UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

PRELIMINARY DETERMINATION OF EPICENTERS
MONTHLY LISTING
January-March, 1985

NATIONAL EARTHQUAKE INFORMATION CENTER

Open File Report
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PRELIMINARY DETERMINATION OF EPICENTERS

MONTHLY LISTING

U.S. DEPARTMENT OF THE INTERIOR / GEOLOGICAL SURVEY

National Earthquake Information Center

JANUARY 1985

K E Y	DAY	ORIGIN TIME UTC HR	MN	SEC	GEOGRAPHIC COORDINATES LAT		LONG		DEPTH		MAGNITUDES GS MB	Msz	SD	NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
	01	02	33	44.8	38.472	N	26.673	E	10	G			0.6	18	AEGEAN SEA. ML 3.8 (ATH).
	01	02	49	51.3?	7.58	S	74.00	W	33	N			1.2	6	PERU-BRAZIL BORDER REGION
	01	03	17	20.5*	48.140	N	6.530	E	10	G			1.1	5	FRANCE. ML 2.3 (LDG).
	01	03	18	42.3%	31.689	S	68.104	W	33	N			0.7	5	SAN JUAN PROVINCE, ARGENTINA
	01	03	56	57.9*	22.969	S	25.676	W	10	G	4.7		1.0	21	SOUTH ATLANTIC OCEAN
	01	04	04	29.1*	5.317	N	126.200	E	84	*	4.5		1.4	17	MINDANAO, PHILIPPINE ISLANDS
	01	04	19	51.4	35.828	N	137.519	E	10	G			1.2	12	HONSHU, JAPAN. Felt (I JMA) at Iida.
	01	05	46	56.4%	33.336	S	70.525	W	33	N			0.8	6	CHILE-ARGENTINA BORDER REGION
	01	06	14	44.1*	7.168	S	129.161	E	182	*	4.9		0.9	17	BANDA SEA
	01	06	52	07.8?	31.39	S	69.99	W	153	?			0.5	11	SAN JUAN PROVINCE, ARGENTINA
	01	07	27	29.9%	16.669	N	62.156	W	33	N			1.5	5	LEEWARD ISLANDS
	01	08	41	55.2&	59.137	N	153.879	W	19					25	SOUTHERN ALASKA. <AGS-P>.
	01	09	08	30.1%	33.836	S	71.574	W	25	*			0.3	6	NEAR COAST OF CENTRAL CHILE
	01	11	22	02.4*	35.351	S	70.870	W	98		4.7		0.9	28	CHILE-ARGENTINA BORDER REGION. Felt (III) at Santiago.
	01	12	18	38.8?	32.01	S	71.71	W	10	G			0.4	10	NEAR COAST OF CENTRAL CHILE
	01	12	29	02.8%	35.674	S	70.893	W	33	N			0.6	7	CHILE-ARGENTINA BORDER REGION
	01	12	31	03.9%	32.856	S	71.610	W	10	G			0.6	6	NEAR COAST OF CENTRAL CHILE
	01	13	11	14.8	4.616	S	152.950	E	74		5.0		0.9	47	NEW BRITAIN REGION. Felt (III) at Rabaul.
	01	14	08	03.0*	36.627	S	177.579	E	33	N	4.9	4.6	0.8	20	OFF E COAST OF N. ISLAND, N.Z.
	01	14	13	25.2?	50.63	N	14.49	E	10	G			0.8	6	CZECHOSLOVAKIA
	01	14	48	16.3%	33 126	S	70.494	W	33	N			1.4	9	CHILE-ARGENTINA BORDER REGION
	01	15	52	31 8*	15.045	S	167.261	E	133	*	4.7		0.9	17	VANUATU ISLANDS
	01	16	40	24.4	36 664	S	177.636	E	33	N	5.1		1.0	16	OFF E COAST OF N. ISLAND, N.Z.
	01	17	57	15.7?	0.61	N	126 61	E	66	?	5.1		0.9	11	MOLUCCA PASSAGE
	01	18	14	46.7*	36 429	S	178.055	E	33	N	5.1		0.8	11	OFF E. COAST OF N ISLAND, N.Z.
	01	18	26	51.7*	42.026	N	19.779	E	10	G			1.4	5	YUGOSLAVIA
	01	18	31	05.9*	37.077	N	141 619	E	54	*	4.9		1.1	28	NEAR EAST COAST OF HONSHU, JAPAN
	01	18	45	44.3*	42.031	N	19 729	E	10	G			0.4	5	YUGOSLAVIA. ML 2.1 (TTG).
	01	19	57	29.7*	6.190	S	146.053	E	113	*	4.5		0.8	8	EAST PAPUA NEW GUINEA REGION
	01	22	42	18.9	47.955	N	6.506	E	16				1.0	16	FRANCE. ML 3.2 (LDG).
	02	00	19	21.7*	2.908	S	128.218	E	33	N	4.8	4.6	1.3	23	CERAM SEA
	02	01	09	41.0%	17.502	N	100.796	W	33	N			1.1	6	GUERRERO, MEXICO
	02	02	08	51.4?	48.81	S	116 52	E	10	G	5	0	1.3	14	SOUTH OF AUSTRALIA
	02	03	24	26.7&	60.238	N	153.065	W	124					21	SOUTHERN ALASKA. <AGS-P>.
	02	03	43	13.5?	34.31	S	72.05	W	10	G			0.7	10	NEAR COAST OF CENTRAL CHILE
	02	04	12	26.1?	29.94	S	178.25	W	212	?	5.1		1.1	22	KERMADEC ISLANDS
	02	05	24	58.2&	34.050	N	116.530	W	9					19	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.8 (PAS). Felt (IV) at Desert Hot Springs, Indio, Joshua Tree, Morongo Valley, North Palm Springs, Rancho Mirage and Yucca Valley. Felt (III) at Moreno and Palm Springs.
a	02	05	32	49.1	55.428	N	157.835	W	33	D	5.6	5.6	1.0	262	ALASKA PENINSULA. ML 6.1 (PMR), Ms 5.9 (BRK). Felt (III) at Perryville. Also felt at Chignik and Sand Point.
	02	05	47	58.0%	40.821	N	27.930	E	10	G			1.0	5	TURKEY
	02	05	54	00.5%	33.784	S	71.306	W	33	N			0.5	9	NEAR COAST OF CENTRAL CHILE
	02	08	10	57.1	58.496	N	155.899	W	171	*	4.4		0.9	45	ALASKA PENINSULA
	02	09	01	03.9*	24.503	N	127.948	E	33	N	4.9		0.6	17	RYUKYU ISLANDS REGION
	02	09	18	32.9*	29.644	S	177.977	W	107	*	5.0		1.1	17	KERMADEC ISLANDS
	02	09	28	10.2*	8.119	S	115.836	E	33	N	4.8		1.1	21	BALI ISLAND REGION
	02	10	20	16.8%	33.187	S	70.616	W	33	N			1.2	8	CHILE-ARGENTINA BORDER REGION
	02	10	37	56.7?	35.02	S	70.62	W	33	N			0.9	9	CHILE-ARGENTINA BORDER REGION
	02	12	22	12.7*	56.308	N	163.566	E	33	N	4.9		0.4	13	NEAR EAST COAST OF KAMCHATKA
	02	12	59	05.7*	36.275	S	177.209	E	33	N	5.0	5.0	1.1	33	OFF E. COAST OF N. ISLAND, N.Z.
	02	13	39	54.5*	36.492	S	177.786	E	33	N	5.1		1.1	18	OFF E. COAST OF N. ISLAND, N.Z.
	02	15	20	08.6*	3.624	S	152.395	E	33	N	4.3		1.5	9	NEW IRELAND REGION
	02	15	50	07.7&	62.326	N	151.168	W	88					32	CENTRAL ALASKA. <AGS-P>.
	02	17	33	25.0*	3.374	S	152.619	E	33	N	4.1		0.9	6	NEW IRELAND REGION
	02	18	39	25.6	48.077	N	6.479	E	19				1.0	35	FRANCE. ML 4.0 (LDG), 3.7 (KBA). Felt at Remiremont.

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	02	18 57 49.5	31 944	S	69.289	W	122		3.7		1 0	26	SAN JUAN PROVINCE, ARGENTINA
	02	20 11 41 0?	34 80	S	70.26	W	144	?			0 1	9	CHILE-ARGENTINA BORDER REGION
o	02	20 25 26.0*	37 164	S	176.939	E	33	N	4.8	5.1	1 0	19	NORTH ISLAND, NEW ZEALAND
o	02	21 08 57 3	36.549	S	177 794	E	33	N	4.8	5 1	1 3	28	OFF E COAST OF N ISLAND, N Z.
	02	21 51 43.3*	36.387	N	71.230	E	80	*	4.7		1.1	16	AFGHANISTAN-USSR BORDER REGION
o	02	22 06 31.6	1.630	N	98.775	E	105		5.3		1.1	198	NORTHERN SUMATERA
	02	22 07 42.4	48.026	N	6.524	E	17				1.2	12	FRANCE, ML 3.0 (LDG).
	02	22 25 23.1*	38.432	N	21.459	E	10	G			0 3	5	GREECE, ML 3.3 (ATH).
o	02	22 29 24.9*	14.658	S	175.353	W	33	N	5.3	5.7	1.3	77	SAMOA ISLANDS REGION
	02	23 08 29.2	53.490	N	171.531	W	235	D	4.8		0.9	120	FOX ISLANDS, ALEUTIAN ISLANDS
	02	23 45 57.6?	36.79	N	141.29	E	10	G			1.0	6	NEAR EAST COAST OF HONSHU, JAPAN
	03	01 01 04.5*	31.578	S	71.450	W	69	*	4.9		1.2	34	NEAR COAST OF CENTRAL CHILE
	03	01 12 24 6?	31.27	S	71 89	W	33	N			0.4	6	NEAR COAST OF CENTRAL CHILE
	03	01 22 59.1?	31.49	S	71.42	W	33	N			0.3	7	NEAR COAST OF CENTRAL CHILE
	03	01 36 29.7?	30.86	S	72.71	W	33	N			1.4	15	OFF COAST OF CENTRAL CHILE
	03	01 56 45.5*	3.775	S	144.076	E	61	*	4.9		0.8	12	NEAR N COAST OF PAPUA NEW GUINEA
	03	02 29 50 0	44 729	N	111.869	W	5	G			1.1	9	HEBGEN LAKE REGION, ML 3.8 (NEIS), 3.8 (BUT).
	03	03 32 48.9*	42.031	N	19.737	E	10	G			0.9	10	YUGOSLAVIA ML 2.9 (TTG).
	03	03 34 13.5	4.842	S	145.068	E	33	N	4.6		1.5	17	NEAR N COAST OF PAPUA NEW GUINEA
	03	03 37 19.7	19.134	N	121.172	E	52		4.9	5.4	1.2	68	PHILIPPINE ISLANDS REGION. Felt (III RF) at Pasuquin and Laoog, (II RF) at Santa, (I RF) at Aparri.
	03	04 17 47.5	40.996	N	1								
	03	05											
	03	08 16 42.2?	15.30	S	172.09	W	33	N	4.4		0.9	14	SAMOA ISLANDS REGION
	03	09 02 32.8*	80.518	N	122.390	E	10	G	4.6		1.0	16	EAST OF SEVERNAYA ZEMLYA
	03	09 21 49.8&	37.460	N	118.640	W	6	G				23	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.9 (PAS), 4.1 (BRK). Mo=7.4*10**21 (BRK).
	03	09 28 04.7*	5.186	S	102.662	E	33	N	4.4		0.6	19	SOUTHERN SUMATERA
	03	10 33 00.2*	31.398	S	68.403	W	113	*			0.9	11	SAN JUAN PROVINCE, ARGENTINA
	03	10 45 20.9&	36.180	N	120.210	W	5					12	CENTRAL CALIFORNIA. <BRK>. ML 3.3 (BRK), 4.1 (PAS).
	03	11 03 17.0	36.262	N	120.266	W	5	G			0.7	11	CENTRAL CALIFORNIA. ML 2.6 (BRK).
	03	11 22 27.6&	36.170	N	120.273	W	9		4.3			27	CENTRAL CALIFORNIA. <BRK>. ML 3.7 (BRK), 4.3 (PAS). Felt in the Caalinga area. Also felt (III) at Lemoore.
	03	11 45 09.4*	11.044	S	117.312	E	33	N	4 0		0.8	5	SOUTH OF SUMBAWA ISLAND
	03	13 10 02.8	10.326	S	117.526	E	33	N	5.1		1 4	33	SOUTH OF SUMBAWA ISLAND
	03	13 46 53.0&	59.817	N	153.345	W	130					31	SOUTHERN ALASKA. <AGS-P>.
	03	14 36 37.3*	35 667	N	140.116	E	33	N			1.2	7	NEAR EAST COAST OF HONSHU, JAPAN
	03	14 51 39.6?	8.33	S	109 15	E	54	?	4.1		1 5	7	JAVA
	03	15 01 53.6	10.317	S	117.681	E	33	N	5 0		1 4	34	SOUTH OF SUMBAWA ISLAND
	03	15 15 18.2?	14.24	S	165.58	E	33	N			0.5	5	VANUATU ISLANDS
	03	16 46 07.6?	36.62	S	177.96	E	33	N	4.9		1 4	9	OFF E. COAST OF N. ISLAND, N.Z.
	03	17 21 28 0%	32.095	S	71.625	W	10	G			0.2	8	NEAR COAST OF CENTRAL CHILE
	03	17 53 56.1*	2.832	S	138.964	E	33	N	4.3		1.0	14	WEST IRIAN
	03	18 57 56.8	19.583	S	69.175	W	129		5.1		1.0	35	NORTHERN CHILE
	03	19 44 30.0	40.655	N	28.892	E	10	G			0.5	6	TURKEY
	03	20 10 05.0	40 655	N	28.839	E	10	G			0.7	6	TURKEY
a	03	22 44 09.4*	54.370	S	155.444	E	10	G	5.1		1.4	21	MACQUARIE ISLANDS REGION
	03	23 29 51.3	65.517	N	133.389	W	18	G	4.3		1.1	18	NORTHERN YUKON TERRITORY, CANADA
o	03	23 58 34.1	21.616	S	174.110	W	33	N	5.4	5.6	1.2	103	TONGA ISLANDS. Ms 5.5 (BRK).
	03	23 59 54.9	45.355	N	6.553	E	13				0.5	23	FRANCE. ML 3.9 (LDG).
	04	00 19 20.7%	31.366	S	71.310	W	33	N			0.6	6	NEAR COAST OF CENTRAL CHILE
	04	01 09 34.7	6.492	S	130.370	E	124	*	5.1		1.1	57	BANDA SEA
	04	02 15 18.4	52.959	N	4.308	W	29				0.4	11	UNITED KINGDOM. Felt on southern Anglesey and in northern Gwynedd County, Wales.
o	04	02 17 34 7	26.057	S	177.518	W	133	D	5.3		1.1	152	SOUTH OF FIJI ISLANDS
	04	04 41 59.4*	18.749	N	122.071	E	33	N	4.6		1.4	16	LUZON, PHILIPPINE ISLANDS
	04	04 57 41.6*	24.017	N	121.370	E	33	N			0.8	5	TAIWAN
	04	05 00 11.9	16.633	S	173.971	W	143	*	4.9		1.2	71	TONGA ISLANDS
	04	05 34 55.2	41.720	N	135.728	E	370		4.4		1.0	37	SEA OF JAPAN
o	04	06 57 04.5	7.088	N	94.655	E	33	N	5.2	4.4	1.3	81	NICOBAR ISLANDS REGION
	04	07 01 43.6%	16.529	N	99.450	W	10	G			1.1	9	NEAR COAST OF GUERRERO, MEXICO
	04	07 12 36.8&	35.890	N	120.450	W	6					14	CENTRAL CALIFORNIA <BRK> ML 3.0 (BRK).
	04	07 34 54.2?	31.38	S	68.87	W	117	?			0.9	12	SAN JUAN PROVINCE, ARGENTINA
	04	08 10 23.6*	8.279	N	96.978	E	33	N	4.5		1.3	5	NICOBAR ISLANDS REGION
	04	11 35 16 4&	61 606	N	151 014	W	73					31	SOUTHERN ALASKA <AGS-P>
	04	12 39 27.5	3.686	N	126.654	E	74	*	5.0		1.1	60	TALAUD ISLANDS
	04	16 13 26 5?	31.25	S	68.65	W	108	?			1.3	11	SAN JUAN PROVINCE, ARGENTINA
	04	16 23 38.3	39.079	N	27.769	E	10	G			1.1	12	TURKEY
	04	16 50 59.6*	5.029	S	134.160	E	33	N	3.3		1.5	6	AROE ISLANDS REGION
	04	16 57 38.4	46.113	N	7.182	E	10	G			1.0	46	SWITZERLAND. ML 3.8 (LDG).
	04	17 18 44.1*	39.908	N	22.796	E	10	G			0 9	10	GREECE
	04	18 04 35.7?	8.75	S	108.36	W	10	G	4.0	4.6	1.3	8	NORTHERN EASTER I. CORDILLERA
	04	18 08 03.5*	58.626	N	155.962	W	187	*			0 9	28	ALASKA PENINSULA
	04	19 04 16.5	20.624	S	67.037	W	221	*	4.6		1.3	20	SOUTHERN BOLIVIA
	04	20 11 37.2&	32.200	N	117.540	W	6	G				5	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.2 (PAS).
	04	20 21 19.3*	41.988	N	19.783	E	10	G			0.5	6	ALBANIA. ML 2.4 (TTG).
	04	20 21 39.5*	51.294	N	15.864	E	10				0.9	14	POLAND. ML 3.6 (VKA), 3.4 (KBA).
	04	20 53 22.5	41.538	N	24.075	E	10	G			0 6	13	GREECE-BULGARIA BORDER REGION
	04	21 13 04.8*	31.204	S	68.348	W	118	*			1.0	14	SAN JUAN PROVINCE, ARGENTINA
	04	21 21 40.2	11.489	S	117.962	E	33	N	5.0	3.5	1.2	48	SOUTH OF SUMBAWA ISLAND
	04	23 59 55.9	45.434	N	6.484	E	10	G			1.1	22	FRANCE
	05	01 06 23.7?	36.10	S	178.67	E	33	N	4.8	5.0	1.5	9	OFF E. COAST OF N. ISLAND, N.Z.
	05	01 49 54.2*	30.565	N	141.650	E	33	N	4.6		1.0	14	SOUTH OF HONSHU, JAPAN
	05	02 26 15.9*	39.709	N	21.987	E	10	G			1.3	8	GREECE. ML 3.4 (ATH).
	05	02 40 29.1*	45.525	N	26.332	E	156	*			0.9	12	ROMANIA
a	05	02 49 47.5	0.746	S	67.296	E	10	G	5.1	5.2	1.2	72	CARLSBERG RIDGE
	05	03 24 26.1*	35.863	N	28.883	E	33	N			1.4	12	EASTERN MEDITERRANEAN SEA
	05	03 47 03.0	45.419	N	6.519	E	9				0.7	17	FRANCE. ML 3.2 (LDG).
	05	03 56 30.4*	36.256	N	78.044	E	33	N	4.8		1.3	40	KASHMIR-XINJIANG BORDER REGION
	05	04 54 49.4%	45.407	N	6.489	E	10	G			0.4	6	FRANCE. ML 2.8 (LDG).

	05	05	17	15.7%	45.245	N	6.142	E	10	G			0.4	6	FRANCE. ML 2.7 (LDG).
a	05	05	52	13.4	0.685	S	67.319	E	10	G	5.2	4.5	1.1	96	CARLSBERG RIDGE
a	05	06	43	35.1	0.872	S	67.293	E	10	G	4.9		1.0	41	CARLSBERG RIDGE
a	05	07	39	09.1	0.666	S	67.290	E	10	G	5.6	5.0	1.0	189	CARLSBERG RIDGE
	05	08	19	03.4&	60.057	N	150.092	W	39					34	KENAI PENINSULA, ALASKA. <AGS-P>.
	05	10	00	50.3?	19.51	N	109.27	W	10	G	3.9		0.7	9	REVILLA GIGEDO ISLANDS REGION
	05	11	09	06.0%	47.734	N	2.582	W	10	G			1.3	8	FRANCE. ML 3.1 (LDG).
f	05	11	11	31.1	10.177	N	80.027	W	33		6.1	5.7	0.9	313	NORTH OF PANAMA. Ms 5.6 (BRK). Felt (V) at Colon and Panama, (III) at Darien. Felt (III) in the central valley of Costa Rica. Felt on San Andres.
	05	13	06	33 4	42.562	N	22.122	E	28		4.6		1.2	114	BULGARIA. ML 4.5 (ATH), 4.5 (TTG). Felt widely in the Kyustendil-Dimitrova area. Also felt at Sofia. Felt (VII) at Surdulica, (VI) at Vranje and (III) at Skopje, Yugoslavia.
	05	13	30	37.7*	13.875	N	93.045	W	33	N	4.7		1.3	25	OFF COAST OF CHIAPAS, MEXICO
	05	14	32	10.1*	30.603	S	71.645	W	33	N			1.0	14	NEAR COAST OF CENTRAL CHILE
	05	14	37	08.2%	15.890	N	62.925	W	33	N			1.0	6	LEEWARD ISLANDS
	05	14	38	54.8*	32.382	S	69.762	W	157	?			0.5	13	MENDOZA PROVINCE, ARGENTINA
a	05	15	45	38.0	34.160	N	135.557	E	74		5.6		0.9	258	NEAR S. COAST OF SOUTHERN HONSHU. Felt (IV JMA) at Osaka, (III JMA) at Hikone, Wakayama and Tayaaka, (II JMA) at Ajiro, Kochi and Himeji, (I JMA) at Kobe, Yokahama and an Hachija-jima.
	05	15	46	35.3	34.149	N	135.524	E	80				0.7	12	NEAR S. COAST OF SOUTHERN HONSHU
	05	16	50	23.8%	16.403	N	98.635	W	33	N			0.7	7	NEAR COAST OF GUERRERO, MEXICO
	05	17	39	47.7?	32.07	S	67.86	W	134	?			0.6	15	MENDOZA PROVINCE, ARGENTINA
	05	18	07	07.1%	23.175	N	121.360	E	10	G			0.3	5	TAIWAN
	05	18	22	00.5*	1.383	N	126.654	E	33	N	5.0		1.2	13	MOLUCCA PASSAGE
	05	19	31	00.5?	37.15	N	142.70	E	33	N			1.1	6	OFF EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Ishinomaki and (I JMA) at Fukushima.
	05	19	51	24.5*	16.350	N	99.061	W	10	G	4.6		1.3	24	NEAR COAST OF GUERRERO, MEXICO
	05	21	26	31.8	10.573	N	94.410	E	33	N	4.6		1.3	29	ANDAMAN ISLANDS REGION
	05	21	45	53.0*	10.538	N	94.464	E	33	N	4.5		1.5	18	ANDAMAN ISLANDS REGION
	05	21	54	04.0*	10.971	N	94.870	E	33	N	3.8		1.0	8	ANDAMAN ISLANDS REGION
	05	21	59	17.1*	3.183	S	127.685	E	33	N	4.6		1.0	22	CERAM
	05	22	20	48.3	40.242	N	25.050	E	10		4.0		0.9	30	AEGEAN SEA. ML 4.0 (ATH).
	05	22	34	22.6*	9.795	N	83.887	W	48	*	4.5		1.3	24	COSTA RICA. Felt (III) in the San Jose area.
	05	22	52	07.3	10.497	N	94.389	E	33	N	4.8		1.0	34	ANDAMAN ISLANDS REGION
	05	23	27	46.6*	19.966	S	178.154	W	574		5.1		1.4	59	FIJI ISLANDS REGION
	05	23	54	23.1&	59.800	N	153.504	W	125					32	SOUTHERN ALASKA. <AGS-P>.
	06	00	09	40.1	14.442	N	93.115	W	51	*	4.4	3.6	1.3	31	NEAR COAST OF CHIAPAS, MEXICO
	06	00	18	46.2	13.996	N	92.978	W	33	N	4.4	3.6	1.1	32	OFF COAST OF CHIAPAS, MEXICO
	06	00	26	55.4*	40.469	N	25.995	E	10	G			1.5	7	AEGEAN SEA
	06	01	06	13.5	39.079	N	71.215	E	33	N	4.8		1.2	28	TAJIK SSR. Felt (V) at Dzhirgatal and (III) at Fergana.
	06	01	08	57.5	63.015	N	150.750	W	143	?			0.8	11	CENTRAL ALASKA
	06	01	23	25.1&	59.973	N	152.783	W	95					34	SOUTHERN ALASKA. <AGS-P>.
	06	02	01	06.8*	42.399	N	18.685	E	10	G			1.2	10	YUGOSLAVIA ML 2.6 (TTG). Felt (IV) in the Hercegnovi-Tivat area.
	06	02	42	32.5?	28.30	N	139.86	E	437	?	4.1		0.8	10	BONIN ISLANDS REGION
	06	03	11	13.4	31.676	S	69.421	W	135	*			0.5	16	SAN JUAN PROVINCE, ARGENTINA
	06	05	08	56.0%	33.037	S	70.513	W	10	G			0.3	8	CHILE-ARGENTINA BORDER REGION
	06	05	12	45.7	58.652	N	154.320	W	16				0.9	34	ALASKA PENINSULA. ML 3.7 (PMR).
	06	05	20	45.3?	15.80	N	62.98	W	33	N			1.2	7	LEEWARD ISLANDS
a	06	06	46	01.3	45.782	N	143.382	E	314		5.3		0.9	188	HOKKAIDO, JAPAN REGION
	06	07	57	53.5	71.175	N	8 172	W	10	G	4.7	3 6	1 0	41	JAN MAYEN ISLAND REGION
	06	08	22	43.0?	34.26	S	70.23	W	123	?			1.0	9	CHILE-ARGENTINA BORDER REGION
	06	08	57	00.2?	70.96	N	7.40	W	10	G	4.7		1 1	13	JAN MAYEN ISLAND REGION
	06	09	25	41.1&	40.330	N	125.167	W	5	G	4.1			17	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.9 (BRK). Mo=5.7*10**21 (BRK).
	06	09	37	27.3*	36.544	S	177 711	E	33	N	4 8		1 1	11	OFF E. COAST OF N. ISLAND, N.Z.
	06	09	38	12 5%	15.759	N	60.862	W	33	N			0 1	6	LEEWARD ISLANDS
	06	09	51	03.5*	19.978	S	178.212	W	581		5.0		1.1	32	FIJI ISLANDS REGION
	06	10	22	56.9	71.219	N	8 010	W	10	G	4.8	3.6	0.9	37	JAN MAYEN ISLAND REGION
	06	12	06	40.9	71.088	N	7.748	W	10	G	5.0		1.0	96	JAN MAYEN ISLAND REGION
	06	12	32	30 1?	71.74	N	5.91	W	10	G	4.5		0 9	9	JAN MAYEN ISLAND REGION
	06	12	35	03 6	71.238	N	7 804	W	10	G	4 7		0 8	27	JAN MAYEN ISLAND REGION
	06	13	00	41.1?	20.44	N	122.31	E	153	?	4.1		1 0	7	PHILIPPINE ISLANDS REGION
	06	13	18	25.6%	32.954	S	70.414	W	33	N			1 5	7	CHILE-ARGENTINA BORDER REGION
	06	14	29	18.9	1.443	N	124.471	E	243		4.7		1.0	36	MINAHASSA PENINSULA
	06	14	39	59.9*	44.624	N	114.138	W	5	G			1.0	10	WESTERN IDAHO. ML 3.2 (NEIS), 3.0 (BUT).
	06	14	46	05.4*	16.315	N	99.143	W	10	G			1.5	7	NEAR COAST OF GUERRERO, MEXICO
	06	15	18	19.4	54.576	N	162.196	E	33	N	4.8	4.0	0.9	38	NEAR EAST COAST OF KAMCHATKA
	06	16	26	43.5*	6.905	N	123.777	E	43	*	4.9	4.4	1.1	36	MINDANAO, PHILIPPINE ISLANDS
	06	17	04	46.4	54.397	N	166.180	W	131		5.1		0.9	69	FOX ISLANDS, ALEUTIAN ISLANDS
	06	17	42	51.6	15.550	N	60.853	W	33	N			0.7	10	LEEWARD ISLANDS
	06	18	26	31.5	6.052	N	125.983	E	157		5.1		1.1	32	MINDANAO, PHILIPPINE ISLANDS
a	06	18	32	05.4	36.644	S	177.584	E	28		5.2	5.2	1.0	46	OFF E. COAST OF N. ISLAND, N.Z.
	06	18	33	25.8&	36.592	N	121.243	W	6					19	CENTRAL CALIFORNIA. <BRK>. ML 3.4 (BRK). Mo=3.0*10**21 (BRK). Felt (III) at Gonzales and Paicines.
	06	18	45	21.7*	36.512	S	177.550	E	33	N	5.0		0.5	23	OFF E. COAST OF N. ISLAND, N.Z.
	06	19	30	46.6	36.543	S	177.514	E	25		4.8	4.9	1.2	25	OFF E. COAST OF N. ISLAND, N.Z.
	06	21	41	52.1	63.159	N	150.628	W	140	?			0.5	10	CENTRAL ALASKA
	06	22	08	43.8	35.480	N	140.043	E	79		5.0		1.0	73	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Ajiro, (II JMA) at Utsunamiya, Takya and an Oshima, (I JMA) at Mito, Kumagaya and Kofu.
	06	22	19	43.6?	29.02	S	73.18	W	33	N			1.2	9	OFF COAST OF CENTRAL CHILE
	07	00	34	51.0*	43.444	N	12.833	E	10	G			1.1	5	CENTRAL ITALY
	07	00	56	39.8*	35.020	S	70.642	W	129	*	3.8		0.9	18	CHILE-ARGENTINA BORDER REGION
	07	02	03	44.6*	22.933	N	120.560	E	33	N			1.4	6	TAIWAN
	07	02	22	06.7?	51.88	N	20.25	E	10	G			1.2	8	POLAND. ML 3.1 (KRA).
	07	02	40	19.8*	79.610	N	3.252	E	10	G	4.9		1.2	9	GREENLAND SEA
	07	02	50	11.6*	32.223	S	71.852	W	10	G			0.2	9	NEAR COAST OF CENTRAL CHILE
	07	03	15	18.6*	36.487	N	70.535	E	194	*	4.2		0.8	17	HINDU KUSH REGION
	07	03	45	06.0*	42.161	N	1.596	E	10	G			0.1	5	PYRENEES. ML 2.8 (LDG).

