMG).
	16	13 28 08.2	18.817 N	146.895 E	46 *	4.7	0.9	35	MARIANA ISLANDS
a	16	14 35 45.6	14.604 S	167.249 E	189 *	5.0	1.0	117	VANUATU ISLANDS
	16	15 27 59.1	6.544 S	147.705 E	47	5.2	1.3	32	EAST PAPUA NEW GUINEA REGION
	16	15 43 01.9*	61.180 N	5.055 E	10 G		1.4	8	SOUTHERN NORWAY. MD 2.4 (BER).
a	16	15 49 36.9	6.446 S	147.603 E	26	5.7 6.1	1.4	184	EAST PAPUA NEW GUINEA REGION. ML 5.8 (PMG).
a	16	16 39 56.2	10.900 S	165.942 E	57	5.4	0.9	133	SANTA CRUZ ISLANDS
	16	16 51 05.9	39.649 N	118.227 W	5 G		0.5	8	NEVADA. ML 3.5 (NEIS).
a	16	17 20 44.6	53.355 N	167.248 W	10 G	5.1 5.0	1.2	102	FOX ISLANDS, ALEUTIAN ISLANDS
	16	17 59 24.5*	53.627 N	167.566 W	10 G	4.4	1.4	11	FOX ISLANDS, ALEUTIAN ISLANDS
	16	18 58 30.0	36.181 N	120.111 W	5 G		0.9	7	CENTRAL CALIFORNIA. ML 2.8 (NEIS).
	16	19 00 11.6*	22.194 S	169.471 E	33 N	4.9	1.5	17	LOYALTY ISLANDS REGION
	16	19 13 01.6	46.149 N	8.262 E	10 G		0.9	6	SWITZERLAND
	16	20 48 31.1*	48.315 N	7.616 E	10 G		0.5	5	FRANCE. ML 2.0 (LDG).
	16	20 59 34.1*	17.015 S	173.530 W	33 N	4.8	1.3	24	TONGA ISLANDS
	16	21 11 19.9*	0.538 N	126.349 E	30 *	4.8	1.4	20	MOLUCCA PASSAGE
	16	21 29 49.5*	33.002 S	72.243 W	33 N		0.9	13	OFF COAST OF CENTRAL CHILE. Felt (V) in the Valparaisa-Vina del Mar area.
	16	22 19 46.4*	6.639 S	147.746 E	13	4.8	1.6	14	EAST PAPUA NEW GUINEA REGION. ML 4.6 (PMG).
	16	23 36 33.1&	59.040 N	154.022 W	109			42	SOUTHERN ALASKA. <AGS-P>. Felt (II) at Iliamna.
	17	01 12 09.6&	61.374 N	150.671 W	59			19	SOUTHERN ALASKA. <AGS-P>.
	17	01 44 59.7	43.928 N	138.170 E	261 *	4.3	0.9	52	EASTERN SEA OF JAPAN
	17	03 05 07.6	48.254 N	8.931 E	10 G		1.0	50	GERMANY. ML 4.2 (FUR), 4.1 (KBA), 3.9 (LDG), 3.5 (GRF). Minor damage to two buildings in the epicentral area.
	17	03 29 12.1*	24.688 S	70.388 W	33 N		1.4	8	NEAR COAST OF NORTHERN CHILE
	17	08 18 19.2*	40.691 N	23.492 E	10 G		0.3	7	GREECE
	17	08 25 55.5*	40.694 N	23.490 E	10 G		0.2	6	GREECE
	17	08 50 43.1	24.019 S	66.765 W	205	4.2	0.9	17	SALTA PROVINCE, ARGENTINA
	17	10 37 37.5*	51.18 N	16.06 E	10 G		1.0	6	POLAND. ML 3.1 (KBA).
	17	11 12 26.6&	61.589 N	150.667 W	58	3.8		55	SOUTHERN ALASKA. <AGS-P>.
	17	13 12 10.0&	19.200 N	155.467 W	11			47	HAWAII. <HVO-P>. ML 3.5 (HVO). Felt (IV) at Pahala.
	17	14 28 32.8*	12.115 N	87.753 W	155 *	4.5	1.1	55	NEAR COAST OF NICARAGUA
	17	15 31 51.7*	21.27 S	179.27 W	559 *	4.9	1.3	15	FIJI ISLANDS REGION
	17	16 10 07.6	6.902 S	147.575 E	42 *	4.1	1.4	18	EAST PAPUA NEW GUINEA REGION
	17	16 34 53.0	48.275 N	121.716 W	5 G		0.8	7	WASHINGTON. ML 2.9 (NEIS). Felt at Darrington.
	17	16 36 26.1*	44.305 N	11.865 E	10 G		0.4	11	NORTHERN ITALY
	17	17 28 56.0*	40.559 N	29.994 E	10 G		0.8	6	TURKEY
	17	18 09 44.1	41.955 N	20.446 E	10 G		1.2	12	ALBANIA. ML 3.5 (SKO), MD 3.1 (TTG).
	17	18 18 16.9	60.562 N	5.001 E	10 G		0.1	7	SOUTHERN NORWAY. ML 1.8 (BER).
	17	19 33 55.3*	47.725 N	7.133 E	10 G		0.7	6	SWITZERLAND. ML 2.4 (LDG).
	17	21 31 02.2	9.328 S	123.501 E	33 N	4.9	1.5	36	TIMOR
	17	23 22 44.8	27.678 S	67.499 W	168 *		1.0	11	CATAMARCA PROVINCE, ARGENTINA
	17	23 46 18.5*	8.84 S	116.95 E	33 N	4.1	1.2	9	SUMBAWA ISLAND REGION
	18	00 00 42.9	42.581 N	111.299 W	5 G	3.9	0.9	25	EASTERN IDAHO. ML 4.3 (NEIS), 4.3 (SLC). Felt (IV) at Dingle, (III) at Georgetown, Soda Springs and Wayan. Also felt (III) at Auburn, Wyoming.
a	18	00 22 49.1	2.114 N	126.571 E	30	5.8 5.5	1.2	226	MOLUCCA PASSAGE. Felt at Manado, Sulawesi.
f	18	03 36 30.3	32.034 N	131.837 E	54 D	6.4	1.2	534	KYUSHU, JAPAN. Ms 6.7 (BRK), 6.6 (PAS). One person killed; also one person died from a heart attack and five people were injured. Damage (V JMA) and landslides in the Miyazaki area. Felt (IV JMA) in the Kumamoto-Nobeoka-Oita-Saga area; (III JMA) in the Fukuoka-Kagoshima area and on southwestern Shikoku. Felt (I JMA) from Naze, Ryukyu Islands to Mito, Honshu. Seven cm. tsunami recorded along the coast of Kyushu.
	18	03 58 13.1	31.998 N	131.943 E	49	4.8	1.1	51	KYUSHU, JAPAN. Felt (II JMA) at Miyazaki and Nobeoka; (I JMA) at Kagoshima and Kumamoto.
	18	04 34 36.4	46.154 N	8.275 E	11		1.4	15	SWITZERLAND. ML 2.8 (LDG).
	18	05 00 18.5	32.026 N	131.924 E	48 D	4.9	1.3	68	KYUSHU, JAPAN. Felt (III JMA) at Nobeoka, (II JMA) at Miyazaki and (I JMA) at Oita and Kumamoto.
	18	05 50 11.4	27.359 N	129.446 E	30	5.0	1.1	75	RYUKYU ISLANDS. Felt (I JMA) at Naze.
	18	06 28 30.3*	15.429 S	172.823 W	33 N	4.9	1.1	23	SAMOA ISLANDS REGION
	18	07 37 02.5*	47.718 N	7.126 E	10 G		0.5	6	SWITZERLAND. ML 2.7 (LDG).
	18	08 02 20.6	26.452 N	142.359 E	33 N	5.0	0.7	39	BONIN ISLANDS REGION
	18	08 31 16.6*	66.10 N	149.06 W	10 G		0.7	4	ALASKA. ML 3.3 (PMR).
	18	08 50 55.5*	13.87 S	74.84 W	33 N		1.5	6	PERU
a	18	08 52 48.4	30.188 S	177.612 W	28 *	5.3 5.0	1.4	101	KERMADEC ISLANDS
	18	13 12 11.5*	6.665 S	147.680 E	24 *	4.5	1.2	25	EAST PAPUA NEW GUINEA REGION. ML 4.9 (PMG).
	18	16 20 59.4*	39.693 N	28.665 E	10 G		1.5	6	TURKEY
	18	16 59 48.3&	36.183 N	120.348 W	11			12	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK), 3.1 (PAS).
	18	17 39 59.1	40.467 N	20.818 E	10 G		1.0	14	GREECE-ALBANIA BORDER REGION
	18	17 55 45.6	45.617 N	26.633 E	118	4.6	1.0	69	ROMANIA. Felt (IV) in the epicentral area and (III) at Bucharest.
	18	18 02 20.6	13.220 N	89.127 W	58 D	4.5	1.3	42	EL SALVADOR. Felt (III) in the San Salvador area.
	18	18 03 00.8*	18.06 S	177.08 W	108 ?	4.7	1.3	14	FIJI ISLANDS REGION
	18	18 14 20.9*	43.83 N	7.85 E	10 G		0.7	5	NEAR SOUTH COAST OF FRANCE. ML 2.6 (LDG).
	18	18 17 56.4	36.579 N	121.218 W	5 G		0.4	8	CENTRAL CALIFORNIA. ML 1.9 (BRK).
	18	18 28 00.0&	37.210 N	116.209 W	0	4.3		39	SOUTHERN NEVADA. <DOE>. Tunnel Shot. ML 4.4 (BRK). 37' 12" 36.86" N., 116' 12" 30.84" W., Surface Elev. 2250 m., Depth of Burial 400 m., Shot Time 182800.085, "MIDDLE NOTE", Nevada Test Site (Dept. of Energy).
	18	20 30 44.0*	40.295 N	29.574 E	10 G		0.7	7	TURKEY
	18	20 48 36.3*	44.417 N	6.905 E	10 G		0.1	5	FRANCE. ML 2.4 (LDG).
	18	21 22 20.0*	6.58 S	147.34 E	33 N	4.0	1.5	6	EAST PAPUA NEW GUINEA REGION
	18	21 29 22.7	5.857 S	146.260 E	33 N	5.0	1.2	53	EAST PAPUA NEW GUINEA REGION
	18	21 34 14.6*	50.508 N	19.031 E	10 G		1.3	6	POLAND. ML 3.3 (KBA), 3.2 (KRA), 3.0 (VKA).
	19	00 30 11.1	38.622 N	25.890 E	9		0.9	35	AEGEAN SEA. ML 3.6 (ATH).
	19	01 00 12.0*	40.650 N	23.475 E	10 G		0.7	6	GREECE
a	19	01 28 52.1	6.775 N	76.506 W	10 G	5.7 4.2	1.3	222	NORTHERN COLOMBIA. Felt at Medellin and Quibdo.
	19	01 34 55.9*	51.646 N	16.627 E	10 G		1.2	9	POLAND. ML 3.2 (VKA), 2.9 (KBA).
	19	01 45 03.2*	6.14 S	11.44 W	10 G	4.8 4.9	0.7	9	ASCENSION ISLAND REGION
	19	03 17 18.2*	44.056 N	12.117 E	10 G		0.3	10	NORTHERN ITALY. ML 2.9 (KBA).

19	04 02 53.0	6.928 N	76.162 W	65 *	4.7	1.2	47	NORTHERN COLOMBIA
19	04 39 19.6*	18.618 N	178.310 W	476	4.5	0.9	18	FIJI ISLANDS REGION
19	06 51 46.3*	5.846 N	127.308 E	83 *	4.4	1.3	25	PHILIPPINE ISLANDS REGION
19	07 13 35.8*	24.127 N	122.211 E	35 *	4.4	1.4	27	TAIWAN REGION
19	07 18 11.7	51.228 N	161.013 E	33 N	4.7 4.6	0.8	40	OFF EAST COAST OF KAMCHATKA
19	07 30 54.9	38.898 N	25.016 E	13		1.2	25	AEGEAN SEA. ML 3.5 (ATH).
19	07 35 56.3	6.965 N	76.343 W	32	5.0 3.9	1.2	92	NORTHERN COLOMBIA
19	08 05 02.5	41.451 N	22.357 E	10 G		0.7	14	YUGOSLAVIA. ML 2.5 (SKO).
19	08 31 40.0	0.697 N	126.227 E	38 *	5.0	1.2	43	MOLUCCA PASSAGE
19	08 42 51.2*	60.378 N	148.692 W	40			25	KENAI PENINSULA, ALASKA. <AGS-P>.
19	09 53 00.0	6.974 N	76.407 W	28	5.1 3.5	1.1	105	NORTHERN COLOMBIA
19	10 15 33.8%	40.454 N	23.079 E	10 G		0.4	6	GREECE
19	12 06 13.3*	59.565 N	152.945 W	94			30	SOUTHERN ALASKA. <AGS-P>.
19	14 08 18.1*	32.990 N	117.740 W	6 G			10	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.2 (PAS).
a	14 32 15.6	23.664 N	64.688 E	10 G	5.1 4.2	1.1	97	NEAR COAST OF PAKISTAN
19	15 13 38.7*	38.634 N	25.807 E	10 G		0.7	6	AEGEAN SEA
19	15 20 05.2*	23.672 N	64.674 E	10 G	4.3	1.0	10	NEAR COAST OF PAKISTAN
19	15 28 44.5	51.606 N	16.389 E	10 G		0.6	12	POLAND. ML 3.6 (KBA), 3.5 (GRF).
19	15 59 29.7*	13.354 N	121.205 E	14 *	4.3	0.8	9	MINDORO, PHILIPPINE ISLANDS
19	16 17 22.4?	26.74 S	177.69 W	33 N	4.9 4.9	1.2	12	SOUTH OF FIJI ISLANDS
a	17 14 41.2	14.898 S	167.225 E	150	5.5	1.0	180	VANUATU ISLANDS
19	17 58 14.5	32.074 N	131.970 E	61	4.6	1.1	37	KYUSHU, JAPAN. Felt (I JMA) at Nabeoka and Miyazaki.
19	19 34 15.2*	39.421 S	78.108 E	10 G	4.7	0.4	11	MID-INDIAN RISE
19	20 29 16.0*	38.061 N	27.111 E	10 G		0.5	6	TURKEY
a	21 27 50.1	29.229 N	137.907 E	537	5.3	0.9	259	SOUTH OF HONSHU, JAPAN
f	22 51 39.2	20.397 S	176.134 W	214 G	5.9	1.1	405	FIJI ISLANDS REGION. mb 5.5 (BRK). Depth from broadband displacement seismograms.
19	23 29 38.7?	40.87 N	30.16 E	10 G		0.7	6	TURKEY
20	00 55 11.6?	15.88 S	179.90 E	22 *		0.5	8	FIJI ISLANDS
20	01 28 03.4	41.618 N	20.518 E	10 G	3.5	1.4	58	ALBANIA. MD 3.9 (TTG). Felt (V) in the Navrava area, Yugoslavia.
20	01 58 18.2*	13.336 N	121.206 E	19 *	4.9	1.5	16	MINDORO, PHILIPPINE ISLANDS. Felt (I RF) at Puerto Galera.
20	02 36 33.0*	55.689 S	27.472 W	33 N	5.1 4.1	1.0	19	SOUTH SANDWICH ISLANDS REGION
20	02 47 58.6?	11.09 N	85.72 W	150 G		0.4	8	NICARAGUA. MD 4.3 (HDC).
20	03 28 32.5?	41.49 N	20.70 E	10 G		1.8	5	ALBANIA. MG 3.1 (SKO).
20	05 29 00.0	36.129 N	70.758 E	123 *	4.6	1.3	38	HINDU KUSH REGION
20	06 16 46.3*	41.104 N	23.585 E	10 G		1.2	8	GREECE-BULGARIA BORDER REGION
20	06 33 27.7*	34.914 N	34.118 E	33 N		0.9	7	CYPRUS. ML 3.6 (BHL).
20	08 29 25.3*	5.826 S	151.635 E	33 N	4.1	1.4	9	NEW BRITAIN REGION
20	08 36 12.7*	38.817 N	122.855 W	4 G			10	NORTHERN CALIFORNIA. <BRK>. ML 3.0 (BRK).
20	08 41 37.8*	68.337 N	17.803 W	10 G	4.5 4.2	1.4	28	ICELAND REGION
20	09 15 30.3*	3.964 N	76.243 W	126 *	4.0	1.2	8	COLOMBIA
20	09 28 10.1	3.423 N	126.454 E	51 ?	4.7	1.0	12	TALAUD ISLANDS
20	09 46 30.1*	7.214 S	129.768 E	117 ?	4.7	1.3	10	BANDA SEA
20	10 14 26.9*	6.984 N	76.450 W	33 N		1.3	6	NORTHERN COLOMBIA
20	11 15 16.8*	26.483 N	56.758 E	43 *	4.6	1.0	18	SOUTHERN IRAN
20	12 53 29.6*	23.509 S	174.709 W	33 N	5.1 4.1	1.2	46	TONGA ISLANDS REGION
20	13 03 02.3	7.410 N	123.715 E	607	4.5	0.8	34	MINDANAO, PHILIPPINE ISLANDS
20	13 10 50.1*	58.902 N	152.740 W	73			19	KODIAK ISLAND REGION. <AGS-P>.
20	13 57 31.3	18.731 N	121.063 E	53 *	4.4	1.2	30	LUZON, PHILIPPINE ISLANDS. Felt (III RF) at Pasuquin.
20	14 33 20.7	6.806 N	72.981 W	165	4.3	1.2	35	NORTHERN COLOMBIA
20	15 14 40.9%	46.256 N	8.647 E	10 G		1.1	6	SWITZERLAND
20	15 45 10.9*	38.423 N	119.448 W	9			22	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.8 (BRK).
20	17 05 58.0*	5.922 S	151.753 E	33 N	3.9	1.2	8	NEW BRITAIN REGION
20	19 13 44.7	41.630 N	20.699 E	10 G		1.0	7	ALBANIA. ML 3.2 (SKO), 2.8 (TTG).
20	23 00 24.4	38.257 N	114.416 E	30 *	4.3	1.5	18	NORTHEASTERN CHINA
20	23 20 11.8%	37.780 N	25.441 W	10 G		1.0	7	AZORES ISLANDS
20	23 31 13.3*	61.913 N	150.969 W	82			30	SOUTHERN ALASKA. <AGS-P>.
20	23 57 33.7?	16.79 N	101.47 W	33 N	3.8	1.3	7	NEAR COAST OF GUERRERO, MEXICO
21	01 04 01.1?	3.04 S	148.94 E	33 N	4.4 3.5	1.5	5	BISMARCK SEA
21	01 06 57.2%	37.755 N	25.459 W	10 G		0.5	6	AZORES ISLANDS
21	01 34 57.7%	37.721 N	25.430 W	10 G		0.3	5	AZORES ISLANDS
21	03 01 20.8	45.694 N	26.710 E	169	4.7	1.3	39	ROMANIA
21	04 05 37.7	53.059 N	35.158 W	10 G	4.9 4.4	1.0	91	NORTH ATLANTIC OCEAN
21	04 07 53.0	53.156 N	35.088 W	10 G	4.4	0.9	32	NORTH ATLANTIC OCEAN
21	04 14 30.5*	53.035 N	35.111 W	10 G	4.2	1.1	20	NORTH ATLANTIC OCEAN
21	04 54 10.8*	47.550 N	12.872 E	10 G		0.5	5	AUSTRIA. ML 1.8 (KBA).
21	06 27 22.1*	43.212 N	26.119 E	10 G		1.5	8	BULGARIA
21	07 13 52.8	3.681 S	149.299 E	11	4.8 4.5	1.0	23	BISMARCK SEA
21	07 20 03.2*	31.517 S	69.968 W	154 ?		0.3	13	SAN JUAN PROVINCE, ARGENTINA
21	08 12 20.7*	61.605 N	149.674 W	35			37	SOUTHERN ALASKA. <AGS-P>. ML 3.3 (PMR). Felt (IV) at Eagle River and Willow; (III) at Chugiak, Palmer and Wasilla; (II) at Anchorage.
f	21 09 00 10.1	22.795 S	68.792 W	124	4.5	0.8	30	NORTHERN CHILE
f	21 10 41 35.9	52.056 N	177.547 W	93 G	6.0	0.9	440	ANDREANOF ISLANDS, ALEUTIAN IS. mb 6.2 (BRK). Felt (V) at Adak. Depth from broadband displacement seismograms.
a	21 11 53 19.8%	46.271 N	8.624 E	10 G		0.9	7	SWITZERLAND
a	21 12 08 58.8	8.816 N	83.404 W	24	5.3 5.3	1.1	155	COSTA RICA. ML 5.2 (HDC). Felt (VI) in the central valley of Costa Rica. Felt throughout Costa Rica. Felt (V) at Puerto Armuelles, Concepcion, Valcan and Boquete, Panama.
21	12 11 47.3*	24.322 N	141.634 E	93 ?	4.7	0.9	11	VOLCANO ISLANDS REGION
21	13 15 08.9*	25.314 N	125.400 E	91 *	4.6	1.4	15	SOUTHWESTERN RYUKYU ISLANDS
21	13 27 53.6	39.319 N	29.207 E	10 G		0.7	9	TURKEY
21	13 29 04.8	0.491 N	126.367 E	33 N	4.6	0.9	21	MOLUCCA PASSAGE
21	14 08 28.0?	61.36 N	4.99 E	10 G		1.1	6	SOUTHERN NORWAY. MD 2.3 (BER).
21	14 17 10.0%	40.694 N	29.912 E	10 G		1.3	7	TURKEY
21	14 36 33.0%	39.623 N	29.430 E	10 G		0.8	5	TURKEY
21	14 46 38.6	36.489 N	70.946 E	212 *	4.8	1.2	28	HINDU KUSH REGION
21	14 47 23.9	50.386 N	3.690 E	10 G		0.6	16	BELGIUM. ML 3.0 (LDG).
21	15 31 51.9	52.080 N	177.582 W	103	4.8	1.0	57	ANDREANOF ISLANDS, ALEUTIAN IS.
21	16 33 40.7*	19.644 S	175.864 W	244 *	4.6	1.1	19	TONGA ISLANDS