	07	04	31	08.2*	40.098	N	29.335	E	10	G			0 6	6 TURKEY
	07	06	17	43.7&	40.273	N	126.265	W	5	G	4 6	4.5		55 OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 5.0 (BRK). Mo=1 9*10**22 (BRK).
	07	06	56	31.2?	34.51	S	70.21	W	126	?			0 4	9 CHILE-ARGENTINA BORDER REGION
	07	07	47	02.6*	44.554	N	114.526	W	10	G			0.6	9 WESTERN IDAHO ML 3.2 (NEIS).
	07	09	58	03.6	40.024	N	26.892	E	10	G			1.2	13 TURKEY
	07	10	17	50.7*	17.268	S	167.126	E	33	N	4.3		0.9	8 VANUATU ISLANDS
	07	11	07	54.6	44.273	N	6.628	E	11				1.0	19 FRANCE. ML 3.0 (LDG).
	07	11	55	07.6	16.433	S	178.161	W	473		5.1		0 9	93 FIJI ISLANDS REGION
a	07	12	01	08.6	26.763	N	131.273	E	19		5.2	4.5	1 0	81 RYUKYU ISLANDS REGION. Felt (I JMA) on Minomi-doito-jima.
	07	14	39	58.8*	33.512	N	139.962	E	107	*	4.3		1.0	13 SOUTH OF HONSHU, JAPAN. Felt (I JMA) on Hachijo-jima.
	07	15	08	17.1*	16.832	N	99.635	W	33	N	4.7		1 0	19 NEAR COAST OF GUERRERO, MEXICO. Felt at Acapulco.
	07	15	13	56.9*	31.220	S	68.335	W	105	*			0.8	11 SAN JUAN PROVINCE, ARGENTINA
	07	15	43	25.9*	3.670	S	134.741	E	33	N	4.8		1.0	7 WEST IRIAN REGION
	07	15	46	24.0*	31.465	S	71.171	W	33	N			1 2	12 NEAR COAST OF CENTRAL CHILE
	07	15	51	25.6&	60.995	N	152.104	W	99					21 SOUTHERN ALASKA. <AGS-P>.
	07	16	10	34.4*	1.923	S	151.891	E	46	*	5.3	4.6	1.3	63 NEW IRELAND REGION
	07	16	13	05.1	27.152	N	91.986	E	12		5.6	4.8	1.0	167 BHUTAN
	07	18	37	08.4	39.250	N	27.830	E	10	G			0.8	20 TURKEY
	07	18	54	08.9&	62.538	N	149.350	W	62					33 CENTRAL ALASKA. <AGS-P>.
	07	19	25	46.4	15.624	S	167.609	E	141	D	5.2		1.0	153 VANUATU ISLANDS
	07	19	27	09.8%	17.165	N	99.740	W	33	N			0.1	5 GUERRERO, MEXICO
	07	20	06	56.6%	43.776	N	18.559	E	10	G			1.2	7 YUGOSLAVIA
	07	20	09	54.3*	33.883	N	138.253	E	269		3.8		0.8	21 SOUTH OF HONSHU, JAPAN
	07	20	14	53.8?	27.83	N	92.69	E	33	N			1.0	6 INDIA-CHINA BORDER REGION
	07	20	20	15.4?	52.93	N	160.77	E	33	N	4.8		1.1	11 OFF EAST COAST OF KAMCHATKA
	07	20	43	29.6	10.295	N	125.184	E	33	N	4.6		1.0	18 LEYTE, PHILIPPINE ISLANDS
	07	21	30	07.4%	15.726	N	60.293	W	33	N			0.4	6 LEEWARD ISLANDS
	07	21	33	51.5?	16.23	S	164.00	E	33	N	4.1		0.6	6 VANUATU ISLANDS REGION
a	07	21	53	16.1	71.144	N	7.439	W	10	G	5.0	3.7	1.1	113 JAN MAYEN ISLAND REGION
	08	01	50	30.8*	64.878	N	20.258	E	10	G			0.6	5 SWEDEN. ML 2.9 (UPP). Felt.
	08	02	12	48.4?	6.85	S	129.89	E	152	?	4.4		1.5	12 BANDA SEA
	08	02	54	44.7	31.137	S	178.296	W	92		5.5		1.2	42 KERMADEC ISLANDS REGION
	08	03	30	09.0*	43.827	N	146.932	E	73	*	4.6		0.8	21 KURIL ISLANDS. Felt (I JMA) at Nemuro, Hakkaido, Japan.
	08	03	31	26.2&	59.381	N	153.265	W	108					27 SOUTHERN ALASKA. <AGS-P>.
	08	04	07	51.6	32.104	N	132.008	E	48		5.2	5.1	1.2	123 SHIKOKU, JAPAN. Felt (II JMA) at Sukuma. Felt (III JMA) at Nabeaka, (II JMA) at Miyazaki and Oita, (I JMA) at Kagashima, Kyushu.
	08	04	22	04.3	40.356	N	122.080	W	5	G			0.9	10 NORTHERN CALIFORNIA. ML 2.9 (BRK).
	08	04	26	17.9	39.192	N	27.818	E	10	G			0.5	8 TURKEY
	08	04	26	48.1*	31.620	S	69.695	W	33	N			1.0	11 SAN JUAN PROVINCE, ARGENTINA
	08	04	45	35.8	62.567	N	151.271	W	113	*			0.8	37 CENTRAL ALASKA
	08	05	41	53.6%	38.365	N	28.095	E	10	G			1.3	5 TURKEY
	08	06	28	21.5*	39.222	N	27.839	E	10	G			1.1	8 TURKEY
	08	06	43	06.5*	30.785	S	177.878	W	33	N	5.1		1.4	23 KERMADEC ISLANDS
	08	06	48	52.1%	32.696	S	72.004	W	10	G			0.7	9 OFF COAST OF CENTRAL CHILE
	08	06	59	38.3	36.901	N	117.986	W	5	G			0.7	17 CALIFORNIA-NEVADA BORDER REGION. ML 3.6 (PAS).
	08	07	34	52.4%	32.875	S	70.488	W	33	N			1.3	6 CHILE-ARGENTINA BORDER REGION
o	08	07	41	47.0	36.583	S	177.685	E	25		5.4	5.4	1.2	44 OFF E. COAST OF N. ISLAND, N.Z.
	08	08	02	19.6*	37.156	N	21.760	E	52	*	4.0		1.3	25 SOUTHERN GREECE
	08	08	55	12.0*	25.272	N	122.179	E	213		4.2		0.5	11 TAIWAN REGION
	08	08	57	26.6*	1.503	S	77.693	W	196	*	4.5		0.9	14 ECUADOR
	08	09	33	31.2	38.145	N	106.364	E	33	N	4.1		1.1	13 NORTHERN CHINA
	08	09	57	32.1*	36.431	S	177.770	E	33	N	5.0		1.1	19 OFF E. COAST OF N. ISLAND, N.Z.
	08	10	27	06.1*	16.319	S	120.936	E	33	N	4.6		1.5	10 NORTHWEST OF AUSTRALIA
	08	10	28	22.5	39.283	N	27.853	E	10	G			0.8	15 TURKEY
	08	10	55	05.8*	31.309	S	70.320	W	33	N			1.1	9 CHILE-ARGENTINA BORDER REGION
	08	12	11	37.5?	36.57	S	178.31	E	33	N	4.8		1.0	9 OFF E. COAST OF N. ISLAND, N.Z.
	08	12	55	47.0%	33.513	S	70.589	W	33	N			1.5	9 CHILE-ARGENTINA BORDER REGION
	08	13	16	46.6?	31.68	S	69.04	W	134	?			0.9	12 SAN JUAN PROVINCE, ARGENTINA
	08	13	34	47.8	34.699	N	26.841	E	33	N	4.4		1.2	24 CRETE. ML 4.3 (ATH).
	08	16	06	41.7	21.144	S	67.960	W	166	D	5.1		1.1	64 CHILE-BOLIVIA BORDER REGION
	08	16	08	37.6%	18.294	N	101.081	W	33	N			0.6	6 GUERRERO, MEXICO
	08	16	26	56.6%	33.488	S	70.676	W	33	N			1.1	7 CHILE-ARGENTINA BORDER REGION
	08	16	37	58.0%	39.310	N	27.822	E	10	G			1.5	5 TURKEY
	08	17	10	41.1*	31.475	S	67.868	W	10	G			1.2	9 SAN JUAN PROVINCE, ARGENTINA
	08	17	49	09.7*	11.404	S	66.351	E	10	G	4.4		1.3	16 MID-INDIAN RISE
	08	19	37	04.8	26.341	S	27.549	E	5	G			1.0	9 REPUBLIC OF SOUTH AFRICA
	08	20	07	41.1?	44.99	N	28.57	E	10	G			0.8	7 ROMANIA
	08	20	18	49.9?	34.10	S	71.88	W	10	G			1 3	9 NEAR COAST OF CENTRAL CHILE
	08	21	06	09.3*	51.219	N	177.923	E	57	*	4.5		1.2	17 RAT ISLANDS, ALEUTIAN ISLANDS
	08	23	19	48.4?	28.20	N	130.65	E	10	G	4.4		1.0	11 RYUKYU ISLANDS. Felt (II JMA) at Naze.
	08	23	33	33.4	43.376	N	12.535	E	10	G			1.2	43 CENTRAL ITALY
	08	23	43	46.2*	33.416	S	68.227	W	33	N			1.4	6 MENDOZA PROVINCE, ARGENTINA
	09	01	19	02.8	32.875	S	69.136	W	33	N			1.0	14 MENDOZA PROVINCE, ARGENTINA
a	09	01	32	38.9	20.754	S	179.085	W	662	D	5.3		1.0	172 FIJI ISLANDS REGION
	09	01	53	47.0*	16.528	N	60.779	W	25				0.5	10 LEEWARD ISLANDS
	09	03	12	57.4*	43.276	N	11.785	E	10	G			1.2	7 CENTRAL ITALY. ML 3.5 (KBA).
	09	03	20	09.8	6.423	S	150.524	E	33	N	5.3	4.5	1.4	45 NEW BRITAIN REGION
	09	04	27	19.3	2.776	N	98.953	E	174		4.1		1.3	28 NORTHERN SUMATERA
	09	05	46	13.2&	47.064	N	120.058	W	2					13 WASHINGTON. <SEA>. ML 3.2 (NEIS).
	09	06	09	26.8%	32.490	S	71.420	W	27				0.4	9 NEAR COAST OF CENTRAL CHILE
	09	06	21	51.6*	28.265	S	70.776	W	173	?			0.9	20 CENTRAL CHILE
	09	06	31	17.3*	35.338	N	69.832	E	45	*	4.8		0.9	49 HINDU KUSH REGION
	09	07	29	58.8*	36.105	N	114.783	W	5	G			0.6	11 SOUTHERN NEVADA. ML 2.6 (NEIS). Felt at Boulder City.
	09	08	03	45.8%	39.282	N	27.867	E	10	G			0.7	8 TURKEY
	09	10	03	24.5?	13.23	N	87.56	W	213	?	4.6		1.4	19 HONDURAS
	09	10	28	21.9	2.609	N	79.637	W	33	N	4.9		1.1	38 SOUTH OF PANAMA
	09	14	14	41.0*	57.565	N	5.972	E	10	G			0.3	6 NORTH SEA. ML 2.6 (NB2).
	09	15	03	03.8%	32.703	S	70.664	W	33	N			0.8	7 CHILE-ARGENTINA BORDER REGION
	09	15	42	06.0	42.337	N	18.933	E	10	G			1.4	9 YUGOSLAVIA
a	09	15	56	11.0	44.329	N	149.235	E	35		5.4	4.8	0.9	157 KURIL ISLANDS

	09	16	37	10.2?	30.91	S	69.27	W	140	?			0.9	13	CHILE-ARGENTINA BORDER REGION
	09	16	42	53.6?	6.71	S	148.77	E	63	?	3	9	0.8	6	NEW BRITAIN REGION
	09	17	19	18.8%	39.371	N	27.726	E	10	G			0.9	6	TURKEY
	09	17	22	16.0%	44 985	N	2.741	E	10	G			0 6	10	FRANCE ML 2 9 (LDG)
	09	19	28	21.2&	60.289	N	140.744	W	15		5	7 5.1		262	SOUTHEASTERN ALASKA <AGS-P>. ML 5.4 (PMR) Felt (IV) at Yakutat and (II) at Cape Yakataga. Also felt at Burwash Landing, Haines Junctian and Whitehorse in Yukon Territory, Canada
	09	19	30	51.9&	60.256	N	140.751	W	14					12	SOUTHEASTERN ALASKA. <AGS-P>
	09	19	34	22.0&	60.261	N	140.760	W	14					8	SOUTHEASTERN ALASKA. <AGS-P>.
	09	19	35	38.9%	40.075	N	29.406	E	10	G			0.4	6	TURKEY
	09	20	07	31.2*	35.974	N	70.282	E	111	*	4.8		1.2	24	HINDU KUSH REGION
	09	20	24	22.8*	6.534	S	148.888	E	33	N	3.5		0.5	5	NEW BRITAIN REGION
	09	20	27	43.1*	6.303	S	149.014	E	33	N	4.8		1 3	23	NEW BRITAIN REGION
	09	21	18	19.1*	24.446	N	122.909	E	33	N			0.5	6	TAIWAN REGION
	09	21	22	46.3?	0.06	S	122.32	E	258	?	5.2		1 2	18	MINAHASSA PENINSULA
	09	22	29	17.0*	6.398	N	82.458	W	10	G	5.0		0.8	15	SOUTH OF PANAMA
a	09	23	21	09.1	6.985	S	155.834	E	70		5.7		0.8	201	SOLOMON ISLANDS. Felt (IV) at Panguna and Arawa.
	09	23	42	41.1&	63.878	N	149.123	W	9					44	CENTRAL ALASKA <AGS-P>.
	10	00	09	22.0?	12.83	N	86.18	W	91	D	4.4		1.2	10	NICARAGUA
	10	00	58	41.6*	14.075	N	90.763	E	33	N	5.1		1.0	7	ANDAMAN ISLANDS REGION
	10	01	59	07.4*	4.077	N	82.512	W	10	G			0.9	6	SOUTH OF PANAMA
	10	02	37	20.0?	31.29	S	68.44	W	108	?			1.2	12	SAN JUAN PROVINCE, ARGENTINA
	10	03	05	14.3*	23.888	S	177.854	W	33	N	4.6		0.8	9	SOUTH OF FIJI ISLANDS
	10	04	00	04.0?	44.34	N	148.24	E	33	N	4.8		0.9	26	KURIL ISLANDS
	10	04	22	56.7%	32.421	S	70.950	W	33	N			0.7	7	CHILE-ARGENTINA BORDER REGION
	10	05	47	54.9&	37.262	N	121.658	W	6					18	CENTRAL CALIFORNIA. <BRK>. ML 3.2 (BRK). Mo=8.6*10**20 (BRK). Felt in the San Jose area.
	10	05	48	52.3%	32.446	S	72.054	W	30				0.7	9	OFF COAST OF CENTRAL CHILE
	10	05	58	14.7?	45.39	N	26.67	E	33	N			1.0	5	ROMANIA
	10	06	36	07.1*	8.636	S	158.928	E	139		4.5		0.4	9	SOLOMON ISLANDS
	10	07	02	26.3&	62.317	N	149.593	W	57					25	CENTRAL ALASKA. <AGS-P>.
	10	07	25	08.9	25.346	S	68.785	W	109	*	4.4		1.4	21	CHILE-ARGENTINA BORDER REGION
a	10	07	38	53.3	20.690	S	173.561	W	74	D	4.9		1.2	66	TONGA ISLANDS
	10	09	40	26.4%	39.133	N	27.776	E	10	G			0.2	6	TURKEY
	10	09	40	49.1&	60.246	N	140.691	W	18					15	SOUTHEASTERN ALASKA. <AGS-P>.
	10	10	37	49.8?	18.04	S	178.50	W	701	?			0.5	21	FIJI ISLANDS REGION
	10	12	35	46.3	22.683	S	176.622	W	182	D	5.0		0.9	92	SOUTH OF FIJI ISLANDS
	10	13	02	15.0*	53.494	N	153.664	E	469	?	4	3	0.7	45	SEA OF OKHOTSK
	10	13	57	06.6%	39.292	N	27.674	E	10	G			0.7	5	TURKEY
	10	14	08	31 7*	33 420	S	14.434	W	10	G	4	7	1.0	24	SOUTH ATLANTIC RIDGE
	10	15	29	52.5%	33.441	S	70.947	W	10	G			0.3	6	CHILE-ARGENTINA BORDER REGION
	10	15	30	50.1	36.653	S	177.548	E	33	N	5.0	4.8	0.9	41	OFF E. COAST OF N. ISLAND, N.Z.
	10	15	44	02.2?	51.53	N	177.58	W	33	N			0.4	10	ANDREANOF ISLANDS, ALEUTIAN IS.
	10	15	44	10.8	62.810	N	149.506	W	88	?			0.4	11	CENTRAL ALASKA
	10	17	07	11.5*	17.708	S	64.633	W	33	N			0.0	5	BOLIVIA
	10	17	14	42.1&	61.286	N	146.888	W	31					43	SOUTHERN ALASKA. <AGS-P>.
	10	17	41	24.2*	45.389	N	148.540	E	170	G	4.4		1.1	12	KURIL ISLANDS
a	10	17	47	56.0	10.797	N	43.446	W	10	G	5	8 5.8	1.2	291	NORTH ATLANTIC RIDGE. Ms 5.9 (BRK).
	10	18	46	04 4*	0.127	S	123.170	E	175	*	4.8		1.1	37	MINAHASSA PENINSULA
	10	19	29	39.9*	39.345	N	16.294	E	10	G	4.6		0.8	11	SOUTHERN ITALY
	10	20	00	53 1	19.173	N	120.992	E	30	*	4.6	4.9	1.2	46	PHILIPPINE ISLANDS REGION. Felt (II RF) at Pasuquin and Manila.
	10	20	59	19.3&	59.976	N	152.361	W	75					31	SOUTHERN ALASKA. <AGS-P>.
	10	21	09	37.3*	18.694	S	169.177	E	252	*	4.7		1.2	10	VANUATU ISLANDS
	10	21	45	45.6&	59.380	N	151.271	W	42					15	KENAI PENINSULA, ALASKA. <AGS-P>.
	10	21	50	32.8*	36.477	N	70.596	E	187	?	4.3		1.1	15	HINDU KUSH REGION
	10	23	38	36.3%	32.894	S	70.871	W	33	N			0.9	6	CHILE-ARGENTINA BORDER REGION
	11	00	30	43.4%	44.312	N	6.716	E	10	G			0.2	6	FRANCE. ML 2.9 (LDG).
	11	01	36	47.9*	34.290	S	69.116	W	33	N			1.4	10	CHILE-ARGENTINA BORDER REGION
	11	01	40	22.7	37.445	N	20.233	E	56		4.1		0.9	33	IONIAN SEA
	11	01	57	47.0*	39.343	N	73.131	E	33	N	4.6		1.2	27	TAJIK-XINJIANG BORDER REGION. Felt (IV) at Sary-Tash and (III) at Daraut-Kurgan, USSR.
	11	02	08	37.5?	25.01	S	69.31	W	201	?			1.0	10	NORTHERN CHILE
	11	02	58	38.0?	16 99	S	173.28	W	140	G	4	0	1 3	10	TONGA ISLANDS
	11	04	28	10.1%	14.535	N	59.955	W	33	N			0.6	8	WINDWARD ISLANDS
	11	04	50	11.5*	36.606	S	177.592	E	33	N	4.8		0.8	16	OFF E. COAST OF N. ISLAND, N.Z.
a	11	06	25	48.3	54.158	S	143.967	E	10	G	5.3	5.6	1.3	79	WEST OF MACQUARIE ISLAND
a	11	09	03	32.8	51.692	N	175.321	W	59		5.2		0.9	134	ANDREANOF ISLANDS, ALEUTIAN IS. Felt (IV) an Adak.
	11	09	10	30.6	27.778	S	69.345	W	107		4.9		1.3	47	NORTHERN CHILE
	11	09	43	04.1*	1.692	S	79.810	W	33	N	4.4		0.7	8	ECUADOR
	11	10	39	22.5%	34.541	S	70.855	W	10	G			0.3	8	CHILE-ARGENTINA BORDER REGION
	11	12	28	28.3&	59.843	N	152.241	W	71					31	SOUTHERN ALASKA. <AGS-P>.
	11	13	07	56.7&	47.906	N	122.871	W	20					6	WASHINGTON. <SEA>. ML 3.1 (NEIS). Felt (IV) at Quilcene and (III) at Poulsbo, Brinnan and Port Gamble. Also felt at Port Townsend.
	11	13	38	13.8*	63.240	N	152.193	W	33	N			1.6	7	CENTRAL ALASKA. ML 3.0 (PMR).
a	11	14	30	59.5	2.655	S	68.000	E	10	G	5.3	5.5	1.1	50	CARLSBERG RIDGE
a	11	14	41	58.5	0.196	N	123.582	E	189		5.9		1.2	318	MINAHASSA PENINSULA
	11	15	04	54.4*	2.598	S	68.007	E	10	G	4.8		1.2	14	CARLSBERG RIDGE
	11	15	50	02.6*	59.271	S	26.885	W	33	N	4.9		1.0	10	SOUTH SANDWICH ISLANDS REGION
	11	17	08	37.8%	16.382	N	95.760	W	33	N			1.5	6	OAXACA, MEXICO
	11	18	19	53.9&	59.668	N	153.008	W	99					19	SOUTHERN ALASKA. <AGS-P>.
	11	18	24	26.8*	7.035	N	76.436	W	42	*	4.7		0.8	44	NORTHERN COLOMBIA
	11	19	38	16.2?	33.01	S	72.11	W	10	G			0.6	11	OFF COAST OF CENTRAL CHILE
	11	20	04	07.9	63.104	N	150.429	W	42	*	4.1		1.0	25	CENTRAL ALASKA. ML 4.1 (PMR).
	11	20	30	17.8&	60.123	N	152.078	W	58					24	SOUTHERN ALASKA. <AGS-P>.
	11	20	30	36.9?	7.83	S	127.41	E	157	?	3.8		0.9	7	BANDA SEA
	12	00	20	34.6*	13.396	S	30.505	E	33	N			1.3	5	ZAMBIA
	12	01	03	28.9*	37.080	N	142.214	E	48	*	4.8		0.8	20	OFF EAST COAST OF HONSHU, JAPAN
	12	01	30	57.4*	35.415	N	140.431	E	38	*	4.4		0.7	9	NEAR EAST COAST OF HONSHU, JAPAN
	12	02	07	39.0*	43.075	N	18.822	E	10	G			0.7	6	YUGOSLAVIA. ML 2.2 (TTG).
	12	03	19	28.3?	18.65	S	174.91	W	233	?	4.6		0.4	8	TONGA ISLANDS

	12	04	47	41.3*	16.476	N	122.333	E	54	*	5.1		1 1	56	LUZON, PHILIPPINE ISLANDS
a	12	04	51	39.7	16.592	N	122.380	E	44		5 2 5 0		1.1	112	LUZON, PHILIPPINE ISLANDS. Felt (III RF) at Manila.
	12	05	54	15.3*	24 689	N	121.493	E	33	N			0 9	7	TAIWAN
	12	08	02	30.1*	36.534	N	70.090	E	159	*	4.4		1 2	22	HINDU KUSH REGION. Felt (III) at Dushanbe, USSR
	12	08	38	02.1	43.438	N	126.694	W	10	G	4.6		0.9	52	OFF COAST OF OREGON
	12	09	28	09.3&	40.392	N	124.927	W	5	G				9	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 2.9 (BRK)
	12	14	39	09.3*	26.198	S	28.189	E	5	G			1.4	6	REPUBLIC OF SOUTH AFRICA
	12	14	48	12.3*	3.810	S	131.181	E	33	N	4 6 4.3		0.9	25	WEST IRIAN REGION
	12	15	20	21.0	43.304	N	147.574	E	45	D	5.0		0.8	51	KURIL ISLANDS
	12	16	46	18.3%	39.048	N	27.808	E	10	G			1.1	6	TURKEY
	12	17	18	56.6	41.993	N	19.672	E	10	G			1.3	10	ALBANIA ML 2.6 (TTG).
	12	17	19	25.2	50.065	N	19.194	E	10	G			1.1	5	POLAND. ML 2.7 (KRA).
	12	17	58	04.0%	45.936	N	2.507	E	10	G			0.2	5	FRANCE ML 1 8 (LDG).
	12	19	11	28.5*	24.034	N	121.513	E	10	G			0.8	6	TAIWAN
	12	22	44	15.5*	35.427	N	141.016	E	33	N	4.5		1.2	14	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Choshi, and (I JMA) at Mito.
	12	22	56	46.5&	62.143	N	150 915	W	75					33	CENTRAL ALASKA. <AGS-P>.
	13	00	20	25.6?	32.51	S	71.35	W	10	G			0.2	8	NEAR COAST OF CENTRAL CHILE
	13	00	48	25.2%	15.553	N	61 269	W	119	?			0.5	9	LEEWARD ISLANDS
	13	01	08	27.0*	36 465	S	177.651	E	33	N	5.2		1.3	14	OFF E. COAST OF N. ISLAND, N.Z.
	13	01	27	37.2?	38.02	S	90.47	W	10	G	4.4		0.9	8	WEST CHILE RISE
	13	01	45	29.6?	33.23	S	70 44	W	111	?			0.5	8	CHILE-ARGENTINA BORDER REGION
	13	03	12	00.9?	39.63	N	118.09	E	33	N			1.9	5	NORTHEASTERN CHINA
	13	05	13	54.7*	32.017	S	68.234	W	106	?			0.9	10	MENDOZA PROVINCE, ARGENTINA
	13	05	27	36.1	42.292	N	143.010	E	46		4.6		1.0	16	HOKKAIDO, JAPAN REGION. Felt (I JMA) at Urakawa.
	13	05	45	24.7*	7.461	S	120.222	E	392	*	4.5		1.3	10	FLORES SEA
	13	05	55	50.2*	31.269	S	68.380	W	109	*			0.8	12	SAN JUAN PROVINCE, ARGENTINA
	13	06	27	07.6%	40.300	N	27.255	E	10	G			1.4	7	TURKEY
	13	06	31	58.4*	31.275	S	68.884	W	115	*			0.7	14	SAN JUAN PROVINCE, ARGENTINA
	13	09	02	14.7?	12.85	N	125.85	E	33	N			0.8	6	SAMAR, PHILIPPINE ISLANDS
	13	09	54	31.3*	12.279	S	65.789	E	10	G	4.6		0.6	8	MID-INDIAN RISE
	13	10	10	37.7?	33.95	S	70.70	W	33	N			0.6	6	CHILE-ARGENTINA BORDER REGION
	13	10	13	55.7	43.345	N	12.534	E	10	G			1.3	22	CENTRAL ITALY. ML 3.4 (KBA).
	13	10	25	02.3*	41.163	N	19.982	E	10	G			1.4	7	ALBANIA. ML 2.6 (TTG), mbLg 2.5 (SKO).
	13	10	25	53.8	41.102	N	19.984	E	10	G			0.9	12	ALBANIA. ML 3.2 (TTG), mbLg 3.3 (SKO).
	13	12	35	52.7*	12.310	S	65.707	E	10	G	4.7		1.1	24	MID-INDIAN RISE
	13	13	03	46.2*	14.934	S	171.485	E	636	*	4.2		1.1	24	VANUATU ISLANDS REGION
	13	15	25	02.1?	36.54	S	177.42	E	33	N	4.0		1.1	6	OFF E. COAST OF N. ISLAND, N.Z.
	13	15	46	12.6?	31 50	S	66.32	W	33	N			0.5	5	LA RIOJA PROVINCE, ARGENTINA
	13	16	00	10.4	22.843	S	68.594	W	103	*	5.0		0.9	16	NORTHERN CHILE
	13	16	01	00.1	36.676	S	177.710	E	33	N	5.5		1.2	34	OFF E. COAST OF N. ISLAND, N.Z.
	13	16	37	02.7*	5.494	S	152.174	E	37	*	4.7		1.4	14	NEW BRITAIN REGION
	13	16	51	59.9*	64.580	N	152.194	W	10	*			1.1	7	CENTRAL ALASKA. ML 3.0 (PMR).
	13	17	42	47.6?	56.54	N	164 01	E	33	N	4.7		0.6	7	KOMANDORSKY ISLANDS REGION
	13	17	49	07.6*	44.641	N	114.194	W	10	G			0.6	11	WESTERN IDAHO. ML 3.4 (NEIS), 3.4 (BUT).
	13	18	05	06.0*	36.498	S	177.810	E	33	N	4.8		0.7	12	OFF E. COAST OF N. ISLAND, N.Z
	13	19	11	03.8*	14.643	S	167.423	E	236	*			1 1	20	VANUATU ISLANDS
	13	20	36	01.8?	41.06	N	20.09	E	5	G			1.9	6	ALBANIA. ML 2.4 (TTG), mbLg 2.2 (SKO).
	13	21	15	14.7*	63.329	N	24.215	W	10	G	4 4		0.8	17	ICELAND REGION
	13	21	16	18.1*	12.449	S	65.757	E	10	G	4.8 4.7		1.1	25	MID-INDIAN RISE
	13	21	20	01.9	20.675	S	177.838	W	531		5.0		0 7	54	FIJI ISLANDS REGION
a	13	21	51	22.1	24.107	N	122.433	E	43		5.8 5.3		1.0	267	TAIWAN REGION. Felt on Taiwan.
	13	21	57	14.7%	33.406	S	70.798	W	33	N			0.6	5	CHILE-ARGENTINA BORDER REGION
	13	22	02	37.9&	57.965	N	156.039	W	142					35	ALASKA PENINSULA. <AGS-P>
	13	22	21	14.1	36.359	N	115.802	W	11				0 5	18	CALIFORNIA-NEVADA BORDER REGION. ML 3.5 (PAS).
a	13	23	04	08.7	12.354	S	65.789	E	10	G	5 0 4 9		1.1	65	MID-INDIAN RISE
	13	23	04	43.3?	38.04	N	30.00	E	10	G			1.0	5	TURKEY
	13	23	13	55.5*	12.392	S	65.809	E	10	G	5.0		1.0	33	MID-INDIAN RISE
	13	23	27	40.0*	12.197	S	65.343	E	10	G	4 7		0.6	7	MID-INDIAN RISE
a	14	02	36	31.3	46.145	N	149.470	E	22	D	5.3 4.7		0.9	102	KURIL ISLANDS
	14	04	44	55.8*	34.349	N	129.868	E	10	G			1.5	7	SOUTH KOREA. Felt (III JMA) at Izuhara, Kamina-shima and (I JMA) at Fukuaka, Kyushu, Japan.
	14	04	46	42.6*	36.401	S	177.653	E	33	N	4.8		0.6	11	OFF E. COAST OF N. ISLAND, N.Z.
	14	04	48	57.5?	23.69	N	122.28	E	33	N			0 4	6	TAIWAN REGION
	14	05	10	35 4	52 364	N	179 812	W	213		5 0		0 8	152	ANDREANOF ISLANDS, ALEUTIAN IS
	14	06	49	45.0	37.212	N	135.096	E	388		4.4		0.9	29	SEA OF JAPAN
	14	06	51	52.2*	23.198	N	120.821	E	10	G			1.0	5	TAIWAN
	14	07	15	05.3	23.181	N	142.133	E	129	*	4.8		0.9	37	VOLCANO ISLANDS REGION
	14	07	59	56.8*	12.512	S	65.787	E	10	G	4.9		1.0	22	MID-INDIAN RISE
	14	08	58	24.9?	33.97	S	71.59	W	10	G			0.5	5	NEAR COAST OF CENTRAL CHILE
	14	09	16	04.6*	31.717	S	69.015	W	123	*			0.8	11	SAN JUAN PROVINCE, ARGENTINA
	14	10	01	05.0&	59.905	N	151.536	W	69					35	KENAI PENINSULA, ALASKA. <AGS-P>.
	14	10	52	30.7	46.072	N	149.543	E	33	N	4.7 4.3		1.0	33	KURIL ISLANDS
	14	10	52	41.5?	33.33	S	72.19	W	10	G			0.2	6	OFF COAST OF CENTRAL CHILE
	14	11	10	34.2	58.577	S	25.556	W	33	N	5.1		0.9	30	SOUTH SANDWICH ISLANDS REGION
	14	11	39	09.9*	1.824	N	128.071	E	129	?	4.6		0.9	12	HALMAHERA
	14	11	51	54.1?	31.41	S	69.84	W	161	?			0.4	11	SAN JUAN PROVINCE, ARGENTINA
	14	12	01	35.5?	33.32	S	72.28	W	10	G			0.3	8	OFF COAST OF CENTRAL CHILE
	14	12	25	42.7?	14.17	N	93.21	W	33	N	4.6		0.9	11	NEAR COAST OF CHIAPAS, MEXICO
	14	14	23	57.7?	31.23	S	68.41	W	103	*			1.0	12	SAN JUAN PROVINCE, ARGENTINA
	14	14	37	34.0*	7.765	S	131.197	E	33	N			1.0	6	TANIMBAR ISLANDS REGION
	14	14	54	24.8?	5.19	S	119.18	E	101	?	3.4		1.4	5	SULAWESI. Felt (II) in the Gawa region.
	14	16	01	55.1&	60.210	N	152.526	W	90					41	SOUTHERN ALASKA. <AGS-P>.
	14	16	50	58.5*	38.835	N	21.121	E	10	G			1.2	8	GREECE. ML 3.4 (ATH).
	14	18	28	42.7?	45.31	N	9.87	E	10	G			1.1	6	NORTHERN ITALY
	14	20	00	51.5?	32.40	S	71.25	W	33	N			0.4	9	NEAR COAST OF CENTRAL CHILE
	14	21	57	51.1&	32.050	N	116.460	W	9					5	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.3 (PAS).
	14	22	04	56.2*	39.882	N	53.639	E	33	N		4.0	0.9	6	TURKMEN SSR
a	14	22	06	28.6	14.421	S	171.192	E	33	N	5.0 4.6		1.3	37	VANUATU ISLANDS REGION
	14	22	18	58.3*	31.164	S	67.905	W	10	G			0.3	5	SAN JUAN PROVINCE, ARGENTINA
a	14	22	40	05.5	22.176	S	170.078	E	35	*	5.1 5.2		1.3	61	LOYALTY ISLANDS REGION
	14	23	07	29.9*	51.649	N	171.895	W	33	N	4.5		1.1	18	FOX ISLANDS, ALEUTIAN ISLANDS
	15	01	15	43.7*	35.884	N	140.374	E	67	*	4.2		0.9	9	NEAR EAST COAST OF HONSHU, JAPAN

	15	02 07 33.7*	29.625	S	71.890	W	33	N			0 7	14	NEAR COAST OF CENTRAL CHILE
	15	02 10 20.0	32.978	S	70.561	W	102	*			0.2	14	CHILE-ARGENTINA BORDER REGION
	15	03 18 32.1	25.633	N	125.281	E	33	N	4.8		0 8	20	SOUTHWESTERN RYUKYU ISLANDS
	15	03 21 27.6&	61.364	N	150.352	W	52					39	SOUTHERN ALASKA. <AGS-P>. Felt (II) at Anchorage and Knik.
	15	03 37 46.7*	39.375	N	104.358	E	33	N	4.2		1.4	13	NORTHERN CHINA
	15	04 20 59.4*	50.444	N	7.368	E	10	G			1.3	9	GERMANY mbLg 2.7 (DOU).
	15	05 16 42.9?	32.33	S	71.89	W	10	G			0.8	10	NEAR COAST OF CENTRAL CHILE
	15	05 31 20.5?	34.66	S	70.58	W	117	?			0.1	8	CHILE-ARGENTINA BORDER REGION
	15	06 11 42.6%	39.496	N	28.668	E	10	G			0.5	8	TURKEY
	15	06 26 51.9?	32.97	S	70.28	W	105	?			0.3	10	CHILE-ARGENTINA BORDER REGION
a	15	09 56 48.8	25.492	N	125.239	E	44		5.2	5.2	1.1	83	SOUTHWESTERN RYUKYU ISLANDS. Felt (II JMA) on Miyako-jima.
a	15	10 25 38.3	6.277	S	154.599	E	54		5.5	5.7	1.0	93	SOLOMON ISLANDS Felt (IV) at Arawa and Panguna, Bougainville.
	15	11 22 11.1*	25.487	N	125.298	E	33	N	4.5		0.9	11	SOUTHWESTERN RYUKYU ISLANDS
	15	11 38 12.7	43.137	N	146.275	E	53		4.9	4.8	0.9	45	KURIL ISLANDS. Felt (II JMA) at Nemuro, Hakkaido.
	15	12 00 11.3	16.481	N	98.051	W	30	D	5.1		1.0	99	NEAR COAST OF GUERRERO, MEXICO. Felt at Oaxaca and (III) in the Mexico City area.
	15	13 01 57.5*	6.276	S	154.838	E	60	*	4.7		1.2	16	SOLOMON ISLANDS
	15	13 04 29.4	25.419	N	125.271	E	33	N	4.9		1.3	33	SOUTHWESTERN RYUKYU ISLANDS. Felt (I JMA) on Miyako-jima.
	15	13 09 50.4*	25.509	N	125.305	E	33	N	4.4		0.2	5	SOUTHWESTERN RYUKYU ISLANDS
	15	13 13 58.1?	40.79	N	26.41	E	10	G			1.1	6	TURKEY
	15	14 49 06.4*	31.721	S	70.245	W	144	?			0.3	12	CHILE-ARGENTINA BORDER REGION
	15	15 37 09.4?	6.47	S	31.75	E	10	G	4.2		1.8	5	LAKE TANGANYIKA REGION
	15	16 02 43.5?	30.24	S	178.17	W	103	?	5.0		1.2	16	KERMADEC ISLANDS
	15	16 09 18.6	44.055	N	21.326	E	10	G			1.3	13	YUGOSLAVIA
	15	17 02 01.9*	43.082	N	1.363	W	10	G			1.1	12	PYRENEES. ML 3.2 (LDG).
	15	19 53 51.5	46.090	N	8.186	E	10	G			1.0	13	SWITZERLAND. ML 2.8 (LDG).
	15	21 00 04.5?	45.58	N	15.06	E	10	G			0.6	4	YUGOSLAVIA. ML 2.6 (KBA). Felt (V) at Vinica.
	15	21 09 21.9*	3.180	N	89.703	E	33	N	4.5		1.1	11	NORTH INDIAN OCEAN
	15	21 17 09.2*	38.812	N	23.435	E	10	G			1.2	10	GREECE. ML 3.5 (ATH).
a	15	22 36 33.9	10.316	S	165.039	E	33	N	5.5	5.7	1.1	142	SANTA CRUZ ISLANDS
	15	22 36 38.5	39.525	N	25.189	E	10	G			1.0	19	AEGEAN SEA. ML 3.5 (ATH).
	15	23 13 39.1?	4.13	S	129.23	E	33	N	4.8		1.2	11	BANDA SEA
	16	01 10 20.1?	26.95	S	72.19	W	33	N			0.8	8	OFF COAST OF NORTHERN CHILE
	16	04 45 06.7	66.827	N	153.449	W	15	G			0 9	10	ALASKA. ML 3.8 (PMR).
	16	06 05 21.5%	32 992	S	70.723	W	33	N			1 5	8	CHILE-ARGENTINA BORDER REGION
	16	06 19 40.4?	16.90	N	100 06	W	33	N			1 0	5	NEAR COAST OF GUERRERO, MEXICO
	16	07 04 32.5?	29.93	S	69.86	W	33	N			1 1	7	CHILE-ARGENTINA BORDER REGION
	16	07 29 41.0&	44 780	N	110 405	W	1					12	YELLOWSTONE NATIONAL PARK, WYO. <SLC>. ML 3.4 (NEIS), 3.6 (BUT). Felt (III) at Canyon Village.
	16	07 36 12.6&	40 683	N	125.198	W	5	G				15	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.7 (BRK). Mo=2.6*10**21 (BRK).
	16	08 09 04.5%	33.418	S	71.686	W	33	N			0.5	6	NEAR COAST OF CENTRAL CHILE
	16	08 45 38.1	32.879	N	95.356	E	33	N	5.0	4.5	1.1	56	TIBET
	16	09 00 44.1?	12.84	S	117.74	E	33	N	4.3		1.4	9	SOUTH OF SUMBAWA ISLAND
	16	09 46 49.5%	32.774	S	70.928	W	33	N			0.6	9	CHILE-ARGENTINA BORDER REGION
	16	10 52 22.3&	59.101	N	137.692	W	15					17	SOUTHEASTERN ALASKA <AGS-P>. ML 3.3 (PMR).
	16	14 03 00.5*	32.950	N	95.084	E	33	N	4.3		1.7	9	TIBET
	16	14 28 59.1&	60.050	N	152.690	W	95					24	SOUTHERN ALASKA. <AGS-P>.
	16	14 37 06.2*	14.310	S	166.974	E	33	N	4.7		1.2	34	VANUATU ISLANDS
	16	14 40 12.9%	32.590	S	71.660	W	24				0 3	8	NEAR COAST OF CENTRAL CHILE
	16	16 15 22.9	46.530	N	2.936	E	10	G	5.3		0.7	19	FRANCE. ML 3.3 (LDG).
	16	16 24 01.0%	39.775	N	27.801	E	10	G			1.4	8	TURKEY
	16	17 29 13.4	48.055	N	6.498	E	10	G			1.2	16	FRANCE. ML 3.2 (LDG)
	16	18 52 21.5?	32.18	S	71.06	W	33	N			0.1	5	NEAR COAST OF CENTRAL CHILE
	16	19 06 43.9%	46.499	N	2.968	E	10	G			0.2	5	FRANCE. ML 2.2 (LDG).
	16	19 07 54.6*	26.810	S	26.615	E	10	G			1.4	11	REPUBLIC OF SOUTH AFRICA
	16	20 26 22.8?	15.99	N	62.03	W	143	?			0.9	8	LEEWARD ISLANDS
	16	21 00 25.1	3.700	S	101.882	E	67	*	5.3		0.9	49	SOUTHERN SUMATERA. Felt (III) at Bengkulu.
	16	23 35 59.0	40.760	N	19.196	E	23		5.3	4.9	1.4	176	ALBANIA Felt (V) at Fier and Vlore and (IV) in the Berat area. Felt (IV) in southeastern Yugoslavia; also felt in southern Italy
	16	23 39 56.1?	40.56	N	19.01	E	10	G			1.1	6	ALBANIA
	16	23 49 23.1*	39.743	N	20.262	E	10	G			1.0	9	GREECE-ALBANIA BORDER REGION. ML 2.8 (TTG).
	17	00 22 54.5*	40.600	N	19.316	E	10	G			1.1	8	ALBANIA. ML 2.8 (TTG).
	17	01 38 13.2?	40.73	N	27.50	E	10	G			1.1	6	TURKEY
	17	01 40 02.0?	31.74	S	69.97	W	33	N			1.4	9	SAN JUAN PROVINCE, ARGENTINA
	17	02 01 27.3	38.741	N	119.416	W	11				1.0	25	CALIFORNIA-NEVADA BORDER REGION. ML 3.8 (BRK). Mo=7.3*10**21 (BRK). Felt (IV) at Tapaz, Califarnia.
	17	02 02 48.4	33.229	S	70.075	W	14				1.0	18	CHILE-ARGENTINA BORDER REGION
	17	03 11 35.0	46.517	N	2.919	E	10	G			0.4	20	FRANCE. ML 3.3 (LDG).
	17	03 16 37.9%	46.561	N	2.926	E	10	G			0.7	8	FRANCE. ML 2.2 (LDG).
	17	03 41 25.7	46.491	N	2.932	E	10	G			0.9	16	FRANCE. ML 3.0 (LDG).
	17	03 44 19.2%	33.147	S	70.003	W	11	*			0.4	6	CHILE-ARGENTINA BORDER REGION
	17	03 47 14.8%	46.542	N	2.931	E	10	G			0.8	10	FRANCE. ML 2.6 (LDG).
	17	03 48 07.3	20.439	S	68.868	W	117	D	5.0		1.1	74	CHILE-BOLIVIA BORDER REGION. Felt at Iquique, Chile.
	17	04 24 54.4?	33.90	S	111.52	W	10	G	4.6		0.9	15	EASTER ISLAND CORDILLERA
	17	04 41 27.8%	46.593	N	2.828	E	10	G			0.8	7	FRANCE. ML 2.0 (LDG).
	17	05 08 19.5%	46.545	N	2.920	E	10	G			0.9	9	FRANCE. ML 2.6 (LDG).
	17	05 08 54.4*	17.922	N	94.839	W	33	N			1.1	8	CHIAPAS, MEXICO
	17	05 23 56.9%	46.468	N	2.513	E	10	G			0.5	9	FRANCE. ML 2.1 (LDG).
	17	06 26 41.9	43.140	N	20.833	E	10	G			1.0	11	YUGOSLAVIA. ML 2.6 (TTG).
	17	06 30 12.6*	43.251	N	20.961	E	10	G			1.0	6	YUGOSLAVIA. ML 2.2 (IVA).
	17	06 41 42.3	31.828	S	69.671	W	151	*			0.5	17	SAN JUAN PROVINCE, ARGENTINA
	17	07 21 06.4	41.518	N	142.054	E	63		4.6		1.1	23	HOKKAIDO, JAPAN REGION
	17	07 32 53.8?	36.18	N	139.91	E	33	N			0.7	7	HONSHU, JAPAN
	17	07 59 15.6*	50.250	S	112.723	E	10	G	5.1		0.9	25	SOUTHEAST INDIAN RISE
	17	09 18 53.7?	33.47	S	70.45	W	83	?			0.3	7	CHILE-ARGENTINA BORDER REGION
	17	09 31 05.3%	46 489	N	2.967	E	10	G			0.3	8	FRANCE. ML 2.9 (LDG).
	17	10 10 56.7%	33.167	S	70.045	W	12	*			0.1	6	CHILE-ARGENTINA BORDER REGION

	17	10	26	38.3*	19 282	S	70.022	W	48 *	5.1	1 1	31	NEAR COAST OF NORTHERN CHILE. Felt (IV) at Iquique and Pozo Almonte
	17	10	31	15.4%	33.674	S	70.575	W	94 ?		0 2	8	CHILE-ARGENTINA BORDER REGION
	17	10	56	02 1?	33.69	S	70.33	W	105 ?		0.2	9	CHILE-ARGENTINA BORDER REGION
	17	11	17	27 3	28.798	N	142.413	E	33 N	5.1 4.7	1.2	98	BONIN ISLANDS REGION
	17	12	41	54.3?	15.97	N	96.88	W	33 N		1.6	7	NEAR COAST OF OAXACA, MEXICO
	17	13	51	16.9	51.300	N	19.342	E	10 G		0.5	12	POLAND ML 3.9 (VKA).
	17	14	36	57.6?	15.45	N	98.19	W	33 N		0.6	7	OFF COAST OF GUERRERO, MEXICO
	17	15	08	51.4?	17.82	N	61.49	W	33 N		0.9	6	LEEWARD ISLANDS
	17	16	39	22.3?	24.00	S	66.57	W	234 ?		0.4	6	JUJUY PROVINCE, ARGENTINA
	17	17	58	18.6?	15.92	S	178.05	W	383 ?	4.1	1.2	11	FIJI ISLANDS REGION
	17	19	16	18.7	19.324	S	175.546	W	139 *	5.2	0.9	58	TONGA ISLANDS
	17	19	22	16.0	60.325	N	150.757	W	60	4.6	1.1	76	KENAI PENINSULA, ALASKA. Felt (IV) at Ninilchik and (III) at Homer, Moose Pass and Tyanek. Also felt at Anchorage, Kenai and Seward.
	17	19	27	21.1&	60.277	N	150 772	W	44			48	KENAI PENINSULA, ALASKA. <AGS-P>.
	17	20	00	56.8?	19.52	N	120 60	E	33 N		1.7	11	PHILIPPINE ISLANDS REGION
	17	20	18	49.7%	15.490	N	61.596	W	168 ?		0.3	11	LEEWARD ISLANDS
	17	20	49	55.7*	4.301	N	124.219	E	33 N	4.8	0.7	14	CELEBES SEA
o	17	21	33	09.4	3.782	S	141.772	E	34	5.7 5.8	1.2	172	PAPUA NEW GUINEA
	17	21	39	58.1?	33.13	S	70.10	W	33 N		1.2	6	CHILE-ARGENTINA BORDER REGION
	17	21	44	11.2	3.684	S	141.734	E	28	5.8 5.8	1.1	207	PAPUA NEW GUINEA
	17	22	10	13.3	36.351	N	70.662	E	200 *	4.6	0.9	22	HINDU KUSH REGION
	17	22	25	16.1	38.899	N	21.091	E	10 G		1.3	22	GREECE. ML 3.6 (ATH), 4.0 (SKO).
	17	23	30	41.5%	39.391	N	28.763	E	10 G		1.0	7	TURKEY
	18	00	07	14.1	29.101	S	68.637	W	118 *		1.1	21	SAN JUAN PROVINCE, ARGENTINA
	18	03	18	00.9%	34.138	S	70.318	W	10 G		0.4	5	CHILE-ARGENTINA BORDER REGION
	18	03	34	06.3*	3.695	S	141.689	E	53 *	5.0	0.9	9	PAPUA NEW GUINEA
	18	03	38	07.9	44 703	N	114.151	W	10 G		0.6	15	WESTERN IDAHO. ML 3.7 (NEIS), 3.7 (BUT). Felt (III) at Cobalt and (II) at Ellis. Also felt at Challis.
	18	04	25	30.7?	8.89	N	75.22	W	33 N		0.7	5	NORTHERN COLOMBIA
	18	04	45	16.7%	46 499	N	2.960	E	10 G		0.3	6	FRANCE. ML 2.5 (LDG).
	18	04	57	15.0*	14 003	N	92.811	W	53 *	4.7	1.1	23	NEAR COAST OF CHIAPAS, MEXICO
	18	05	20	31.3?	16.17	S	171.37	E	33 N	4.0	1.1	6	VANUATU ISLANDS REGION
	18	05	36	42.7%	32.699	S	71.297	W	33 N		0.4	5	NEAR COAST OF CENTRAL CHILE
	18	06	02	48.2*	7 008	N	73.281	W	150 ?		1.0	8	NORTHERN COLOMBIA
	18	06	19	16.3?	23.32	N	101.05	E	33 N	4.4	1.3	12	YUNNAN PROVINCE, CHINA
	18	06	37	28.2*	17.965	S	69.657	W	137 *	4.2	1.3	10	PERU-BOLIVIA BORDER REGION
	18	08	40	55.3?	33.52	S	70.74	W	33 N		1.3	7	CHILE-ARGENTINA BORDER REGION
	18	10	05	48.9*	3.985	S	141.791	E	B1 *	4.7	0.9	19	PAPUA NEW GUINEA
	18	10	34	00.2%	31.725	S	68.161	W	33 N		0.6	5	SAN JUAN PROVINCE, ARGENTINA
	18	10	53	15.4%	60.304	N	5.356	E	10 G		0.4	5	SOUTHERN NORWAY
	18	11	04	30.8*	46.419	N	12.742	E	10 G		0.9	9	NORTHERN ITALY. ML 2.6 (KBA). Felt (III) in the Friuli area.
	18	14	18	33.5?	33.96	S	70.81	W	33 N		1.3	8	CHILE-ARGENTINA BORDER REGION
	18	14	19	38.2*	9.567	N	84.550	W	48 *	5.0	1.3	23	COSTA RICA. Felt (III) in the San Jose area.
	18	14	40	23.4*	31.907	S	66.791	W	22		1.2	16	LA RIOJA PROVINCE, ARGENTINA
a	18	15	00	09.0	29.374	S	70.793	W	83 D	5.7	1.2	224	CENTRAL CHILE. mb 6.0 (PAS). Damage (VII) in the La Serena-Vicuna area. Felt strongly in northern Chile. Also felt in Cordoba, Mendazo and San Juan Provinces, Argentina.
	18	15	43	12.7*	37.697	N	114.111	W	5 G		0.2	9	SOUTHERN NEVADA. ML 3.0 (NEIS).
	18	17	24	24.2%	33.927	S	71.139	W	33 N		0.2	7	NEAR COAST OF CENTRAL CHILE
	18	17	24	43.0&	33.870	N	115.980	W	11			6	SOUTHERN CALIFORNIA. <PAS-P> ML 3 1 (PAS).
	18	17	56	18.3*	14.899	S	173.434	W	33 N	5.0 5.2	1.4	72	SAMOA ISLANDS REGION
	18	18	09	30.6*	31.071	S	68 706	W	112 *		0.9	15	SAN JUAN PROVINCE, ARGENTINA
	18	18	31	26.8?	31.28	S	72.06	W	33 N		0.2	10	OFF COAST OF CENTRAL CHILE
	18	18	40	07.3	3.881	S	141.647	E	56 *	4.9	1.0	39	PAPUA NEW GUINEA
	18	19	26	19.8*	11.404	S	118.585	E	33 N	4.7	1.0	10	SOUTH OF SUMBAWA ISLAND
	18	23	12	58.7*	29 943	N	42.876	W	10 G	5.2	1.2	22	NORTH ATLANTIC RIDGE
	1B	23	14	33.7*	41.911	N	36.032	W	10 G	4.9 4.5	1.2	23	NORTH ATLANTIC OCEAN
	18	23	16	04.8?	29.96	N	42.80	W	10 G	4.8	0.9	8	NORTH ATLANTIC RIDGE
	18	23	26	00.6	29.880	N	42.709	W	10 G	4.9 4.3	1.0	39	NORTH ATLANTIC RIDGE
	18	23	46	58.2*	15.151	S	174.599	W	188 *	5.0	0.3	13	TONGA ISLANDS
	18	23	55	11 0?	29 93	N	42 82	W	10 G	4 7	1 1	9	NORTH ATLANTIC RIDGE
	19	00	03	27.1*	6.526	S	104.367	E	40 *	5.0	1.2	32	SUNDA STRAIT
	19	00	06	07.6	29 965	N	42 806	W	10 G	4.9 4.4	0.8	51	NORTH ATLANTIC RIDGE
	19	00	30	15.0&	33.990	N	116.400	W	3			20	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.9 (PAS), 4.2 (BRK). Felt (IV) at Moranga Valley. Also felt at Palm Springs, Palm Desert, San Bernardino and Yucca Valley.
	19	02	07	49.5*	0.553	S	132 529	E	33 N	4.4	0.8	10	WEST IRIAN REGION
	19	02	53	30.3*	14.551	N	120.893	E	208 *	4.7	1.0	8	LUZON, PHILIPPINE ISLANDS
	19	03	24	12.6&	33.990	N	116.390	W	3			7	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
	19	03	25	30.8?	31.23	S	68.56	W	105 ?		0.5	5	SAN JUAN PROVINCE, ARGENTINA
	19	04	02	35.7*	0.492	S	132.705	E	33 N	4.7	1.3	15	WEST IRIAN REGION
	19	05	25	07.7*	24.739	N	121.932	E	10 G		0.4	7	TAIWAN
	19	05	30	24.1*	19.093	N	121.621	E	51 *	4.3	1.2	19	PHILIPPINE ISLANDS REGION
	19	06	52	05.3*	24.773	N	122.036	E	10 G		0.5	5	TAIWAN REGION
	19	07	51	36.0*	33.067	S	70.399	W	18 *		0.8	12	CHILE-ARGENTINA BORDER REGION
	19	08	10	44.0*	39.126	N	27.838	E	10 G		0.8	11	TURKEY
	19	08	15	02.7%	39.180	N	27.805	E	10 G		0.8	B	TURKEY
	19	08	16	33.0*	39.171	N	27.799	E	10 G		0.8	9	TURKEY
	19	09	06	44.8	3.423	N	124.729	E	33 N	4.9	1.1	26	CELEBES SEA
	19	11	49	46.6%	39.164	N	27.834	E	10 G		0.6	6	TURKEY
	19	12	37	13.2	29.870	N	42.694	W	10 G	5.0 4.9	0.8	69	NORTH ATLANTIC RIDGE
	19	13	45	51.8?	32.69	S	70.34	W	33 N		1.4	7	CHILE-ARGENTINA BORDER REGION
	19	14	32	49.1	7.230	S	120.327	E	563 *	5.1	1 0	58	FLORES SEA
	19	14	47	32.5	7.280	S	120.307	E	574 *	4.9	1.0	31	FLORES SEA
	19	15	08	37.5*	29.644	S	71.424	W	33 N		1.1	20	NEAR COAST OF CENTRAL CHILE
	19	15	29	02.1?	39.10	N	25.93	E	10 G		0.7	7	AEGEAN SEA
	19	15	43	01.7&	60.598	N	151.352	W	66			32	KENAI PENINSULA, ALASKA. <AGS-P>.
	19	16	08	50.6&	33.900	N	118.470	W	9			7	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS). Felt at Culver City.