21	16 41 23.1	45.761 N	26.661 E	150	3.6		1.2	43	ROMANIA
21	18 29 47.5*	41.585 N	20.816 E	10 G			0.9	5	ALBANIA. MG 2.6 (SKO).
21	19 34 38.3*	14.114 N	91.214 W	86	4.4		1.1	35	GUATEMALA. Felt (II) at San Marcos and Retalhuleu. Also felt at Guatemala City and along the southern coast.
21	20 32 28.1?	43.75 N	9.52 E	10 G			0.2	6	CORSICA
21	20 48 16.3	47.100 N	7.142 E	10 G			1.0	18	SWITZERLAND. ML 3.0 (LDG).
21	22 17 54.1*	5.948 S	151.846 E	33 N	4.1		1.2	9	NEW BRITAIN REGION
21	23 16 39.3	5.954 S	151.805 E	33 N	4.8	4.2	1.4	15	NEW BRITAIN REGION
22	00 06 50.0*	60.216 N	152.408 W	76	3.9			41	SOUTHERN ALASKA. <AGS-P>.
22	01 36 46.9	46.173 N	7.937 E	10 G			1.0	23	SWITZERLAND. ML 3.0 (LDG).
22	01 37 33.7?	46.42 N	150.17 E	33 N	4.6		1.1	29	KURIL ISLANDS
22	01 43 49.1*	40.626 N	29.863 E	10 G			1.2	7	TURKEY
22	02 41 55.1*	41.876 N	112.704 W	2				6	UTAH. <SLC-P>. ML 3.4 (SLC).
f 22	02 49 15.9	51.594 N	173.574 W	20 G	5.9	6.0	1.0	366	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.8 (PMR), Ms 6.2 (BRK). Felt (IV) on Adak and Atka. Complex rupture. Depth from broadband displacement seismograms.
22	02 57 51.6*	51.668 N	173.504 W	33 N	4.6		0.8	30	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.2 (PMR).
a 22	03 23 57.6	24.058 S	70.142 W	40 D	5.8	5.8	1.1	232	NEAR COAST OF NORTHERN CHILE. Felt (IV) in the Antofagasta area.
22	05 38 35.1?	4.32 S	105.24 W	10 G	4.4		1.5	10	NORTHERN EASTER I. CORDILLERA
22	06 03 50.4*	5.130 S	143.742 E	121 ?	3.9		0.9	6	PAPUA NEW GUINEA
22	06 10 26.0*	47.022 N	112.945 W	5 G			0.6	7	MONTANA. ML 2.8 (NEIS).
22	07 17 32.0	6.777 N	73.030 W	163	4.5		0.8	60	NORTHERN COLOMBIA
22	07 49 03.2?	12.26 N	89.13 W	33 N	4.3		0.7	11	OFF COAST OF CENTRAL AMERICA
22	08 12 31.2?	0.35 S	129.54 E	33 N	4.0		0.5	6	HALMAHERA
22	08 56 27.7*	51.720 N	173.742 W	33 N	4.5		1.3	12	ANDREANOF ISLANDS, ALEUTIAN IS.
22	09 22 58.9*	5.713 S	153.810 E	50 ?	4.2		1.3	9	NEW IRELAND REGION
22	10 04 51.2	51.678 N	173.460 W	33 N	4.8		0.9	53	ANDREANOF ISLANDS, ALEUTIAN IS.
22	10 30 22.3	25.769 N	96.911 E	33 N	4.7		0.8	39	BURMA
22	11 16 49.6*	51.916 N	173.574 W	33 N	4.0		0.4	15	ANDREANOF ISLANDS, ALEUTIAN IS.
22	11 27 02.9	2.713 N	128.523 E	226 *	5.0		1.0	67	HALMAHERA
22	11 53 53.6*	6.157 S	152.112 E	33 N	4.4		0.7	7	NEW BRITAIN REGION
a 22	12 12 35.6	37.160 S	176.702 E	359	4.9		1.3	62	NORTH ISLAND, NEW ZEALAND. Felt throughout North Island and northern South Island.
22	13 12 42.1*	60.196 N	152.228 W	85				32	SOUTHERN ALASKA. <AGS-P>.
22	15 22 23.7*	17.535 S	167.809 E	25 *	4.4		0.9	18	VANUATU ISLANDS
22	15 24 42.4	7.352 S	128.514 E	146	5.0		0.9	79	BANDA SEA
22	17 35 16.6*	42.059 N	143.982 E	57 *	4.5		1.2	20	HOKKAIDO, JAPAN REGION. Felt (I JMA) at Kushira.
a 22	17 45 04.6	52.094 N	171.453 W	33 N	5.3	4.9	1.1	200	FOX ISLANDS, ALEUTIAN ISLANDS
22	19 31 07.8*	45.900 N	15.686 E	10 G			1.6	6	YUGOSLAVIA. ML 3.5 (KBA), MD 3.0 (TRI). Felt (IV) in the Samoborska Garje area.
22	20 18 34.9*	47.219 N	15.248 E	10 G			1.5	7	AUSTRIA. ML 3.1 (VKA), 2.5 (KBA). Felt (V) at Bruckleoben.
22	20 36 06.9*	62.621 N	151.214 W	81				15	CENTRAL ALASKA. <AGS-P>.
22	20 43 17.1*	8.037 S	107.746 E	33 N	4.3		1.4	16	JAVA
22	20 49 03.1*	36.612 N	28.390 E	10 G			0.6	6	DODECANESE ISLANDS
22	20 49 47.2	45.892 N	15.755 E	12			1.0	37	YUGOSLAVIA. ML 3.9 (KBA), 3.7 (VKA), 3.6 (KRA), 3.6 (TRI). Felt (VI) in the Samoborsko Garje area. Also felt at Zagreb.
22	21 05 35.7	50.372 N	3.734 E	10 G			0.8	34	BELGIUM. ML 3.3 (LDG), 2.5 (BNS), 2.4 (UCC). Felt at Barinage.
22	22 09 45.2*	38.441 N	27.269 E	10 G			1.5	5	TURKEY
22	22 11 07.9*	45.103 N	17.375 E	10 G			1.3	8	YUGOSLAVIA. ML 3.1 (KBA).
22	22 55 32.0?	34.26 S	179.62 E	19 D	4.9		1.5	6	SOUTH OF KERMADEC ISLANDS
22	23 15 01.8	48.216 N	8.910 E	10 G			1.0	44	GERMANY. ML 3.8 (VKA), 3.7 (FUR), 3.6 (KBA), 3.5 (LDG), 3.0 (GRF).
22	23 38 54.5*	63.248 N	150.848 W	106				13	CENTRAL ALASKA. <AGS-P>.
23	00 01 07.5	52.018 N	171.379 W	33 N	4.7		0.9	75	FOX ISLANDS, ALEUTIAN ISLANDS
23	00 24 29.5	40.729 N	27.343 E	8	3.6		1.0	37	TURKEY
23	01 05 50.2*	2.309 N	96.197 E	33 N	4.3		1.1	12	NORTHERN SUMATERA
23	02 00 40.1	5.624 S	147.802 E	57	5.0	4.6	1.1	70	EAST PAPUA NEW GUINEA REGION
23	02 23 51.0?	4.47 S	150.44 E	33 N	3.8		1.4	5	NEW BRITAIN REGION
23	04 07 00.1	40.034 N	114.337 W	5 G			0.7	11	NEVADA. ML 3.0 (NEIS).
a 23	04 58 19.3	31.974 N	131.899 E	50	5.2	5.1	1.1	130	KYUSHU, JAPAN. Felt (III JMA) at Nobeoka and Oita; (II JMA) at Kagoshima and Miyazaki; (I JMA) at Asosan, Kumamoto and Saga.
23	05 10 12.1*	60.557 N	148.980 W	34	4.0			59	KENAI PENINSULA, ALASKA. <AGS-P>. ML 4.5 (PMR). Felt (IV) at Cooper Landing and Eagle River; (III) at Anchorage, Girdwood and Seward; (II) at Palmer.
23	07 40 26.3?	18.59 S	178.21 W	641 ?	4.7		0.7	9	FIJI ISLANDS REGION
23	07 53 34.7	40.575 N	15.616 E	13 *			1.2	15	SOUTHERN ITALY
23	08 30 40.0*	36.098 N	119.801 W	5 G			1.0	5	CENTRAL CALIFORNIA. ML 2.8 (NEIS).
23	09 05 26.8	43.827 N	23.587 E	10 G			1.4	22	BULGARIA
23	10 09 45.3*	5.471 S	147.781 E	33 N	4.9		1.1	7	EAST PAPUA NEW GUINEA REGION
23	10 12 57.5	39.280 N	28.816 E	9			0.4	9	TURKEY
23	11 01 13.4*	40.817 N	123.288 W	10 G			1.1	6	NORTHERN CALIFORNIA. ML 2.9 (BRK).
23	11 05 12.1*	3.610 S	149.403 E	30 ?	4.1		1.2	10	BISMARCK SEA
23	11 22 11.3*	23.840 S	179.945 E	520 *	4.5		0.9	19	SOUTH OF FIJI ISLANDS
23	11 22 43.8*	46.322 N	9.102 E	10 G			0.2	5	SWITZERLAND
23	12 32 08.6?	3.75 S	135.45 E	33 N	4.5		1.5	8	WEST IRIAN REGION
23	13 29 53.3	17.427 S	176.323 E	33 N	4.9	4.9	1.3	33	FIJI ISLANDS REGION
23	14 04 35.8	44.439 N	114.088 W	5 G			0.7	10	WESTERN IDAHO. ML 3.3 (NEIS).
23	14 35 08.7*	7.466 S	128.847 E	143 ?	3.8		1.4	9	BANDA SEA
23	14 38 13.2	46.275 N	8.630 E	10 G	3.3		1.1	8	SWITZERLAND
23	15 22 45.1*	36.037 N	120.040 W	6				13	CENTRAL CALIFORNIA. <BRK>. ML 3.1 (BRK), 3.3 (PAS).
23	16 12 05.3?	3.65 N	125.84 E	33 N	4.3		1.0	5	TALAUD ISLANDS
23	16 50 09.5	60.840 N	5.291 E	10 G			0.5	8	SOUTHERN NORWAY. MD 2.1 (BER).
23	17 09 00.8	0.173 N	119.412 E	56 *	4.9		1.0	29	MINAHASSA PENINSULA
23	18 42 10.7*	44.527 N	9.696 E	10 G			1.3	21	NORTHERN ITALY. ML 3.1 (LDG).
23	18 53 52.3	60.843 N	5.207 E	10 G			0.5	6	SOUTHERN NORWAY. MD 2.3 (BER).
23	19 00 50.4?	19.80 S	178.38 W	568 *	4.0		1.2	18	FIJI ISLANDS REGION
23	19 06 41.1?	10.08 N	72.75 W	33 N			1.1	7	VENEZUELA
23	19 45 19.9*	39.433 N	28.974 E	10 G			1.0	5	TURKEY

a 23	20 48 00.1*	34.014 S	72.079 W	58 *	4.8	1 2	65	NEAR COAST OF CENTRAL CHILE. Felt (III) at Rancagua; (II) at Vina del Mar and Valparaiso. Also felt at Santiago.
23	21 43 41.8?	4.98 S	148.16 E	33 N	4.7	1.1	6	BISMARCK SEA
23	22 45 17.5*	13.316 S	77.037 W	33 N		1.4	11	OFF COAST OF PERU
24	01 29 11.4	44.110 N	16.395 E	10 G	3.7	1.1	90	YUGOSLAVIA. ML 4.3 (KBA), 4.2 (VKA), 4.2 (TTG), 4.2 (TRI). Felt (VI) in the Knin-Basansko Grahovo area.
24	03 08 28.1*	9.639 S	149.367 E	33 N	4.4	1.2	10	EAST PAPUA NEW GUINEA REGION
24	03 49 33.7	11.345 N	125.453 E	69	5.2	1.2	99	SAMAR, PHILIPPINE ISLANDS. Felt (IV RF) at Palo, Leyte.
24	06 40 47.9	6.552 S	147.579 E	39 *	4.5	1.1	20	EAST PAPUA NEW GUINEA REGION
24	07 44 30.2	5.356 S	147.859 E	60	4.7	1.0	27	EAST PAPUA NEW GUINEA REGION
24	11 06 35.3*	6.427 S	147.046 E	69 *	3.3	0.2	6	EAST PAPUA NEW GUINEA REGION
24	12 48 07.7*	37.376 N	137.872 E	32	4.6	1.3	25	NEAR WEST COAST OF HONSHU, JAPAN. Felt (I JMA) at Utsumiya and Wajima.
a 24	12 49 47.0	37.447 N	137.865 E	23 D	5.7 5.1	1.1	339	NEAR WEST COAST OF HONSHU, JAPAN. Felt (IV JMA) at Jaetsu and Wajima, (III JMA) at Tayama, (II JMA) in the Niigata-Nagano area and (I JMA) in the Utsumiya-Maebashi-Kofu-Tokyo area.
24	13 22 24.7	37.420 N	137.796 E	32	4.8	1.0	66	NEAR WEST COAST OF HONSHU, JAPAN. Felt (II JMA) at Jaetsu and Takada and (I JMA) at Niigata and Wajima.
24	13 46 14.8*	33.298 S	179.088 W	36 *	4.7	1.6	15	SOUTH OF KERMADEC ISLANDS
24	14 19 58.9%	45.713 N	26.531 E	144 ?		0.8	9	ROMANIA
24	15 12 09.4	39.324 N	28.902 E	10 G		0.8	9	TURKEY
24	15 21 30.5	42.327 N	18.881 E	10 G		0.8	6	YUGOSLAVIA. ML 2.5 (TTG). Felt at Budva.
24	15 30 59.6*	53.223 N	167.280 W	10 G	4.4	1.1	21	FOX ISLANDS, ALEUTIAN ISLANDS. ML 5.1 (PMR).
24	15 53 01.8*	0.043 S	77.752 W	10 G	3.7	0.8	6	ECUADOR
24	16 48 55.0%	46.232 N	8.661 E	10 G		1.3	9	SWITZERLAND
24	17 04 15.6*	56.245 N	161.243 W	162 *	4.6	1.4	32	ALASKA PENINSULA
24	17 31 21.1	43.841 N	151.285 E	29 D	4.9	1.1	53	KURIL ISLANDS REGION
24	18 19 53.1	37.435 N	29.471 E	10 G		0.3	6	TURKEY
24	19 21 36.3	44.578 N	9.530 E	10 G		0.9	19	NORTHERN ITALY. ML 2.9 (LDG), 2.2 (KBA).
24	20 38 02.1?	44.55 N	9.64 E	10 G		0.4	6	NORTHERN ITALY
24	21 24 50.2%	39.280 N	27.810 E	10 G		1.1	6	TURKEY
24	21 38 11.2	22.105 N	143.813 E	122 D	4.9	1.0	86	VOLCANO ISLANDS REGION
24	21 43 50.7*	10.658 N	85.378 W	33 N		0.8	8	COSTA RICA
24	22 15 24.7%	61.988 N	152.002 W	115			18	SOUTHERN ALASKA. <AGS-P>.
25	00 39 43.1	37.434 N	137.786 E	38	4.7	0.9	47	NEAR WEST COAST OF HONSHU, JAPAN. Felt (II JMA) at Jaetsu, Takada and Wajima; (I JMA) at Aikawa, Niigata and Tayama.
25	00 46 37.0?	19.21 N	102.17 E	33 N		1.6	5	SOUTHEAST ASIA
25	01 49 04.4	42.897 N	20.799 E	10 G		1.3	9	YUGOSLAVIA. ML 2.7 (SKO), 2.2 (TTG).
25	02 43 20.8	32.912 S	64.186 W	30 *	4.5	1.2	30	CORDOBA PROVINCE, ARGENTINA. Felt (II) at Rio Cuarto.
25	03 36 13.2	40.799 N	22.931 E	10 G		0.6	10	GREECE. ML 2.1 (SKO).
25	05 02 51.3	51.549 N	173.514 W	33 N	4.7	1.0	84	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.2 (PMR).
25	05 44 00.8*	51.607 N	16.330 E	10 G		1.1	12	POLAND. ML 4.0 (GRF), 3.8 (VKA), 3.7 (KBA).
25	06 07 58.8	3.166 N	96.292 E	65 *	4.9	1.0	70	NORTHERN SUMATRA
25	06 37 09.6	14.226 N	124.451 E	33 N	3.9	1.4	9	LUZON, PHILIPPINE ISLANDS
25	06 39 46.9*	53.505 S	24.888 E	10 G	4.7	0.8	14	SOUTH OF AFRICA
25	09 38 28.4	38.932 N	26.383 E	25	3.9	1.1	27	AEGEAN SEA. ML 3.5 (ATH).
25	10 55 25.9*	38.083 N	19.984 E	10 G		1.2	13	IONIAN SEA. ML 3.6 (ATH).
25	11 27 03.7*	38.966 N	26.398 E	10 G		0.5	6	AEGEAN SEA
25	13 06 17.4*	46.354 N	25.970 E	33 N		0.6	6	ROMANIA
25	13 42 24.8*	40.982 N	142.039 E	71 *	4.7	1.1	28	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Hachinahe.
25	15 03 35.6%	60.175 N	152.497 W	85			27	SOUTHERN ALASKA. <AGS-P>.
25	15 14 11.3%	58.428 N	148.179 W	44			39	GULF OF ALASKA. <AGS-P>. ML 3.1 (PMR).
25	15 32 50.3*	1.901 N	126.411 E	84 ?	4.4	0.3	6	MOLUCCA PASSAGE
25	15 48 39.1	40.136 N	117.694 W	5 G	3.9	0.7	26	NEVADA. ML 4.2 (BRK).
25	16 01 32.2	40.139 N	117.687 W	5 G	3.9	0.8	26	NEVADA. ML 4.2 (BRK).
25	16 07 50.3*	62.364 N	6.500 E	10 G		0.3	8	SOUTHERN NORWAY. MD 2.5 (BER).
25	16 11 02.0	40.122 N	117.738 W	10 G		0.7	17	NEVADA. ML 3.8 (BRK).
25	18 37 24.6*	32.097 N	132.068 E	43 *		0.7	7	SHIKOKU, JAPAN. Felt (I JMA) at Nabeoka.
25	19 39 05.2*	53.045 S	140.308 E	10 G	4.4	1.5	24	WEST OF MACQUARIE ISLAND
25	19 42 33.1?	61.71 N	4.18 E	10 G		0.7	5	SOUTHERN NORWAY. MD 2.2 (BER).
25	21 04 46.3?	51.13 N	7.09 E	10 G		1.3	5	GERMANY. ML 2.5 (BNS).
25	21 34 39.5	41.863 N	21.147 E	10 G		1.1	12	YUGOSLAVIA. ML 3.0 (SKO), 2.7 (TTG). Felt (IV) in the Tetovo area.
25	21 41 45.7?	56.07 N	161.48 E	33 N	4.5	1.6	8	NEAR EAST COAST OF KAMCHATKA
25	22 14 54.8	2.351 N	126.558 E	71 *	4.6	1.0	34	MOLUCCA PASSAGE
25	22 58 22.6	18.782 N	146.939 E	33 N	4.8	0.8	23	MARIANA ISLANDS
25	23 59 04.2*	52.121 N	171.497 W	33 N	4.4	1.0	8	FOX ISLANDS, ALEUTIAN ISLANDS
26	00 06 43.3?	15.32 S	67.03 E	10 G	4.7 4.6	0.8	28	MID-INOIAN RISE
26	00 24 51.1*	50.771 N	30.048 W	10 G	4.3	0.9	16	NORTH ATLANTIC RIDGE
a 26	01 05 15.9	55.938 S	27.748 W	110 D	5.2	0.9	29	SOUTH SANDWICH ISLANDS REGION
26	02 33 23.1%	60.504 N	152.463 W	94			29	SOUTHERN ALASKA. <AGS-P>.
26	02 35 47.4	50.755 N	129.970 W	10 G	4.6	1.0	54	VANCOUVER ISLAND REGION
26	02 56 01.9?	5.32 S	154.04 E	33 N	4.0	0.1	5	SOLOMON ISLANDS
26	04 30 21.1?	19.11 S	174.04 W	33 N	4.8	1.3	12	TONGA ISLANDS
26	04 58 39.6*	48.844 S	121.378 E	10 G	4.4 5.0	1.2	17	SOUTH OF AUSTRALIA
26	05 09 15.3*	13.896 S	167.351 E	33 N	4.4 4.6	1.1	16	VANUATU ISLANDS
26	06 31 55.6*	48.844 S	121.476 E	10 G	4.6	1.3	23	SOUTH OF AUSTRALIA
a 26	06 47 10.6	21.517 S	173.801 W	20 D	5.4 5.3	1.0	160	TONGA ISLANDS
26	11 02 39.5%	59.738 N	153.466 W	120			26	SOUTHERN ALASKA. <AGS-P>.
26	11 07 19.4%	46.227 N	8.653 E	10 G		1.1	10	SWITZERLAND
26	11 29 55.8	21.183 S	68.626 W	117 D	4.8	1.1	66	CHILE-BOLIVIA BORDER REGION
a 26	11 56 54.2	41.691 N	69.843 E	20 D	5.1 4.3	0.8	105	KIRGHIZ SSR. Felt (VI) at Fagelevka, (IV) in the Chimkent-Chirchik-Leninabad-Tashkent area, (III) at Kayrakkum and (II) at Andizhan, Dushanbe, Namangan and Samarkand.
26	12 11 06.7%	59.673 N	151.968 W	58			33	KENAI PENINSULA, ALASKA. <AGS-P>.
26	12 31 18.6	20.124 S	178.627 W	627	4.8	0.9	29	FIJI ISLANDS REGION
26	13 46 15.9?	23.74 S	67.35 W	283 ?		1.3	8	CHILE-ARGENTINA BORDER REGION
26	14 21 56.0?	58.20 N	6.28 E	10 G		0.8	7	SOUTHERN NORWAY. MD 2.4 (BER).