	19	16	40	38.4%	33.056	S	70	402	W	20	*		0 1	7	CHILE-ARGENTINA BORDER REGION
	19	20	18	36.7*	38.284	N	20	647	E	10	G		0 9	5	GREECE ML 3 7 (ATH)
	19	20	27	44.8	3.525	S	144	835	E	33	N	4.6	1 0	24	NEAR N COAST OF PAPUA NEW GUINEA
	19	21	17	59.3%	39.813	N	27	722	E	10	G		0 3	5	TURKEY
	19	23	20	51 0*	16.508	S	71	111	W	143	*		1 0	7	SOUTHERN PERU
	20	01	51	43.5	45.560	N	15	128	E	14			1 1	50	YUGOSLAVIA. ML 3.8 (KBA), 3.7 (VKA) Felt in the Crnomelj-Vinica area.
	20	02	05	46.5?	18.26	N	100	62	W	33	N		1 0	5	GUERRERO, MEXICO
	20	02	55	19.6*	22.881	S	66	262	W	275	*		1.0	9	JUJUY PROVINCE, ARGENTINA
	20	03	12	45.8	9.646	S	122	536	E	33	N	5.0 4 5	1.1	79	SAVU SEA
	20	03	22	59.9	20.343	S	68	850	W	135	*	4.4	1.0	15	CHILE-BOLIVIA BORDER REGION
	20	03	36	18.5*	24.017	S	66	729	W	233	?		0.1	5	SALTA PROVINCE, ARGENTINA
	20	03	45	41.8*	24.765	N	122	233	E	41	*	4 4	0.9	12	TAIWAN REGION
	20	04	29	15.3&	62.552	N	151	031	W	92				38	CENTRAL ALASKA <AGS-P>.
	20	06	51	48.3?	12.23	N	90	37	W	33	N		0.9	7	OFF COAST OF CENTRAL AMERICA
	20	07	25	04.7?	32.63	S	71	35	W	33	N		0.6	7	NEAR COAST OF CENTRAL CHILE
	20	08	16	43.9?	32.18	S	71	41	W	33	N		0.8	9	NEAR COAST OF CENTRAL CHILE
	20	08	21	04.0	41.125	N	24	412	E	10	G		0.6	10	GREECE-BULGARIA BORDER REGION
	20	08	52	01.2*	1.515	N	126	955	E	127	*	4.8	1.3	21	MOLUCCA PASSAGE
	20	09	04	37.1?	39.27	N	29	10	E	10	G		0.9	6	TURKEY
	20	09	19	58.3	26.476	N	44	563	W	10	G	4.7 4.7	0.8	22	NORTH ATLANTIC RIDGE
	20	11	02	35.1*	23.897	N	122	182	E	33	N	3.8	1.1	7	TAIWAN REGION
	20	11	55	24.2	3.423	S	134	722	E	33	N	4.9	1.0	43	WEST IRIAN REGION
	20	12	36	18.3	23.925	N	122	045	E	37	*	4.9	1.3	57	TAIWAN REGION
	20	13	03	01.3	10.552	N	62	435	W	104	*	4.5	0.8	15	NEAR COAST OF VENEZUELA
	20	13	35	50.9?	38.60	N	25	58	E	10	G		0.6	5	AEGEAN SEA
	20	13	51	02.0*	18.307	N	102	425	W	92	*	4.5	1.1	24	MICHOACAN, MEXICO
	20	14	08	17.2?	39.22	N	26	45	E	10	G		0.7	5	TURKEY
	20	14	15	22.2	43.282	N	20	673	E	10	G		1.3	19	YUGOSLAVIA. ML 3.2 (TTG). Felt in the Kraljeva area.
	20	14	40	42.9*	55.794	S	25	941	W	33	N	5.3 4.5	1.1	28	SOUTH SANDWICH ISLANDS REGION
	20	14	44	16.6	4.388	N	125	812	E	153	*	4.9	0.9	28	TALAUD ISLANDS
	20	15	10	06.8*	29.815	S	71	337	W	165	?		0.6	14	NEAR COAST OF CENTRAL CHILE
	20	16	55	47.9%	34.064	S	70	981	W	33	N		0.4	5	CHILE-ARGENTINA BORDER REGION
	20	17	31	27.8*	11.540	S	117	242	E	33	N	4.4	1.2	8	SOUTH OF SUMBAWA ISLAND
	20	17	44	23.8*	77.118	N	11	280	E	10	G	4.4	1.1	8	SVALBARD REGION
	20	18	06	23.4	36.428	N	70	886	E	189	D	4 8	0.9	126	HINDU KUSH REGION Felt (III) at Khorog, Dushanbe and Kulyab and (II) at Isfara and Tashkent, USSR.
	20	19	11	44.1	55.789	S	25	989	W	33	N	5.1 4.2	1.2	19	SOUTH SANDWICH ISLANDS REGION
	20	20	19	36.0*	34.158	N	26	232	E	33	N	4.0	1.0	12	CRETE. ML 4.1 (ATH).
	20	21	35	26.7?	17.93	S	173	54	E	33	N	4.8	1.0	12	FIJI ISLANDS REGION
	20	23	09	07.9?	32.54	S	70	85	W	33	N		0.8	7	CHILE-ARGENTINA BORDER REGION
f	21	00	55	22.7	0.953	S	128	507	E	33	N	5.8 6.7	1.3	157	HALMAHERA. Ms 6.6 (BRK)
	21	01	18	27.8	38.293	N	20	588	E	10	G	4.1	1.2	31	GREECE ML 4.1 (ATH)
	21	01	56	56.9?	20.86	S	174	35	W	33	N	4.8	1.3	9	TONGA ISLANDS
	21	02	35	50.1&	61.706	N	151	489	W	78				31	SOUTHERN ALASKA. <AGS-P>.
	21	04	25	39.2*	0.976	S	129	017	E	33	N	4.1	1.4	11	HALMAHERA
	21	04	33	19.7*	5.127	S	145	116	E	71	?	4 8	1.0	9	EAST PAPUA NEW GUINEA REGION
	21	04	41	27.1	1.138	S	128	558	E	33	N	5.3 5.4	1.3	56	HALMAHERA
	21	04	44	19.2*	1.570	S	128	046	E	33	N	5.3	1.3	7	HALMAHERA
	21	05	37	13.1%	46.529	N	2	871	E	10	G		0.4	5	FRANCE. ML 1.9 (LDG).
	21	06	41	51.3?	6.52	S	131	89	E	33	N	4.9	1.5	6	TANIMBAR ISLANDS REGION
	21	07	16	33.7	3.686	S	128	274	E	110	?	4 7	1 1	18	CERAM
	21	07	54	03.9	19.887	S	177	834	W	401		4.9	1.1	60	FIJI ISLANDS REGION
	21	08	10	35.9*	37.174	N	72	468	E	33	N	4.6	1 5	6	TAJIK SSR
	21	09	08	52.9%	46.547	N	2	949	E	10	G		1.1	6	FRANCE. ML 2.1 (LDG).
	21	09	24	45.1?	36.88	S	94	16	W	10	G	4.4	1.4	14	WEST CHILE RISE
	21	10	26	37.6?	32.58	S	70	62	W	10	G		0.5	7	CHILE-ARGENTINA BORDER REGION
	21	11	50	24.1*	23.921	N	121	922	E	13		4.2	1.1	9	TAIWAN
	21	11	55	30.9*	38.530	N	15	377	E	228	*	4.2	0.9	23	SICILY
	21	12	57	15.2	24.765	N	94	454	E	73	*	5.0	0 9	26	BURMA-INDIA BORDER REGION
	21	13	30	27.9	42.613	N	143	760	E	114		4 4	1.1	13	HOKKAIDO, JAPAN REGION. Felt (I JMA) at Kushiro and Obihiro.
	21	13	32	13.0&	33.990	N	116	400	W	3				11	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	21	13	45	46.9*	36.228	N	139	846	E	33	N		1.1	6	HONSHU, JAPAN
	21	13	55	00.3%	39 291	N	27	791	E	10	G		1 0	6	TURKEY
	21	14	05	37.0&	33.990	N	116	390	W	2				10	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	21	16	23	58.6*	5.312	S	151	585	E	102	*	4.5	0.5	13	NEW BRITAIN REGION
	21	18	07	34.4	4.193	N	126	253	E	83	*	4.9	0.9	34	TALAUD ISLANDS
	21	18	22	58.9	39.977	N	27	225	E	10	G		1.3	18	TURKEY
	21	18	41	35.4?	33.66	S	72	10	W	33	N		0.4	7	OFF COAST OF CENTRAL CHILE
	21	18	44	07.7?	52.36	N	20	33	E	10	G		1.2	7	POLAND. ML 3.4 (VKA).
	21	19	00	45.9?	33.69	S	72	15	W	33	N		0.5	7	OFF COAST OF CENTRAL CHILE
	21	19	29	10.9	0.988	S	128	494	E	33	N	4.9 3.5	1.2	42	HALMAHERA
	21	22	42	56.8*	42.492	N	18	468	E	10	G		0.6	6	YUGOSLAVIA. ML 2.4 (BRY), 2.2 (TTG).
	22	00	17	54.4?	32.23	S	71	47	W	33	N		0.4	9	NEAR COAST OF CENTRAL CHILE
	22	00	21	47.7*	23.957	N	121	561	E	31			1.4	14	TAIWAN
	22	01	21	18.6%	33.036	S	71	277	W	33	N		0.8	8	NEAR COAST OF CENTRAL CHILE
	22	02	15	07.5*	38 754	N	20	761	E	10	G		1.0	6	GREECE. ML 3.5 (ATH).
	22	03	07	25.2	0.412	S	132	835	E	33	N	5.0 3.8	1 1	42	WEST IRIAN REGION
	22	03	33	07.2*	3.145	N	96	114	E	33	N	4.6	1.0	9	NORTHERN SUMATERA
	22	05	37	34.5*	37.044	N	71	463	E	33	N	4.5	0.8	7	AFGHANISTAN-USSR BORDER REGION
	22	05	56	15.0*	2.614	N	124	000	E	396	*	4.5	0.9	18	CELEBES SEA
	22	06	01	27.1*	38.976	N	26	926	E	10	G		1.2	10	AEGEAN SEA
	22	06	04	15.3%	33.620	S	70	543	W	33	N		1.4	8	CHILE-ARGENTINA BORDER REGION
	22	07	17	25.6	44.787	N	7	662	E	10	G		0.6	18	NORTHERN ITALY. ML 3.3 (LDG).
o	22	07	57	36.0	5.905	S	104	563	E	33	N	5.6	1.1	148	SOUTHERN SUMATERA
	22	08	53	38.7*	38.892	N	24	981	E	10	G		0.6	8	AEGEAN SEA. ML 3.1 (ATH).
	22	09	29	26.4*	23.881	N	121	628	E	22	*	3.8	0.4	7	TAIWAN
	22	09	32	38.2&	62.269	N	151	170	W	84				35	CENTRAL ALASKA. <AGS-P>.
	22	09	43	27.6%	39.217	N	27	735	E	10	G		1.1	7	TURKEY
	22	11	38	52.8&	33.980	N	116	780	W	17				9	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
	22	11	45	14.2*	43.247	N	20	260	E	10	G		0.4	6	YUGOSLAVIA
	22	11	45	54.7*	9.200	S	119	271	E	33	N	3.5	1.3	7	SUMBA ISLAND REGION

	22	12	31	49	3*	1.739	S	67	735	E	10	G	4 4 4 0	1 0	11	CARLSBERG RIDGE
	22	12	41	36.7&	38.833	N	122.805	W	6						10	NORTHERN CALIFORNIA. <BRK> ML 2.8 (BRK)
	22	13	51	46.2?	6.78	S	129.93	E	133	?	4.4			0 9	9	BANDA SEA
	22	14	10	27.4*	22.676	S	170.715	E	33	N	4 4			1 4	27	LOYALTY ISLANDS REGION
	22	15	08	42.3?	22.32	S	67.22	W	202	?				0 4	5	CHILE-BOLIVIA BORDER REGION
	22	16	52	12.3	10.637	N	125.562	E	97		5.1			1.0	63	LEYTE, PHILIPPINE ISLANDS. Felt (I RF) at Palo.
	22	18	16	30.2&	37.662	N	122.503	W	8						10	CENTRAL CALIFORNIA <BRK> ML 2.7 (BRK). Mo=2.3*10**20 (BRK) Felt at Pacifica, Daly City, Colma and South San Francisco.
	22	20	12	57.2*	25.453	S	70.268	W	72	*				1.5	21	NEAR COAST OF NORTHERN CHILE
	22	21	01	13.9*	31.811	S	68.113	W	33	N				1.3	8	SAN JUAN PROVINCE, ARGENTINA
	22	22	03	36.3	43.097	N	17.9B3	E	10	G				1.4	17	YUGOSLAVIA. ML 3.3 (TTG).
	23	00	39	05.1	6 215	S	149.258	E	74		4.8			1.2	26	NEW BRITAIN REGION
	23	01	10	00 7&	38.800	N	122 790	W	2						12	NORTHERN CALIFORNIA. <BRK>. ML 3.1 (BRK). Mo=2.5*10**21 (BRK) Felt at The Geysers.
	23	01	21	33 6*	42.907	N	18.420	E	10	G				1.1	6	YUGOSLAVIA. ML 3.1 (BRY).
	23	01	23	27 7	39.169	N	36.012	E	10	G	4.5	3.6		1.3	43	TURKEY. Slight damage at Isparta.
	23	01	41	38.0%	39.313	N	27.809	E	10	G				0.5	6	TURKEY
	23	01	55	26.2?	39.62	N	35.29	E	10	G				0.8	6	TURKEY
	23	04	04	03.6	43.249	N	20.930	E	10	G				0.9	10	YUGOSLAVIA. ML 2.4 (PLE). Felt in the Brus area.
	23	05	23	45.1*	23.319	S	70.526	W	33	N				0.8	5	NEAR COAST OF NORTHERN CHILE. Felt (II) at Antofagasta.
	23	05	48	36 7	38.819	N	24.869	E	10	G				0.9	17	AEGEAN SEA. ML 3.2 (ATH).
	23	07	59	12.1*	23.562	S	179.865	W	551	*	4.9			1.0	29	SOUTH OF FIJI ISLANDS
	23	07	59	55.4?	43.01	N	17.94	E	10	G				0.5	5	YUGOSLAVIA. ML 2.5 (TTG).
	23	09	45	29.4%	32.875	S	70.421	W	33	N				1.0	6	CHILE-ARGENTINA BORDER REGION
	23	10	10	1B.3	44.114	N	10.452	E	32		4 9			1.1	97	NORTHERN ITALY ML 4.9 (FUR), 4.4 (TRI), 4.3 (LDG). Felt strongly at Abetone, Bogni di Lucca and Pievepelogo. Also felt at Firenze.
	23	11	01	24.3?	37.87	N	20.33	E	10	G				1.1	5	IONIAN SEA. ML 3.6 (ATH).
	23	11	49	32.9?	37.71	N	26.50	E	33	N				0.4	6	DODECANESE ISLANDS
a	23	12	27	33.3	6.238	S	147.458	E	86		5.0			1 1	83	EAST PAPUA NEW GUINEA REGION
	23	13	17	04.3%	40.207	N	29 166	E	10	G				1.3	5	TURKEY
	23	16	00	45.9	15.747	S	174 779	W	260		5.1			1.2	68	TONGA ISLANDS
	23	16	11	35.7	3B.285	N	20.317	E	20		4.6			1.4	57	GREECE. ML 4.3 (ATH).
	23	16	18	01.2?	33.02	S	71.89	W	33	N				0.6	7	NEAR COAST OF CENTRAL CHILE
	23	16	57	47.7%	33.482	S	71.081	W	33	N				1 1	8	NEAR COAST OF CENTRAL CHILE
a	23	18	02	36.3	14.568	S	175.296	W	33	N	4.9	5 2		0.9	47	SAMOA ISLANDS REGION
	23	19	02	02.5	38.120	S	177.474	E	76		5 3			1.1	46	NORTH ISLAND, NEW ZEALAND
o	23	20	36	17.8	3.898	S	151.597	E	14	*	5 4	5 3		1.2	73	NEW IRELAND REGION Felt (IV) at Raboul, New Britain.
	23	20	36	21.7*	20.544	N	115 660	W	10	G	3 5			1 0	7	EAST CENTRAL PACIFIC OCEAN
	23	20	44	40.3	15.021	S	173 140	W	33	N	5 2	5 4		1 0	71	TONGA ISLANDS
	23	21	21	31 0	5.557	S	147.256	E	200		5.4			1.0	58	EAST PAPUA NEW GUINEA REGION
	23	21	54	51.6	3.691	N	123.082	E	574	*	4 6			0.5	20	CELEBES SEA
	23	22	3B	49.0	33.153	S	70.836	W	10	G				0.4	8	CHILE-ARGENTINA BORDER REGION
	23	22	54	03.4	4.073	S	151.519	E	10	G	4.6			1.1	14	NEW BRITAIN REGION
	23	23	36	05.3?	14.60	S	170 00	E	663	?	4.6			0.7	8	VANUATU ISLANDS REGION
	23	23	59	09.1	37.423	N	118.577	W	5	G				0.8	17	CALIFORNIA-NEVADA BORDER REGION. ML 3.3 (PAS).
	24	00	16	05.9*	24.314	S	66.948	W	214	*				0.5	6	SALTA PROVINCE, ARGENTINA
	24	03	07	37.9*	36.645	N	141.029	E	5B	*	4.3			1.1	11	NEAR EAST COAST OF HONSHU, JAPAN
	24	03	16	04.6	6.273	S	145.453	E	116	*	3.9			0.5	9	PAPUA NEW GUINEA
	24	04	47	21.5%	41.138	N	28.703	E	10	G				0.6	5	TURKEY
	24	05	23	36.5*	4.526	S	152.966	E	33	N	4.5			0.8	9	NEW BRITAIN REGION. Felt (III) at Raboul.
	24	05	25	49.0&	59.417	N	152.647	W	67						34	SOUTHERN ALASKA. <AGS-P>.
	24	05	39	59.0%	32.703	S	70.802	W	33	N				0.7	6	CHILE-ARGENTINA BORDER REGION
	24	06	00	11.8?	31.57	S	69.56	W	33	N				1.2	8	SAN JUAN PROVINCE, ARGENTINA
	24	07	34	26.2	6.172	S	154.795	E	58	*	4.6			1.0	16	SOLOMON ISLANDS. Felt (III) at Arawa, Bougainville
	24	11	06	10.4?	20.43	S	70.71	W	74	?				0.9	5	NEAR COAST OF NORTHERN CHILE
	24	11	27	21.7&	38.140	N	118.838	W	7		4.3				57	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 5.3 (BRK). Mo=2.6*10**23 (BRK). Felt (IV) at Bridgeport, June Lake, Lee Vining and Murphys, California. Also felt (IV) at Hawthorne, Nevada. Felt in Eldorado, Calaveras, Mono and Tuolumne Counties, California.
	24	11	54	55.2?	31.91	S	71.45	W	33	N				0.6	10	NEAR COAST OF CENTRAL CHILE
o	24	12	29	32.4	7.467	S	130.125	E	20	D	5.9	5.2		1.1	203	TANIMBAR ISLANDS REGION
	24	13	30	00 3&	60.445	N	151.443	W	50						37	KENAI PENINSULA, ALASKA <AGS-P>
	24	15	40	5B.5*	31.392	S	67.845	W	10	G				1.5	8	SAN JUAN PROVINCE, ARGENTINA
	24	15	57	39.3%	39.019	N	27.745	E	10	G				0.6	6	TURKEY
	24	16	13	52.3%	33.767	S	70.844	W	33	N				0.7	6	CHILE-ARGENTINA BORDER REGION
	24	17	31	19.3?	33.16	S	70.17	W	33	N				1.1	5	CHILE-ARGENTINA BORDER REGION
	24	17	50	01.0&	60.379	N	151.558	W	50						36	KENAI PENINSULA, ALASKA. <AGS-P>.
	24	17	59	14.9	36.100	N	3.059	W	10	G				1.2	8	STRAIT OF GIBRALTAR
	24	18	27	31.4?	24.67	N	123.23	E	33	N				0.2	5	SOUTHWESTERN RYUKYU ISLANDS
	24	19	14	24.9%	33.449	S	70.944	W	13					0.3	9	CHILE-ARGENTINA BORDER REGION
	24	19	28	02.3?	31.78	S	71.71	W	33	N				0.4	9	NEAR COAST OF CENTRAL CHILE
	24	22	31	42.5	10.710	N	62.205	W	27		4.9			1.0	29	NEAR COAST OF VENEZUELA. Felt (III) on Trinidad, West Indies.
	24	22	48	25.6	1.761	S	100.918	E	107	*	4.8			0.9	22	SOUTHERN SUMATERA
	24	23	12	44.7?	32.63	S	71.79	W	33	N				0.4	9	NEAR COAST OF CENTRAL CHILE
	24	23	25	32.2&	34.000	N	116.400	W	2						13	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS). Felt (III) at Desert Hot Springs and Morongo Valley. Felt (II) at India, North Palm Springs and Twentynine Palms. Also felt at Palm Desert.
	25	01	19	43.5?	48.76	S	114.95	W	10	G	4.8			1.1	9	EASTER ISLAND CORDILLERA
	25	01	42	59.2*	49.583	S	116.286	W	10	G	5.0	5.6		1.0	20	EASTER ISLAND CORDILLERA
	25	02	42	16.7	38.47B	N	27.199	E	10	G				1.1	16	TURKEY. Felt at Izmir.
	25	02	49	27.7&	59.590	N	152.938	W	90						36	SOUTHERN ALASKA. <AGS-P>.
	25	03	59	24.8?	19.28	N	109.04	W	10	G	3.9			1.1	18	REVILLA GIGEDO ISLANDS REGION
	25	05	00	34.9*	66.477	N	148.756	W	30	*				0.9	8	ALASKA. ML 3.8 (PMR).
	25	05	28	29.9&	33.990	N	116.400	W	3						12	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS). Felt (IV) at Twentynine Palms and (III) at Desert Hot Springs. Felt (II) at India and North Palm Springs. Also felt at Palm Desert.
	25	06	0B	03.8	31.899	N	35.503	E	31		4.6			1.2	43	DEAD SEA REGION. ML 4.7 (JER). Slight damage in Israel.

														Felt in central Israel, southern Lebanon and western Jordan.
	25	06	21	43.6?	19.86	N	115.90	W	10	G	4.2	0 8	12	EAST CENTRAL PACIFIC OCEAN
	25	06	29	26.1*	37.038	N	26.079	E	33	N		0 9	6	DODECANESE ISLANDS ML 4.0 (ATH).
a	25	06	45	43.7	19.645	N	108.947	W	10	G	5.2 4.7	1.0	90	REVILLA GIGEDO ISLANDS REGION
	25	06	52	41.9?	31.73	S	71.83	W	33	N		0.3	11	NEAR COAST OF CENTRAL CHILE
	25	06	58	52.8*	23.110	N	121.438	E	13			0.5	7	TAIWAN
	25	07	29	23.5%	39.103	N	27.694	E	10	G		0.3	6	TURKEY
	25	07	44	09.8*	20.848	S	178.430	W	549	*	5.0	1.1	21	FIJI ISLANDS REGION
	25	08	26	33.5	10.478	S	120.380	E	33	N	5.2 4.0	1.2	49	SUMBA ISLAND REGION
	25	08	31	24.8*	50.586	N	14.084	E	10	G		0.4	5	CZECHOSLOVAKIA. ML 3.6 (VKA), 3.2 (KBA).
	25	12	27	08.4?	43.76	N	128.09	W	10	G		0.4	8	OFF COAST OF OREGON
	25	12	38	53.9	1.029	S	128.574	E	64	*	5.0 4.2	1.2	37	HALMAHERA
	25	13	50	12.8&	33.930	N	117.090	W	14				13	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS). Felt (IV) at Lakeview, Marena, Riverside, Sunnymead and Winchester. Felt in parts of Riverside and San Bernardino Counties.
	25	14	12	35.0*	24.049	S	66.830	W	232	*		1.0	9	SALTA PROVINCE, ARGENTINA
	25	14	27	37.4*	28.709	N	142.523	E	33	N	5.0	1.0	14	BONIN ISLANDS REGION
	25	16	52	39.9%	40.778	N	29.974	E	10	G		1.3	8	TURKEY
	25	17	04	45.9&	59.822	N	153.300	W	112				38	SOUTHERN ALASKA. <AGS-P>.
	25	17	17	15.6	39.892	N	24.156	E	10	G		1.3	20	AEGEAN SEA. ML 3.6 (ATH).
	25	18	03	24.2	38.643	N	75.110	E	33	N	5.2 4.1	0.9	89	SOUTHERN XINJIANG, CHINA
	25	19	14	22.8*	40.398	N	26.020	E	10	G		0.6	8	TURKEY
	25	20	49	55.9*	30.025	S	68.723	W	10	G		1.2	6	SAN JUAN PROVINCE, ARGENTINA
	25	20	58	17.9	23.337	N	94.479	E	93	*	4.8	1.2	30	BURMA-INDIA BORDER REGION
	25	21	14	14.4?	32.45	S	71.53	W	33	N		0.3	5	NEAR COAST OF CENTRAL CHILE
a	25	21	15	28.9	23.123	S	177.296	W	203	D	5.5	1.1	156	SOUTH OF FIJI ISLANDS
	25	22	26	09.4*	40.526	N	19.283	E	10	G		0.5	5	ALBANIA
	25	22	29	55.0%	39.248	N	27.792	E	10	G		0.7	5	TURKEY
	25	23	17	35.3?	61.15	N	3.20	E	10	G		0.3	5	NORWEGIAN SEA
	25	23	33	10.0*	39.153	N	15.882	E	145	?		0.7	10	SOUTHERN ITALY
	26	00	27	28.8?	18.69	N	109.45	W	10	G	3.6	0.9	5	REVILLA GIGEDO ISLANDS REGION
	26	00	51	59.3	5.250	S	129.796	E	192	*	4.7	1.2	27	BANDA SEA
	26	01	30	30.6&	59.864	N	152.637	W	79				36	SOUTHERN ALASKA. <AGS-P>.
	26	02	03	19.2*	42.945	N	125.961	W	10	G	3.9	0 7	8	OFF COAST OF OREGON
	26	02	58	23.6*	38.931	N	24.930	E	10	G		1.3	11	AEGEAN SEA. ML 3.1 (ATH).
	26	03	00	08.4*	42.791	N	126.098	W	10	G	4.4	1.2	16	OFF COAST OF OREGON
	26	03	06	13.9	33.122	S	68.566	W	5	G		1.2	17	MENDOZA PROVINCE, ARGENTINA
f	26	03	06	57.8	33.053	S	68.467	W	5	G	6.0 5.9	1.0	225	MENDOZA PROVINCE, ARGENTINA. Ms 5.8 (BRK). Six people killed, at least 238 injured and about 12,500 homes destroyed or damaged (VII) in the Mendoza area. Felt (V) at La Ligua, (IV) at Curavil and (II) at Santiago, Coquimbo and Vina del Mar, Chile.
	26	03	16	33.4*	33.057	S	68.694	W	5	G		0.9	11	MENDOZA PROVINCE, ARGENTINA
	26	03	26	51.4	33.008	S	68.717	W	5	G		0.8	11	MENDOZA PROVINCE, ARGENTINA
	26	03	37	22.6	32.940	S	68.470	W	5	G	4.8	0.9	21	MENDOZA PROVINCE, ARGENTINA
	26	03	47	00.7*	32.983	S	68.790	W	5	G		0.8	12	MENDOZA PROVINCE, ARGENTINA
	26	03	49	59.5*	33.135	S	69.848	W	33	N		1.2	9	CHILE-ARGENTINA BORDER REGION
	26	03	57	20.3	33.070	S	68.488	W	5	G	5 2	1.0	57	MENDOZA PROVINCE, ARGENTINA
	26	04	05	12.2	33.004	S	68.513	W	5	G		1.2	15	MENDOZA PROVINCE, ARGENTINA
	26	04	10	39.8%	33.153	S	70.900	W	33	N		0.7	5	CHILE-ARGENTINA BORDER REGION
	26	04	12	56.6*	33.060	S	68.983	W	5	G		0.8	10	MENDOZA PROVINCE, ARGENTINA
	26	04	41	57.8*	42 603	N	143.460	E	90		4 6	1 0	11	HOKKAIDO, JAPAN REGION. Felt (I JMA) at Kushiro and Obihiro.
	26	05	10	26.5	33.084	S	68.532	W	5	G		1 0	11	MENDOZA PROVINCE, ARGENTINA
	26	05	42	47.8	42.003	N	19.390	E	10	G		0 4	6	YUGOSLAVIA. ML 2.4 (TTG).
	26	06	25	06.1	33.092	S	68.579	W	5	G	4 4	1.4	14	MENDOZA PROVINCE, ARGENTINA
	26	06	32	17.9?	32.82	S	68.55	W	5	G		1.4	8	MENDOZA PROVINCE, ARGENTINA
	26	06	41	14.2&	34.200	N	119.030	W	22				10	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS). Felt at Thousand Oaks and Ventura.
	26	07	04	27.9?	32.71	S	68.03	W	5	G		1.3	8	MENDOZA PROVINCE, ARGENTINA
	26	07	09	53.2&	43.333	N	111.078	W	1				13	EASTERN IDAHO. <SLC>. ML 3.2 (SLC).
	26	07	29	35.4	33.068	S	68.503	W	5	G		0.9	10	MENDOZA PROVINCE, ARGENTINA
	26	07	31	51.3*	30.806	S	71 117	W	33	N		1 0	15	NEAR COAST OF CENTRAL CHILE
	26	07	36	17.7*	33.005	S	69.014	W	33	N		1.0	8	CHILE-ARGENTINA BORDER REGION
	26	07	40	42.2*	32.889	S	68.861	W	5	G		1.0	9	MENDOZA PROVINCE, ARGENTINA
	26	10	27	59.0	33.133	S	68.580	W	5	G		1.0	13	MENDOZA PROVINCE, ARGENTINA
	26	12	41	26.9*	44.166	N	86.888	E	33	N	4.2	1.0	7	NORTHERN XINJIANG, CHINA
	26	13	44	57.2*	36.580	N	70.405	E	181	?	4.4	1.1	12	HINDU KUSH REGION
	26	13	55	56.5*	8.885	S	124.061	E	33	N	4.7	1.4	8	TIMOR
	26	14	08	06.0?	33.72	S	71.78	W	33	N		0.6	5	NEAR COAST OF CENTRAL CHILE
	26	14	30	05.1*	33.131	S	68.601	W	5	G		1.0	6	MENDOZA PROVINCE, ARGENTINA
	26	14	54	06.1	42.625	N	126.648	W	10	G	4.7	0.9	21	OFF COAST OF OREGON
	26	15	08	06.7&	41.890	N	112.530	W	2				7	UTAH. <SLC>. ML 3 6 (SLC). Felt (III) at Snowville.
	26	16	25	10.8	39.222	N	25.323	E	9		3.9	1.1	40	AEGEAN SEA. ML 3.6 (ATH).
a	26	17	41	14.4	44.887	N	146.637	E	173		5.3	0.8	182	KURIL ISLANDS. Felt (IV) an Shikotan. Felt (I JMA) at Nemuro, Hokkaida.
	26	18	43	23.4*	40.900	N	119.117	W	5	G		1.2	8	NEVADA. ML 3.7 (BRK), 3.6 (NEIS).
	26	18	43	52.0*	9.799	S	160.539	E	33	N	4.3	1.5	8	SOLOMON ISLANDS
	26	19	06	46.9&	40.993	N	73.828	W	5				2	NEW YORK. <PAL>. CL 2.2 (PAL). Felt at Greenburgh, Scarsdale, Yonkers and White Plains.
	26	19	18	20.3*	42.600	N	126.406	W	10	G	4.6	1.3	20	OFF COAST OF OREGON
	26	20	21	11.1*	31.422	S	179.434	E	418	?	4.5	1.1	14	KERMADEC ISLANDS REGION
	26	21	09	15.7	6.134	S	105.961	E	157	*	5.1	1.0	60	SUNDA STRAIT
a	26	21	36	10.8	32.545	N	131.184	E	121		5.8	0.9	334	KYUSHU, JAPAN. Felt (III JMA) at Kumamata, Miyazaki, Nabeaka and Oita and (II JMA) at Kagashima and Unzendake. Felt (III JMA) at Kochi and (II JMA) at Uwajima, Shikoku and (II JMA) at Okayama and Shimanaseki, Honshu.
	26	22	52	29.1	33.010	S	68.608	W	5	G		0.9	11	MENDOZA PROVINCE, ARGENTINA
	26	22	54	57.5&	38.763	N	122.940	W	5	G			18	NORTHERN CALIFORNIA. <BRK>. ML 3.2 (BRK). Mo=5.2*10**21 (BRK).

	26	23 41 45.3	33.148	S	68 565	W	5	G			1 0	14	MENDOZA PROVINCE, ARGENTINA
	27	01 47 13.9&	59.938	N	151.357	W	46					43	KENAI PENINSULA, ALASKA. <AGS-P>.
	27	01 52 52.7	32.992	S	68.608	W	5	G			0 8	11	MENDOZA PROVINCE, ARGENTINA
	27	02 46 23.3?	6.38	S	74.83	W	292	?	4.4		1 3	8	PERU-BRAZIL BORDER REGION
	27	03 05 38.1*	10.262	N	125.217	E	33	N	4.7		1.1	12	LEYTE, PHILIPPINE ISLANDS
	27	05 58 53.7	33.034	S	68.690	W	5	G			0.7	8	MENDOZA PROVINCE, ARGENTINA
	27	06 06 06.5*	6.863	N	73.060	W	159	*	4.6		1.3	10	NORTHERN COLOMBIA
	27	07 04 44.3%	60.763	N	4.273	E	10	G			0.6	5	SOUTHERN NORWAY
	27	08 05 52.6*	33 040	S	68.595	W	5	G			1.1	6	MENDOZA PROVINCE, ARGENTINA
	27	08 26 45.7*	6.447	S	147.787	E	76	*	3.8		1.1	7	EAST PAPUA NEW GUINEA REGION
	27	08 30 47.9?	34 85	S	178.10	E	231	?	4.2		0.5	6	SOUTH OF KERMADEC ISLANDS
	27	08 53 24.2?	32.51	S	71.49	W	33	N			0.5	5	NEAR COAST OF CENTRAL CHILE
	27	10 46 49.6&	41.890	N	112.537	W	2					9	UTAH. <SLC> ML 3.3 (SLC). Felt (III) at Portage.
	27	10 57 53.8	6.755	N	94 580	E	33	N	4.4		1.1	25	NICOBAR ISLANDS REGION
	27	12 38 33.9?	18.54	S	167.98	E	33	N	4.2		1.9	5	VANUATU ISLANDS
	27	15 06 58 0&	31.950	N	116.400	W	6	G				7	BAJA CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
	27	15 39 59.8&	60.042	N	152.686	W	85					37	SOUTHERN ALASKA. <AGS-P>.
	27	15 50 53.7*	42.369	N	126.818	W	10	G	4.5		1.0	15	OFF COAST OF OREGON
	27	16 57 32.9?	33.08	S	68.49	W	5	G			1.0	6	MENDOZA PROVINCE, ARGENTINA
	27	18 58 39.1?	8.34	S	124.44	E	188	?	3.5		1.2	6	TIMOR
	27	19 02 14.7%	40.148	N	29.670	E	10	G			0.7	9	TURKEY
	27	21 05 58.0*	44.836	N	111.484	W	5	G			0.2	7	HEBGEN LAKE REGION. ML 3.1 (BUT).
	27	21 18 24.9&	62.159	N	150.183	W	56					23	CENTRAL ALASKA. <AGS-P>.
	27	22 55 45.1*	27.330	N	143.230	E	33	N	4.7		0.7	12	BONIN ISLANDS REGION
	27	23 07 28.4*	33.095	S	68.581	W	5	G			1.2	8	MENDOZA PROVINCE, ARGENTINA
	28	02 16 23.6%	40.645	N	27.202	E	10	G			1.1	5	TURKEY
	28	02 50 44.3	28.406	S	67.458	W	141		4.7		1.1	46	LA RIOJA PROVINCE, ARGENTINA
	28	03 20 57.6	38.892	N	29.140	E	19				1.1	20	TURKEY
	28	04 16 54.5	53.486	N	163.529	W	33	N	4.5		1.2	40	UNIMAK ISLAND REGION
	28	05 10 14.8*	6.663	N	123.712	E	33	N	4.0		1.0	8	MINDANAO, PHILIPPINE ISLANDS
	28	05 13 40.4?	31.45	S	69.88	W	143	?			0.6	9	SAN JUAN PROVINCE, ARGENTINA
	28	06 25 42.2*	20.981	S	178.946	W	615		5.0		0.9	33	FIJI ISLANDS REGION
	28	06 48 52.4	40.198	N	77.442	E	66	*	4.9		0.8	9	KIRGHIZ-XINJIANG BORDER REGION
	28	08 10 40.9	33.104	S	68.565	W	5	G			0.9	12	MENDOZA PROVINCE, ARGENTINA
	28	10 03 53.5	45.626	N	26.460	E	146		4.5		1.1	57	ROMANIA. Felt (IV) in the Vrancea area and (II) at Bucharest.
	28	11 24 25.8	62.942	N	150.981	W	113	?			1.2	12	CENTRAL ALASKA
	28	12 07 19.7	50.258	N	12.671	E	10	G			0.4	7	GERMANY. ML 3.1 (KBA).
	28	14 26 02.0*	24.635	N	121.973	E	10	G			0.3	6	TAIWAN
	28	15 30 32 4	6.914	N	125.693	E	62		5.0		1.0	40	MINDANAO, PHILIPPINE ISLANDS. Felt (I RF) at Cagayan de Oro and Manila
	28	19 11 57.4	3.889	S	151.522	E	10	G	4.9		1.4	25	NEW IRELAND REGION
	28	21 14 02.7*	3.658	S	141.635	E	33	N	4.9		1.3	12	PAPUA NEW GUINEA
	28	22 43 30.5*	43.005	N	126.180	W	10	G	4.1		1.3	23	OFF COAST OF OREGON
	28	23 15 16.7%	33.066	S	70.438	W	33	N			1.4	6	CHILE-ARGENTINA BORDER REGION
	28	23 17 35.4	2.863	S	119.736	E	33	N	5.2	4.4	1 3	59	SULAWESI
	29	01 01 22.1&	59.356	N	152.810	W	66					32	SOUTHERN ALASKA. <AGS-P>.
	29	05 24 16.0	40.574	N	143.710	E	33	N	4.9		1.1	30	OFF EAST COAST OF HONSHU, JAPAN
	29	06 38 39.4*	40.243	N	124.755	W	10	G			0.6	9	NEAR COAST OF NORTHERN CALIF. ML 3.1 (BRK).
	29	06 46 00.8&	59.198	N	152.496	W	77					41	SOUTHERN ALASKA. <AGS-P>.
	29	08 44 21.0	20.432	S	168.022	E	33	N	4.4		1.1	13	LOYALTY ISLANDS
	29	12 07 25.6*	50.218	N	12.598	E	10	G			1 5	7	GERMANY. ML 3.2 (KBA).
	29	16 33 01.2?	4.89	N	125.09	E	165	?	3 7		0.8	10	TALAUD ISLANDS
	29	18 00 38.6?	34.10	S	70 52	W	33	N			1.3	6	CHILE-ARGENTINA BORDER REGION
	29	19 21 18.0*	32.827	S	69.025	W	5	G			1.5	9	MENDOZA PROVINCE, ARGENTINA
	29	19 50 56.7?	34.18	S	71.21	W	33	N			0.3	5	NEAR COAST OF CENTRAL CHILE
	29	20 37 11.6%	32.966	S	70.676	W	33	N			1.0	7	CHILE-ARGENTINA BORDER REGION
	29	22 22 05.8	2.898	N	126.510	E	73		5.2		1.0	90	MOLUCCA PASSAGE
	30	00 10 40.4	16.751	S	167.440	E	10	G	4.3		0.9	23	VANUATU ISLANDS
	30	01 52 58.4*	16.944	N	99.416	W	33	N			0.9	8	NEAR COAST OF GUERRERO, MEXICO
	30	02 26 00.8	5.767	S	80.288	W	44	D	4.9		1.1	53	NEAR COAST OF NORTHERN PERU
a	30	03 24 43.0	56.191	N	163.687	E	33	N	5.3	4 9	0.9	151	NEAR EAST COAST OF KAMCHATKA
	30	03 27 00.8	42.105	N	20.071	E	10	G			0 8	8	YUGOSLAVIA. ML 2.8 (TTG).
	30	04 56 33.1	6.150	N	94.981	E	34	*	4.8		1.3	48	NICOBAR ISLANDS REGION
	30	05 26 51 3?	24.20	N	122 53	E	10	G			0 1	5	TAIWAN REGION
	30	05 41 57.2?	34.23	S	70.63	W	33	N			1.1	7	CHILE-ARGENTINA BORDER REGION
	30	06 34 15.3%	40.203	N	29.064	E	10	G			0.3	5	TURKEY
	30	07 05 47.0%	48.107	N	1.395	W	10	G			0.3	6	FRANCE. ML 2.7 (LDG).
	30	10 26 03.9&	38.828	N	122.812	W	2	G				17	NORTHERN CALIFORNIA. <BRK>. ML 2.9 (BRK).
	30	13 09 16.0*	28.538	S	69.474	W	33	N			1.1	10	CHILE-ARGENTINA BORDER REGION
	30	13 13 38.6	52.141	N	170.577	W	57	*	4.7	4.4	0.9	84	FOX ISLANDS, ALEUTIAN ISLANDS
	30	13 44 04.2%	32.979	S	71.140	W	33	N			0.3	6	NEAR COAST OF CENTRAL CHILE
	30	13 47 16.4	34.750	N	112.137	W	5	G			0.8	8	WESTERN ARIZONA. ML 3.0 (NEIS). Felt (IV) at Jerome.
	30	13 50 00.4?	32.56	S	68.87	W	5	G			1.0	5	MENDOZA PROVINCE, ARGENTINA
	30	14 24 59 1*	5.391	S	154.445	E	187	*	4.8		0.9	14	SOLOMON ISLANDS
	30	16 20 45.2	23.968	N	122.442	E	10	G	4.1		0.5	10	TAIWAN REGION
a	30	16 29 43.0	20.967	S	179.006	W	629		5.1		0.9	88	FIJI ISLANDS REGION
	30	16 30 22.8*	43.093	N	0.455	W	10	G			0.1	6	PYRENEES
	30	17 05 14.3?	10.46	S	113.51	E	33	N	4.6		1.3	7	SOUTH OF JAVA
	30	19 07 27.9*	23.686	S	179.148	E	550	*	4.6		0.8	16	SOUTH OF FIJI ISLANDS
	30	19 32 55.4*	17.163	N	99.661	W	48	*			1.2	11	GUERRERO, MEXICO
	30	19 51 12.7	7.864	N	74.308	W	83	*			1.0	11	NORTHERN COLOMBIA
	30	20 32 03.3*	8.130	N	74.913	W	33	N			0.9	6	NORTHERN COLOMBIA
	30	20 32 52.0*	28.370	S	71.012	W	33	N			1.1	8	NEAR COAST OF CENTRAL CHILE
	30	20 44 24.8*	56.330	N	153.330	W	33	N	4.7		1.0	18	KODIAK ISLAND REGION
	30	21 49 47.1&	62.380	N	150.751	W	74					34	CENTRAL ALASKA. <AGS-P>.
	30	21 54 30.2	45.710	N	26.558	E	134	*			0.7	13	ROMANIA
	30	22 02 12.5	31.029	N	85.582	E	33	N	4.7	4.4	1.1	67	TIBET
	30	23 07 59.2?	24.06	N	123.83	E	33	N			0.3	6	SOUTHWESTERN RYUKYU ISLANDS
	31	00 49 12.3*	30.654	S	69.043	W	33	N			1.2	8	CHILE-ARGENTINA BORDER REGION
	31	01 17 08.9?	30.82	S	70.15	W	33	N			1.3	8	CHILE-ARGENTINA BORDER REGION
	31	01 21 05.7*	37.513	N	30.698	E	34	*	4.5		1.2	16	TURKEY
	31	01 25 49.0	37.486	N	30.909	E	38		4.5		1.1	57	TURKEY

a	31	01 51 59.7	6 494 S	104 263 E	33 N	5.1 4.3	1.1	70	SUNDA STRAIT
	31	02 12 53.7*	4 693 S	105.133 W	10 G	5.0	0.9	34	NORTHERN EASTER I. CORDILLERA
a	31	02 43 02.4	2 743 N	128.586 E	224	5.4	1.1	134	HALMAHERA
	31	03 15 34.4&	59 847 N	152.622 W	72			30	SOUTHERN ALASKA <AGS-P>.
	31	03 36 16.5*	6 373 S	76.819 W	98 ?	4.5	0.9	8	NORTHERN PERU
f	31	04 32 57.6	46 083 S	165.092 E	10 G	5.8 6.1	1.2	208	OFF W COAST OF S ISLAND, N.Z. Felt in Otaga and Southland Provinces
	31	06 05 56.2	23 719 N	101.250 E	33 N	4.3	0.3	7	YUNNAN PROVINCE, CHINA
a	31	06 35 09.1	62.114 S	162.974 E	10 G	5 6 6.1	1.1	42	BALLENY ISLANDS REGION
	31	07 13 56.8	63.158 N	150.555 W	125 ?		0.3	10	CENTRAL ALASKA
	31	07 16 14.8	31.761 S	71.387 W	58	5.0	1.1	55	NEAR COAST OF CENTRAL CHILE Felt (IV) at Las Vilas. Also felt at Ovalle, Santiago and Valparaiso.
	31	08 15 04.8*	37 605 N	134.436 E	411 *	4 1	1.1	10	SEA OF JAPAN
	31	09 16 13.5*	3.003 N	122 114 E	619 *	4.8	0 7	16	CELEBES SEA
	31	09 23 02.0*	41.930 N	19.650 E	10 G		1.0	6	ALBANIA ML 2.4 (TTG).
	31	09 28 49.4	36 894 N	121.330 W	5 G		0.7	13	CENTRAL CALIFORNIA. ML 2 9 (BRK)
	31	09 35 13.3?	45 90 N	14 49 E	10 G		0.8	4	YUGOSLAVIA ML 2.6 (KBA). Felt (IV) at Grasuplje.
	31	09 37 18.3%	40.178 N	29.342 E	10 G		1.3	6	TURKEY
	31	10 29 34.2	31.516 S	69.105 W	118	5.2	0.9	80	SAN JUAN PROVINCE, ARGENTINA. Felt (IV) at Mendaza.
a	31	12 49 25.7	6.390 S	104.403 E	50 D	5.4	1.1	98	SUNDA STRAIT
	31	13 57 02.7*	38.863 N	21.301 E	14	4.1	1.3	22	GREECE. ML 3.8 (ATH)
	31	14 27 39.6	36.709 N	71.168 E	193 ?	4.4	1.1	17	AFGHANISTAN-USSR BORDER REGION
	31	15 28 33.0*	39.931 N	25.036 E	10 G		1.4	11	AEGEAN SEA
	31	16 39 36.7	38.888 N	21.188 E	21	4.2	1.3	49	GREECE ML 4.1 (ATH). Felt in western Greece.
	31	16 45 19.6*	35.340 N	21.708 E	33 N	4.5	1.1	13	MEDITERRANEAN SEA ML 3.5 (ATH).
	31	16 48 42.9	51.325 N	173.678 E	33 N	5.0	0.9	75	NEAR ISLANDS, ALEUTIAN ISLANDS. ML 4.6 (PMR).
	31	17 59 34.6?	32.31 S	71.75 W	33 N		0.2	6	NEAR COAST OF CENTRAL CHILE
	31	18 13 51 8	17.652 S	178.954 W	544	4 4	1.0	47	FIJI ISLANDS REGION
	31	18 35 50.5?	32.07 S	71.80 W	33 N		0.7	8	NEAR COAST OF CENTRAL CHILE
	31	19 01 26.8	18.734 N	121.053 E	49	4.8 3.8	1.3	67	LUZON, PHILIPPINE ISLANDS. Felt (III RF) at Pasuquin, (II RF) at Laoag and (I RF) at Santa.
	31	20 37 44.2&	40.410 N	124.722 W	5 G			7	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.5 (BRK).
	31	21 31 06 3*	5.601 S	147.334 E	222 *	5.1	1 2	10	EAST PAPUA NEW GUINEA REGION
	31	21 51 16.9	36.258 N	136.961 E	263	4.4	0.9	27	NEAR WEST COAST OF HONSHU, JAPAN
	31	23 23 12.8	14 916 N	99.019 E	33 N		1.0	6	SOUTHEAST ASIA

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

02 05 32 49.14 55 428N 157 835W 33km
5.6mb (83 obs.) 5.6Msz (21 obs)
ALASKA PENINSULA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L P.B.: 13S, 30C
Centroid Location:
Origin Time 05:32:51.1 0.3
Lat 55 05N 0.03 Lon 157.61W 0.04
Dep 44.2 2.1 Half-duration 3.6
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	8.94	65	308
N	2.42	5	50
P	-11.36	24	142

Best Double Couple:Mo=1.0*10**25
NP1:Strike=244 Dip=22 Slip= 105
NP2: 48 69 84

02 20 25 26.08 37.164S 176.939E 33km
4.8mb (5 obs.) 5.1Msz (1 obs.)
NORTH ISLAND, NEW ZEALAND
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 23C
Centroid Location:
Origin Time 20:25:27.5 0.7
Lat 36.75S 0.06 Lon 176.92E 0.08
Dep 39.0 5.4 Half-duration 1.8
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	12.48	6	293
N	-1.88	68	39
P	-10.59	21	201

Best Double Couple:Mo=1.2*10**24
NP1:Strike=339 Dip=71 Slip=-169
NP2: 245 80 -19

02 21 08 57.30 36.549S 177.794E 33km
4.8mb (4 obs.) 5.1Msz (2 obs.)
OFF E. COAST OF N. ISLAND, N.Z.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 27C
Centroid Location:
Origin Time 21:08:59.9 0.4
Lat 36.23S 0.05 Lon 177.60E 0.07
Dep 24.5 5.5 Half-duration 1.8
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	1.28	2	315
N	-0.13	87	179
P	-1.14	2	46

Best Double Couple:Mo=1.2*10**24
NP1 Strike= 90 Dip=87 Slip= 0
NP2: 0 90 177

02 22 06 31 66 1.630N 98.775E 105km
5.3mb (58 obs)
NORTHERN SUMATERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 22C
Centroid Location:
Origin Time 22:06:33.5 0 9
Lat 1.81N 0.04 Lon 98 35E 0.14
Dep 114.8 2.9 Half-duration 1.7
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	0.94	69	128
N	0.32	15	263
P	-1.25	14	357

Best Double Couple:Mo=1.1*10**24
NP1:Strike=107 Dip=34 Slip= 118
NP2: 254 61 73

02 22 29 24.97 14.658S 175.353W 33km
5.3mb (17 obs) 5.7Msz (6 obs.)
SAMOA ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 27C
Centroid Location:
Origin Time 22:29.26.8 0.3
Lat 14.64S 0.04 Lon 175.37W 0.03
Dep 10.0 FIX Half-duration 2.6
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	4.19	11	143
N	0.09	69	20
P	-4.28	17	236

Best Double Couple:Mo=4.2*10**24
NP1:Strike=279 Dip=70 Slip= -4
NP2: 10 86 -160

03 22 44 09.49 54.370S 155.444E 10km
5.1mb (4 obs.)
MACQUARIE ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 23C
Centroid Location:
Origin Time 22:44.19.1 0.6
Lat 53.80S 0.06 Lon 154 72E 0.07
Dep 10.0 FIX Half-duration 1.9
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	1.75	18	194
N	-0.49	69	44
P	-1.27	9	287

Best Double Couple:Mo=1.5*10**24
NP1:Strike=332 Dip=70 Slip= 6
NP2: 240 84 160

03 23 58 34.17 21.616S 174 110W 33km
5.4mb (25 obs.) 5.6Msz (13 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 28C
Centroid Location:
Origin Time 23:58:37.4 0.5
Lat 21.78S 0.04 Lon 173.55W 0 04
Dep 10.0 FIX Half-duration 2.5
Principal Axes.
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	2.87	68	301
N	0.22	2	205
P	-3.09	22	114

Best Double Couple:Mo=3.0*10**24
NP1:Strike=200 Dip=23 Slip= 84
NP2: 26 67 93

04 02 17 34 78 26 057S 177 518W 133km
5.3mb (36 obs.)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 32C
Centroid Location:
Origin Time 02:17:41.9 0.2
Lat 25.73S 0.02 Lon 177.61W 0.03
Dep 138.6 0.8 Half-duration 3.0
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	5.52	56	156
N	0.75	6	254
P	-6.27	34	348

Best Double Couple:Mo=5.9*10**24
NP1:Strike=101 Dip=12 Slip= 117
NP2: 253 79 84

04 06 57 04.51 7.088N 94.655E 33km
5.2mb (35 obs.) 4.4Msz (1 obs.)
NICOBAR ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 17C
Centroid Location:
Origin Time 06:57: 4.2 0.9
Lat 7.37N 0.11 Lon 94.76E 0.16
Dep 17.515.0 Half-duration 1.4

Principal Axes
Scale 10**23 D-CM
T Val= 6 04 Plg=15 Azm=101
N -1 19 71 246
P -4.84 10 8
Best Double Couple:Mo=5.4*10**23
NP1:Strike=144 Dip=72 Slip= 176
NP2: 235 87 18

05 02 49 47.57 0.746S 67.296E 10km
5.1mb (24 obs.) 5.2Msz (1 obs)
CARLSBERG RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 20C
Centroid Location:
Origin Time 02:49:49.7 1.0
Lat 1.21S 0.14 Lon 67.44E 0.06
Dep 10.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM
T Val= 8.83 Plg= 4 Azm=227
N 0.46 30 320
P -9.29 59 130
Best Double Couple:Mo=9.1*10**23
NP1:Strike=289 Dip=49 Slip=-132
NP2: 163 56 -53

05 05 52 13.42 0.685S 67.319E 10km
5.2mb (31 obs.) 4.5Msz (1 obs.)
CARLSBERG RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used. GDSN
L P.B : 12S, 23C
Centroid Location.
Origin Time 05:52:19.4 0.5
Lat 0 45S 0.07 Lon 67.37E 0.05
Dep 10.0 FIX Half-duration 1.9
Principal Axes:
Scale 10**24 D-CM
T Val= 1.51 Plg= 6 Azm=245
N -0.33 10 336
P -1 17 78 124
Best Double Couple:Mo=1.3*10**24
NP1:Strike=324 Dip=40 Slip=-106
NP2: 164 52 -77

05 06 43 35.19 0.872S 67.293E 10km
4 9mb (12 obs.)
CARLSBERG RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L P.B : 12S, 22C
Centroid Location:
Origin Time 06:43:39.4 1.3
Lat 0.91S 0.16 Lon 67.32E 0.09
Dep 10.0 FIX Half-duration 1.3
Principal Axes:
Scale 10**23 D-CM
T Val= 4.67 Plg= 2 Azm= 49
N -0.04 24 318
P -4.63 65 144
Best Double Couple:Mo=4.6*10**23
NP1:Strike=163 Dip=48 Slip= -56
NP2: 298 52 -122

05 07 39 09.19 0.666S 67.290E 10km
5.6mb (66 obs.) 5.0Msz (3 obs.)
CARLSBERG RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used. GDSN
L.P.B.: 14S, 28C
Centroid Location:
Origin Time 07:39:15.1 0.4
Lat 0.57S 0.05 Lon 67.46E 0.03
Dep 10.0 FIX Half-duration 2.2
Principal Axes:
Scale 10**24 D-CM
T Val= 2.77 Plg= 9 Azm=238
N -0.69 11 329
P -2.07 76 109
Best Double Couple:Mo=2.4*10**24
NP1:Strike=315 Dip=37 Slip=-108
NP2: 157 55 -77

05 11 11 31.15 10.177N 80.027W 33km
6.1mb (90 obs.) 5.7Msz (25 obs.)
NORTH OF PANAMA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=310 Dip=70 Slip= 150
NP2: 51 62 23
Principal Axes:
T Plg=35 Azm=268
P 5 2
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 32 No. of sta 17
Principal Axes:
Scale 10**25 d-cm
T Val= 1.86 Plg=67 Azm=275
N 0 00 23 107
P -1 86 4 15
Best Double Couple:Mo=1 9*10**25
NP1:Strike= 83 Dip=45 Slip= 57
NP2: 305 53 119
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 33C
Centroid Location:
Origin Time 11:11:37.7 0.2
Lat 10.33N 0.02 Lon 79.74W 0.02
Dep 45.2 1.5 Half-duration 4.4
Principal Axes:
Scale 10**25 D-CM
T Val= 1.60 Plg=62 Azm=282
N 0.46 27 94
P -2.06 3 185
Best Double Couple:Mo=1.8*10**25
NP1:Strike=301 Dip=48 Slip= 128
NP2: 72 54 56

05 15 45 38.08 34.160N 135.557E 74km
5.6mb (60 obs.)
NEAR S. COAST OF SOUTHERN HONSHU
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P B.: 13S, 29C
Centroid Location:
Origin Time 15:45:39 1 0 2
Lat 34.00N 0.02 Lon 135.37E 0.04
Dep 66.0 2.1 Half-duration 2.7
Principal Axes:
Scale 10**24 D-CM
T Val= 5.02 Plg=22 Azm= 33
N -1.05 37 141
P -3.97 45 280
Best Double Couple:Mo=4.5*10**24
NP1:Strike= 78 Dip=40 Slip=-158
NP2: 331 76 -52

06 06 46 01.31 45.782N 143.382E 314km
5 3mb (85 obs)
HOKKAIDO, JAPAN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 23C
Centroid Location:
Origin Time 06:46: 7.1 0 7
Lat 45.56N 0.07 Lon 143.06E 0.11
Dep 332.5 4.4 Half-duration 1.6
Principal Axes:
Scale 10**23 D-CM
T Val= 10 55 Plg=38 Azm= 14
N -0.73 49 166
P -9.82 14 273
Best Double Couple:Mo=1.0*10**24
NP1:Strike= 46 Dip=53 Slip= 160
NP2: 148 75 39

06 18 32 05.49 36.644S 177.584E 28km
5.2mb (12 obs.) 5.2Msz (4 obs.)
OFF E. COAST OF N. ISLAND, N.Z.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 26C
Centroid Location:
Origin Time 18:32: 7.6 0.3
Lat 36.28S 0.03 Lon 177.58E 0.05
Dep 10.0 FIX Half-duration 2.2
Principal Axes:
Scale 10**24 D-CM
T Val= 2.72 Plg= 9 Azm=134
N -0.67 9 226
P -2.05 77 2
Best Double Couple:Mo=2.4*10**24
NP1:Strike=214 Dip=37 Slip=-105
NP2: 52 54 -79

07 12 01 08.63 26.763N 131.273E 19km
5.2mb (28 obs.) 4.5Msz (1 obs.)
RYUKYU ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used GDSN
L.P.B : 9S, 18C
Centroid Location.
Origin Time 12·01.13.0 1.0
Lat 27.17N 0.12 Lon 131.53E 0.28
Dep 10.0 FIX Half-duration 1.3
Principal Axes:
Scale 10**23 D-CM
T Val= 3.92 Plg= 6 Azm=305
N 0.33 69 199
P -4.25 20 37
Best Double Couple·Mo=4.1*10**23
NP1:Strike= 79 Dip=72 Slip= -10
NP2: 173 81 -161

07 21 53 16.16 71.144N 7.439W 10km
5.0mb (61 obs.) 3.7Msz (1 obs.)
JAN MAYEN ISLAND REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 21C
Centroid Location:
Origin Time 21:53:15.9 0.9
Lat 71.16N FIX;Lon 7.32W FIX
Dep 10.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM
T Val= 4.08 Plg=17 Azm=135
N -0.26 68 272
P -3.82 14 41
Best Double Couple:Mo=3.9*10**23
NP1:Strike=177 Dip=68 Slip= 178
NP2: 268 88 22