26	16 05 56.5	7.269 S	155.704 E	51 *	4.5	0.3	10	SOLOMON ISLANDS
a 26	16 17 38.1	13.731 S	167.197 E	191 D	5.5	1.0	254	VANUATU ISLANDS
26	16 26 52.7*	51.622 N	16.365 E	10 G		0.5	8	POLAND. ML 3.7 (VKA), 3.4 (KBA).
26	17 44 01.2*	34.577 N	140.861 E	33 N	4.8	1.1	9	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro.
a 26	18 32 25.9	21.390 S	174.459 W	81 D	5.4	1.5	147	TONGA ISLANDS
26	18 38 27.7	16.914 N	99.989 W	33 N	4.8 4.5	1.0	36	NEAR COAST OF GUERRERO, MEXICO. Slight damage at Acapulco. Felt lightly at Mexico City.
26	18 56 19.3	5.417 S	133.927 E	56 D	5.1	1.4	47	AROE ISLANDS REGION
26	19 26 19.0?	16.43 N	100.19 W	33 N		1.3	7	NEAR COAST OF GUERRERO, MEXICO
26	20 52 12.0?	34.46 S	178.71 E	227 ?	4.4	1.4	9	SOUTH OF KERMADEC ISLANDS
26	21 09 22.0	24.959 N	96.330 E	33 N	4.7	1.3	47	BURMA
26	22 19 37.3*	0.650 S	97.869 E	12	3.7	1.2	11	SOUTHWEST OF SUMATERA
26	22 31 24.7*	21.848 S	174.283 W	33 N	4.8	0.8	27	TONGA ISLANDS
26	22 58 50.5*	51.645 N	16.633 E	10 G		0.9	7	POLAND. ML 3.7 (VKA), 3.4 (KBA).
26	23 14 12.5*	6.846 N	76.544 W	33 N		0.4	5	NORTHERN COLOMBIA
27	00 44 29.4*	7.206 S	129.325 E	216 ?	4.1	0.3	6	BANDA SEA
27	01 53 08.8?	4.02 S	135.31 E	33 N	4.0	1.3	7	WEST IRIAN REGION
27	05 45 39.4*	30.155 N	67.716 E	33 N	4.3	0.8	9	PAKISTAN
27	06 30 47.2&	61.012 N	151.154 W	72			45	SOUTHERN ALASKA. <AGS-P>.
27	07 29 30.4&	35.567 N	84.229 W	19	4.3		19	TENNESSEE. <TEIC>. mbLg 4.2 (NEIS), 4.2 (TUL). Slight damage (VI) at Friendsville, Greenback, Louisville and Tallassee. Felt (V) at Benton, Delano, Harriman, Jacksboro, Philadelphia, Sweetwater, Tellico Plains, Turtletown and Vonare. Also felt (V) at Epworth and Mineral Bluff, Georgia. Felt in much of eastern Tennessee and in parts of Georgia and North Carolina.
27	09 15 28.1*	21.238 S	174.693 W	33 N	5.0 4.6	1.3	30	TONGA ISLANDS
27	09 38 23.5	36.761 N	4.006 W	93 *		0.9	25	STRAIT OF GIBRALTAR. Felt (III) at Torre del Mar, Spain.
27	10 12 51.3*	10.587 S	41.057 E	10 G	4.5	0.7	11	NORTHWEST OF MADAGASCAR
27	10 33 25.6*	52.040 N	171.324 W	33 N	4.4	0.9	9	FOX ISLANDS, ALEUTIAN ISLANDS
27	11 07 37.3	8.379 S	76.086 W	146 *	4.8	0.9	34	PERU
27	11 19 12.5*	35.425 N	141.135 E	57 *	4.6	0.7	17	NEAR EAST COAST OF HONSHU, JAPAN
27	11 35 49.1	36.575 N	70.910 E	236 *	4.6	0.7	25	HINDU KUSH REGION
27	11 42 39.5	22.299 S	172.082 E	33 N	4.8	1.3	33	LOYALTY ISLANDS REGION
27	11 54 02.1*	30.418 S	176.474 W	65 *	5.4	1.4	24	KERMADEC ISLANDS REGION. Felt on Raoul Island.
27	13 24 36.7%	60.286 N	5.407 E	0 G		0.5	5	SOUTHERN NORWAY. MD 2.2 (BER). Probable explosion.
27	13 49 27.7*	7.205 S	150.214 E	45 ?	4.5	1.0	9	NEW BRITAIN REGION
27	13 55 04.1	40.013 N	23.958 E	10 G		0.9	21	GREECE. ML 3.1 (ATH).
27	14 00 32.1	39.897 N	24.051 E	6		1.2	19	AEGEAN SEA. ML 3.0 (ATH).
27	14 30 32.3*	32.429 N	51.315 E	33 N	4.4	1.2	9	IRAN
27	15 54 37.2*	21.546 N	121.320 E	44 *	4.1	1.5	19	TAIWAN REGION
27	17 02 21.1	52.966 N	168.429 E	33 N	4.4	0.7	25	ALEUTIAN ISLANDS REGION
27	17 10 51.9	51.297 N	178.271 W	33 N	5.1	0.9	89	ANDREANOF ISLANDS, ALEUTIAN IS.
27	18 42 01.9*	7.224 S	120.221 E	399 *	4.3	1.1	15	FLORES SEA
27	19 03 24.1*	34.951 N	30.882 E	10 G		1.0	8	EASTERN MEDITERRANEAN SEA
27	20 01 55.7?	39.61 N	75.56 E	33 N	4.7	0.7	6	SOUTHERN XINJIANG, CHINA
27	20 33 13.0?	36.16 N	10.47 W	33 N		1.2	5	NORTH ATLANTIC OCEAN. MG 3.5 (MTE).
27	21 08 40.4*	5.255 S	153.725 E	70 ?	3.7	0.9	6	NEW IRELAND REGION
27	21 14 36.8*	34.985 N	30.903 E	33 N	3.8	1.4	11	EASTERN MEDITERRANEAN SEA
27	21 25 03.9%	43.797 N	7.435 E	10 G		1.5	6	NEAR SOUTH COAST OF FRANCE. ML 2.8 (LDG).
27	22 25 41.2?	47.67 N	7.44 E	10 G		0.1	5	SWITZERLAND. ML 2.2 (LDG).
27	22 53 17.2	31.946 N	90.939 E	33 N	3.9	1.5	20	TIBET
27	23 12 04.9	40.696 N	23.512 E	10 G		0.3	6	GREECE
28	01 36 15.8?	21.72 S	170.31 E	33 N	4.3 3.8	1.6	14	LOYALTY ISLANDS REGION
28	03 44 43.4*	66.267 N	149.892 W	10 G		1.5	5	ALASKA. ML 3.3 (PMR).
a 28	05 04 10.8	57.919 S	25.386 W	33 N	5.5	0.9	102	SOUTH SANDWICH ISLANDS REGION
28	05 26 44.0?	51.11 N	168.94 W	33 N	4.8	0.7	8	FOX ISLANDS, ALEUTIAN ISLANDS
28	06 14 13.9*	39.319 N	20.158 E	10 G	3.7	1.1	14	GREECE-ALBANIA BORDER REGION. ML 3.7 (ATH).
28	08 48 51.0	26.462 N	103.075 E	33 N	4.2	1.1	14	YUNNAN PROVINCE, CHINA. ML 4.5 (BJI).
28	09 22 29.6%	44.423 N	6.500 E	10 G		0.5	5	FRANCE. ML 2.3 (LDG).
28	09 46 13.1?	6.34 N	73.01 W	162 *		0.7	8	NORTHERN COLOMBIA
28	10 48 12.4%	41.204 N	28.967 E	10 G		0.4	6	TURKEY
28	11 04 12.7	30.654 N	131.426 E	45	4.7 5.1	1.1	52	KYUSHU, JAPAN
a 28	11 26 38.4	30.658 N	131.328 E	40	5.1 5.8	1.4	116	KYUSHU, JAPAN
28	11 30 04.3	44.223 N	12.099 E	14		1.2	30	NORTHERN ITALY. ML 3.4 (KBA), 3.2 (LDG), MD 3.2 (TRI).
28	11 44 56.2*	30.673 N	131.451 E	51 *	4.5	1.2	23	KYUSHU, JAPAN
28	11 53 11.1*	6.710 S	147.564 E	40 *	4.5	1.4	10	EAST PAPUA NEW GUINEA REGION. ML 4.6 (PMG).
28	13 03 24.6*	6.075 S	147.652 E	53 *	4.8	0.9	10	EAST PAPUA NEW GUINEA REGION
28	13 03 53.1&	59.057 N	137.060 W	23		1.2	12	SOUTHEASTERN ALASKA. <AGS-P>.
28	13 04 41.3?	17.08 S	178.67 W	572 *	5.0	0.5	11	FIJI ISLANDS REGION
28	13 13 49.2&	59.910 N	152.263 W	82		2.6	26	SOUTHERN ALASKA. <AGS-P>.
28	13 30 58.9*	22.456 S	171.475 E	141 ?	4.7	0.7	8	LOYALTY ISLANDS REGION
28	13 55 18.8?	35.21 N	141.42 E	33 N	4.5	0.6	7	NEAR EAST COAST OF HONSHU, JAPAN
28	14 02 30.8	40.689 N	23.431 E	10 G		1.0	8	GREECE
28	14 42 20.2*	24.010 S	66.706 W	208 *		1.5	15	SALTA PROVINCE, ARGENTINA
28	15 52 10.0	39.151 N	29.528 E	10 G		1.4	10	TURKEY
28	16 02 17.3*	33.908 N	103.116 E	33 N		0.5	6	GANSU PROVINCE, CHINA. ML 4.2 (BJI).
28	19 29 00.3&	33.980 N	118.320 W	6			11	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS). Felt (V) at Inglewood and Los Angeles and (IV) at Hawthorne and La Habra.
28	20 05 04.8?	4.57 S	136.18 E	33 N	4.1	1.1	5	WEST IRIAN REGION
28	20 20 11.5	52.008 N	178.012 E	125 *	4.7	1.0	32	RAT ISLANDS, ALEUTIAN ISLANDS
28	21 12 17.9&	37.542 N	121.642 W	4			13	CENTRAL CALIFORNIA. <BRK>. ML 2.9 (BRK).
28	22 12 02.1	29.401 N	52.497 E	15	4.2	0.9	27	SOUTHERN IRAN
28	23 27 36.4	30.664 N	131.583 E	43 *	4.8	1.0	25	KYUSHU, JAPAN
a 28	23 31 58.3	5.275 S	152.563 E	54	5.8 5.2	1.0	183	NEW BRITAIN REGION. Felt (III) at Rabaul.
29	00 14 36.7?	36.27 N	27.94 E	10 G		1.1	5	DODECANESE ISLANDS
29	01 17 19.9	51.549 N	173.254 W	33 N	4.6	1.1	43	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.3 (PMR).
29	01 30 55.5	51.604 N	173.176 W	33 N	5.0	1.0	122	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.5 (PMR).
29	01 33 10.7	45.530 N	6.807 E	10 G		0.8	9	FRANCE. ML 2.6 (LDG).
29	03 37 18.7	44.147 N	12.198 E	20 G		1.1	66	NORTHERN ITALY. ML 4.2 (KBA), 4.0 (LDG), 3.9 (TRI). MD

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 04 55 04.34 32.665S 57.225E 10km | P -3.59 54 53 | N 0.00 19 323
4.9mb (6 obs.) | Best Double Couple:Mo=3.5*10**17 | P -1.30 69 168
ATLANTIC-INDIAN RISE | NP1:Strike= 81 Dip=52 Slip=-42 | Best Double Couple:Mo=1.3*10**17
CENTROID, MOMENT TENSOR (HRV) | NP2: 199 58 -134 | NP1:Strike=166 Dip=40 Slip=-60
Data Used: GDSN | CENTROID, MOMENT TENSOR (HRV) | NP2: 309 56 -113
L.P.B.: 13S, 27C | Data Used: GDSN |
Centroid Location: | L.P.B.: 12S, 30C |
Origin Time 04:55:11.4 0.8 | Centroid Location: |
Lot 32.67S 0.09 Lon 57.23E 0.06 | Origin Time 01:32:11.8 0.2 |
Dep 15.0 FIX Half-duration 1.4 | Lot 46.16N 0.02 Lon 152.40E 0.04 |
Principal Axes: | Dep 96.8 2.2 Half-duration 2.8 |
Scale 10**16 Nm | Principal Axes: |
T Val= 6.62 Plg= 0 Azm=141 | Scale 10**17 Nm |
N -0.50 90 180 | T Val= 4.38 Plg=25 Azm=295 |
P -6.13 0 51 | N 0.42 15 32 |
Best Double Couple:Mo=6.4*10**16 | P -4.80 60 151 |
NP1:Strike=186 Dip=90 Slip= 180 | Best Double Couple:Mo=4.6*10**17 |
NP2: 276 90 0 | NP1:Strike=355 Dip=25 Slip=-130 |
| NP2: 218 71 -74 |

02 01 42 34.11 37.965S 176.765E 19km | 03 09 41 33.61 41.292N 79.298E 33km | 05 09 17 05.28 24.388S 70.161W 62km
5.9mb (30 obs.) 6.6Msz (18 obs.) | 5.1mb (33 obs.) 5.0Msz (4 obs.) | 6.5mb (66 obs.) 7.3Msz (16 obs.)
NORTH ISLAND, NEW ZEALAND | KIRGHIZ-XINJIANG BORDER REGION | NEAR COAST OF NORTHERN CHILE
FAULT PLANE SOLUTION: P-Waves | CENTROID, MOMENT TENSOR (HRV) | FAULT PLANE SOLUTION: P-Waves
NP1:Strike=220 Dip=59 Slip=-158 | Data Used: GDSN | NP1:Strike=354 Dip=20 Slip= 90
NP2: 118 71 -33 | L.P.B.: 10S, 20C | NP2: 174 70 90
Principal Axes: | Centroid Location: | Principal Axes:
T Plg= 8 Azm=171 | Origin Time 09:41:33.1 1.0 | T Val= 2.34 Plg=57 Azm= 61
P 36 76 | Lat 41.30N 0.15 Lon 79.52E 0.17 | N 0.18 28 208
Comment: The focal mechanism is | Dep 33.0 FIX Half-duration 1.3 | P -2.52 15 306
poorly controlled and | Principal Axes: | Best Double Couple:Mo=2.4*10**20
corresponds to strike-slip | Scale 10**16 Nm | NP1:Strike= 70 Dip=39 Slip= 139
faulting with a large normal | T Val= 4.03 Plg=66 Azm=121 | NP2: 194 66 59
component. The preferred fault | N 0.21 2 216 | CENTROID, MOMENT TENSOR (HRV)
plane is not determined. | P -4.25 24 307 | Data Used: GDSN, IDA
CENTROID, MOMENT TENSOR (HRV) | Best Double Couple:Mo=4.1*10**16 | L.P.B.: 13S, 31C M.W.: 12S, 28C
Data Used: GDSN, IDA | NP1:Strike= 42 Dip=21 Slip= 96 | Centroid Location:
L.P.B.: 10S, 27C M.W.: 10S, 23C | NP2: 215 69 88 | Origin Time 09:17:20.6 0.1
Centroid Location: | | Lat 24.38S 0.01 Lon 70.93W 0.01
Origin Time 01:42:39.2 0.1 | | Dep 41.9 0.8 Half-duration 15.0
Lat 37.82S 0.02 Lon 177.03E 0.03 | | Principal Axes:
Dep 15.0 FIX Half-duration 6.8 | | Scale 10**20 Nm
Principal Axes: | | T Val= 2.52 Plg=66 Azm= 73
Scale 10**18 Nm | | N -0.09 6 177
T Val= 7.04 Plg=13 Azm=314 | | P -2.43 23 270
N -1.20 6 45 | | Best Double Couple:Mo=2.5*10**20
P -5.84 76 158 | | NP1:Strike= 12 Dip=23 Slip= 106
Best Double Couple:Mo=6.4*10**18 | | NP2: 175 68 83
NP1:Strike= 36 Dip=32 Slip=-101 | |
NP2: 228 58 -83 | |

02 05 57 43.56 45.708S 96.212E 10km | 03 14 20 32.31 57.910S 25.147W 25km | 05 10 55 12.35 24.495S 70.701W 35km
5.6mb (20 obs.) 6.2Msz (11 obs.) | 5.4mb (12 obs.) 5.0Msz (1 obs.) | 5.7mb (50 obs.)
SOUTHEAST INDIAN RISE | SOUTH SANDWICH ISLANDS REGION | NEAR COAST OF NORTHERN CHILE
CENTROID, MOMENT TENSOR (HRV) | CENTROID, MOMENT TENSOR (HRV) | CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN | Data Used: GDSN | Data Used: GDSN, IDA
L.P.B.: 14S, 33C | L.P.B.: 14S, 28C | L.P.B.: 10S, 20C M.W.: 9S, 17C
Centroid Location: | Centroid Location: | Centroid Location:
Origin Time 05:57:54.3 0.3 | Origin Time 14:20:40.6 0.5 | Origin Time 10:55:22.7 0.4
Lat 45.56S 0.03 Lon 96.06E 0.05 | Lot 57.97S 0.05 Lon 24.91W 0.09 | Lat 24.19S 0.06 Lon 71.31W 0.05
Dep 15.0 FIX Half-duration 4.7 | Dep 24.7 3.1 Half-duration 1.9 | Dep 33.0 FIX Half-duration 8.4
Principal Axes: | Principal Axes: | Principal Axes:
Scale 10**18 Nm | Scale 10**17 Nm | Scale 10**19 Nm
T Val= 2.25 Plg=13 Azm= 82 | T Val= 1.50 Plg=71 Azm=288 | T Val= 2.81 Plg=61 Azm= 81
N -0.09 74 224 | N -0.05 10 168 | N 0.49 3 346
P -2.16 9 350 | P -1.45 16 75 | P -3.30 28 254
Best Double Couple:Mo=2.2*10**18 | Best Double Couple:Mo=1.5*10**17 | Best Double Couple:Mo=3.1*10**19
NP1:Strike=126 Dip=74 Slip= 178 | NP1:Strike=151 Dip=30 Slip= 71 | NP1:Strike=336 Dip=17 Slip= 80
NP2: 217 88 16 | NP2: 353 61 101 | NP2: 166 73 93

03 01 32 12.31 46.347N 152.013E 96km | 04 06 25 22.62 6.528S 147.921E 16km | 05 19 47 09.11 5.887S 146.653E 56km
5.8mb (75 obs.) | 5.2mb (16 obs.) 5.2Msz (6 obs.) | 5.4mb (23 obs.) 5.2Msz (1 obs.)
KURIL ISLANDS | EAST PAPUA NEW GUINEA REGION | EAST PAPUA NEW GUINEA REGION
FAULT PLANE SOLUTION: P-Waves | CENTROID, MOMENT TENSOR (HRV) | CENTROID, MOMENT TENSOR (HRV)
NP1:Strike=210 Dip=77 Slip=-125 | Data Used: GDSN | Data Used: GDSN
NP2: 102 37 -22 | L.P.B.: 11S, 20C | L.P.B.: 7S, 15C
Principal Axes: | Centroid Location: | Centroid Location:
T Plg=24 Azm=326 | Origin Time 06:25:17.1 0.8 | Origin Time 19:47:16.9 0.9
P 46 84 | Lat 6.18S 0.09 Lon 147.82E 0.10 | Lat 6.05S 0.08 Lon 146.51E 0.10
Comment: The focal mechanism is | Dep 15.0 FIX Half-duration 1.6 | Dep 87.4 9.0 Half-duration 2.2
poorly controlled and | Principal Axes: | Principal Axes:
corresponds to normal faulting | Scale 10**17 Nm | Scale 10**17 Nm
with a large strike-slip | T Val= 1.67 Plg=32 Azm= 6 | T Val= 2.44 Plg=85 Azm=276
component. The preferred fault | N 0.00 28 257 | N -0.62 3 142
plane is not determined. | P -1.67 45 135 | P -1.83 3 51
MOMENT TENSOR SOLUTION | Best Double Couple:Mo=1.7*10**17 | Best Double Couple:Mo=2.1*10**17
Dep 88 No. of sta: 10 | NP1:Strike=149 Dip=29 Slip= -16 | NP1:Strike=138 Dip=42 Slip= 85
Principal Axes: | NP2: 253 82 -118 | NP2: 325 48 94
Scale 10**17 Nm | |
T Val= 3.45 Plg= 3 Azm=319 | |
N 0.14 36 226 | |

04 10 04 58.58 19.962S 68.926W 113km | 06 01 54 50.49 0.048N 77.653W 14km
5.2mb (21 obs.) | 6.1mb (68 obs.) 6.1Msz (18 obs.)
CHILE-BOLIVIA BORDER REGION | COLOMBIA-ECUADOR BORDER REGION
CENTROID, MOMENT TENSOR (HRV) | CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN | Data Used: GDSN
L.P.B.: 11S, 27C | L.P.B.: 0.048N, 77.653W
Centroid Location: | Centroid Location:
Origin Time 10:05: 6.0 0.5 | Origin Time 01:54:50.49 0.048N 77.653W 14km
Lat 19.83S 0.07 Lon 69.13W 0.06 | Dep 133.2 2.3 Half-duration 1.9
Dep 133.2 2.3 Half-duration 1.9 | Principal Axes: |
Principal Axes: | Scale 10**17 Nm |
T Val= 1.29 Plg= 8 Azm= 55 | T Val= 1.29 Plg= 8 Azm= 55 |

FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=353 Dip=72 Slip= 90
 NP2: 173 18 90
 Principal Axes:
 T P1g=63 Azm=263
 P 27 83
 Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is not determined.

RADIATED ENERGY
 No. of sta: 4 Focal mech. M
 Energy 2.7±0.7*10**14 Nm
 MOMENT TENSOR SOLUTION
 Dep 23 No. of sta: 10
 Principal Axes:
 Scale 10**18 Nm
 T Val= 5.08 P1g=50 Azm=218
 N 0.07 33 358
 P -5.16 21 102
 Best Double Couple:Ma=5.1*10**18
 NP1:Strike=233 Dip=38 Slip= 152
 NP2: 346 73 56
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 38C
 Centroid Location:
 Origin Time 01:54:57.5 0.2
 Lat 0.10N 0.03 Lon 77.77W 0.03
 Dep 15.0 BDY Half-duration 5.8
 Principal Axes:
 Scale 10**18 Nm
 T Val= 4.92 P1g=61 Azm=244
 N -0.05 9 351
 P -4.87 27 86
 Best Double Couple:Ma=4.9*10**18
 NP1:Strike=198 Dip=20 Slip= 118
 NP2: 348 73 81

06 04 10 41.96 0.151N 77.821W 10km
 6.5mb (51 obs.) 6.9Msz (21 obs.)
 COLOMBIA-ECUADOR BORDER REGION
 FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=353 Dip=72 Slip= 90
 NP2: 173 18 90
 Principal Axes:
 T P1g=63 Azm=263
 P 27 83
 Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is not determined.

RADIATED ENERGY
 No. of sta: 4 Focal mech. F
 Energy 6.5±1.3*10**14 Nm
 MOMENT TENSOR SOLUTION
 Dep 49 No. of sta: 10
 Principal Axes:
 Scale 10**19 Nm
 T Val= 2.98 P1g=52 Azm=196
 N 0.94 32 341
 P -3.92 17 82
 Best Double Couple:Ma=3.5*10**19
 NP1:Strike=211 Dip=40 Slip= 147
 NP2: 327 70 55
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN, IDA
 L.P.B.: 15S, 39C M.W.: 13S, 32C
 Centroid Location:
 Origin Time 04:10:55.4 0.1
 Lat 0.06S 0.01 Lon 77.84W 0.01
 Dep 15.0 BDY Half-duration 14.0
 Principal Axes:
 Scale 10**19 Nm
 T Val= 6.35 P1g=71 Azm=268
 N 0.04 3 8
 P -6.39 19 100
 Best Double Couple:Ma=6.4*10**19
 NP1:Strike=195 Dip=27 Slip= 98
 NP2: 7 64 86

06 07 06 44.04 24.089S 70.104W 41km
 5.9mb (63 obs.) 5.5Msz (4 obs.)
 NEAR COAST OF NORTHERN CHILE
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 8S, 13C
 Centroid Location:
 Origin Time 07:06:55.9 1.6
 Lat 23.53S 0.17 Lon 69.70W 0.30
 Dep 41.0 FIX Half-duration 4.6

Principal Axes:
 Scale 10**18 Nm
 T Val= 1.61 P1g=39 Azm= 88
 N -0.31 24 199
 P -1.30 41 312
 Best Double Couple:Ma=1.5*10**18
 NP1:Strike=113 Dip=24 Slip=-177
 NP2: 20 89 -66

06 08 14 48.08 0.022N 77.927W 9km
 5.5mb (61 obs.) 5.4Msz (10 obs.)
 COLOMBIA-ECUADOR BORDER REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 28C
 Centroid Location:
 Origin Time 08:14:58.5 0.6
 Lat 0.31N 0.07 Lon 77.73W 0.10
 Dep 15.0 FIX Half-duration 3.2
 Principal Axes:
 Scale 10**17 Nm
 T Val= 11.93 P1g=26 Azm=186
 N -0.41 38 298
 P -11.52 41 71
 Best Double Couple:Ma=1.2*10**18
 NP1:Strike=226 Dip=40 Slip=-166
 NP2: 125 81 -51

06 09 39 54.70 24.149S 70.118W 46km
 5.7mb (65 obs.) 5.7Msz (13 obs.)
 NEAR COAST OF NORTHERN CHILE
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 10S, 24C
 Centroid Location:
 Origin Time 09:40: 2.8 0.4
 Lat 23.87S 0.05 Lon 70.55W 0.09
 Dep 45.0 FIX Half-duration 4.4
 Principal Axes:
 Scale 10**18 Nm
 T Val= 2.63 P1g=51 Azm= 53
 N -0.04 22 172
 P -2.59 31 276
 Best Double Couple:Ma=2.6*10**18
 NP1:Strike= 54 Dip=24 Slip= 154
 NP2: 168 80 68

06 10 23 26.64 14.590N 92.287W 95km
 5.1mb (59 obs.)
 NEAR COAST OF CHIAPAS, MEXICO
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 7S, 9C
 Centroid Location:
 Origin Time 10:23:26.1 1.3
 Lat 14.53N FIX;Lon 92.13W FIX
 Dep 68.014.8 Half-duration 2.8
 Principal Axes:
 Scale 10**17 Nm
 T Val= 2.88 P1g=21 Azm=218
 N -0.05 5 310
 P -2.83 69 53
 Best Double Couple:Ma=2.9*10**17
 NP1:Strike=300 Dip=25 Slip=-102
 NP2: 133 66 -85

06 13 48 41.54 51.135N 179.587E 54km
 5.4mb (74 obs.)
 RAT ISLANDS, ALEUTIAN ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 29C
 Centroid Location:
 Origin Time 13:48:40.6 0.5
 Lat 51.33N 0.06 Lon 179.98W 0.11
 Dep 15.0 FIX Half-duration 2.6
 Principal Axes:
 Scale 10**17 Nm
 T Val= 3.80 P1g=59 Azm=335
 N 0.12 1 67
 P -3.92 31 157
 Best Double Couple:Ma=3.9*10**17
 NP1:Strike=250 Dip=14 Slip= 94
 NP2: 66 76 89

07 06 11 17.02 16.022S 167.399E 36km
 5.6mb (20 obs.) 5.5Msz (7 obs.)
 VANUATU ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 25C
 Centroid Location:
 Origin Time 06:11:18.6 0.3

Lat 16.12S 0.02 Lon 167.53E 0.03
 Dep 37.7 1.5 Half-duration 3.4
 Principal Axes:
 Scale 10**17 Nm
 T Val= 6.92 P1g=82 Azm=165
 N 1.82 8 353
 P -8.74 1 263
 Best Double Couple:Ma=7.8*10**17
 NP1:Strike=345 Dip=44 Slip= 78
 NP2: 181 47 101

07 14 50 54.20 6.129S 147.791E 41km
 5.4mb (12 obs.)
 EAST PAPUA NEW GUINEA REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 24C
 Centroid Location:
 Origin Time 14:50:58.2 0.6
 Lat 6.16S 0.04 Lon 147.94E 0.06
 Dep 57.6 5.7 Half-duration 1.6
 Principal Axes:
 Scale 10**16 Nm
 T Val= 10.16 P1g=16 Azm=122
 N 0.64 65 355
 P -10.80 19 217
 Best Double Couple:Ma=1.0*10**17
 NP1:Strike=259 Dip=65 Slip= -3
 NP2: 350 88 -155

07 19 43 06.54 15.988S 172.716W 33km
 5.3mb (36 obs.) 5.5Msz (11 obs.)
 SAMOA ISLANDS REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 32C
 Centroid Location:
 Origin Time 19:43: 8.3 0.3
 Lat 15.93S 0.04 Lon 172.27W 0.04
 Dep 22.0 BDY Half-duration 2.7
 Principal Axes:
 Scale 10**17 Nm
 T Val= 4.00 P1g=11 Azm= 55
 N -0.37 22 150
 P -3.63 65 300
 Best Double Couple:Ma=3.8*10**17
 NP1:Strike=120 Dip=39 Slip=-126
 NP2: 343 59 -65

07 21 48 46.59 16.225S 172.664W 33km
 5.0mb (6 obs.) 5.2Msz (1 obs.)
 SAMOA ISLANDS REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 9S, 12C
 Centroid Location:
 Origin Time 21:48:50.7 1.3
 Lat 14.89S 0.27 Lon 172.87W 0.23
 Dep 15.0 FIX Half-duration 1.5
 Principal Axes:
 Scale 10**16 Nm
 T Val= 7.74 P1g=12 Azm=235
 N -0.91 56 343
 P -6.82 31 138
 Best Double Couple:Ma=7.3*10**16
 NP1:Strike=281 Dip=59 Slip=-165
 NP2: 183 77 -31

08 12 51 43.34 20.483S 70.376W 30km
 5.2mb (36 obs.)
 NEAR COAST OF NORTHERN CHILE
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 25C
 Centroid Location:
 Origin Time 12:51:51.0 0.6
 Lat 20.01S 0.15 Lon 71.09W 0.09
 Dep 15.0 FIX Half-duration 1.6
 Principal Axes:
 Scale 10**16 Nm
 T Val= 8.70 P1g=55 Azm= 67
 N 1.47 17 182
 P -10.18 30 282
 Best Double Couple:Ma=9.4*10**16
 NP1:Strike= 52 Dip=22 Slip= 142
 NP2: 178 77 73

10 00 22 35.95 18.448S 72.035W 41km
 5.7mb (60 obs.) 5.6Msz (8 obs.)
 OFF COAST OF NORTHERN CHILE
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 28C

Centroid Location:
 Origin Time 00:22:40.7 0.3
 Lat 18.53S FIX;Lon 72.15W FIX
 Dep 15.0 BDY Half-duration 3.6
 Principal Axes:
 Scale 10**17 Nm
 T Val= 5.04 Plg= 7 Azm= 82
 N 1.57 3 351
 P -6.62 83 234
 Best Double Couple:Mo=5.8*10**17
 NP1:Strike=176 Dip=39 Slip=-84
 NP2: 349 52 -94

Data Used: GDSN
 L.P.B.: 11S, 21C
 Centroid Location:
 Origin Time 22:20:36.2 1.1
 Lat 5.86N 0.11 Lon 76.41W 0.17
 Dep 50.9 8.7 Half-duration 1.3
 Principal Axes:
 Scale 10**16 Nm
 T Val= 4.07 Plg=64 Azm= 0
 N -1.14 2 265
 P -2.93 26 174
 Best Double Couple:Mo=3.5*10**16
 NP1:Strike=258 Dip=19 Slip= 83
 NP2: 86 71 93

NEAR COAST OF OAXACA, MEXICO
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 32C
 Centroid Location:
 Origin Time 12:18:14.3 0.4
 Lat 15.61N 0.04 Lon 94.39W 0.03
 Dep 17.0 BDY Half-duration 3.8
 Principal Axes:
 Scale 10**18 Nm
 T Val= 1.40 Plg=64 Azm=358
 N 0.22 3 93
 P -1.62 26 184
 Best Double Couple:Mo=1.5*10**18
 NP1:Strike=281 Dip=19 Slip= 98
 NP2: 92 71 87

10 02 18 09.62 18.341S 71.976W 37km
 5.5mb (29 obs.) 3.9Msz (1 obs.)
 OFF COAST OF NORTHERN CHILE
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 22C
 Centroid Location:
 Origin Time 02:18:11.9 0.7
 Lat 18.22S FIX;Lon 72.13W FIX
 Dep 15.0 BDY Half-duration 1.8
 Principal Axes:
 Scale 10**17 Nm
 T Val= 2.73 Plg=33 Azm=269
 N 0.09 2 177
 P -2.82 57 84
 Best Double Couple:Mo=2.8*10**17
 NP1:Strike= 8 Dip=12 Slip=-79
 NP2: 177 78 -92

11 02 50 55.17 34.219S 178.951E 233km
 5.3mb (21 obs.)
 SOUTH OF KERMADEC ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 25C
 Centroid Location:
 Origin Time 02:51: 6.1 0.6
 Lat 33.94S 0.07 Lon 178.69E 0.10
 Dep 262.2 3.5 Half-duration 1.4
 Principal Axes:
 Scale 10**16 Nm
 T Val= 10.48 Plg=40 Azm=229
 N 0.07 29 346
 P -10.55 37 100
 Best Double Couple:Mo=1.1*10**17
 NP1:Strike=252 Dip=29 Slip= 177
 NP2: 345 88 61

12 14 56 28.33 5.034S 151.357E 149km
 4.8mb (4 obs.)
 NEW BRITAIN REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 8S, 12C
 Centroid Location:
 Origin Time 14:56:27.6 2.4
 Lat 5.35S 0.20 Lon 151.60E 0.19
 Dep 163.310.4 Half-duration 1.5
 Principal Axes:
 Scale 10**16 Nm
 T Val= 5.17 Plg=30 Azm=272
 N 3.84 45 146
 P -9.00 30 22
 Best Double Couple:Mo=7.1*10**16
 NP1:Strike= 57 Dip=45 Slip= 0
 NP2: 327 90 135

10 03 24 12.60 36.924N 141.662E 47km
 5.2mb (58 obs.) 5.5Msz (2 obs.)
 NEAR EAST COAST OF HONSHU, JAPAN
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 27C
 Centroid Location:
 Origin Time 03:24:13.8 0.5
 Lat 36.74N 0.05 Lon 141.88E 0.07
 Dep 28.5 4.0 Half-duration 2.2
 Principal Axes:
 Scale 10**17 Nm
 T Val= 2.75 Plg=61 Azm=308
 N 0.07 3 212
 P -2.82 29 120
 Best Double Couple:Mo=2.8*10**17
 NP1:Strike=201 Dip=16 Slip= 79
 NP2: 33 74 93

11 17 04 14.82 24.712S 88.219E 10km
 5.1mb (9 obs.) 5.5Msz (1 obs.)
 SOUTH INDIAN OCEAN
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 20C
 Centroid Location:
 Origin Time 17:04:19.4 0.9
 Lat 24.29S 0.14 Lon 88.06E 0.15
 Dep 15.0 FIX Half-duration 1.3
 Principal Axes:
 Scale 10**16 Nm
 T Val= 4.04 Plg=73 Azm=290
 N 1.72 6 39
 P -5.76 16 131
 Best Double Couple:Mo=4.9*10**16
 NP1:Strike=230 Dip=30 Slip= 102
 NP2: 36 61 83