08 07 41 47.08 36.583S 177.685E 25km
5.4mb (10 obs) 5.4Msz (1 obs.)
OFF E COAST OF N. ISLAND, N.Z.
CENTROID. MOMENT TENSOR (HRV)
Data Used· GDSN
L.P.B.: 14S, 27C
Centroid Location:
Origin Time 07:41:53.3 0.2
Lat 36.30S 0.03 Lon 177.48E 0.05
Dep 10 0 FIX Half-duration 2.6
Principal Axes:
Scale 10**24 D-CM
T Val= 4.04 Plg= 8 Azm=135
N -1.27 11 226
P -2.77 76 11
Best Double Couple:Mo=3.4*10**24
NP1:Strike=212 Dip=38 Slip=-109
NP2: 55 54 -76

09 01 32 38 91 20.754S 179.085W 662km
5.3mb (51 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used GDSN
L P.B.: 8S, 16C
Centroid Location:
Origin Time 01:32:45.6 0.9
Lat 20.83S 0.07 Lon 179.11W 0.08
Dep 660.4 4.3 Half-duration 2.0
Principal Axes
Scale 10**24 D-CM
T Val= 1.70 Plg=53 Azm= 46
N 0.40 26 177
P -2.10 24 279
Best Double Couple:Mo=1.9*10**24
NP1.Strike= 50 Dip=31 Slip= 147
NP2: 169 74 63

09 15 56 11.06 44.329N 149.235E 35km
5.4mb (71 obs.) 4.8Msz (7 obs.)
KURIL ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 18C
Centroid Location:
Origin Time 15:56:11.2 1.0
Lat 44.43N 0.09 Lon 149.96E 0.14
Dep 37.5 6.9 Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM
T Val= 4.97 Plg=76 Azm=320
N 0.01 5 210
P -4.98 13 118
Best Double Couple:Mo=5.0*10**23
NP1:Strike=201 Dip=32 Slip= 80
NP2: 33 58 96

09 23 21 09 18 6.985S 155.834E 70km

5.7mb (33 obs)
SOLOMON ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B . 11S, 20C
Centroid Location:
Origin Time 23:21:13.7 0.3
Lat 6.93S 0.06 Lon 155.50E 0.06
Dep 55.6 4.2 Half-duration 1.8
Principal Axes:
Scale 10**24 D-CM

T	Val= 1 42	Plg=66	Azm=137
N	-0.10	23	298
P	-1.32	7	31

Best Double Couple:Mo=1.4*10**24
NP1:Strike=145 Dip=43 Slip= 125
NP2: 282 56 62

10 07 38 53.37 20.690S 173.561W 74km
4.9mb (17 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 21C
Centroid Location:
Origin Time 07:38:53.1 0.7
Lat 20.39S 0.06 Lon 173.16W 0.08
Dep 20.5 3.6 Half-duration 1.7
Principal Axes:
Scale 10**23 D-CM

T	Val= 9.60	Plg=74	Azm=323
N	1.18	10	195
P	-10.78	12	103

Best Double Couple:Mo=1.0*10**24
NP1:Strike=180 Dip=34 Slip= 72
NP2: 21 58 102

10 17 47 56.08 10.797N 43.446W 10km
5.8mb (87 obs.) 5.8Msz (23 obs.)
NORTH ATLANTIC RIDGE
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=200 Dip=85 Slip= -10
NP2: 291 80 -175
Principal Axes:

T	Plg= 3	Azm=246
P	11	155

Comment: The focal mechanism is moderately well controlled and corresponds to right-lateral strike slip faulting with a small normal component. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 15 No. of sta: 15
Principal Axes:
Scale 10**25 d-cm

T	Val= 1.77	Plg=11	Azm= 38
N	-0.05	77	183
P	-1.71	7	306

Best Double Couple:Mo=1.7*10**25
NP1:Strike= 82 Dip=77 Slip= 177
NP2: 172 88 13
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L P.B . 15S, 31C
Centroid Location:
Origin Time 17:48: 3.6 0.2
Lat 10.83N 0.03 Lon 43.44W 0.02
Dep 10.0 FIX Half-duration 4.1
Principal Axes:
Scale 10**25 D-CM

T	Val= 1.50	Plg=15	Azm= 44
N	-0.08	74	246
P	-1.42	6	135

Best Double Couple:Mo=1.5*10**25
NP1:Strike=180 Dip=75 Slip= 7
NP2: 89 84 165

11 06 25 48.38 54.158S 143.967E 10km
5.3mb (22 obs.) 5.6Msz (8 obs.)
WEST OF MACQUARIE ISLAND
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B. 11S, 23C
Centroid Location:
Origin Time 06:25:53.7 0.3
Lat 54.06S 0.04 Lon 143.86E 0.05
Dep 10.0 FIX Half-duration 3.0
Principal Axes:
Scale 10**24 D-CM

T	Val= 5.97	Plg= 2	Azm=219
N	-0.32	88	54
P	-5.65	1	309

Best Double Couple:Mo=5 8*10**24
NP1:Strike=354 Dip=88 Slip= 1
NP2: 264 89 178

11 09 03 32.86 51 692N 175.321W 59km
5.2mb (68 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 20C
Centroid Location:
Origin Time 09:03:36.6 0 9
Lat 52.15N 0.10 Lon 175.17W 0.13
Dep 67.6 5.2 Half-duration 1 5
Principal Axes:
Scale 10**23 D-CM

T	Val= 7.57	Plg=76	Azm=348
N	2.10	6	232
P	-9.67	13	140

Best Double Couple:Mo=8.6*10**23
NP1:Strike=222 Dip=33 Slip= 78
NP2: 56 58 97

11 14 30 59.53 2.655S 68.000E 10km
5.3mb (12 obs.) 5.5Msz (1 obs.)
CARLSBERG RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 28C
Centroid Location.
Origin Time 14:31: 9.8 0.8
Lat 1.79S 0.08 Lon 67.36E 0.08
Dep 10.0 FIX Half-duration 2.3
Principal Axes:
Scale 10**24 D-CM

T	Val= 2.87	Plg= 7	Azm= 40
N	-0.26	30	134
P	-2.61	59	297

Best Double Couple:Mo=2.7*10**24
NP1:Strike=100 Dip=46 Slip=-134
NP2: 334 59 -55

11 14 41 58.56 0.196N 123.582E 189km
5.9mb (71 obs.)
MINAHASSA PENINSULA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 50 Dip=58 Slip= 113
NP2: 191 39 58
Principal Axes:

T	Plg=68	Azm= 7
P	10	124

Comment: The focal mechanism is moderately well controlled and corresponds to reverse faulting with a moderate strike-slip component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 136 No. of sta: 9
Principal Axes:
Scale 10**25 d-cm

T	Val= 2.85	Plg=68	Azm=299
N	0.66	2	34
P	-3 51	22	125

Best Double Couple:Mo=3.2*10**25
NP1:Strike=219 Dip=23 Slip= 95
NP2. 33 67 88
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.. 13S, 27C
Centroid Location:
Origin Time 14:41:56.0 0 6
Lat 0.21S 0.06 Lon 123.79E 0.04
Dep 145.0 1.2 Half-duration 4.4
Principal Axes:
Scale 10**25 D-CM

T	Val= 2.23	Plg=66	Azm=330
N	-0.41	11	216
P	-1.83	22	122

Best Double Couple:Mo=2.0*10**25
NP1:Strike=192 Dip=25 Slip= 64
NP2: 40 68 101

12 04 51 39.71 16.592N 122.380E 44km
5.2mb (25 obs.) 5.0Msz (5 obs.)
LUZON, PHILIPPINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 21C
Centroid Location:
Origin Time 04:51:39.0 0.4
Lat 16.35N 0.05 Lon 122.73E 0.07
Dep 10.0 FIX Half-duration 2.3
Principal Axes
Scale 10**24 D-CM

T	Val= 3.72	Plg=57	Azm=202
N	-0.23	28	346
P	-3.49	16	85

Best Double Couple:Mo=3.6*10**24
NP1:Strike=209 Dip=37 Slip= 139
NP2: 333 67 60

13 21 51 22.13 24.107N 122.433E 43km
5.8mb (85 obs.) 5.3Msz (3 obs.)
TAIWAN REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=145 Dip=65 Slip= 40
NP2: 35 54 149
Principal Axes:

T	Plg=45	Azm= 5
P	6	268

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.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 19C
Centroid Location:
Origin Time 21:51:22.2 0.5
Lat 23.78N 0.08 Lon 121.91E 0.07
Dep 35.8 5.7 Half-duration 2.0
Principal Axes:
Scale 10**24 D-CM

T	Val= 1.70	Plg=56	Azm= 22
N	0.06	30	170
P	-1.76	15	269

Best Double Couple:Mo=1.7*10**24
NP1:Strike= 34 Dip=40 Slip= 141
NP2: 156 66 57

13 23 04 08.79 12.354S 65.789E 10km
5.0mb (13 obs.) 4.9Msz (1 obs.)
MID-INDIAN RISE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 24C
Centroid Location:
Origin Time 23:04:15.1 0.7
Lat 12.34S 0.07 Lon 65.80E 0.05
Dep 10 0 FIX Half-duration 1.9
Principal Axes:
Scale 10**24 D-CM

T	Val= 1.53	Plg= 3	Azm= 49
N	-0.01	30	318
P	-1.52	60	144

Best Double Couple:Mo=1.5*10**24
NP1.Strike=167 Dip=50 Slip= -49
NP2 294 55 -127

14 02 36 31.37 46.145N 149.470E 22km
5.3mb (37 obs.) 4.7Msz (1 obs)
KURIL ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 7S, 11C
Centroid Location:
Origin Time 02:36:33.1 1.2
Lat 46.20N 0.09 Lon 149.74E 0.17
Dep 11.5 4.4 Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM

T	Val= 7.16	Plg=62	Azm= 68
N	0.52	27	228
P	-7.67	8	323

Best Double Couple:Mo=7.4*10**23
NP1:Strike= 80 Dip=44 Slip= 131
NP2: 210 59 58

14 22 06 28.67 14.421S 171.192E 33km
5.0mb (5 obs.) 4.6Msz (1 obs.)
VANUATU ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 20C
Centroid Location:
Origin Time 22:06:29.6 1.0
Lat 14.39S 0.07 Lon 171.26E 0.08
Dep 10.0 FIX Half-duration 1.8
Principal Axes:
Scale 10**24 D-CM

T	Val= 1.23	Plg=19	Azm= 4
N	-0.20	68	152

P -1 03 11 270
Best Double Couple:Mo=1.1*10**24
NP1:Strike= 46 Dip=69 Slip= 174
NP2: 138 84 21

14 22 40 05.53 22.176S 170.078E 35km
5.1mb (4 obs.) 5.2Msz (1 obs.)
LOYALTY ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 25C
Centroid Location:
Origin Time 22:40: 6.5 0.4
Lat 22.45S 0.07 Lon 170.09E 0.05
Dep 26.5 3.4 Half-duration 2.0
Principal Axes:
Scale 10**24 D-CM
T Val= 1.71 Plg=71 Azm= 12
N -0.02 7 125
P -1.69 17 217
Best Double Couple:Mo=1.7*10**24
NP1:Strike=319 Dip=29 Slip= 106
NP2: 121 62 82

15 09 56 48.83 25.492N 125.239E 44km
5.2mb (22 obs.) 5.2Msz (1 obs.)
SOUTHWESTERN RYUKYU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 7S, 16C
Centroid Location:
Origin Time 09:56:48.2 0.5
Lat 25.05N 0.08 Lon 124.95E 0.11
Dep 23.4 5.3 Half-duration 1.6
Principal Axes:
Scale 10**23 D-CM
T Val= 10.82 Plg=23 Azm=339
N 0.68 18 77
P -11.51 59 202
Best Double Couple:Mo=1.1*10**24
NP1:Strike= 36 Dip=27 Slip=-134
NP2: 264 71 -70

15 10 25 38.38 6.277S 154.599E 54km
5.5mb (23 obs.) 5.7Msz (1 obs.)
SOLOMON ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 7S, 16C
Centroid Location:
Origin Time 10:25:42.6 0.9
Lat 6.25S 0.12 Lon 154.08E 0 13
Dep 54.312.3 Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM
T Val= 4.83 Plg=65 Azm=249
N 0.93 10 137
P -5.76 22 43
Best Double Couple:Mo=5.3*10**23
NP1.Strike=114 Dip=24 Slip= 65
NP2. 321 68 101

15 22 36 33.96 10.316S 165.039E 33km
5.5mb (25 obs.) 5.7Msz (13 obs)
SANTA CRUZ ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 22C
Centroid Location:
Origin Time 22:36:39.0 0.4
Lat 10.28S 0.04 Lon 164.96E 0.03
Dep 10.0 FIX Half-duration 3.4
Principal Axes:
Scale 10**24 D-CM
T Val= 9.59 Plg=17 Azm= 11
N -1.24 66 142
P -8.35 17 276
Best Double Couple:Mo=9.0*10**24
NP1:Strike= 54 Dip=66 Slip=-179
NP2: 323 89 -24

17 21 33 09.48 3.782S 141.772E 34km
5.7mb (37 obs.) 5.8Msz (6 obs.)
PAPUA NEW GUINEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 24C
Centroid Location:
Origin Time 21:33:15.8 0.4
Lat 3.86S 0.04 Lon 141.53E 0.02
Dep 42.1 2.9 Half-duration 4.3
Principal Axes:
Scale 10**25 D-CM
T Val= 1.63 Plg=21 Azm=289
N 0.17 53 169
P -1.80 29 31
Best Double Couple:Mo=1 7*10**25
NP1.Strike= 68 Dip=53 Slip= -7
NP2: 162 85 -143

18 15 00 09.08 29.374S 70.793W 83km
5.7mb (40 obs.)
CENTRAL CHILE
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=223 Dip=75 Slip= 154
NP2. 320 65 17
Principal Axes:
T Plg=29 Azm=180
P 7 273
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 85 No. of sta: 10
Principal Axes:
Scale 10**25 d-cm
T Val= 3.80 Plg=26 Azm=165
N -0.27 61 317
P -3.54 12 70
Best Double Couple:Mo=3.7*10**25
NP1:Strike=205 Dip=63 Slip= 170
NP2: 300 81 27
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 28C
Centroid Location:
Origin Time 15:00:15.4 0.2
Lat 29.79S 0.02 Lon 71.26W 0.02
Dep 74.5 1.4 Half-duration 5.3
Principal Axes:
Scale 10**25 D-CM
T Val= 3.61 Plg=25 Azm=182
N -0.06 64 22
P -3.55 8 276
Best Double Couple:Mo=3.6*10**25
NP1:Strike=322 Dip=67 Slip= 13
NP2: 227 78 156

21 00 55 22.76 0.953S 128.507E 33km
5.8mb (35 obs.) 6.7Msz (23 obs.)
HALMAHERA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 32 Dip=84 Slip= 168
NP2: 123 78 6
Principal Axes.
T Plg=13 Azm=347
P 4 78
Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting with a small reverse component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 12 No. of sta: 10
Principal Axes:
Scale 10**26 d-cm
T Val= 2.38 Plg= 4 Azm=337
N -0.01 86 187
P -2.37 2 67
Best Double Couple:Mo=2.4*10**26
NP1:Strike=112 Dip=86 Slip= 1
NP2: 22 89 176
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 24C M.W.: 12S, 25C
Centroid Location:
Origin Time 00:55:29.9 0.2
Lat 1.06S 0.02 Lon 128.49E 0.02
Dep 21.4 1.4 Half-duration 9.0
Principal Axes:
Scale 10**26 D-CM
T Val= 1.45 Plg= 4 Azm=157
N -0.08 74 263
P -1.38 15 66
Best Double Couple:Mo=1.4*10**26
NP1:Strike=203 Dip=76 Slip=-172
NP2: 111 83 -14

22 07 57 36.08 5.905S 104.563E 33km
5.6mb (25 obs.)
SOUTHERN SUMATERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B : 12S, 19C
Centroid Location:
Origin Time 07:57:42 0 1.3
Lat 6.15S 0.10 Lon 104.18E 0.10
Dep 64.0 6.4 Half-duration 1.6
Principal Axes:
Scale 10**23 D-CM
T Val= 9.44 Plg=60 Azm= 53
N 0.70 17 291
P -10.14 24 193
Best Double Couple:Mo=9.8*10**23
NP1:Strike=252 Dip=26 Slip= 48
NP2: 117 71 108

23 12 27 33.39 6.238S 147.458E 86km
5.0mb (15 obs.)
EAST PAPUA NEW GUINEA REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 6S, 15C
Centroid Location:
Origin Time 12:27:35.3 1.0
Lat 7.02S 0.10 Lon 147.61E 0.10
Dep 58.911.3 Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM
T Val= 7.24 Plg=59 Azm= 7
N 0.43 9 261
P -7.67 29 166
Best Double Couple:Mo=7.5*10**23
NP1:Strike=232 Dip=18 Slip= 60
NP2: 84 75 99

23 18 02 36.38 14.568S 175.296W 33km
4.9mb (9 obs.) 5.2Msz (3 obs.)
SAMOA ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used. GDSN
L.P.B.: 12S, 24C
Centroid Location:
Origin Time 18.02:39.6 0.3
Lat 14.75S 0.05 Lon 175.19W 0.03
Dep 10.0 FIX Half-duration 2.3
Principal Axes:
Scale 10**24 D-CM
T Val= 2.63 Plg= 1 Azm=139
N -0.15 79 46
P -2 48 11 229
Best Double Couple:Mo=2.6*10**24
NP1:Strike=274 Dip=81 Slip= -8
NP2: 5 82 -171

23 20 36 17.84 3.898S 151.597E 14km
5.4mb (11 obs.) 5.3Msz (3 obs.)
NEW IRELAND REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 20C
Centroid Location:
Origin Time 20:36:21.9 0.6
Lat 4.05S 0.05 Lon 151.71E 0.05
Dep 10.0 FIX Half-duration 2.5
Principal Axes:
Scale 10**24 D-CM
T Val= 3.32 Plg=21 Azm= 12
N -0.44 68 175
P -2.88 6 280
Best Double Couple:Mo=3.1*10**24
NP1:Strike= 54 Dip=71 Slip= 169
NP2: 148 79 20

24 12 29 32.44 7.467S 130.125E 20km
5.9mb (42 obs.) 5.2Msz (8 obs.)
TANIMBAR ISLANDS REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 50 Dip=80 Slip= 90
NP2: 230 10 90
Principal Axes:
T Plg=55 Azm=320
P 35 140
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 29 No. of sta: 4
Principal Axes:
Scale 10**24 d-cm
T Val= 2.60 Plg=66 Azm=355
N 0.15 7 248

P -2.75 22 155
Best Double Couple:Mo=2.7*10**24
NP1:Strike=231 Dip=24 Slip= 71
NP2: 71 68 98
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 19C
Centroid Location:
Origin Time 12:29:39.5 0.9
Lat 7.36S 0.07 Lon 130.20E 0.13
Dep 19.0 FIX Half-duration 2.5
Principal Axes:
Scale 10**24 D-CM
T Val= 3.14 Plg=55 Azm= 71
N -0.33 32 225
P -2.81 12 323
Best Double Couple:Mo=3.0*10**24
NP1:Strike= 87 Dip=43 Slip= 141
NP2: 208 65 54

25 06 45 43.70 19.645N 108.947W 10km
5.2mb (24 obs.) 4.7Msz (2 obs.)
REVILLA GIGEDO ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 17C
Centroid Location:
Origin Time 06:45:48.4 0.7
Lat 19.60N 0.07 Lon 108.98W 0.07
Dep 10.0 FIX Half-duration 1.9
Principal Axes:
Scale 10**24 D-CM
T Val= 1.53 Plg= 9 Azm= 86
N 0.02 69 199
P -1.55 19 353
Best Double Couple Mo=1.5*10**24
NP1:Strike=131 Dip=70 Slip=-172
NP2: 38 83 -20

25 21 15 28.97 23.123S 177.296W 203km
5.5mb (41 obs)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 27C
Centroid Location
Origin Time 21:15:34.8 0.2
Lat 22.97S 0.03 Lon 177.39W 0.03
Dep 202.3 0.9 Half-duration 3.2
Principal Axes:
Scale 10**24 D-CM
T Val= 6.07 Plg=44 Azm=134
N 1.47 3 41
P -7.54 46 308
Best Double Couple:Mo=6.8*10**24
NP1:Strike=286 Dip= 3 Slip= -25
NP2 41 89 -93

26 03 06 57.89 33.053S 68.467W 5km
6.0mb (42 obs.) 5.9Msz (20 obs.)
MENDOZA PROVINCE, ARGENTINA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=328 Dip=50 Slip= 90
NP2: 148 40 90
Principal Axes:
T Plg=85 Azm=238
P 5 58
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 10 No. of sta: 8
Principal Axes:
Scale 10**25 d-cm
T Val= 1.94 Plg=23 Azm=325
N 0.14 66 133
P -2.08 5 233
Best Double Couple:Mo=2.0*10**25
NP1:Strike= 7 Dip=71 Slip= 166
NP2: 102 77 20
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 28C
Centroid Location:
Origin Time 03:07: 5.0 0.2
Lat 33.11S 0.03 Lon 68.75W 0.03
Dep 28.4 1.7 Half-duration 3.5
Principal Axes:
Scale 10**24 D-CM
T Val= 9.88 Plg=72 Azm=325
N 0.63 15 179

P -10.50 9 86
Best Double Couple:Mo=1.0*10**25
NP1:Strike=158 Dip=38 Slip= 65
NP2: 9 56 108

26 17 41 14.43 44.887N 146.637E 173km
5.3mb (70 obs)
KURIL ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 7S, 13C
Centroid Location:
Origin Time 17:41 13.7 1.3
Lat 44.84N 0.13 Lon 146.60E 0.21
Dep 172.7 5.5 Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM
T Val= 6.19 Plg=32 Azm= 23
N -1.25 57 218
P -4.94 7 117
Best Double Couple:Mo=5.6*10**23
NP1:Strike=165 Dip=63 Slip= 19
NP2: 66 73 151

26 21 36 10.86 32.545N 131.184E 121km
5.8mb (86 obs.)
KYUSHU, JAPAN
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=244 Dip=52 Slip= 145
NP2: 357 63 44
Principal Axes:
T Plg=49 Azm=216
P 7 118
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 98 No. of sta 9
Principal Axes.
Scale 10**24 d-cm
T Val= 3.15 Plg=47 Azm=224
N 0.00 42 26
P -3.15 9 124
Best Double Couple:Mo=3.1*10**24
NP1:Strike=252 Dip=51 Slip= 149
NP2: 3 66 43
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 23C
Centroid Location.
Origin Time 21:36.13.4 0.3
Lat 32.26N 0.03 Lon 131.36E 0.06
Dep 117.5 2.1 Half-duration 2.6
Principal Axes.
Scale 10**24 D-CM
T Val= 3.54 Plg=51 Azm=214
N 0.21 37 10
P -3.75 12 109
Best Double Couple:Mo=3.6*10**24
NP1:Strike=236 Dip=46 Slip= 146
NP2: 351 66 49

30 03 24 43.00 56.191N 163.687E 33km
5.3mb (70 obs.) 4.9Msz (9 obs.)
NEAR EAST COAST OF KAMCHATKA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 17C
Centroid Location:
Origin Time 03:24:47.2 0.6
Lat 56.52N 0.10 Lon 163.47E 0.15
Dep 34.2 7.6 Half-duration 1.6
Principal Axes:
Scale 10**23 D-CM
T Val= 6.90 Plg=62 Azm=226
N 5.01 23 9
P -11.90 15 106
Best Double Couple:Mo=9.4*10**23
NP1:Strike=225 Dip=36 Slip= 132
NP2: 357 64 64

30 16 29 43.03 20.967S 179.006W 629km
5.1mb (29 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 15C
Centroid Location:
Origin Time 16:29:50.0 1.7
Lat 20.69S 0.16 Lon 179.11W 0.12
Dep 613.9 6.9 Half-duration 1.6
Principal Axes
Scale 10**23 D-CM
T Val= 9.69 Plg=20 Azm= 38
N -0.87 60 167
P -8.83 21 299
Best Double Couple:Mo=9.3*10**23
NP1:Strike= 79 Dip=60 Slip=-179
NP2: 348 89 -30

31 01 51 59.76 6.494S 104.263E 33km
5.1mb (17 obs.) 4.3Msz (1 obs.)
SUNDA STRAIT
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 19C
Centroid Location:
Origin Time 21:44:15.7 0.9
Lat 3.57S 0.06 Lon 141.92E 0.08
Dep 61.0 9.5 Half-duration 4.1
Principal Axes:
Scale 10**25 D-CM
T Val= 1.68 Plg= 5 Azm=124
N 0.11 75 234
P -1.79 14 32
Best Double Couple:Mo=1.7*10**25
NP1:Strike=169 Dip=77 Slip=-174
NP2: 77 84 -13

31 02 43 02.42 2.743N 128.586E 224km
5.4mb (46 obs.)
HALMAHERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 23C
Centroid Location:
Origin Time 02:43: 3.5 0.3
Lat 2.84N 0.04 Lon 128.33E 0.06
Dep 224.9 2.8 Half-duration 2.2
Principal Axes:
Scale 10**24 D-CM
T Val= 2.68 Plg=42 Azm=126
N -0.48 39 350
P -2.20 23 240
Best Double Couple:Mo=2.4*10**24
NP1:Strike=282 Dip=41 Slip= 17
NP2: 179 79 130

31 04 32 57.68 46.083S 165.092E 10km
5.8mb (24 obs.) 6.1Msz (13 obs.)
OFF W. COAST OF S. ISLAND, N.Z.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=197 Dip=68 Slip= 90
NP2: 17 22 90
Principal Axes:
T Plg=67 Azm=107
P 23 287
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 23 No. of sta: 7
Principal Axes:
Scale 10**25 d-cm
T Val= 3.30 Plg=58 Azm=154
N -0.01 29 5
P -3.28 14 267
Best Double Couple:Mo=3.3*10**25
NP1:Strike=324 Dip=40 Slip= 42
NP2: 200 65 122
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 25C
Centroid Location:
Origin Time 04:33: 4.0 0.3
Lat 46.49S 0.04 Lon 164.64E 0.04
Dep 10.0 FIX Half-duration 5.3
Principal Axes:
Scale 10**25 D-CM
T Val= 2.33 Plg=68 Azm=116
N 1.65 4 15
P -3.98 21 283
Best Double Couple:Mo=3.2*10**25
NP1:Strike= 5 Dip=24 Slip= 79
NP2: 197 66 95

31 06 35 09.10 62.114S 162.974E 10km
5.6mb (11 obs.) 6.1Msz (2 obs.)
BALLENY ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN

L.P.B - 12S, 21C
Centroid Location:
Origin Time 06:35.18.4 0.4
Lat 61.89S 0 05 Lon 162.37E 0.11
Dep 10 0 FIX Half-duration 2.8
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	5.80	19	38
N	-1.87	71	213
P	-3.93	2	307

Best Double Couple:Mo=4.9*10**24
NP1:Strike= 81 Dip=76 Slip= 168
NP2: 174 78 15

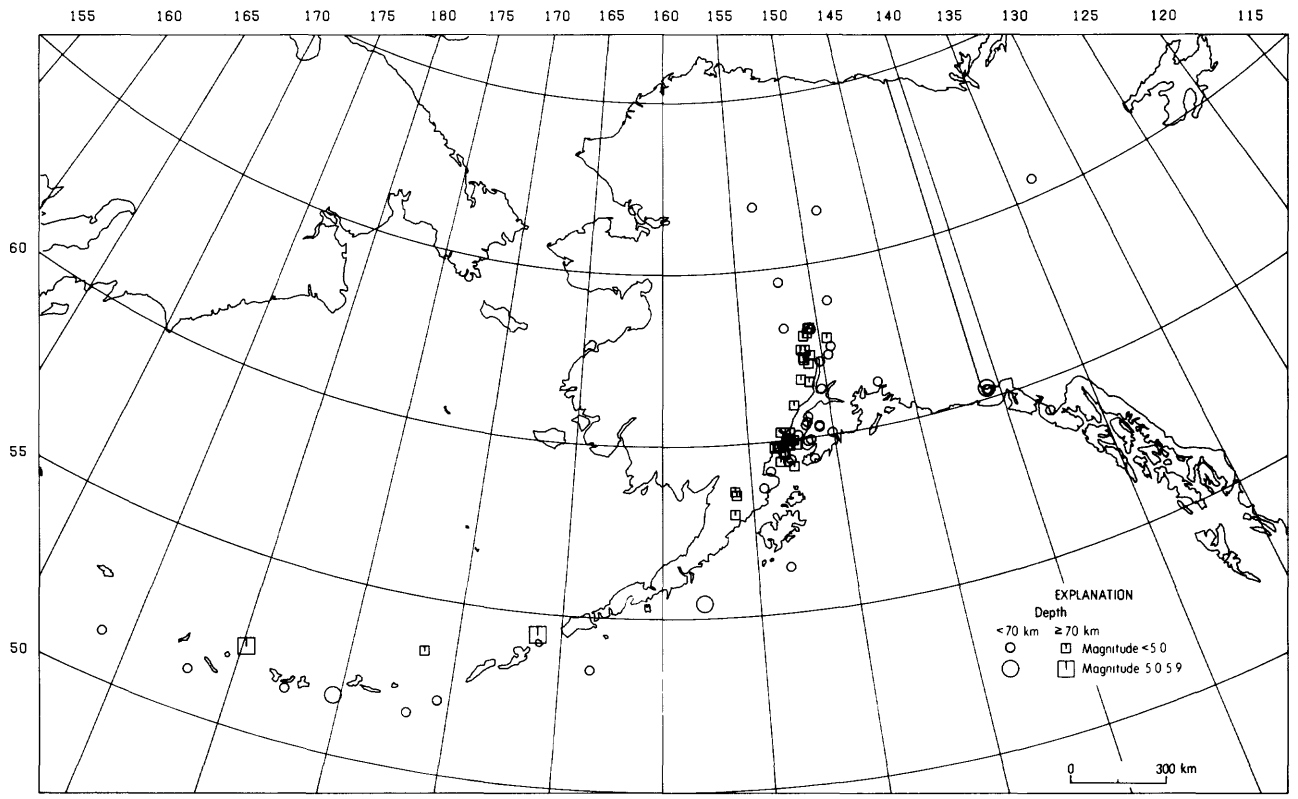
31 12 49 25 75 6.390S 104.403E 50km
5.4mb (23 obs.)
SUNDA STRAIT
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 15C
Centroid Location:
Origin Time 12:49:22 3 1 2
Lat 6.94S 0.09 Lon 103.77E 0.20
Dep 48.1 9.2 Half-duration 1.8

Principal Axes
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	1 27	13	263
N	0 22	64	21
P	-1 49	22	168

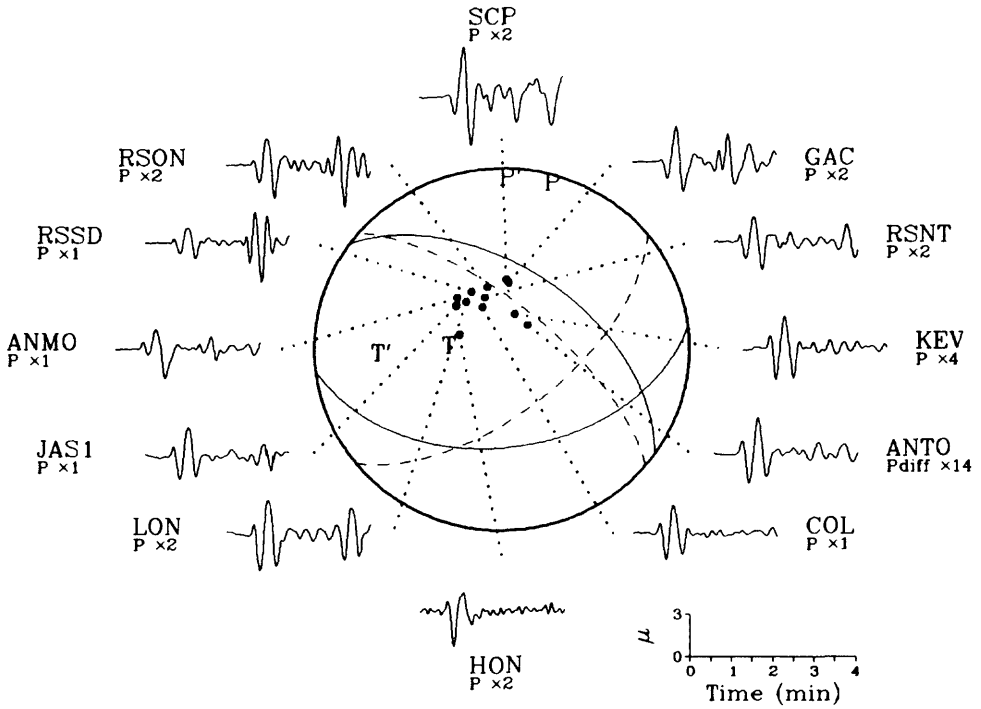
Best Double Couple Mo=1 4*10**24
NP1.Strike=307 Dip=65 Slip=-173
NP2: 214 83 -26

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

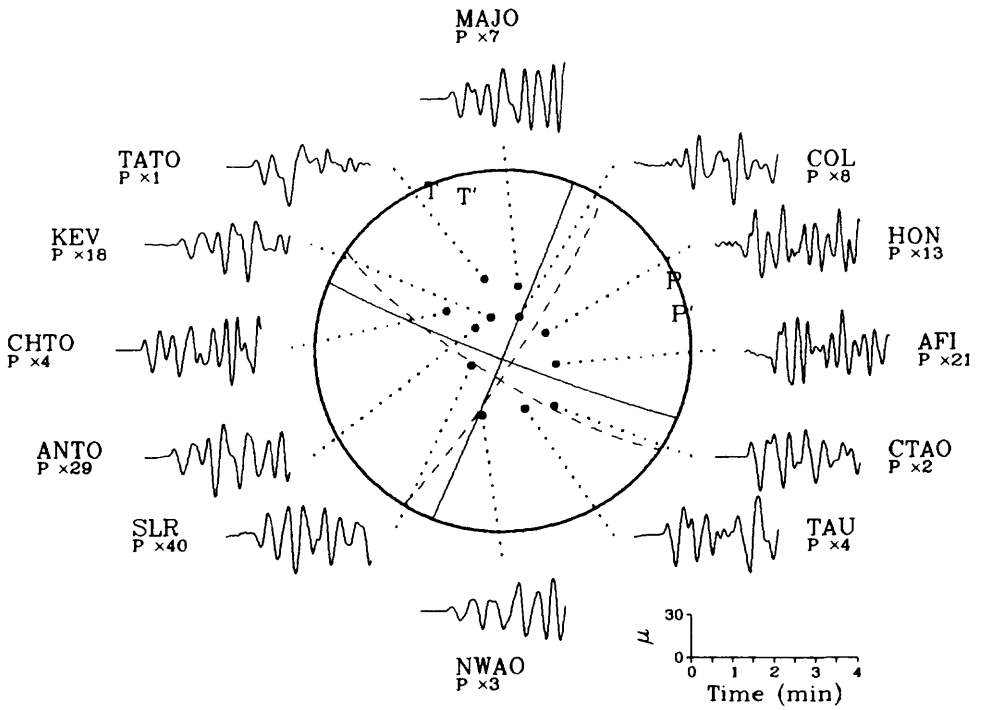


Earthquake epicenters in Alaska and adjacent regions for January, 1985 (C. Stover).

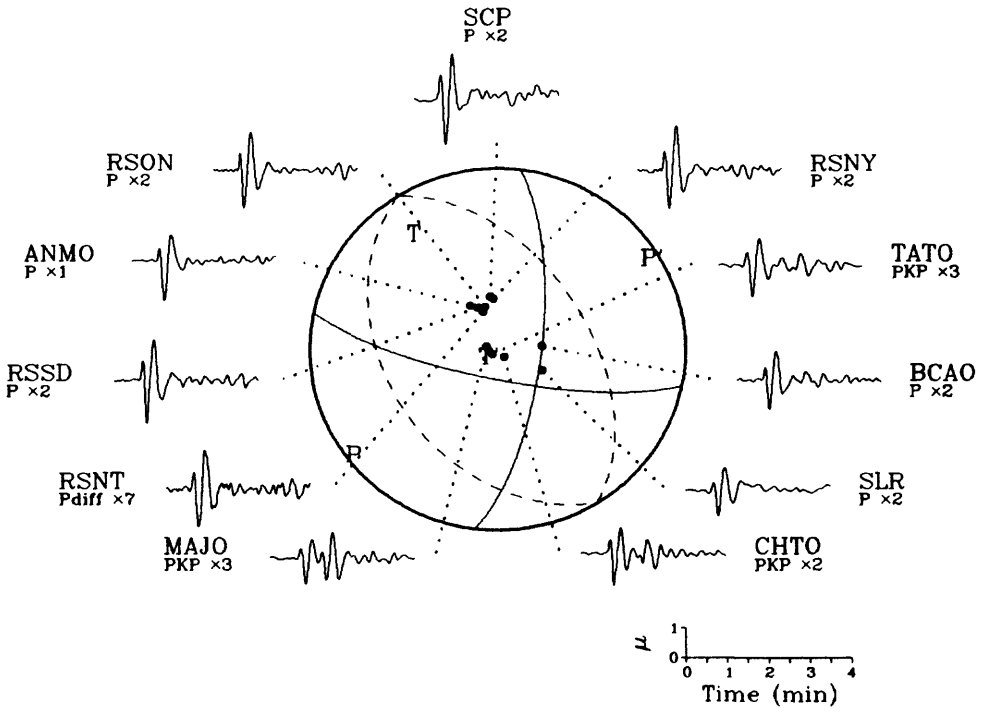
05 January 1985 11:11:31.15
North of Panama



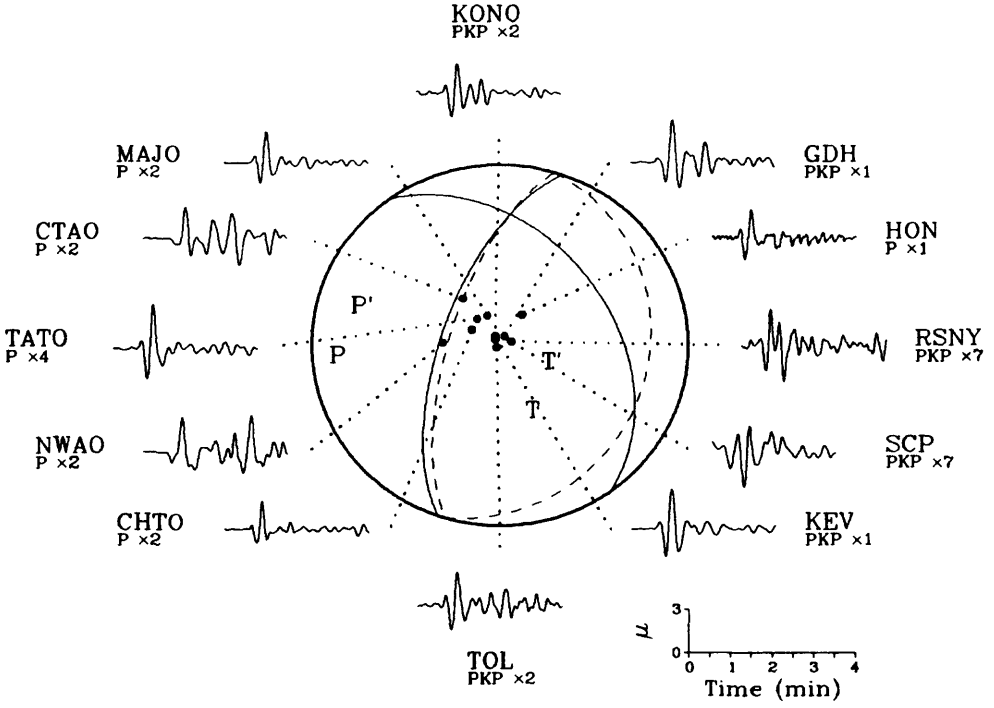
21 January 1985 00:55:22.76
Halmahera

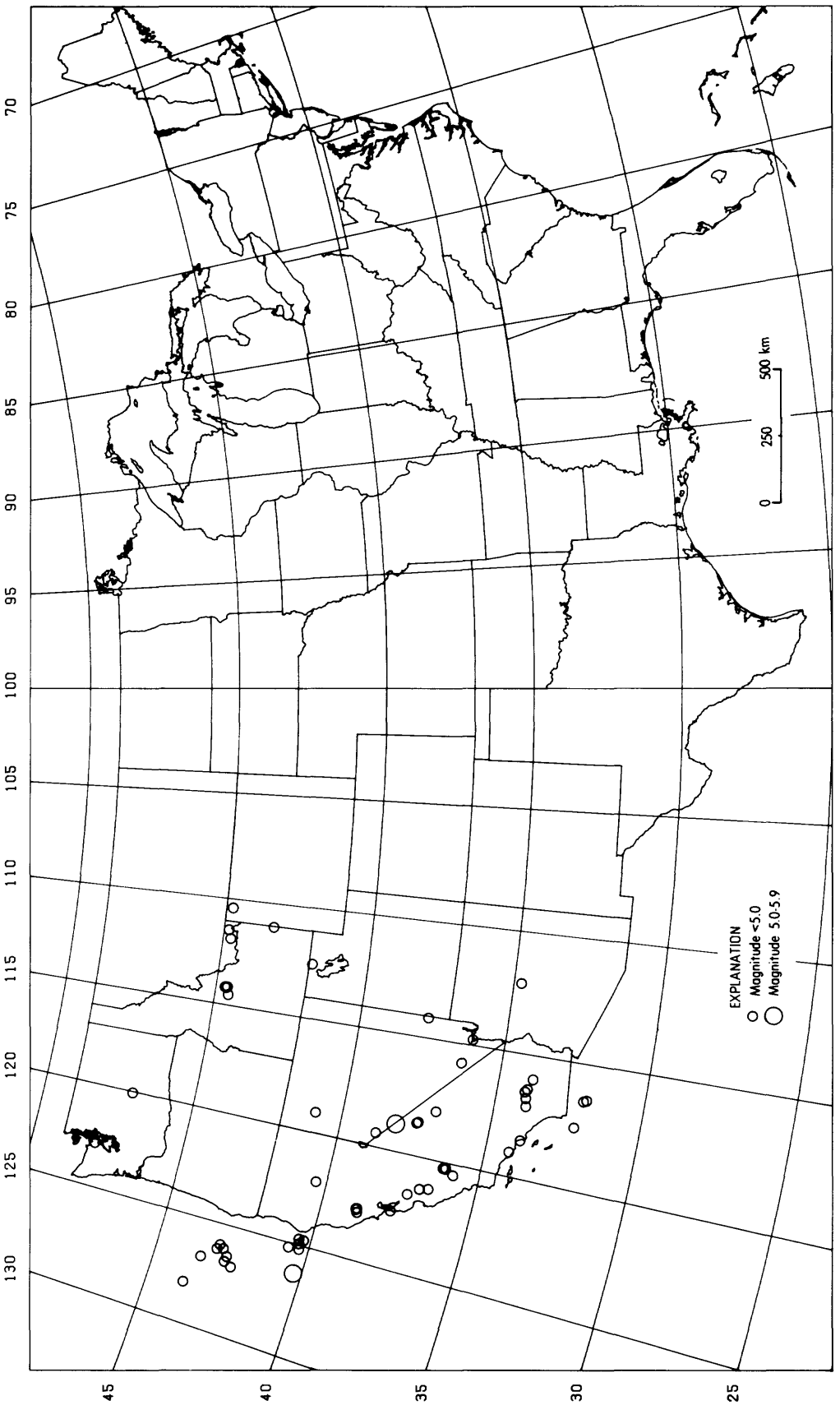


26 January 1985 03:06:57.89
Mendoza Province, Argentina

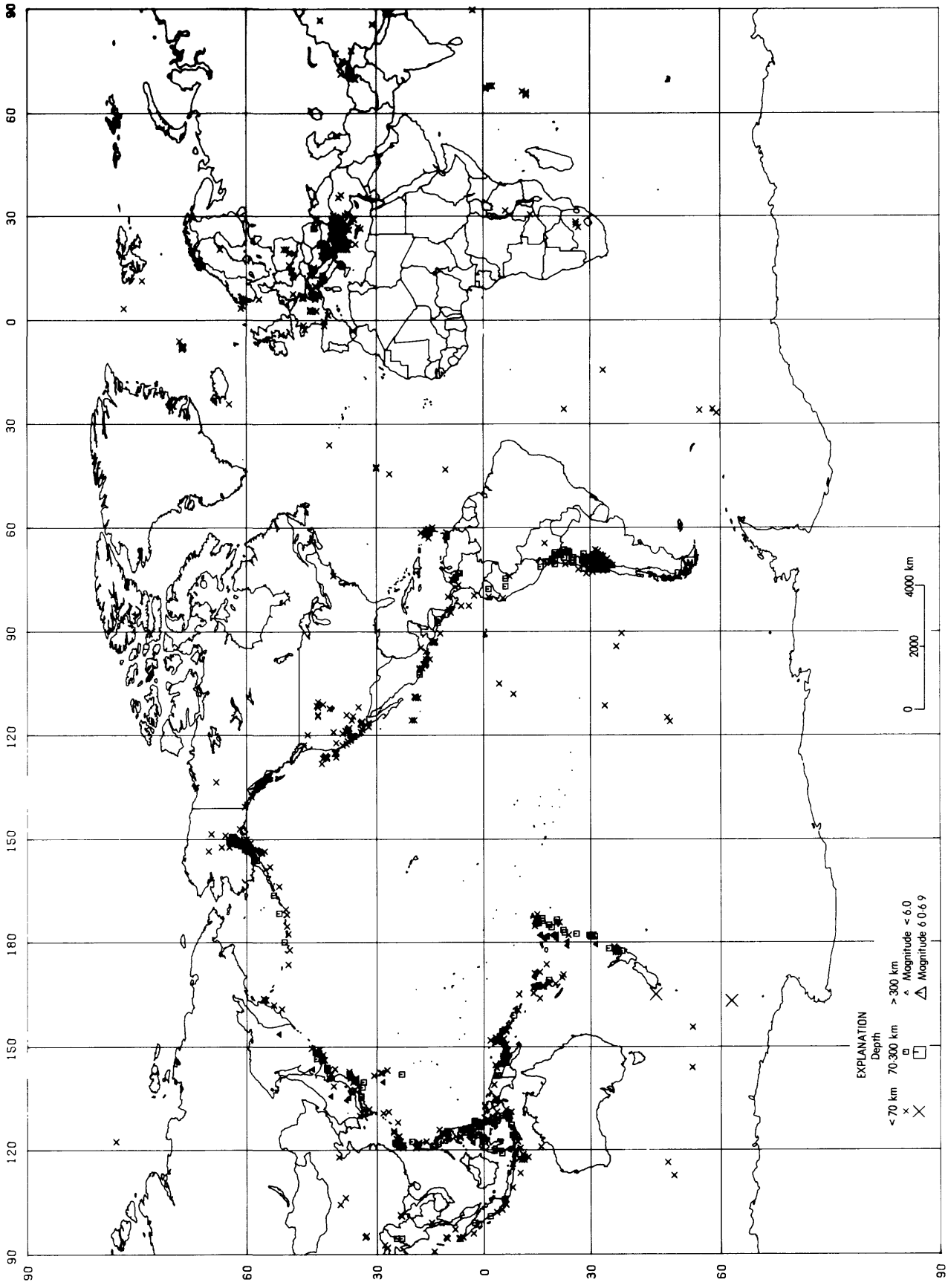


31 January 1985 04:32:57.68
Off W. Coast of S. Island, N.Z.





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



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

EXPLANATION OF ABBREVIATIONS AND SYMBOLS APPEARING IN THIS PUBLICATION

Abbreviations in Heading

MB - Body wave magnitudes.
Msz - Vertical surface wave magnitudes.
UTC - Coordinated Universal Time HR MN SEC - Hour, minute, second
SD - Standard Deviation from the arithmetic mean of residuals.
No. 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:
a - Additional source parameters
f - Additional source parameters plus focal sphere

Symbols and Abbreviations Used in Comments

AEC U S. Atomic Energy Commission.
AGS Alaska Seismic Project, U S. Geological Survey, Menlo Park, California.
APT University of Connecticut
BLA Virginia Polytechnic Institute and State University, Blacksburg.
BRK University of California, Berkeley.
CL Coda length magnitude
DOE U S. Department of Energy.
DUR Duration magnitude.
ERDA U S Energy Research and Development Administration.
EXPLO Some or all parameters of explosion (controlled or accidental) supplied by any group or individual other than ERDA or its successor organizations.
GLD U S. Geological Survey, Golden, Colorado.
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 Geophysique, Bruyeres-le-Chatel, France.
MACRO Hypocenter based upon macroseismic information.
MW Moment Magnitude.
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.

Roman Numerals 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 Circular 791, Seismograph Station Codes and Characteristics (1978).

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 nat normally used by the National Earthquake Information Service (NEIS) The source or noture of the determination is indicated by a 2 to 5 letter code enclosed by angle brackets and appearing in the first line of comments. "-P" appended to the code indicates that the computation is preliminary These codes are included with 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 horizontol 90% confidence ellipse is greater thon 16.0 km. This includes a poor solution computed using data reported by o single network

The lack of any symbol indicates that the geometric meon of the semi-mojor and semi-minor oxes 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 Mercolli (M.M.), 1931	Japanese, 1950 (JMA)	Rossi-Forel, 1873 (RF)	European (Mercolli - Cancani-Sieberg), 1917
I	0	I	I
II	I	I-II	II
III	II	III	III
IV	II-III	IV-V	IV
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.

FAULT PLANE SOLUTIONS

A fault plane solution is determined when possible for any earthquake having a magnitude $\geq$ 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:

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

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:

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

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:

$$ML = \text{Log } A - \text{Log } Ao$$

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

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 ≥ 5.8 will be shown. For each event, up to twelve long-period, vertical component, body phase waveforms will be selected from the Global Digital Seismograph Network (GDSN) Network Day tapes (NDT's) 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 will 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 comprised of approximately half a minute of noise followed by three minutes of signal. Absolute amplitude, in micrometers of ground displacement at the dominant period of the pass-band (25s) will be preserved to an integer scale factor. Each waveform will be identified by station code, phase name, and scale factor. Time and amplitude may be referenced to a set of axes shown in the lower right hand corner of each plot. Absolute amplitude may be recovered by measuring it relative to the amplitude axis and dividing by the scale factor.

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 will 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. Also note that any data on the NDT's may be used. However, not all of these data have been derived from the GDSN. For details on contributed data see the NDT Newsletter.

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

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

REFERENCES

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.

BERKELEY MOMENT

The seismic moment (Mo) 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 (Mo) in dyne-cm is defined by Log Mo = 16.74 + 1.22Log(CDΔ), where C is the maximum peak-to-peak amplitude in mm, D is the duration in seconds from the time of the S-wave onset to the last time that the peak-to-peak amplitude exceeds C/3, and Δ is the epicentral distance in km.

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

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).

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**26 dyne-cm.

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.

3. MOMENT TENSOR. The scale factor (e.g., 10**27D-CM) 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 = Mrr; MTT = M$\theta\theta$; MFF = M$\phi\phi$; MRT = Mrθ; MRF = Mrϕ; MTF = M$\theta\phi$. In another frequently used notation: MRR = Mzz; MTT = Mxx; MFF = Myy; MRT = Mxz; MRF = -Myz; MTF = -Mxy(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 Mo = $1/2(\sigma_1 + \sigma_2)$. The strike, dip and slip of the first (NP1) and second (NP2) nodal planes are calculated from the directions of the P, T, and N axes. The remainder is a linear-vector dipole (Knopoff and Randall, 1970); in most cases the magnitude of LVD is small. Although all such decompositions are highly non-unique, this particular one is the best in estimating the starting solution for the non-linear, constrained double couple inverse problem. The angles strike, dip, and slip are defined using the convention of Aki and Richards (1980, p. 106) and are the angles designated there as ϕ_s, δ, λ, respectively.

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

REFERENCES

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

Dziewonski, A. M., Chou, T. A., Woodhouse, J. H., Determination of earthquake source parameters from waveform data for studies of global and regional seismicity, J. Geophys. Res., 86, 2825-2852, 1981.

Knopoff, L. and Randall, M. J., The compensated linear-vector dipole: A possible mechanism for deep earthquakes, J. Geophys. Res. , 75, 4957-4963, 1970.

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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 5

KEY	DAY	ORIGIN TIME UTC HR	MN	SEC	GEOGRAPHIC COORDINATES LAT		LONG		DEPTH	MAGNITUDES GS MB	Msz	SD	NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
a	01	00	47	16.3	17.712	S	174.371	W	118 D	5.7		1.0	225	TONGA ISLANDS
	01	01	15	52.6*	23.367	S	68.158	W	150 *			1.3	8	NORTHERN CHILE
	01	01	19	26.6*	16.000	N	95.521	W	33 N	4.5		0.9	25	NEAR COAST OF OAXACA, MEXICO
a	01	04	52	13 3	18.720	S	169.036	E	217 D	5.2		0.9	117	VANUATU ISLANDS
	01	06	50	45.0%	45.244	N	25.331	E	33 N			0 6	6	ROMANIA
	01	09	10	10 5&	59.833	N	153.571	W	144				32	SOUTHERN ALASKA. <AGS-P>.
a	01	11	13	20 1	5 661	S	148.689	E	172	5.1		0 9	70	NEW BRITAIN REGION
	01	11	17	15.1%	32.479	S	71.466	W	33 N			1 0	9	NEAR COAST OF CENTRAL CHILE
	01	12	51	16.6%	33.281	S	70 867	W	33 N			1 2	8	CHILE-ARGENTINA BORDER REGION
	01	13	04	40.1%	40.134	N	23.205	E	10 G			0.2	5	GREECE
	01	14	05	01.2?	6.95	S	150.18	E	33 N	4.5		0 5	5	NEW BRITAIN REGION
	01	14	50	52.5?	23.02	S	68 30	W	120 ?			0.3	6	NORTHERN CHILE
	01	15	19	38.6%	33.147	S	70 839	W	10 G			0 3	7	CHILE-ARGENTINA BORDER REGION
	01	15	46	47.3?	32.41	S	69.58	W	137 ?			0 6	14	MENDOZA PROVINCE, ARGENTINA
	01	16	26	34.4%	33.140	S	70.254	W	10 G			0 4	5	CHILE-ARGENTINA BORDER REGION
	01	16	42	19.6*	22.114	N	121.503	E	33 N	3.7		1.3	18	TAIWAN REGION
	01	18	39	14.9*	21.067	S	178.439	W	591 *	4.6		0.8	30	FIJI ISLANDS REGION
	01	21	51	39.6&	60.014	N	152.757	W	91				30	SOUTHERN ALASKA <AGS-P>.
	01	22	01	52.9*	50.337	N	18.806	E	10 G			0.6	5	POLAND. ML 3 0 (KRA)
	02	01	22	44.6*	21.974	N	100.759	E	33 N			1.0	6	BURMA-CHINA BORDER REGION
	02	03	40	01.7&	31.880	N	115.990	W	6 G				8	BAJA CALIFORNIA <PAS-P>. ML 3.4 (PAS).
	02	04	30	30.1	10.563	S	114 969	E	33 N	5.3	5.2	1.4	80	SOUTH OF BALI ISLAND
	02	05	53	07.2?	15 54	S	75.56	W	64 ?	5.0	4.3	1 4	17	NEAR COAST OF PERU
	02	06	33	11.4*	52 127	N	170 919	W	33 N	4.5		0.9	34	FOX ISLANDS, ALEUTIAN ISLANDS
	02	06	36	23 7*	20.363	S	178 375	W	559 *	4.5		0.8	51	FIJI ISLANDS REGION
	02	07	18	31.1%	39 961	N	28.742	E	10 G			1.1	8	TURKEY
	02	08	48	54.2	63 590	N	149.984	W	33 N			0.6	9	CENTRAL ALASKA ML 3.3 (PMR).
	02	09	50	08.6*	31 575	S	67 812	W	20			1.0	10	SAN JUAN PROVINCE, ARGENTINA
	02	10	23	20 1*	17 196	N	94.340	W	33 N	4.1		1.3	9	CHIAPAS, MEXICO
a	02	11	06	47.2	43.838	N	147 686	E	42 D	5.6	5.1	0.9	286	KURIL ISLANDS. Felt (II JMA) at Nemuro, Hokkaido, Japon.
	02	11	39	26.0*	24.107	S	66.804	W	210	4.3		1.2	15	SALTA PROVINCE, ARGENTINA
	02	13	13	49.0&	61.670	N	152 173	W	116				40	SOUTHERN ALASKA. <AGS-P>.
	02	15	41	38.2*	31.332	S	68.942	W	136 *			0.8	15	SAN JUAN PROVINCE, ARGENTINA
	02	15	50	58.7	79 669	N	3 821	E	10 G	4.5	4.3	0.8	51	GREENLAND SEA
	02	15	51	53.1*	7.607	S	129 109	E	133 *	5.0		1.4	19	BANDA SEA
	02	18	29	43.8	12.371	N	86 316	W	180 D	4.5		1.1	73	NICARAGUA
	02	19	17	41.7?	21.48	S	177 38	W	326 ?	4.4		1.4	19	FIJI ISLANDS REGION
a	02	20	52	34.2	28.399	N	52.997	E	37	5.2	5.3	1.0	213	SOUTHERN IRAN. One person killed, 80 injured and about 1500 buildings destroyed or damaged in the Firuzabad-Jahrom area.
	02	21	58	49.3?	31.50	S	69 84	W	132 ?			0.6	10	SAN JUAN PROVINCE, ARGENTINA
	02	22	08	16.6&	58.022	N	145.740	W	0				32	GULF OF ALASKA <AGS-P>.
	02	22	21	29.7	28.527	N	52.963	E	33 N	4.5		1.1	24	SOUTHERN IRAN. Felt in the Firuzabad-Jahrom area.
	02	22	30	10.2%	33.875	S	70.878	W	33 N			0.9	9	CHILE-ARGENTINA BORDER REGION
	02	22	40	09.0	28.396	N	52.866	E	33 N	4.6		1.1	76	SOUTHERN IRAN Felt in the Firuzabad-Jahrom area.
	02	23	00	13.5%	46.264	N	0 160	E	10 G			1.0	6	FRANCE ML 2 2 (LDG)
	02	23	35	42.3	33.324	S	70.304	W	105	4.2		1.0	20	CHILE-ARGENTINA BORDER REGION. Felt (II) at Santiago, Chile
	03	00	06	49.8	38.846	N	142.195	E	66	4.8		0.9	77	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Ofunato, (II JMA) at Miyako, (I JMA) at Morioka and Ishinomaki
	03	00	43	44.3	12.158	N	57.924	E	10 G	4.8		1 0	57	ARABIAN SEA
	03	01	48	30.2	37.270	N	121.618	W	5 G			0 6	14	CENTRAL CALIFORNIA. ML 2.8 (BRK). Mo=9 5*10**19 (BRK).
	03	02	40	12.8*	25 452	N	94.561	E	59 *	4 6		1 2	33	BURMA-INDIA BORDER REGION
	03	03	01	44.6?	6.82	S	130.46	E	64 ?	4.5		1 3	12	BANDA SEA
	03	03	02	09.9*	17.300	S	172.258	W	33 N	4 6		1 3	17	TONGA ISLANDS REGION
	03	03	47	48.6*	17.267	N	99.467	W	64 *	4 2		0.8	14	GUERRERO, MEXICO