12 23 10 30.78 0.268S 18.147W 10km
 5.5mb (64 obs.) 4.8Msz (3 obs.)
 CENTRAL MID-ATLANTIC RIDGE
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 9S, 19C
 Centroid Location:
 Origin Time 23:10:40.5 0.5
 Lat 0.36N 0.04 Lon 17.81W 0.04
 Dep 15.0 FIX Half-duration 2.0
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.63 Plg= 0 Azm=209
 N 0.14 90 180
 P -1.77 0 119
 Best Double Couple:Mo=1.7*10**17
 NP1:Strike=254 Dip=90 Slip= 180
 NP2: 344 90 0

10 16 14 53.23 40.612N 145.259E 39km
 5.7mb (87 obs.) 5.2Msz (5 obs.)
 OFF EAST COAST OF HONSHU, JAPAN
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 31C
 Centroid Location:
 Origin Time 16:14:54.1 0.2
 Lat 40.56N 0.03 Lon 145.16E 0.04
 Dep 18.0 BDY Half-duration 2.9
 Principal Axes:
 Scale 10**17 Nm
 T Val= 5.52 Plg= 7 Azm=310
 N -0.50 5 40
 P -5.02 81 165
 Best Double Couple:Mo=5.3*10**17
 NP1:Strike= 34 Dip=38 Slip=-98
 NP2: 224 52 -84

12 06 07 19.21 18.467S 72.192W 35km
 5.1mb (17 obs.)
 OFF COAST OF NORTHERN CHILE
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 10S, 16C
 Centroid Location:
 Origin Time 06:07:18.4 1.3
 Lat 18.45S FIX;Lon 72.24W FIX
 Dep 15.0 FIX Half-duration 1.3
 Principal Axes:
 Scale 10**16 Nm
 T Val= 4.10 Plg=28 Azm=240
 N 0.78 1 149
 P -4.87 62 58
 Best Double Couple:Mo=4.5*10**16
 NP1:Strike=332 Dip=17 Slip=-87
 NP2: 149 73 -91

13 05 03 35.42 23.368S 177.587W 94km
 4.8mb (8 obs.)
 SOUTH OF FIJI ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 11S, 21C
 Centroid Location:
 Origin Time 05:03:32.6 1.1
 Lat 24.12S 0.13 Lon 177.92W 0.14
 Dep 24.1 7.5 Half-duration 1.4
 Principal Axes:
 Scale 10**16 Nm
 T Val= 4.62 Plg=21 Azm=100
 N 0.81 22 2
 P -5.43 59 230
 Best Double Couple:Mo=5.0*10**16
 NP1:Strike=224 Dip=31 Slip=-44
 NP2: 353 69 -113

10 18 24 34.14 40.595N 145.235E 38km
 5.7mb (82 obs.) 5.0Msz (5 obs.)
 OFF EAST COAST OF HONSHU, JAPAN
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 27C
 Centroid Location:
 Origin Time 18:24:32.5 0.4
 Lat 40.60N 0.04 Lon 145.34E 0.05
 Dep 18.0 BDY Half-duration 2.1
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.85 Plg= 3 Azm=279
 N 0.16 2 189
 P -2.01 86 63
 Best Double Couple:Mo=1.9*10**17
 NP1:Strike= 12 Dip=42 Slip=-87
 NP2: 187 48 -93

12 11 02 28.29 3.861S 81.444W 33km
 5.2mb (30 obs.)
 NEAR COAST OF NORTHERN PERU
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 9S, 14C
 Centroid Location:
 Origin Time 11:02:31.8 0.7
 Lat 3.45S 0.13 Lon 82.16W 0.11
 Dep 15.0 FIX Half-duration 1.5
 Principal Axes:
 Scale 10**16 Nm
 T Val= 4.74 Plg=59 Azm= 4
 N 2.93 17 125
 P -7.67 25 224
 Best Double Couple:Mo=6.2*10**16
 NP1:Strike=347 Dip=25 Slip= 135
 NP2: 119 72 72

13 06 19 13.42 23.484S 177.520W 80km
 4.9mb (7 obs.)
 SOUTH OF FIJI ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 25C
 Centroid Location:
 Origin Time 06:19:12.1 1.1
 Lat 23.86S 0.09 Lon 177.35W 0.11
 Dep 15.0 FIX Half-duration 1.6
 Principal Axes:
 Scale 10**16 Nm
 T Val= 9.73 Plg=24 Azm=101
 N -0.70 2 10
 P -9.03 66 276
 Best Double Couple:Mo=9.4*10**16
 NP1:Strike=195 Dip=21 Slip=-85
 NP2: 9 69 -92

10 22 20 33.85 6.093N 76.623W 56km
 5.1mb (56 obs.)
 NORTHERN COLOMBIA
 CENTROID, MOMENT TENSOR (HRV)

12 12 18 11.97 15.610N 94.597W 40km
 5.7mb (54 obs.) 5.6Msz (18 obs.)

13 06 32 00.79 31.84 S 177.55 W 33km
 4.9mb (3 obs.) 5.7msz (2 obs.)
 KERMADEC ISLANDS REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 7S, 13C
 Centroid Location:
 Origin Time 06:31:59.6 1.9
 Lat 30.98S 0.23 Lon 176.55W 0.29
 Dep 15.0 FIX Half-duration 2.0
 Principal Axes:
 Scale 10**17 Nm
 T Val= 2.40 Plg=18 Azm=109
 N -0.13 24 11
 P -2.27 59 232
 Best Double Couple:Mo=2.3*10**17
 NP1:Strike=232 Dip=34 Slip=-43
 NP2: 0 67 -116

13 06 56 32.87 12.301N 87.432W 60km
 5.1mb (43 obs.)
 NEAR COAST OF NICARAGUA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 29C
 Centroid Location:
 Origin Time 06:56:32.8 0.5
 Lat 11.92N 0.07 Lon 87.80W 0.09
 Dep 33.1 4.1 Half-duration 2.3
 Principal Axes:
 Scale 10**17 Nm
 T Val= 2.39 Plg=57 Azm= 81
 N 0.36 22 312
 P -2.76 23 212
 Best Double Couple:Mo=2.6*10**17
 NP1:Strike=266 Dip=30 Slip= 40
 NP2: 140 71 114

13 07 40 20.10 23.771S 177.301W 50km
 5.2mb (7 obs.) 5.3msz (3 obs.)
 SOUTH OF FIJI ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 11S, 23C
 Centroid Location:
 Origin Time 07:40:21.3 0.7
 Lat 24.11S 0.06 Lon 177.48W 0.06
 Dep 16.2 2.6 Half-duration 2.4
 Principal Axes:
 Scale 10**17 Nm
 T Val= 3.03 Plg=15 Azm=103
 N 0.56 23 6
 P -3.59 62 224
 Best Double Couple:Mo=3.3*10**17
 NP1:Strike=222 Dip=36 Slip=-48
 NP2: 354 64 -116

13 08 21 49.09 23.778S 177.325W 32km
 5.8mb (35 obs.) 6.0msz (22 obs.)
 SOUTH OF FIJI ISLANDS
 FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=288 Dip=86 Slip= 22
 NP2: 196 68 176
 Principal Axes:
 T Plg=18 Azm=154
 P 12 60
 Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting with a moderate reverse component. The preferred fault plane is not determined.
 MOMENT TENSOR SOLUTION
 Dep 22 No. of sto: 10
 Principal Axes:
 Scale 10**18 Nm
 T Val= 1.82 Plg= 8 Azm=306
 N -0.05 21 213
 P -1.78 67 57
 Best Double Couple:Mo=1.8*10**18
 NP1:Strike= 59 Dip=41 Slip=-57
 NP2: 198 57 -115
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN, 1DA
 L.P.B.: 14S, 35C M.W.: 12S, 27C
 Centroid Location:
 Origin Time 08:21:49.9 0.3
 Lat 24.02S 0.02 Lon 177.12W 0.02
 Dep 15.0 FIX Half-duration 4.7
 Principal Axes:
 Scale 10**18 Nm
 T Val= 1.74 Plg= 4 Azm=291

N 0.23 9 22
 P -1.97 80 177
 Best Double Couple:Mo=1.9*10**18
 NP1:Strike= 12 Dip=42 Slip=-103
 NP2: 210 50 -78
 13 10 28 13.76 15.624S 74.276W 66km
 5.3mb (17 obs.)
 NEAR COAST OF PERU
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 29C
 Centroid Location:
 Origin Time 10:28:24.4 0.9
 Lat 15.57S 0.10 Lon 74.72W 0.12
 Dep 97.2 7.4 Half-duration 1.6
 Principal Axes:
 Scale 10**16 Nm
 T Val= 11.47 Plg=22 Azm=211
 N 0.94 42 100
 P -12.41 40 321
 Best Double Couple:Mo=1.2*10**17
 NP1:Strike=349 Dip=44 Slip=-15
 NP2: 90 79 -133

14 04 25 58.15 10.693N 138.954E 20km
 5.3mb (22 obs.) 4.2msz (2 obs.)
 WEST CAROLINE ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 8S, 13C
 Centroid Location:
 Origin Time 04:26: 1.3 1.5
 Lat 10.38N 0.13 Lon 138.85E 0.15
 Dep 15.0 FIX Half-duration 1.3
 Principal Axes:
 Scale 10**16 Nm
 T Val= 3.80 Plg=10 Azm= 67
 N 0.70 24 333
 P -4.50 63 177
 Best Double Couple:Mo=4.1*10**16
 NP1:Strike=184 Dip=41 Slip=-51
 NP2: 317 59 -119

14 05 35 58.93 13.157N 143.822E 147km
 5.2mb (29 obs.)
 SOUTH OF MARIANA ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 9S, 20C
 Centroid Location:
 Origin Time 05:35:59.4 1.0
 Lat 12.61N 0.08 Lon 143.77E 0.11
 Dep 135.8 3.9 Half-duration 1.6
 Principal Axes:
 Scale 10**16 Nm
 T Val= 9.70 Plg=43 Azm= 26
 N -2.00 20 136
 P -7.70 40 244
 Best Double Couple:Mo=8.7*10**16
 NP1:Strike= 41 Dip=20 Slip= 175
 NP2: 136 88 70

14 06 10 04.97 23.520S 177.467W 40km
 5.3mb (22 obs.) 5.4msz (2 obs.)
 SOUTH OF FIJI ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 14S, 31C
 Centroid Location:
 Origin Time 06:10: 6.1 0.5
 Lat 23.91S 0.03 Lon 177.37W 0.04
 Dep 16.6 1.6 Half-duration 2.5
 Principal Axes:
 Scale 10**17 Nm
 T Val= 3.34 Plg= 5 Azm=111
 N -0.07 13 20
 P -3.26 76 221
 Best Double Couple:Mo=3.3*10**17
 NP1:Strike=215 Dip=42 Slip=-71
 NP2: 10 51 -107

14 20 18 37.62 38.897S 92.203W 10km
 5.4mb (18 obs.) 5.6msz (6 obs.)
 WEST CHILE RISE
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 30C
 Centroid Location:
 Origin Time 20:18:42.8 0.2
 Lat 39.13S 0.03 Lon 92.18W 0.04
 Dep 15.0 FIX Half-duration 3.3
 Principal Axes:

Scale 10**17 Nm
 T Val= 8.48 Plg=13 Azm= 44
 N -2.86 76 195
 P -5.62 7 313
 Best Double Couple:Mo=7.1*10**17
 NP1:Strike= 88 Dip=76 Slip= 176
 NP2: 179 86 14

15 05 11 17.02 15.609N 94.581W 40km
 5.6mb (71 obs.) 5.5msz (14 obs.)
 NEAR COAST OF OAXACA, MEXICO
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 14S, 30C
 Centroid Location:
 Origin Time 05:11:18.4 0.3
 Lat 15.63N 0.04 Lon 94.83W 0.04
 Dep 39.8 2.0 Half-duration 3.3
 Principal Axes:
 Scale 10**17 Nm
 T Val= 6.91 Plg=67 Azm= 59
 N 1.11 7 313
 P -8.02 22 220
 Best Double Couple:Mo=7.5*10**17
 NP1:Strike=297 Dip=24 Slip= 73
 NP2: 136 67 98

15 06 03 02.22 24.285S 70.557W 24km
 5.0mb (12 obs.) 5.2msz (1 obs.)
 NEAR COAST OF NORTHERN CHILE
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 22C
 Centroid Location:
 Origin Time 06:03: 6.9 0.7
 Lat 24.44S 0.12 Lon 70.54W 0.16
 Dep 15.0 FIX Half-duration 1.9
 Principal Axes:
 Scale 10**17 Nm
 T Val= 2.12 Plg=52 Azm= 89
 N -0.29 16 337
 P -1.83 34 236
 Best Double Couple:Mo=2.0*10**17
 NP1:Strike=279 Dip=19 Slip= 30
 NP2: 160 81 106

15 11 35 24.55 18.766N 146.949E 52km
 5.3mb (23 obs.)
 MARIANA ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 23C
 Centroid Location:
 Origin Time 11:35:25.5 0.8
 Lat 18.79N 0.11 Lon 146.72E 0.16
 Dep 15.0 BDY Half-duration 1.7
 Principal Axes:
 Scale 10**16 Nm
 T Val= 9.59 Plg=47 Azm=310
 N 2.96 0 41
 P -12.55 43 131
 Best Double Couple:Mo=1.1*10**17
 NP1:Strike=236 Dip= 2 Slip= 105
 NP2: 41 88 90

15 16 14 46.20 10.365S 91.617E 10km
 5.6mb (54 obs.) 4.8msz (6 obs.)
 SOUTH INDIAN OCEAN
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 27C
 Centroid Location:
 Origin Time 16:14:47.6 0.4
 Lat 9.91S 0.06 Lon 91.46E 0.06
 Dep 15.0 FIX Half-duration 2.1
 Principal Axes:
 Scale 10**17 Nm
 T Val= 2.10 Plg=63 Azm=291
 N 0.30 5 30
 P -2.40 27 122
 Best Double Couple:Mo=2.3*10**17
 NP1:Strike=224 Dip=19 Slip= 105
 NP2: 28 72 85

15 21 42 17.16 5.314S 151.488E 63km
 5.7mb (31 obs.)
 NEW BRITAIN REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 32C
 Centroid Location:
 Origin Time 21:42:22.2 0.3
 Lat 5.53S 0.03 Lon 151.54E 0.04

Dep 31.0 BDY Half-duration 2.2
 Principal Axes:
 Scale 10**17 Nm
 T Val= 2.56 Plg=66 Azm= 32
 N -0.08 12 272
 P -2.49 20 177
 Best Double Couple:Mo=2.5*10**17
 NP1:Strike=247 Dip=27 Slip= 62
 NP2: 97 66 103

16 03 50 16.43 16.337S 172.627W 33km
 5.0mb (14 obs.) 4.8Msz (1 obs.)
 SAMOA ISLANDS REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 23C
 Centroid Location:
 Origin Time 03:50:22.2 0.8
 Lat 16.31S 0.09 Lon 172.45W 0.09
 Dep 15.0 FIX Half-duration 1.7
 Principal Axes:
 Scale 10**16 Nm
 T Val= 12.59 Plg=65 Azm=309
 N -0.37 6 206
 P -12.22 25 114
 Best Double Couple:Mo=1.2*10**17
 NP1:Strike=191 Dip=21 Slip= 74
 NP2: 28 70 96

16 12 21 39.03 6.441S 147.652E 24km
 5.8mb (23 obs.) 5.5Msz (10 obs.)
 EAST PAPUA NEW GUINEA REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 24C
 Centroid Location:
 Origin Time 12:21:44.1 0.4
 Lat 6.73S 0.06 Lon 147.42E 0.06
 Dep 15.0 FIX Half-duration 2.2
 Principal Axes:
 Scale 10**17 Nm
 T Val= 2.03 Plg=16 Azm=337
 N 0.22 29 238
 P -2.26 56 93
 Best Double Couple:Mo=2.1*10**17
 NP1:Strike=102 Dip=38 Slip= -39
 NP2: 225 67 -122

16 12 33 35.85 6.414S 147.645E 29km
 5.5mb (29 obs.) 5.5Msz (7 obs.)
 EAST PAPUA NEW GUINEA REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 10S, 24C
 Centroid Location:
 Origin Time 12:33:42.1 0.8
 Lat 6.78S 0.11 Lon 147.10E 0.13
 Dep 15.0 FIX Half-duration 2.2
 Principal Axes:
 Scale 10**17 Nm
 T Val= 2.60 Plg=19 Azm=334
 N 0.61 22 236
 P -3.21 61 101
 Best Double Couple:Mo=2.9*10**17
 NP1:Strike= 95 Dip=33 Slip= -46
 NP2: 226 67 -114

16 14 35 45.62 14.604S 167.249E 189km
 5.0mb (21 obs.)
 VANUATU ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 8S, 13C
 Centroid Location:
 Origin Time 14:35:40.2 2.6
 Lat 14.79S 0.23 Lon 167.44E 0.21
 Dep 162.6 4.7 Half-duration 1.4
 Principal Axes:
 Scale 10**16 Nm
 T Val= 5.69 Plg=83 Azm=155
 N -2.75 7 0
 P -2.94 3 270
 Best Double Couple:Mo=4.3*10**16
 NP1:Strike=352 Dip=42 Slip= 80
 NP2: 186 49 99

16 15 49 36.99 6.446S 147.603E 26km
 5.7mb (27 obs.) 6.1Msz (19 obs.)
 EAST PAPUA NEW GUINEA REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 31C
 Centroid Location:

Origin Time 15:49:43.8 0.2
 Lat 6.66S 0.03 Lon 147.42E 0.03
 Dep 15.0 FIX Half-duration 3.6
 Principal Axes:
 Scale 10**17 Nm
 T Val= 11.06 Plg=10 Azm=327
 N -0.63 16 233
 P -10.43 70 87
 Best Double Couple:Mo=1.1*10**18
 NP1:Strike= 76 Dip=37 Slip= -62
 NP2: 223 57 -110

16 16 39 56.29 10.900S 165.942E 57km
 5.4mb (24 obs.)
 SANTA CRUZ ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 10S, 25C
 Centroid Location:
 Origin Time 16:40: 0.3 0.5
 Lat 11.11S 0.05 Lon 165.75E 0.05
 Dep 43.4 2.9 Half-duration 2.5
 Principal Axes:
 Scale 10**17 Nm
 T Val= 3.47 Plg=77 Azm=148
 N 0.17 12 337
 P -3.64 2 247
 Best Double Couple:Mo=3.6*10**17
 NP1:Strike=324 Dip=45 Slip= 72
 NP2: 168 48 107

16 17 20 44.64 53.355N 167.248W 10km
 5.1mb (23 obs.) 5.0Msz (1 obs.)
 FOX ISLANDS, ALEUTIAN ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 9S, 19C
 Centroid Location:
 Origin Time 17:20:51.5 0.8
 Lat 53.38N FIX; Lon 167.20W FIX
 Dep 15.0 FIX Half-duration 1.8
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.43 Plg=20 Azm=273
 N 0.37 16 9
 P -1.80 64 135
 Best Double Couple:Mo=1.6*10**17
 NP1:Strike=337 Dip=29 Slip=-125
 NP2: 196 67 -72

18 00 22 49.12 2.114N 126.571E 30km
 5.8mb (39 obs.) 5.5Msz (10 obs.)
 MOLUCCA PASSAGE
 FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=205 Dip=55 Slip= 90
 NP2: 25 35 90
 Principal Axes:
 T Plg=80 Azm=115
 P 10 295
 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: 11
 Principal Axes:
 Scale 10**18 Nm
 T Val= 1.29 Plg=80 Azm=158
 N -0.01 10 348
 P -1.28 2 257
 Best Double Couple:Mo=1.3*10**18
 NP1:Strike=337 Dip=44 Slip= 75
 NP2: 177 48 104

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 11S, 29C
 Centroid Location:
 Origin Time 00:22:55.6 0.2
 Lat 1.96N 0.03 Lon 126.55E 0.04
 Dep 29.5 2.2 Half-duration 4.1
 Principal Axes:
 Scale 10**18 Nm
 T Val= 1.47 Plg=77 Azm=151
 N 0.05 7 30
 P -1.52 12 299
 Best Double Couple:Mo=1.5*10**18
 NP1:Strike= 20 Dip=34 Slip= 78
 NP2: 215 57 98

18 03 36 30.33 32.034N 131.837E 54km
 6.4mb (102 obs.)
 KYUSHU, JAPAN

FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=194 Dip=72 Slip= -55
 NP2: 308 39 -150
 Principal Axes:
 T Plg=19 Azm=259
 P 50 143
 Comment: The focal mechanism is moderately well controlled and corresponds to normal faulting with a large strike-slip component. The preferred fault plane is not determined.

RADIATED ENERGY
 No. of sta: 5 Focal mech. C
 Energy 1.1±0.3*10**14 Nm
 MOMENT TENSOR SOLUTION
 Dep 36 No. of sta: 16
 Principal Axes:
 Scale 10**18 Nm
 T Val= 10.07 Plg=22 Azm=294
 N -0.90 42 182
 P -9.17 40 44
 Best Double Couple:Mo=9.6*10**18
 NP1:Strike= 71 Dip=44 Slip= -15
 NP2: 172 79 -133
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN, IDA
 L.P.B.: 14S, 35C M.W.: 13S, 30C
 Centroid Location:
 Origin Time 03:36:34.1 0.1
 Lat 31.94N 0.01 Lon 131.77E 0.01
 Dep 38.0 0.8 Half-duration 8.0
 Principal Axes:
 Scale 10**18 Nm
 T Val= 11.88 Plg=19 Azm=267
 N -0.36 6 359
 P -11.52 71 106
 Best Double Couple:Mo=1.2*10**19
 NP1:Strike=348 Dip=27 Slip=-103
 NP2: 182 64 -84

18 08 52 48.40 30.188S 177.612W 28km
 5.3mb (11 obs.) 5.0Msz (5 obs.)
 KERMADEC ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 11S, 26C
 Centroid Location:
 Origin Time 08:52:57.0 1.0
 Lat 30.06S 0.08 Lon 177.66W 0.09
 Dep 47.3 5.7 Half-duration 2.4
 Principal Axes:
 Scale 10**17 Nm
 T Val= 2.63 Plg=73 Azm=260
 N 0.54 7 15
 P -3.17 15 107
 Best Double Couple:Mo=2.9*10**17
 NP1:Strike=207 Dip=31 Slip= 104
 NP2: 11 60 82

19 01 28 52.17 6.775N 76.506W 10km
 5.7mb (76 obs.) 4.2Msz (2 obs.)
 NORTHERN COLOMBIA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 12S, 27C
 Centroid Location:
 Origin Time 01:29: 1.3 1.0
 Lat 7.13N 0.08 Lon 76.30W 0.12
 Dep 15.0 BDY Half-duration 1.6
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.37 Plg=61 Azm=104
 N 0.07 5 202
 P -1.44 29 295
 Best Double Couple:Mo=1.4*10**17
 NP1:Strike= 38 Dip=17 Slip= 106
 NP2: 201 74 85

19 14 32 15.65 23.664N 64.688E 10km
 5.1mb (24 obs.) 4.2Msz (1 obs.)
 NEAR COAST OF PAKISTAN
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 14S, 21C
 Centroid Location:
 Origin Time 14:32:16.6 1.0
 Lat 23.27N 0.14 Lon 64.48E 0.15
 Dep 35.7 9.2 Half-duration 1.2
 Principal Axes:
 Scale 10**16 Nm
 T Val= 3.17 Plg=10 Azm=337
 N 0.97 31 73

P -4.14 57 232
Best Double Couple:Mo=3.6*10**16
NP1:Strike= 35 Dip=45 Slip=-138
NP2: 272 62 -54

19 17 14 41.25 14.898S 167.225E 150km
5.5mb (38 obs.)
VANUATU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 27C
Centroid Location:
Origin Time 17:14:44.9 0.4
Lat 14.94S 0.03 Lon 166.96E 0.03
Dep 142.5 0.9 Half-duration 2.9
Principal Axes:
Scale 10**17 Nm
T Vol= 5.70 P1g=45 Azm=157
N -1.03 45 343
P -4.67 3 250
Best Double Couple:Mo=5.2*10**17
NP1:Strike=304 Dip=57 Slip= 33
NP2: 195 63 143

19 21 27 50.11 29.229N 137.907E 537km
5.3mb (69 obs.)
SOUTH OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 24C
Centroid Location:
Origin Time 21:27:52.9 0.4
Lat 29.26N 0.03 Lon 137.80E 0.05
Dep 524.0 2.8 Half-duration 2.6
Principal Axes:
Scale 10**17 Nm
T Vol= 3.72 P1g=24 Azm=342
N -0.38 65 143
P -3.33 7 249
Best Double Couple:Mo=3.5*10**17
NP1:Strike= 23 Dip=68 Slip= 168
NP2: 118 79 22

19 22 51 39.28 20.397S 176.134W 214km
5.9mb (46 obs.)
FIJI ISLANDS REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 25 Dip=82 Slip= -55
NP2: 126 36 -166
Principal Axes:
T P1g=28 Azm= 88
P 42 328
Comment: The focal mechanism is poorly controlled and corresponds to normal faulting with a large strike-slip component. The preferred fault plane is NP1.
RADIATED ENERGY
No. of sta: 5 Focal mech. M
Energy 3.2±1.1*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 226 No. of sta: 13
Principal Axes:
Scale 10**18 Nm
T Vol= 8.47 P1g=38 Azm=121
N 0.51 8 25
P -8.97 51 284
Best Double Couple:Mo=8.7*10**18
NP1:Strike=256 Dip=11 Slip= -38
NP2: 24 84 -98
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN, IDA
L.P.B.: 12S, 32C M.W.: 11S, 24C
Centroid Location:
Origin Time 22:51:45.9 0.1
Lat 20.30S 0.01 Lon 175.96W 0.01
Dep 215.3 0.7 Half-duration 7.5
Principal Axes:
Scale 10**18 Nm
T Vol= 8.08 P1g=38 Azm=126
N -0.28 17 22
P -7.80 47 273
Best Double Couple:Mo=7.9*10**18
NP1:Strike=275 Dip=17 Slip= -16
NP2: 21 85 -107

21 10 41 35.97 52.056N 177.547W 93km
6.0mb (96 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 95 Dip=85 Slip= 95
NP2: 230 7 45

Principal Axes:
T P1g=50 Azm= 10
P 40 180
Comment: The focal mechanism is poorly controlled and corresponds to normal faulting with a small right-lateral strike-slip component. The preferred fault plane is NP1.
RADIATED ENERGY
No. of sta: 5 Focal mech. C
Energy 1.6±0.5*10**14 Nm
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN, IDA
L.P.B.: 15S, 38C M.W.: 11S, 21C
Centroid Location:
Origin Time 10:41:39.7 0.3
Lat 52.03N 0.01 Lon 177.38W 0.05
Dep 84.5 4.8 Half-duration 5.9
Principal Axes:
Scale 10**18 Nm
T Vol= 4.19 P1g=43 Azm=208
N 0.07 13 106
P -4.26 44 3
Best Double Couple:Mo=4.2*10**18
NP1:Strike= 12 Dip=13 Slip= -3
NP2: 105 89 -103

21 12 08 58.87 8.816N 83.404W 24km
5.3mb (44 obs.) 5.3msz (3 obs.)
COSTA RICA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 20C
Centroid Location:
Origin Time 12:09: 5.7 1.1
Lat 8.77N FIX;Lon 83.44W FIX
Dep 33.0 FIX Half-duration 3.0
Principal Axes:
Scale 10**17 Nm
T Vol= 4.68 P1g=22 Azm=147
N 1.91 47 263
P -6.59 35 41
Best Double Couple:Mo=5.6*10**17
NP1:Strike=189 Dip=48 Slip=-169
NP2: 91 82 -43

22 02 49 15.90 51.594N 173.574W 20km
5.9mb (94 obs.) 6.0msz (23 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 70 Dip=72 Slip= 90
NP2: 250 18 90
Principal Axes:
T P1g=63 Azm=340
P 27 160
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
RADIATED ENERGY
No. of sta: 7 Focal mech. C
Energy 2.7±0.8*10**13 Nm
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 34C
Centroid Location:
Origin Time 02:49:21.5 0.2
Lat 51.66N 0.02 Lon 173.40W 0.04
Dep 23.2 1.4 Half-duration 4.7
Principal Axes:
Scale 10**18 Nm
T Vol= 1.94 P1g=68 Azm=320
N 0.12 5 64
P -2.06 21 156
Best Double Couple:Mo=2.0*10**18
NP1:Strike=256 Dip=25 Slip= 103
NP2: 62 66 84

22 03 23 57.63 24.058S 70.142W 40km
5.8mb (60 obs.) 5.8msz (3 obs.)
NEAR COAST OF NORTHERN CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 30C
Centroid Location:
Origin Time 03:24: 7.3 0.3
Lat 23.92S 0.05 Lon 70.61W 0.04
Dep 45.3 3.2 Half-duration 4.1
Principal Axes:
Scale 10**17 Nm
T Vol= 14.26 P1g=55 Azm= 38

N -0.40 25 170
P -13.85 23 271
Best Double Couple:Mo=1.4*10**18
NP1:Strike= 40 Dip=32 Slip= 145
NP2: 161 72 63

22 12 12 35.62 37.160S 176.702E 359km
4.9mb (18 obs.)
NORTH ISLAND, NEW ZEALAND
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 27C
Centroid Location:
Origin Time 12:12:40.2 0.5
Lat 36.95S 0.06 Lon 176.69E 0.07
Dep 360.1 2.8 Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Vol= 1.62 P1g=40 Azm= 34
N -0.12 39 167
P -1.50 26 280
Best Double Couple:Mo=1.6*10**17
NP1:Strike= 60 Dip=40 Slip= 167
NP2: 160 82 51

22 17 45 04.61 52.094N 171.453W 33km
5.3mb (60 obs.) 4.9msz (8 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 27C
Centroid Location:
Origin Time 17:45: 6.4 0.4
Lat 51.96N 0.04 Lon 171.23W 0.09
Dep 46.8 3.0 Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Vol= 1.45 P1g=76 Azm=340
N 0.39 1 76
P -1.84 14 166
Best Double Couple:Mo=1.6*10**17
NP1:Strike=258 Dip=31 Slip= 93
NP2: 75 59 88

23 04 58 19.31 31.974N 131.899E 50km
5.2mb (35 obs.) 5.1msz (5 obs.)
KYUSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 18C
Centroid Location:
Origin Time 04:58:37.1 1.9
Lat 32.60N 0.13 Lon 130.56E 0.13
Dep 45.7 7.1 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Vol= 8.68 P1g= 0 Azm= 93
N -3.03 16 3
P -5.66 74 184
Best Double Couple:Mo=7.2*10**16
NP1:Strike=198 Dip=47 Slip= -68
NP2: 348 47 -111

23 20 48 00.18 34.014S 72.079W 58km
4.8mb (14 obs.)
NEAR COAST OF CENTRAL CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 22C
Centroid Location:
Origin Time 20:47:59.5 0.7
Lat 34.32S 0.08 Lon 72.84W 0.09
Dep 51.2 5.2 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Vol= 6.11 P1g=66 Azm= 28
N 0.89 22 184
P -7.00 9 277
Best Double Couple:Mo=6.6*10**16
NP1:Strike= 31 Dip=41 Slip= 125
NP2: 169 58 64

24 12 49 47.02 37.447N 137.865E 23km
5.7mb (88 obs.) 5.1msz (7 obs.)
NEAR WEST COAST OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 25C
Centroid Location:
Origin Time 12:49:50.4 0.3
Lat 37.39N 0.03 Lon 137.77E 0.04
Dep 20.7 1.6 Half-duration 2.6
Principal Axes:

Scale 10**17 Nm
T Val= 3.60 Plg=79 Azm=166
N -0.12 11 5
P -3.48 4 274
Best Double Couple:Ma=3.5*10**17
NP1:Strike=353 Dip=42 Slip= 74
NP2: 194 50 104

26 01 05 15.98 55.938S 27.748W 110km
5.2mb (7 obs.)
SOUTH SANDWICH ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 19C
Centroid Location:
Origin Time 01:05:20.2 0.9
Lat 55.81S 0.08 Lon 28.19W 0.19
Dep 135.3 4.4 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 10.13 Plg=40 Azm=169
N -3.18 41 306
P -6.94 23 58
Best Double Couple:Ma=8.5*10**16
NP1:Strike=196 Dip=43 Slip= 165
NP2: 297 80 48

26 06 47 10.64 21.517S 173.801W 20km
5.4mb (30 obs.) 5.3Msz (3 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 26C
Centroid Location:
Origin Time 06:47:19.3 0.4
Lat 21.32S 0.05 Lon 173.75W 0.03
Dep 31.0 BDY Half-duration 2.5
Principal Axes:
Scale 10**17 Nm
T Val= 2.91 Plg=75 Azm=272
N 0.83 2 176
P -3.75 15 85
Best Double Couple:Ma=3.3*10**17
NP1:Strike=173 Dip=30 Slip= 87
NP2: 356 60 92

26 11 56 54.21 41.691N 69.843E 20km
5.1mb (49 obs.) 4.3Msz (2 obs.)
KIRGHIZ SSR
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 22C
Centroid Location:
Origin Time 11:57: 1.4 1.2
Lat 42.44N 0.21 Lon 70.02E 0.20
Dep 15.0 FIX Half-duration 1.2
Principal Axes:
Scale 10**16 Nm
T Val= 7.47 Plg=57 Azm=318
N 0.08 4 221
P -7.55 33 129
Best Double Couple:Ma=7.5*10**16
NP1:Strike=203 Dip=13 Slip= 72
NP2: 42 78 94

26 16 17 38.18 13.731S 167.197E 191km
5.5mb (47 obs.)
VANUATU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 33C
Centroid Location:
Origin Time 16:17:44.6 0.2
Lat 13.78S 0.02 Lon 167.00E 0.02
Dep 193.5 0.6 Half-duration 4.6
Principal Axes:
Scale 10**18 Nm
T Val= 2.05 Plg=83 Azm= 71
N 0.07 0 337
P -2.12 7 247
Best Double Couple:Ma=2.1*10**18
NP1:Strike=336 Dip=38 Slip= 89
NP2: 157 52 91

26 18 32 25.96 21.390S 174.459W 81km
5.4mb (32 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 27C
Centroid Location:
Origin Time 18:32:26.4 0.3
Lat 21.59S 0.03 Lon 174.11W 0.03
Dep 16.5 1.5 Half-duration 4.0
Principal Axes:
Scale 10**17 Nm
T Val= 13.75 Plg=65 Azm=256
N 0.43 12 12
P -14.18 22 107
Best Double Couple:Ma=1.4*10**18
NP1:Strike=218 Dip=25 Slip= 118
NP2: 8 68 77

28 05 04 10.87 57.919S 25.386W 33km
5.5mb (10 obs.)
SOUTH SANDWICH ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 23C
Centroid Location:
Origin Time 05:04:18.3 0.5
Lat 57.86S 0.06 Lon 25.18W 0.12
Dep 38.3 4.2 Half-duration 1.7
Principal Axes:
Scale 10**17 Nm
T Val= 1.11 Plg=78 Azm=308
N -0.20 8 174
P -0.91 9 83
Best Double Couple:Ma=1.0*10**17
NP1:Strike=163 Dip=37 Slip= 76
NP2: 0 54 100

28 11 26 38.46 30.658N 131.328E 40km
5.1mb (36 obs.) 5.8Msz (9 obs.)
KYUSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 26C
Centroid Location:
Origin Time 11:26:41.6 0.4
Lat 30.73N 0.05 Lon 131.76E 0.06
Dep 15.0 FIX Half-duration 2.4
Principal Axes:
Scale 10**17 Nm
T Val= 4.44 Plg=60 Azm=321
N -0.02 14 205
P -4.42 26 108
Best Double Couple:Ma=4.4*10**17
NP1:Strike=168 Dip=23 Slip= 51
NP2: 29 73 105

28 23 31 58.32 5.275S 152.563E 54km
5.8mb (41 obs.) 5.2Msz (4 obs.)
NEW BRITAIN REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=170 Dip=47 Slip= -16
NP2: 271 78 -136
Principal Axes:
T Plg=20 Azm= 34
P 39 141
Comment: The focal mechanism is moderately well 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.: 12S, 27C
Centroid Location:
Origin Time 23:32: 1.0 0.4
Lat 5.58S 0.04 Lon 152.55E 0.03
Dep 56.3 4.3 Half-duration 2.5
Principal Axes:
Scale 10**17 Nm
T Val= 3.56 Plg=31 Azm= 22
N -0.01 34 268

P -3.54 41 144
Best Double Couple:Ma=3.6*10**17
NP1:Strike=167 Dip=34 Slip= -9
NP2: 265 85 -124

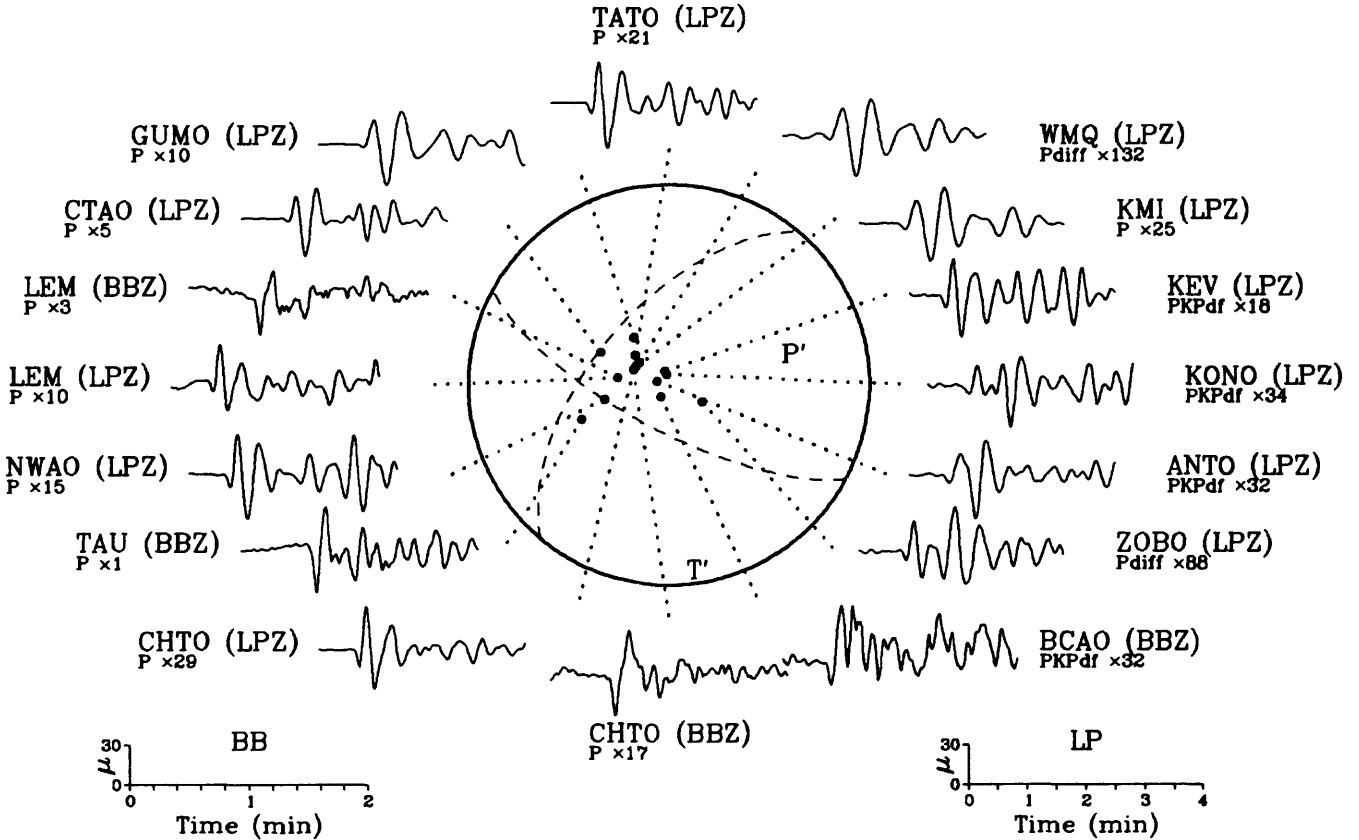
29 09 17 34.93 17.244S 167.886E 22km
5.3mb (19 obs.) 5.4Msz (10 obs.)
VANUATU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 25C
Centroid Location:
Origin Time 09:17:41.4 0.3
Lat 17.10S 0.03 Lon 167.63E 0.03
Dep 32.2 1.9 Half-duration 2.8
Principal Axes:
Scale 10**17 Nm
T Val= 3.97 Plg=74 Azm= 20
N 0.93 14 177
P -4.89 6 268
Best Double Couple:Ma=4.4*10**17
NP1:Strike= 14 Dip=41 Slip= 112
NP2: 165 53 72

30 03 13 40.97 74.618N 130.594W 10km
5.5mb (74 obs.) 4.6Msz (2 obs.)
BEAUFORT SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 22C
Centroid Location:
Origin Time 03:13:44.7 0.8
Lat 74.40N 0.10 Lon 133.12W 0.36
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 8.95 Plg=59 Azm=255
N 0.22 16 14
P -9.17 26 112
Best Double Couple:Ma=9.1*10**16
NP1:Strike=235 Dip=24 Slip= 134
NP2: 8 73 73

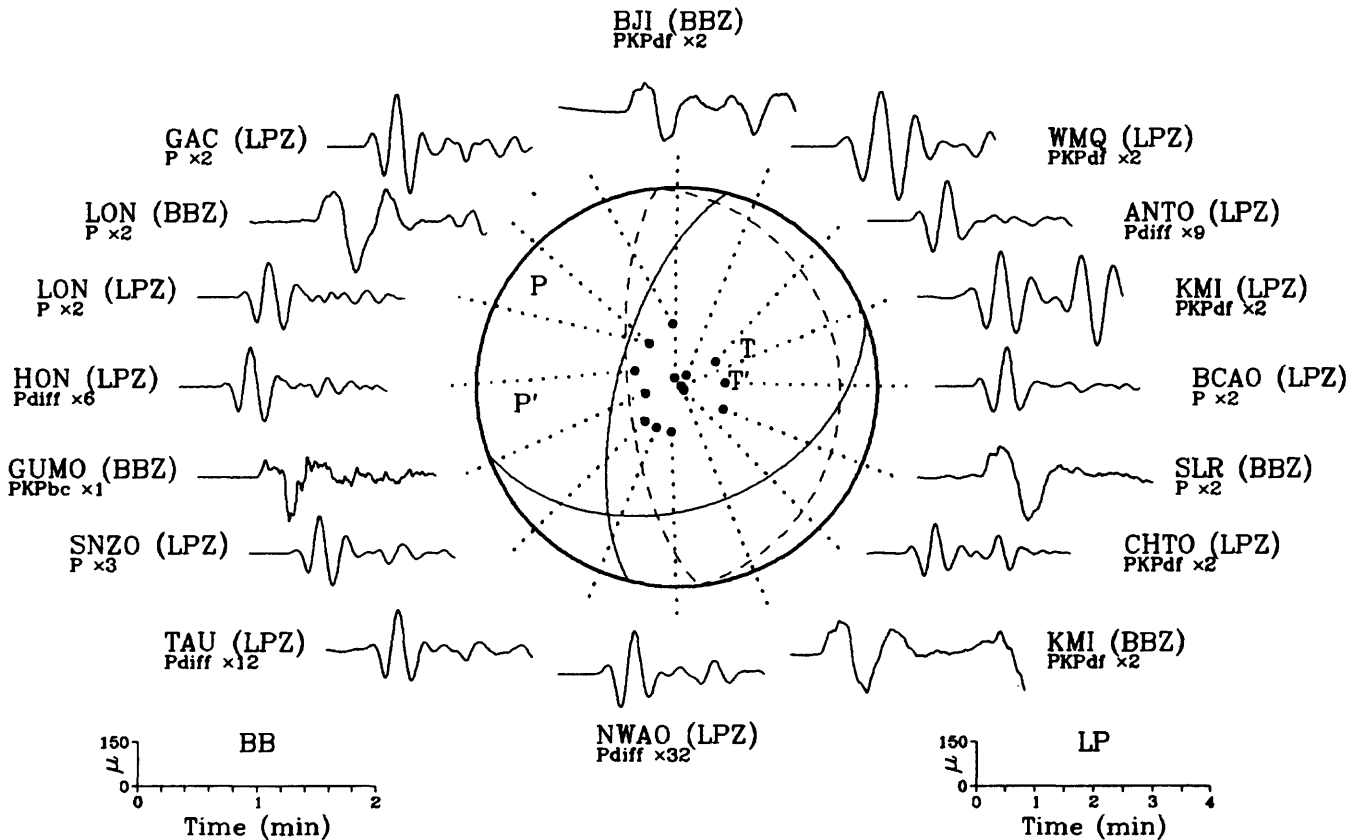
30 20 27 26.45 21.309S 174.165W 32km
5.0mb (14 obs.) 5.0Msz (1 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 18C
Centroid Location:
Origin Time 20:27:29.3 1.3
Lat 20.99S 0.14 Lon 174.11W 0.14
Dep 15.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Val= 10.24 Plg=56 Azm=328
N -0.46 10 223
P -9.78 32 127
Best Double Couple:Ma=1.0*10**17
NP1:Strike=185 Dip=16 Slip= 50
NP2: 45 78 100

31 01 18 36.87 53.182N 156.469E 175km
5.2mb (63 obs.)
KAMCHATKA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 23C
Centroid Location:
Origin Time 01:18:37.4 1.5
Lat 53.05N 0.11 Lon 156.62E 0.25
Dep 191.2 6.7 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 7.58 Plg=28 Azm=195
N -0.35 57 52
P -7.22 17 294
Best Double Couple:Ma=7.4*10**16
NP1:Strike=337 Dip=58 Slip= 8
NP2: 243 83 147

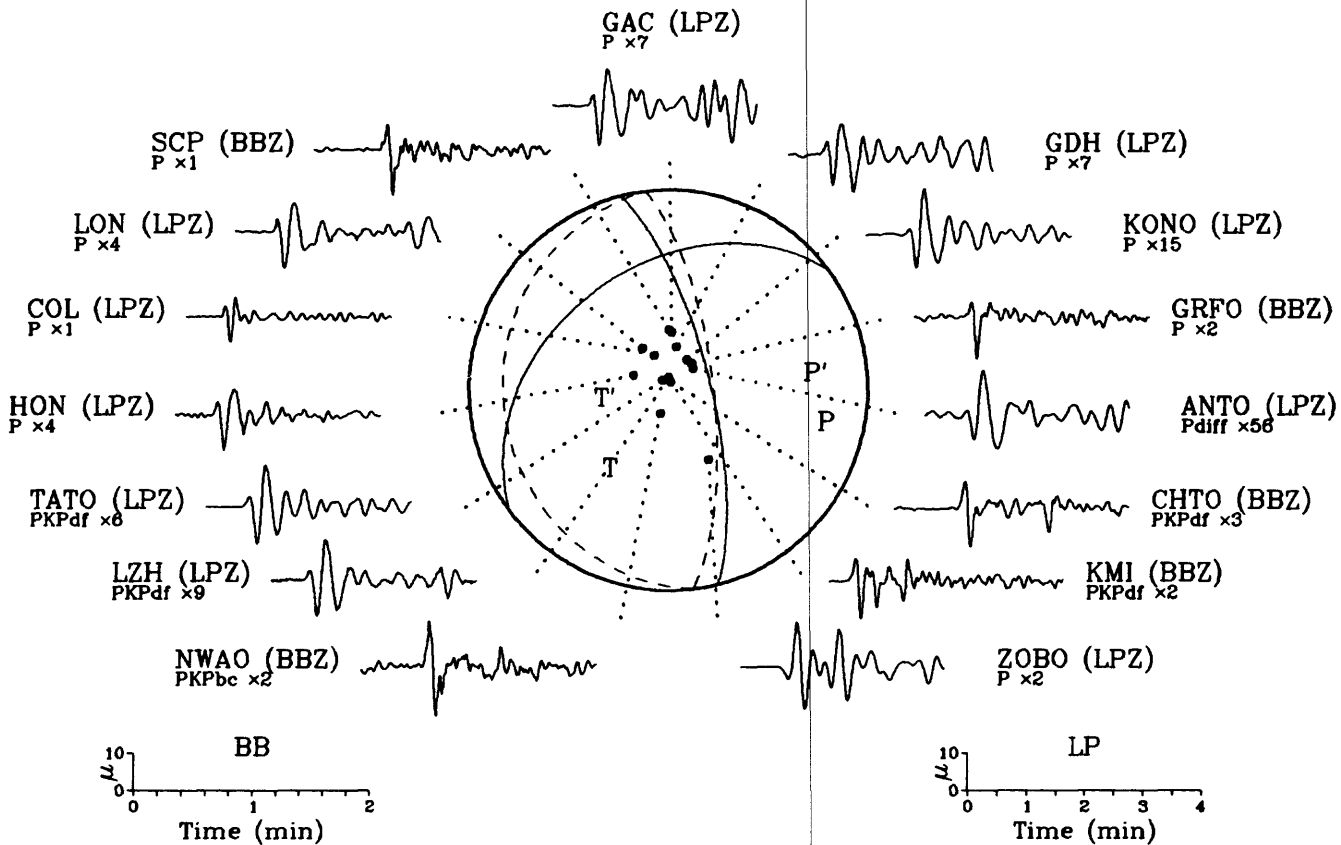
02 March 1987 01:42:34.11 North Island, New Zealand



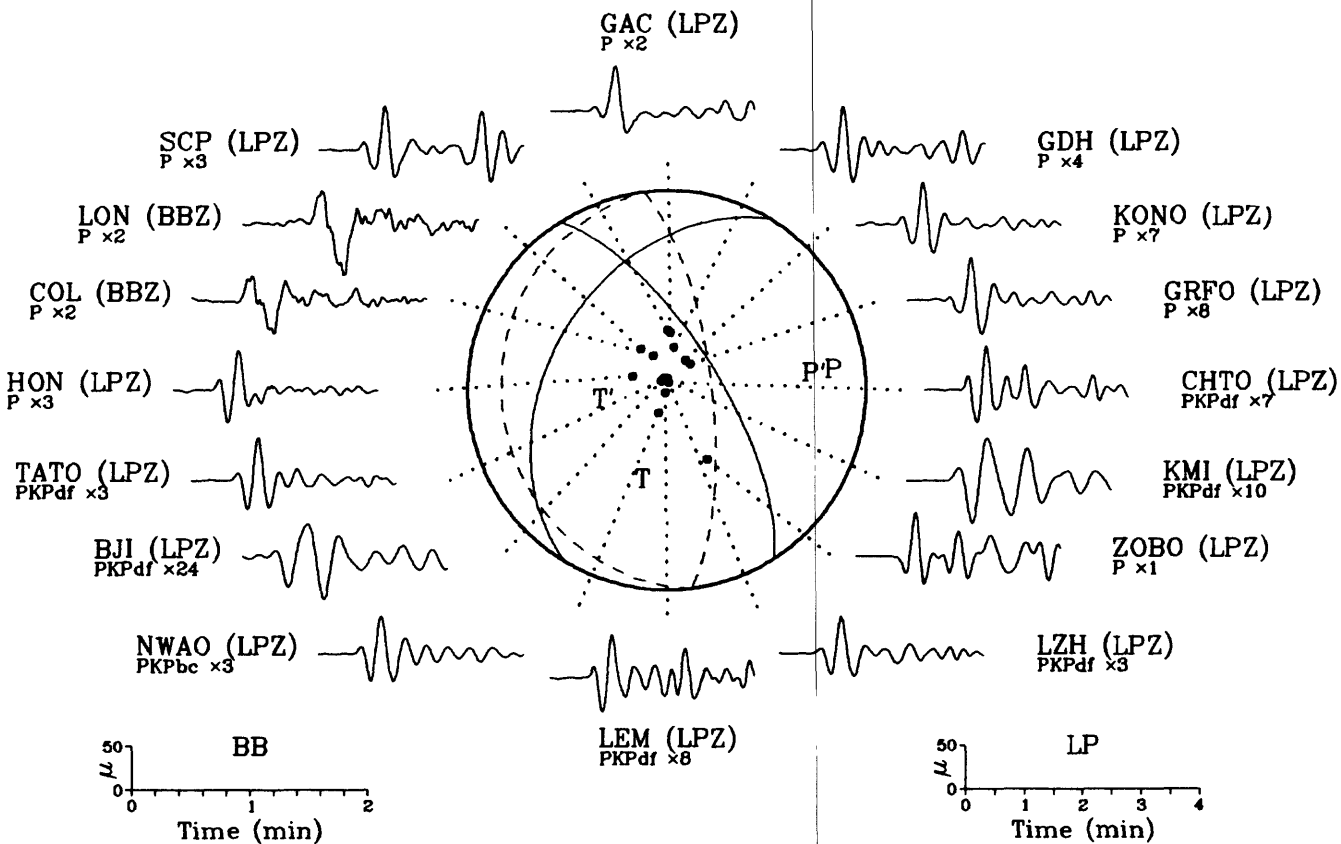
05 March 1987 09:17:05.28 Near Coast of Northern Chile



06 March 1987 01:54:50.49 Colombia-Ecuador Border Region

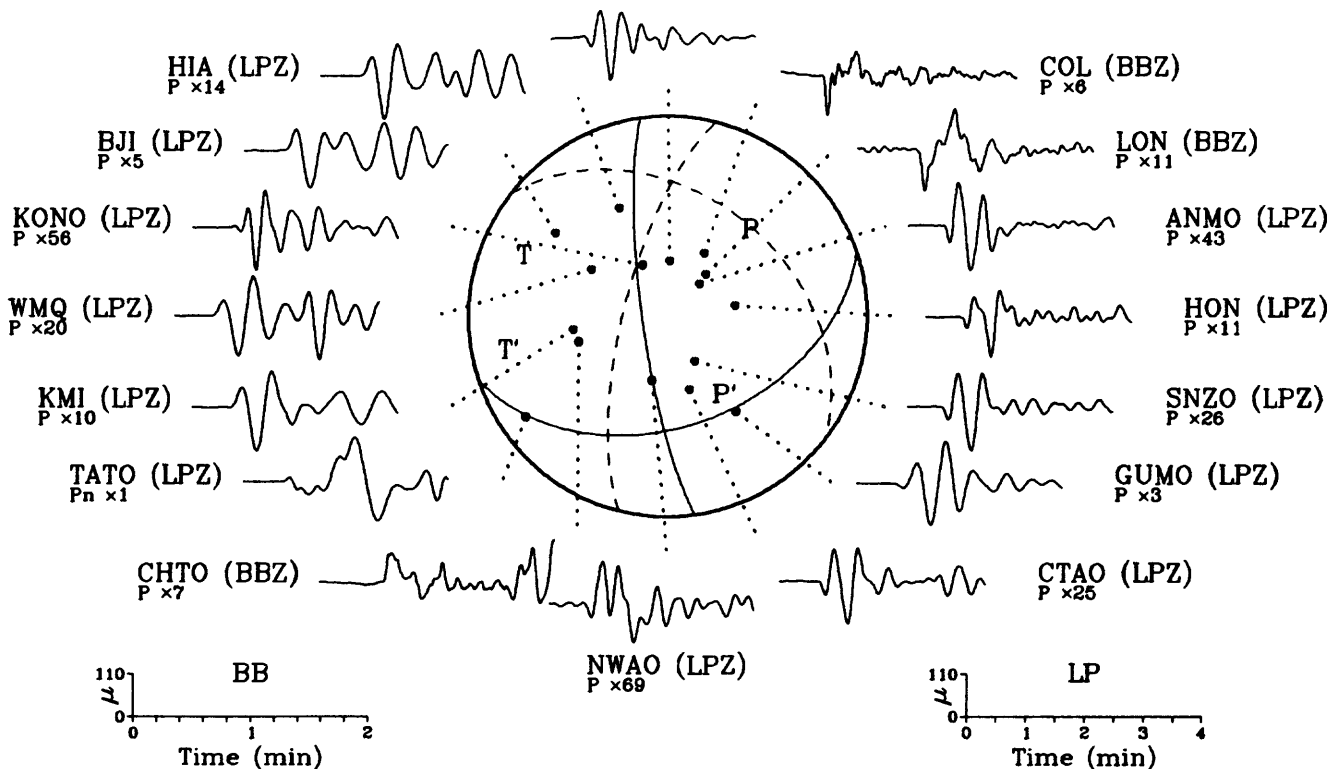


06 March 1987 04:10:41.96 Colombia-Ecuador Border Region



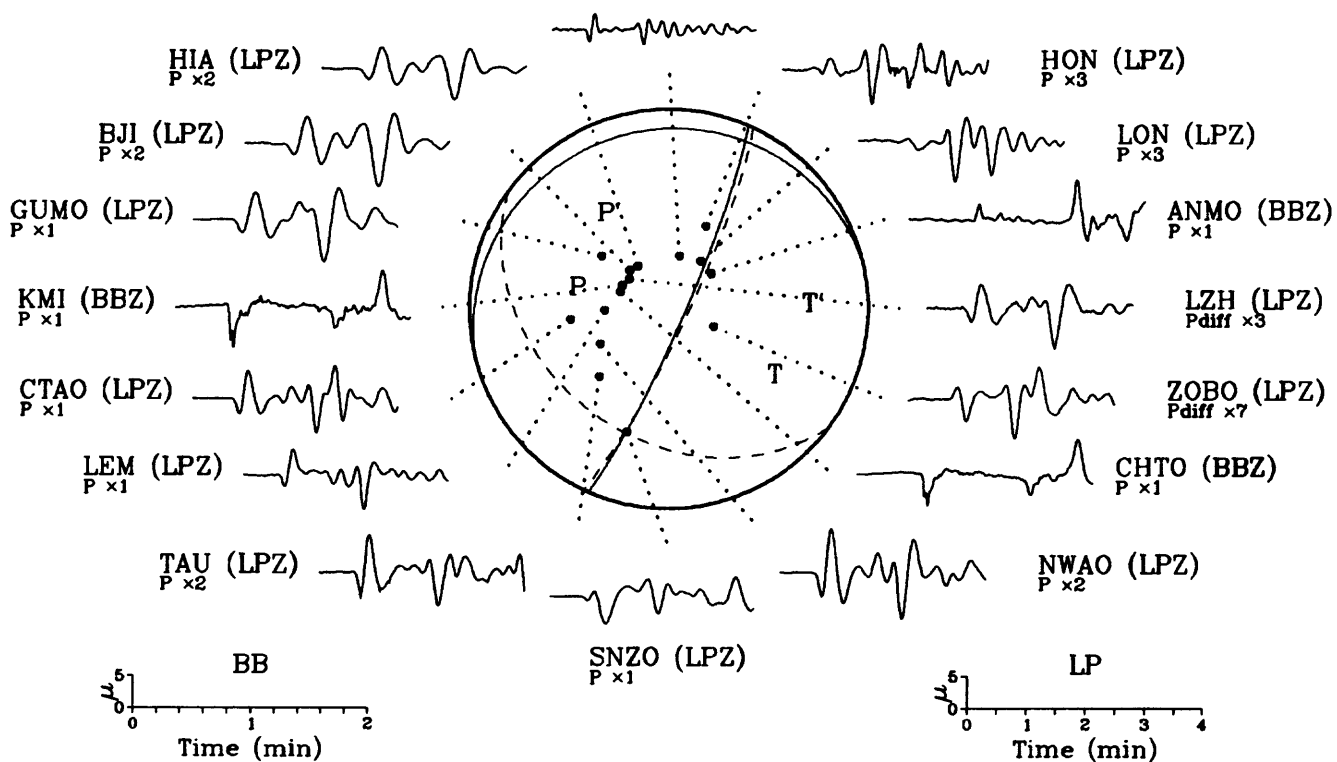
18 March 1987 03:36:30.33
Kyushu, Japan

GDH (LPZ)
P x30



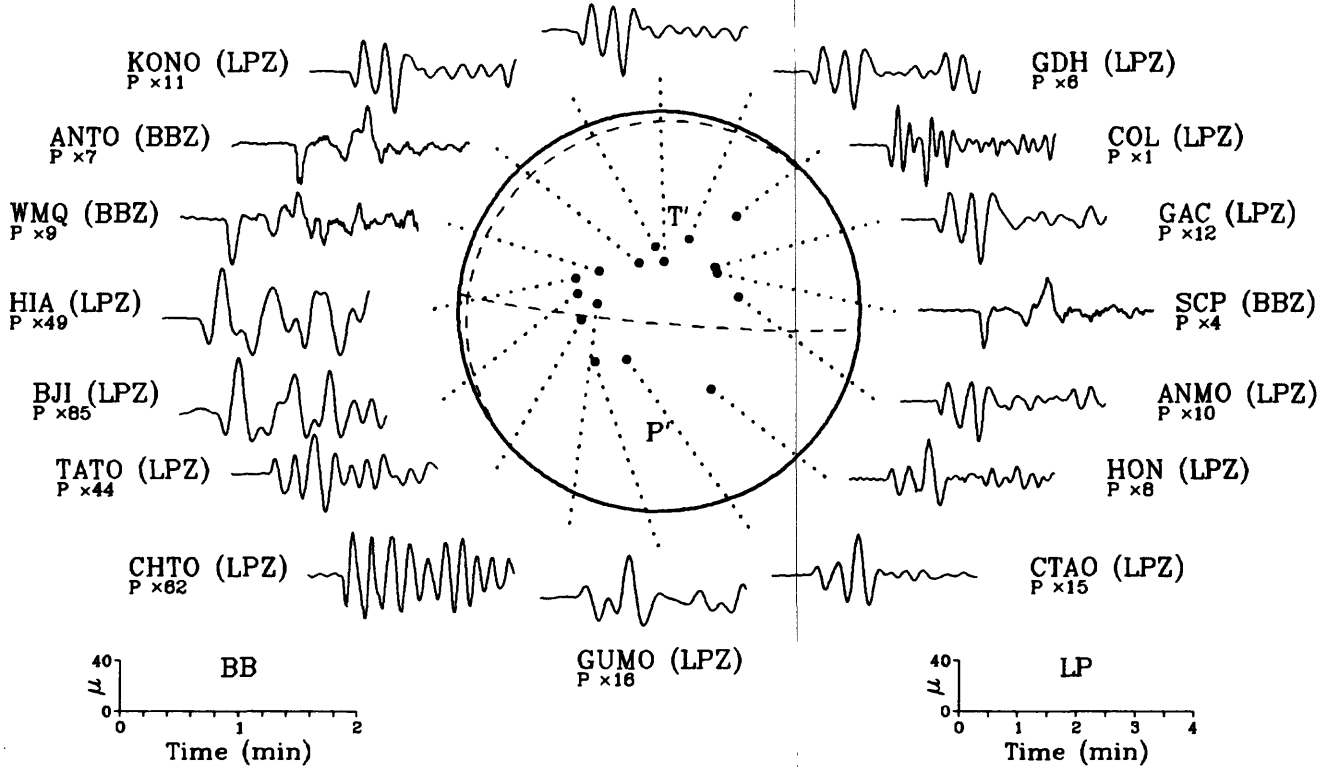
19 March 1987 22:51:39.28
Fiji Islands Region

COL (LPZ)
P x1



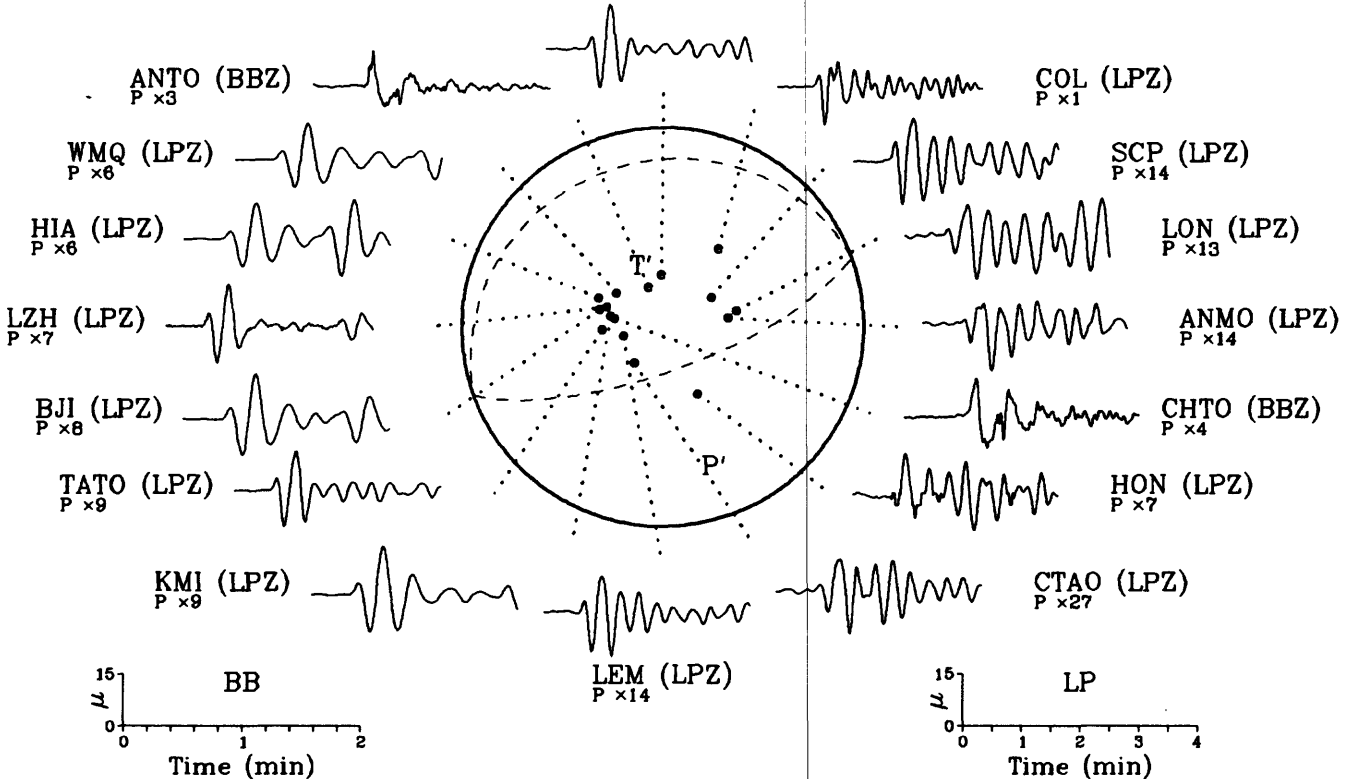
21 March 1987 10:41:35.97
Andreanof Islands, Aleutian Is.

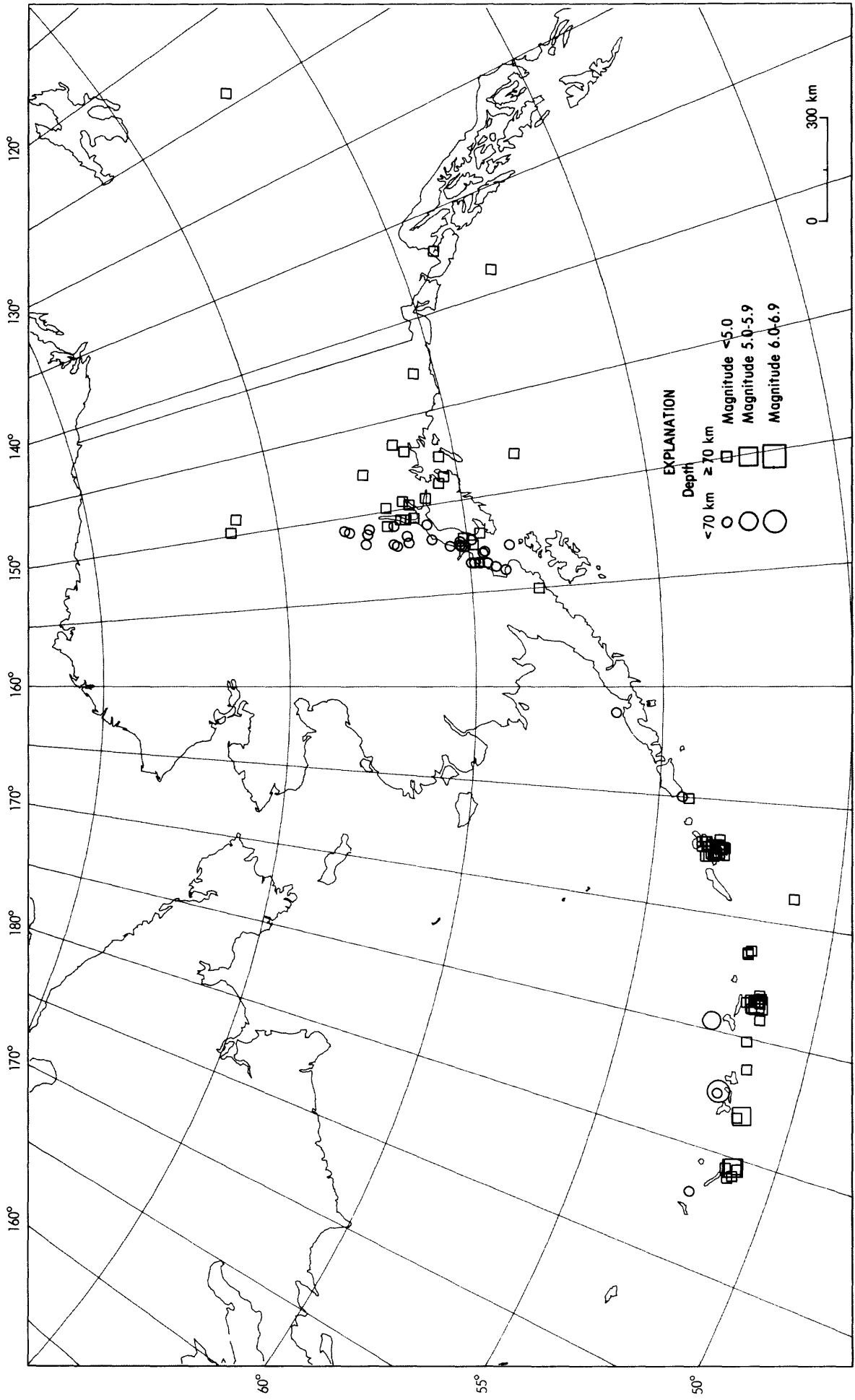
TOL (LPZ)
P x17



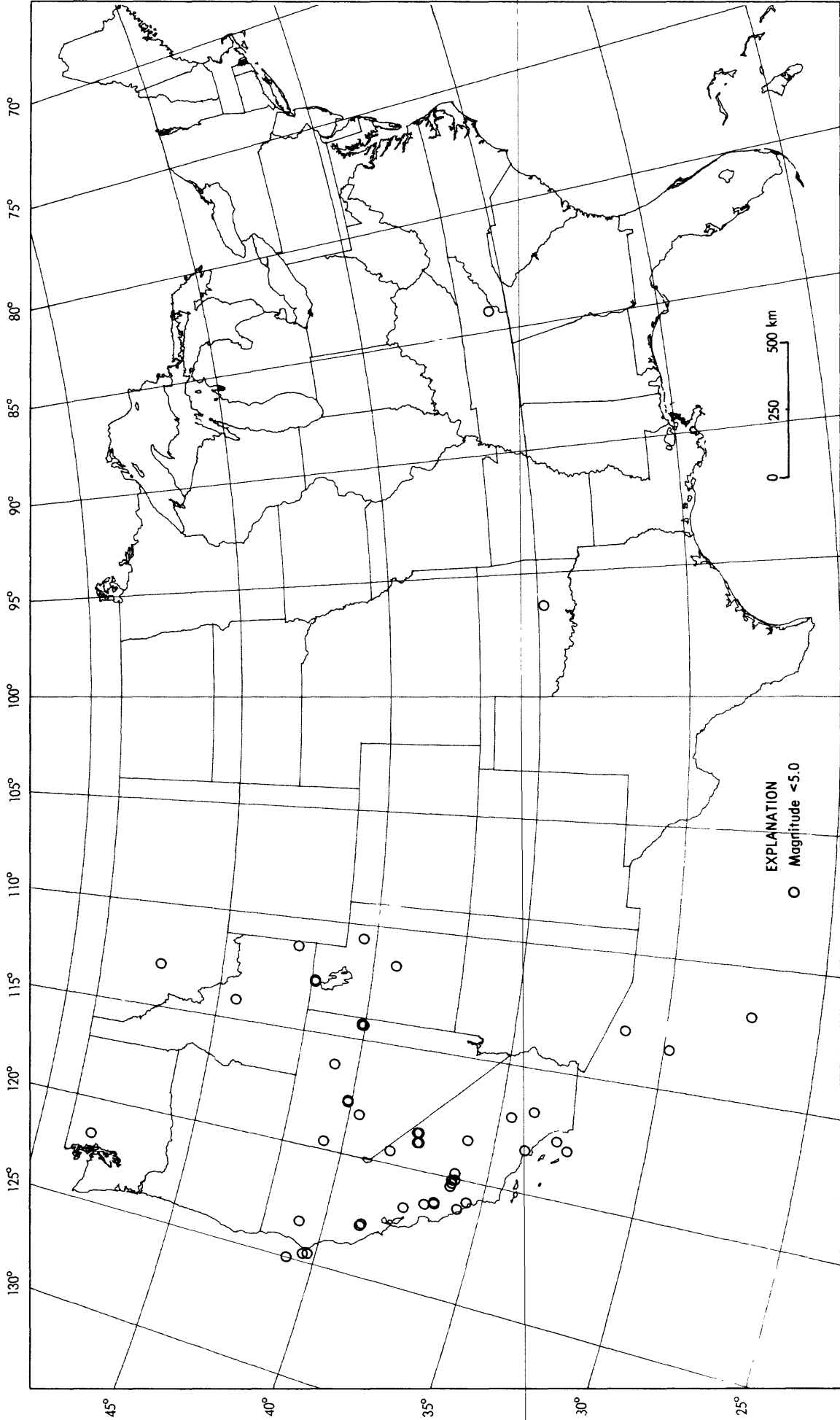
22 March 1987 02:49:15.90
Andreanof Islands, Aleutian Is.

KONO (LPZ)
P x9

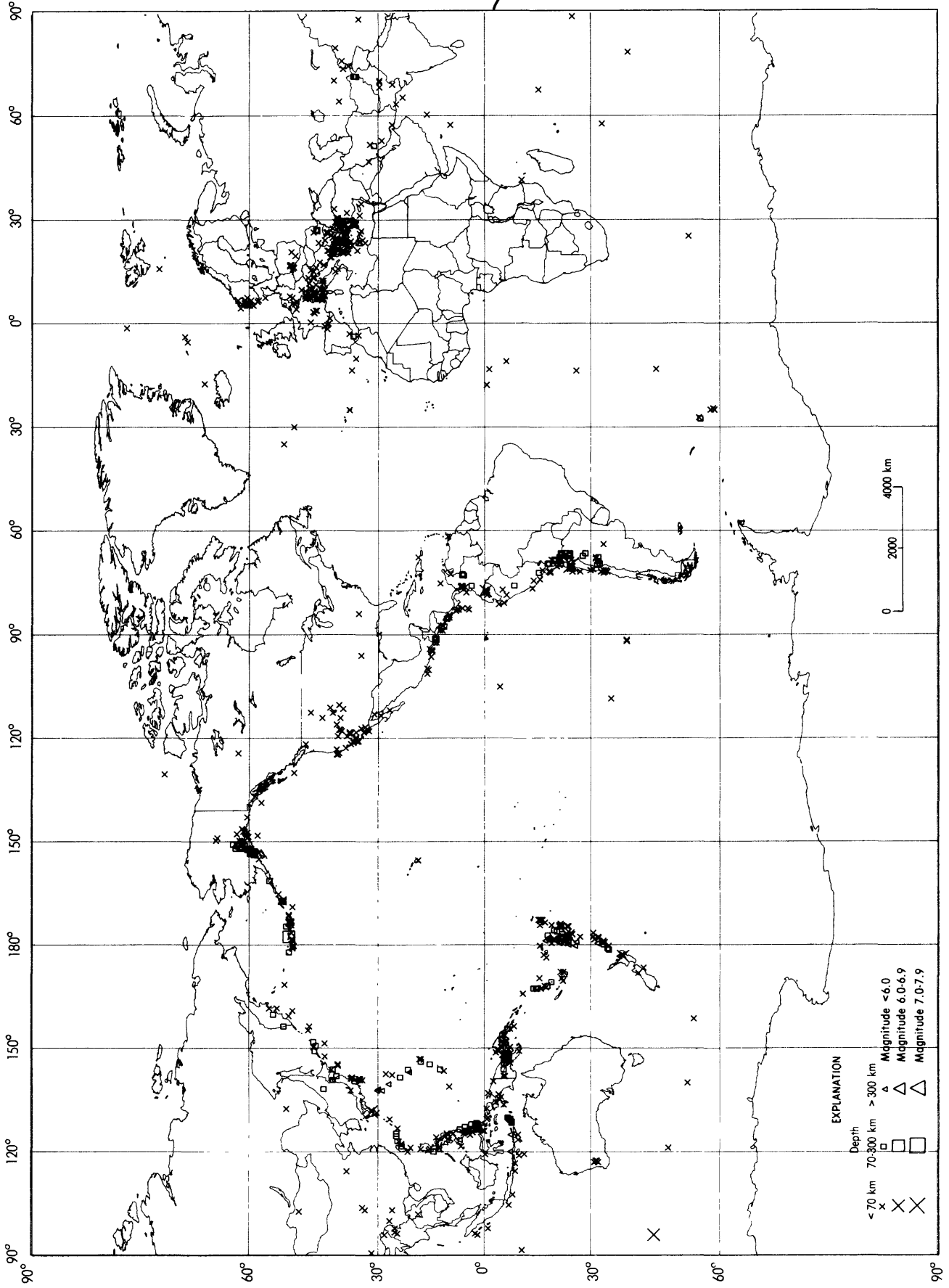




Earthquake epicenters in Alaska and adjacent regions for March, 1987 (C. Stover).



Earthquake epicenters in the conterminous United States and adjacent regions for March, 1987 (C. Stover).



EXPLANATION

Depth	Magnitude
< 70 km	< 6.0
70-300 km	6.0-6.9
> 300 km	7.0-7.9

Earthquakes located in March, 1987 (C. Stover).

CHANGE OF ADDRESS FORM

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

Mail this form to: NEW ADDRESS

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

Attach last subscription
label here.

SUBSCRIPTION ORDER FORM

SUBSCRIPTION ORDER FORM
ENTER MY SUBSCRIPTION TO:

@ \$ Domestic; @ \$ Foreign.

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

- Remittance Enclosed (Make checks payable to Superintendent of Documents)
- Charge to my Deposit Account No.

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