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f	03	04	50	55.2	20	547	S	174.099	W	57	D	5.8	1.0	312	TONGA ISLANDS
	03	06	12	15 4		6.747	N	72.903	W	172		4.8	0.9	17	NORTHERN COLOMBIA
	03	07	41	00.3*	41	999	N	84.395	E	33	N	4.5	1.3	17	SOUTHERN XINJIANG, CHINA
	03	08	49	19.4&	40	195	N	124.492	W	5	G			16	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.4 (BRK). Mo=9.1*10**20 (BRK).
	03	09	20	22.4*	36	168	N	139.785	E	33	N		0.9	9	HONSHU, JAPAN. Felt (II JMA) at Utsunomiya.
	03	09	35	48.6*	78	174	N	6.336	E	10	G	4.0	1.2	7	SVALBARD REGION
	03	10	14	03.8?	57	86	S	25.27	W	60	G	4.3	0.8	8	SOUTH SANDWICH ISLANDS REGION
o	03	11	03	23.5	7	025	S	125.114	E	554		5.3	1.1	87	BANDA SEA
	03	13	06	52.2	6	881	N	76.429	W	39		4.9	0.9	109	NORTHERN COLOMBIA. Felt at Bogota and Medellin.
o	03	14	46	09.3	18	352	S	64.597	E	10	G	5.0	0.8	102	MASCARENE ISLANDS REGION
	03	15	47	14.2%	39	301	N	29.260	E	10	G		0.8	5	TURKEY
	03	16	40	45 3	37	714	N	23.824	E	204		4.0	0.7	17	SOUTHERN GREECE
	03	16	45	49.5%	40	555	N	27.618	E	10	G		0.2	5	TURKEY
	03	16	46	39.7*	53	460	S	24.912	E	10	G	5.0	1.0	15	SOUTH OF AFRICA
	03	17	48	21.1&	32	580	N	115.640	W	6	G			8	CALIFORNIA-MEXICO BORDER REGION <PAS-P>. ML 3.8 (PAS).
	03	18	29	37.8%	46	527	N	2.873	E	10	G		0.3	5	FRANCE. ML 2.1 (LDG).
	03	18	36	36.9?	15	83	N	97.96	W	10	G	4.3	1.1	14	NEAR COAST OF OAXACA, MEXICO
	03	19	10	58.9&	61	544	N	150.147	W	57				38	SOUTHERN ALASKA. <AGS-P>. Felt at Anchorage, Eagle River, Palmer and Wasilla.
	03	19	53	16.1*	36	320	N	69.237	E	33	N	4.2	1.5	8	HINDU KUSH REGION
	03	21	13	34 6	62	554	N	151.236	W	86	?		0.4	13	CENTRAL ALASKA
	03	21	32	13.8%	39	048	N	27.840	E	10	G		0.5	6	TURKEY
	03	22	16	55.5*	7	289	N	72.037	W	33	N		0.8	6	NORTHERN COLOMBIA
	03	22	17	49.4&	59	881	N	153.363	W	119				25	SOUTHERN ALASKA. <AGS-P>.
	04	00	08	37.5*	30	925	S	71.495	W	33	N		0.6	10	NEAR COAST OF CENTRAL CHILE
	04	00	12	25.7%	34	208	S	71.074	W	33	N		0.3	6	NEAR COAST OF CENTRAL CHILE
	04	00	28	01.7?	6	75	S	130.93	E	108	?	4.3	1.5	6	BANDA SEA
	04	00	34	37.4	42	790	N	13.031	E	10	G		0.8	8	CENTRAL ITALY
	04	02	11	45.1%	15	021	N	59.696	W	10	G		0.2	5	LEEWARD ISLANDS
	04	02	47	04.2*	31	562	S	68.615	W	122	*		1.1	14	SAN JUAN PROVINCE, ARGENTINA
	04	03	09	24.5&	32	350	N	117.950	W	6	G			13	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.8 (PAS). Felt in the San Diego, California area.
	04	03	35	12.3	40	821	N	27.870	E	10	G		0.6	9	TURKEY
	04	03	43	17.2	40	691	N	22.730	E	12			0.6	10	GREECE. mbLg 2.8 (SKO).
	04	03	53	26.3%	40	678	N	22 675	E	10	G		0.7	6	GREECE
	04	06	12	33.1*	20	544	S	178.421	W	560	G	5.0	0.8	22	FIJI ISLANDS REGION
	04	10	04	47.8%	15	244	N	59.459	W	33	N		1.4	5	LEEWARD ISLANDS
	04	10	26	00.3*	24	820	S	179.513	E	529	*	4.9	1.2	40	SOUTH OF FIJI ISLANDS
	04	10	50	27.2	3	640	S	78.004	W	124		5.0	0.8	88	PERU-ECUADOR BORDER REGION
	04	11	24	55.4	28	925	S	179.035	W	309		4.5	1.3	55	KERMADEC ISLANDS REGION
	04	11	47	22.2	50	509	N	155.246	E	126	D	4.6	0.9	45	KURIL ISLANDS
	04	12	03	00 5	43	134	N	0.700	W	19			0.7	15	PYRENEES. ML 3.2 (LDG).
	04	14	28	20.4?	51	69	N	16.38	E	10	G		0.2	7	POLAND. ML 3.3 (VKA), 3.1 (KBA).
	04	14	55	44.9*	31	348	S	71.651	W	33	N		1.4	11	NEAR COAST OF CENTRAL CHILE
	04	15	10	38.3	63	536	N	149.222	W	16		4.5	0.9	22	CENTRAL ALASKA. ML 4.3 (PMR). Felt (V) at Healy and (IV) at Cantwell. Also felt at Fairbanks, Nenana and Willow.
	04	16	14	01.1*	5	713	S	104.690	E	33	N	4.8	1.4	34	SOUTHERN SUMATERA
	04	16	14	52.7	16	008	S	74 075	W	52	D	4.9	1.0	20	NEAR COAST OF PERU
	04	18	38	44 4	8	805	S	120 280	E	141	*	4.9	1.2	56	FLORES ISLAND REGION
	04	18	57	39.6%	46	500	N	2.968	E	10	G		0.2	7	FRANCE. ML 2.4 (LDG).
	04	19	23	53.2	44	261	N	28.234	W	10	G	4.6 4.3	0.8	36	NORTH ATLANTIC RIDGE
	04	19	54	15.9%	40	307	N	30.059	E	10	G		1.0	5	TURKEY
	04	22	42	41.7*	31	768	S	69 498	W	150	*		0.8	18	SAN JUAN PROVINCE, ARGENTINA
	04	23	16	21.0	2	046	S	139.208	E	33	N	5.1	1.0	36	NEAR N. COAST OF WEST IRIAN
	04	23	37	18.3*	45	259	N	27.990	E	33	N	3.2	1.0	14	ROMANIA
	04	23	47	35.1&	37	470	N	118.690	W	6	G			8	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.0 (PAS).
	05	00	06	58.0*	4	133	S	138.522	E	33	N	4.8	1.1	14	WEST IRIAN
	05	01	22	10.4	38	283	N	22.085	E	27		4.0	1.3	34	GREECE. ML 3.5 (ATH).
	05	01	29	18.4*	35	079	N	24 403	E	81	*	4.0	1.0	21	CRETE
	05	03	13	23.3*	33	489	S	70.752	W	103	*		0.4	11	CHILE-ARGENTINA BORDER REGION
	05	07	22	21.0*	33	001	S	68.772	W	10	G		0.9	8	MENDOZA PROVINCE, ARGENTINA
o	05	07	41	25.9	5	096	S	151.380	E	166		5.1	0.9	128	NEW BRITAIN REGION
	05	08	02	18.9%	33	981	S	70.313	W	10	G		1.1	8	CHILE-ARGENTINA BORDER REGION
	05	08	28	58.0?	5	37	S	103.27	E	76	?	4.8	0.9	20	SOUTHERN SUMATERA
	05	08	56	09.2?	3	63	S	80.61	W	33	N	4.2	0.8	6	PERU-ECUADOR BORDER REGION
	05	09	27	44.2%	39	618	N	27.380	E	10	G		1.2	5	TURKEY
	05	09	37	22.8*	24	942	N	122.173	E	81	*		1.1	11	TAIWAN REGION
	05	11	48	18 5	4	892	N	78.334	W	26	D	5.1 4.3	1.0	67	SOUTH OF PANAMA
	05	12	12	33.1%	44	486	N	6.402	E	10	G		0.2	6	FRANCE. ML 2.9 (LDG).
o	05	15	07	24.2*	20	637	S	177.749	W	554	*	5.3	0.9	73	FIJI ISLANDS REGION
	05	15	29	22.7%	33	480	S	70.908	W	33	N		0.7	7	CHILE-ARGENTINA BORDER REGION
	05	17	04	34.9*	25	819	N	129.635	E	171	*	4 4	1.2	29	RYUKYU ISLANDS
	05	17	08	33.5%	15	640	N	60.427	W	33	N		0 1	6	LEEWARD ISLANDS
	05	19	58	28.3	33	547	S	69.985	W	14			0.2	9	CHILE-ARGENTINA BORDER REGION
	05	21	40	15.9*	40	240	N	23 941	E	10	G		1.0	11	GREECE
	05	21	58	19.7*	38	793	N	21.208	E	10	G		1 1	8	GREECE. ML 3.4 (ATH).
	05	22	19	07 9	39	730	N	49.096	E	33	N	4.5 3.6	1.2	30	CASPIAN SEA. Felt (IV) at Imishli, Soatly and Pushkino, USSR.
	05	23	31	56.9	39	902	N	24.552	E	15			0.8	23	AEGEAN SEA ML 3.5 (ATH).
	05	23	47	41.7	24	276	N	122 579	E	60		4 8	1.3	49	TAIWAN REGION
	06	00	16	42.1*	6	454	S	146.984	E	96	*	4.2	0.2	6	EAST PAPUA NEW GUINEA REGION
	06	01	19	05.3	33	063	S	68.602	W	5	G		1.0	14	MENDOZA PROVINCE, ARGENTINA. Felt (III) at Mendoza.
	06	02	32	10.4?	6	64	N	72.86	W	171	?		0.2	6	NORTHERN COLOMBIA
	06	02	43	02.7?	17	88	S	178.56	W	600	*	5.0	1.1	11	FIJI ISLANDS REGION
	06	04	45	05.4*	24	038	S	66.939	W	216	*	4.2	1.5	11	SALTA PROVINCE, ARGENTINA
	06	05	37	48.1*	32	597	S	68 724	W	33	N		0.7	7	MENDOZA PROVINCE, ARGENTINA
	06	06	17	19.2?	30	98	S	70.86	W	33	N		1.3	8	CHILE-ARGENTINA BORDER REGION
	06	06	34	08 6%	16	482	N	101.431	W	33	N		1.2	6	NEAR COAST OF GUERRERO, MEXICO
	06	06	37	51.4*	51	499	N	158 413	E	33	N	4 4	0.6	19	NEAR EAST COAST OF KAMCHATKA
	06	06	40	32 5?	31	72	S	70.28	W	138	?		0.2	8	CHILE-ARGENTINA BORDER REGION
	06	06	50	12.6	6	645	N	72.976	W	172		4 3	1.1	28	NORTHERN COLOMBIA

	06	12 25 42.3	4.556	S	144.079	E	121		5.2			1.0	46	NEAR N COAST OF PAPUA NEW GUINEA
a	06	13 29 46.0	43.961	N	149.289	E	13		5.6	5.2		0.8	211	KURIL ISLANDS REGION
	06	13 40 00.1?	28.80	S	71.77	W	54	?				1.2	16	NEAR COAST OF CENTRAL CHILE
	06	15 10 35.0%	33.444	S	70.949	W	10	G				0.4	8	CHILE-ARGENTINA BORDER REGION
a	06	15 27 17.2	43.865	N	149.250	E	47	D	5.3	5.2		1.2	124	KURIL ISLANDS REGION
	06	16 08 56.0	44.489	N	114.336	W	10	G				0.7	14	WESTERN IDAHO. ML 3.8 (NEIS). Felt (IV) at Clayton and (III) at Challis.
	06	16 16 12.9%	32.212	S	71.203	W	33	N				0.5	8	NEAR COAST OF CENTRAL CHILE
	06	16 21 01.3*	51.016	N	15.851	E	10	G				1.0	7	POLAND ML 3.1 (KBA), 2.6 (KRA).
	06	18 11 49.3?	8.52	S	128.26	E	122	?	4.5			1.5	8	TIMOR SEA
	06	18 13 54.2*	44.355	N	114.418	W	10	G				1.3	10	WESTERN IDAHO. ML 3.4 (NEIS). Felt at Challis.
	06	18 24 03.8%	34.239	S	71.028	W	33	N				0.5	9	NEAR COAST OF CENTRAL CHILE
	06	19 00 12.0*	44.896	S	95.351	E	10	G	4.9	4.6		0.9	22	SOUTHEAST INDIAN RISE
	06	19 19 46.6*	42.100	N	19.742	E	10	G				1.2	6	YUGOSLAVIA. ML 2.3 (TTG).
	06	19 34 19.4	44.551	N	114.176	W	10	G	4	7		0.8	58	WESTERN IDAHO. Felt strongly in the Challis area. Felt (V) at Clayton, (IV) at Carmen, May and Tendoy, (III) at Cobalt, Ellis, North Fork, Lemhi and Shoup. Also felt (III) at Wisdom, Montana.
	06	20 02 47.4	4.198	S	143.127	E	141		4	9		1.0	63	PAPUA NEW GUINEA
	06	21 01 28.6	6.695	N	72.988	W	168		4.8			1.2	23	NORTHERN COLOMBIA
	06	21 03 17.4*	39.639	N	16.702	E	34	*	3.7			1.0	21	SOUTHERN ITALY
	07	00 41 59.7*	31.111	S	68.099	W	30	*				1.5	12	SAN JUAN PROVINCE, ARGENTINA
	07	00 44 16.6&	59.896	N	152.773	W	94						28	SOUTHERN ALASKA. <AGS-P>.
	07	01 07 06.7	35.353	N	139.476	E	113		4	3		0.6	28	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Tokyo, (I JMA) at Yokohama, Chiba and Utsunomiya.
	07	02 14 04.4	44.421	N	114.185	W	10	G				0.5	18	WESTERN IDAHO. ML 3.7 (NEIS). Felt at Challis.
	07	03 20 13.2%	39.496	N	27.588	E	10	G				1.0	5	TURKEY
	07	04 47 45.5%	33.930	S	71.095	W	33	N				1.0	10	NEAR COAST OF CENTRAL CHILE
	07	05 26 58.7	20.221	S	168.966	E	23		5	2		1.1	109	LOYALTY ISLANDS
	07	08 21 34.1*	16.751	S	175.286	E	33	N	4.2			1.2	9	FIJI ISLANDS REGION
	07	08 24 41.0?	57.37	N	33.98	W	10	G	4.4	4.3		0.9	14	NORTH ATLANTIC OCEAN
o	07	09 27 43.5	51.566	N	173.863	W	33	N	5.3	4.8		0.9	148	ANDREANOF ISLANDS, ALEUTIAN IS. Ms 4.9 (BRK)
	07	09 46 13.0*	53.086	N	166.922	W	33	N	4	4		1.1	28	FOX ISLANDS, ALEUTIAN ISLANDS
	07	10 14 59.6*	43.177	N	24.853	E	10	G				1.4	5	BULGARIA
	07	12 01 44.5*	29.879	N	50.224	E	33	N	4	0		0.3	5	SOUTHERN IRAN
	07	12 49 02.0*	45.232	S	95.642	E	10	G	4.5			0.8	15	SOUTHEAST INDIAN RISE
	07	13 18 44.3	39.006	N	29.831	E	35		4.5			0.8	99	TURKEY. ML 4.8 (ATH).
	07	13 32 56.6	33.070	S	68.591	W	5	G				0.7	8	MENDOZA PROVINCE, ARGENTINA. Felt (I) at Mendoza.
	07	14 02 21.5	40.687	N	25.436	E	10					1.2	22	AEGEAN SEA
	07	14 13 32.5*	10.405	S	164.878	E	33	N	4	7		1.1	22	SANTA CRUZ ISLANDS REGION
	07	14 42 22.2*	43.006	N	25.275	E	10	G				1.4	7	BULGARIA
	07	16 09 16.2*	6.538	N	126.801	E	86	*	4.6			1.0	21	MINDANAO, PHILIPPINE ISLANDS
	07	16 11 05 3?	31.23	S	71.63	W	33	N				0.3	10	NEAR COAST OF CENTRAL CHILE
	07	16 21 16.9*	31.390	S	69.093	W	138	*				0.8	16	SAN JUAN PROVINCE, ARGENTINA
	07	17 18 51.8*	39.273	N	15.766	E	241	*	3.8			0.5	9	SOUTHERN ITALY
	07	17 30 25 0?	15.93	N	60.29	W	33	N				1.1	6	LEEWARD ISLANDS
	07	17 58 20.2?	23.37	N	45.03	W	10	G	4	7		0.6	10	NORTH ATLANTIC RIDGE
	07	18 49 45.0	31.659	S	68.081	W	10	G				0.7	10	SAN JUAN PROVINCE, ARGENTINA
	07	19 09 14.0%	33.454	S	70.921	W	33	N				0.6	7	CHILE-ARGENTINA BORDER REGION
	07	19 27 37.4%	40.079	N	29.368	E	10	G				0.8	10	TURKEY
	07	20 31 50.8%	39.052	N	29.941	E	10	G				1.2	7	TURKEY
	07	23 29 22 7?	31.98	S	71.66	W	20					0.4	9	NEAR COAST OF CENTRAL CHILE
	07	23 44 35.3&	36.286	N	89.512	W	7						6	NEW MADRID, MISSOURI REGION <SLM> mbLg 3.1 (SLM) Felt at Ridgely, Tennessee
	08	00 02 10.6%	33.334	S	71.099	W	33	N				1.0	8	NEAR COAST OF CENTRAL CHILE
	08	00 11 10.3%	40.825	N	23.351	E	10	G				1.3	5	GREECE
	08	00 31 43.0?	17.66	N	145.67	E	208	?	4	4		0.8	10	MARIANA ISLANDS
	08	01 02 02.7*	34.609	N	135.313	E	387	*	3	7		0.9	14	NEAR S. COAST OF SOUTHERN HONSHU
	08	01 31 02.7	43.200	N	0.201	E	10	G				0.9	29	FRANCE. ML 4.0 (LDG)
	08	01 45 53.9	46.477	N	12.797	E	10	G				1.1	15	NORTHERN ITALY ML 3.4 (VKA), 3.3 (FUR), 2.9 (TRI) Felt at Kotschoch, Austria.
	08	02 16 18.9*	51.250	N	15.650	E	19	*				0.7	11	POLAND. ML 3.9 (GRF), 3.7 (VKA), 3.3 (KBA)
	08	03 06 23.0*	51.128	N	178.136	W	33	N	4	8		1.2	43	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.6 (PMR)
	08	04 32 46.3	46.831	N	152.850	E	36	D	5	2	4.4	0.8	124	KURIL ISLANDS
	08	06 58 16.9&	35.450	N	118.900	W	11		4.6				42	CENTRAL CALIFORNIA <PAS-P>. ML 4.6 (PAS), 4.7 (BRK) Slight damage (VI) at Bakersfield Felt (V) at Arvin, Delkern, Kern City and Lamont, (IV) at Coliente, Bodfish, Lake Isabella, Poplar, Posey, Pumpkin Center, Tehachapi, and Woody. Felt in Kern, Kings, Fresno, Los Angeles, Tulare, Santa Barbara, San Bernardino and Venturo counties.
	08	08 23 42.6*	25.211	S	153.436	E	33	N	4.9			1.4	10	NEAR EAST COAST OF AUSTRALIA
	08	08 51 39.3	36.223	N	120.200	W	5	G				0.9	12	CENTRAL CALIFORNIA ML 2.8 (BRK).
	08	08 54 08.2?	51.78	N	16.59	E	10	G				0.6	8	POLAND ML 3.3 (KBA).
	08	12 23 23.9%	34.111	S	71.129	W	33	N				0.7	7	NEAR COAST OF CENTRAL CHILE
o	08	13 34 07.3	47.236	N	154.175	E	33	N	5	3	4.6	0.9	105	KURIL ISLANDS
	08	13 39 17.0&	61.580	N	151.908	W	113						31	SOUTHERN ALASKA. <AGS-P>.
	08	14 17 55.3*	21.459	S	69.128	W	163	*				1.2	12	NORTHERN CHILE
	08	16 21 29.0	36.239	N	120.210	W	5	G				0.9	8	CENTRAL CALIFORNIA ML 2.9 (BRK).
	08	16 51 47.4%	34.226	S	70.986	W	33	N				0.7	9	CHILE-ARGENTINA BORDER REGION
	08	16 57 03.2*	34.060	S	70.608	W	105		2.9			0.8	16	CHILE-ARGENTINA BORDER REGION
	08	18 04 34.4*	36.251	N	71.446	E	97	*	4	6		1.1	28	AFGHANISTAN-USSR BORDER REGION
	08	18 37 03.5*	78.368	N	6.951	E	10	G	4.2			1.3	7	SVALBARD REGION
	08	18 40 37.4?	40.73	N	20.18	E	10	G				1.2	5	GREECE-ALBANIA BORDER REGION. ML 2.2 (TTG)
o	08	19 32 21.1	43.918	N	149.348	E	44	D	5	4	5.2	0.9	144	KURIL ISLANDS REGION
	08	19 51 31.8	40.809	N	22.448	E	10	G				0.7	11	GREECE
	08	22 38 38.3*	39.439	N	54.789	E	45	D	4	5		0.5	7	TURKMEN SSR
	08	23 18 38.2*	35.707	N	140.148	E	33	N				1.2	7	NEAR EAST COAST OF HONSHU, JAPAN
	08	23 40 35.4	49.963	N	89.137	E	33	N	4.8			1.0	32	USSR-MONGOLIA BORDER REGION
	09	00 49 17.4?	32.46	S	71.36	W	10	G				0.8	8	NEAR COAST OF CENTRAL CHILE
	09	01 57 52.6*	34.644	N	23.738	E	33	N	4	1		1.3	8	CRETE
	09	02 33 43.5	39.887	N	24.614	E	10	G				1.2	21	AEGEAN SEA ML 3.4 (ATH).
	09	03 38 46.4&	59.922	N	153.460	W	135						40	SOUTHERN ALASKA <AGS-P>.

	09	04	52	01.5*	32.259	S	71.596	W	33	N			1.5	16	NEAR COAST OF CENTRAL CHILE
	09	05	27	57.3?	32.06	S	69.39	W	170	?			0.6	11	MENDOZA PROVINCE, ARGENTINA
	09	05	35	17.0?	36.45	S	53.25	E	10	G	4.8		1.0	9	SOUTH INDIAN OCEAN
	09	08	59	32.0*	51.967	S	28.242	E	10	G	5.0		1.1	31	SOUTH OF AFRICA
	09	09	15	38.4&	37.175	N	121.603	W	4					15	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).
	09	10	17	25.3%	32.982	S	72.057	W	33	N			0.3	8	OFF COAST OF CENTRAL CHILE
	09	11	26	44.8%	46.643	N	0.214	W	10	G			1.4	6	FRANCE. ML 2.3 (LDG).
	09	11	38	31.0*	53.750	N	37.136	W	10	G	4.4		0 7	13	NORTH ATLANTIC OCEAN
	09	13	12	53.8	18.480	N	96.252	E	33	N	4.8	4.4	1.3	31	BURMA
	09	15	37	38.1%	47.293	N	0.573	E	10	G			0.3	6	FRANCE. ML 2.3 (LDG).
	09	15	54	45.5	27.705	N	140.194	E	340		4.7		0.6	33	BONIN ISLANDS REGION
	09	15	56	26.2*	3.691	S	103.021	W	10	G	4.6	4.3	1.1	31	NORTHERN EASTER I. CORDILLERA
	09	20	02	16.3*	2.319	S	138.775	E	33	N	5.1		1.2	10	WEST IRIAN
a	09	20	33	28.4*	23.074	S	175.385	W	33	N	5.3	5.4	1.3	40	TONGA ISLANDS REGION
	09	21	26	15.1*	14.656	N	119.728	E	64	*	4.7		1.1	19	LUZON, PHILIPPINE ISLANDS
	09	22	13	25.8	43.785	N	147.683	E	50	D	5.0		0.9	77	KURIL ISLANDS
	09	22	29	20.6	19.934	S	70.038	W	97	*	4.9		1.3	48	NEAR COAST OF NORTHERN CHILE
	09	23	01	25.0	29.457	S	71.204	W	52		5.4		1.0	91	NEAR COAST OF CENTRAL CHILE
	10	00	19	36.5*	45.755	N	128.987	W	10	G	3.8		1.1	11	OFF COAST OF OREGON
	10	02	54	23.8	33.088	S	68.484	W	5	G			1.1	16	MENDOZA PROVINCE, ARGENTINA. Felt (II) at Mendoza.
	10	02	56	43.7%	45.622	N	0.827	E	10	G			1.2	6	FRANCE. ML 2.4 (LDG).
	10	02	58	02.0	33.089	S	68.530	W	5	G	3.6		1.4	21	MENDOZA PROVINCE, ARGENTINA
	10	03	00	20.4*	44.109	N	149.182	E	67	D	4.7		0.8	22	KURIL ISLANDS
	10	03	27	07.6	49.877	N	78.816	E	0	G	5.9	4.4	0.8	273	EASTERN KAZAKH SSR. Underground nuclear explosion. (Dept of Energy press release N85-007).
	10	04	47	01.5%	33.417	S	70.957	W	33	N			1 1	8	CHILE-ARGENTINA BORDER REGION
	10	06	16	06.1	25.406	N	125.285	E	46	*	4.8		0.8	26	SOUTHWESTERN RYUKYU ISLANDS
	10	07	28	52.9%	32.922	S	70.733	W	33	N			1 0	8	CHILE-ARGENTINA BORDER REGION
	10	07	38	34.5?	4.77	N	96.21	E	47	?	3.9		1 3	10	NORTHERN SUMATERA
	10	09	19	14.3*	40.770	N	74.767	E	33	N	4.5		1.2	15	KIRGHIZ-XINJIANG BORDER REGION
	10	09	20	00.0&	35.730	N	118 040	W	9					16	CENTRAL CALIFORNIA. <PAS-P>. ML 3.5 (PAS), 3.6 (BRK).
	10	09	46	22.2%	45.643	N	2.917	E	10	G			0 4	7	FRANCE. ML 2 2 (LDG).
	10	09	54	57.6*	0.123	N	96.798	E	37	*	4.6		1 0	19	OFF W COAST OF NORTHERN SUMATERA
	10	11	03	52.3%	40.771	N	23.086	E	10	G			0 3	7	GREECE
	10	11	38	43.0	33.757	S	72.390	W	33	N	4.9		1 2	34	OFF COAST OF CENTRAL CHILE
	10	12	10	32.1&	61.688	N	150.170	W	46					37	SOUTHERN ALASKA <AGS-P>.
	10	13	12	08.2%	46.543	N	2.940	E	10	G			0 9	10	FRANCE ML 2.6 (LDG).
	10	13	53	43.2	63.534	N	149.110	W	83	?			0 6	8	CENTRAL ALASKA
	10	13	59	06.0&	33.880	N	116.280	W	1					10	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS). Felt in the Thousand Palms-Indio area.
	10	14	27	44.2	1.558	S	77.668	W	194		4	6	0.9	26	ECUADOR
	10	14	30	24.3%	15.027	N	61.178	W	10	G			0.3	6	LEEWARD ISLANDS
	10	14	36	22.2*	3.952	N	126.513	E	81	*	4	8	0.9	38	TALAUD ISLANDS
	10	15	32	21.2	38.475	N	25.366	E	18		4	4	1.2	54	AEGEAN SEA. ML 4.2 (ATH).
	10	15	37	03.4?	34.68	S	69.78	W	33	N			1.5	11	CHILE-ARGENTINA BORDER REGION
	10	15	43	06.3	38.537	N	25.403	E	15		3.8		0.9	22	AEGEAN SEA. ML 3.6 (ATH).
	10	16	31	46.6%	46.487	N	2.969	E	10	G			0.2	5	FRANCE
	10	16	35	43.1*	16.269	N	94.516	W	28		5.1		1.1	32	OAXACA, MEXICO
	10	17	45	57.6*	0.973	S	119.842	E	105	*	4.7		0.8	13	MINAHASSA PENINSULA. Felt (III) at Palu.
	10	18	15	06.5	43.287	N	20.859	E	10	G			1.4	10	YUGOSLAVIA ML 2.1 (TTG).
	10	19	16	10.4	38.416	N	21.397	E	15		3.8		1.1	15	GREECE
	10	19	17	54.7&	31.870	N	116.090	W	6	G				9	BAJA CALIFORNIA <PAS-P>. ML 3.5 (PAS).
	10	19	41	02.0	29.430	N	142.047	E	41	D	4	7	1 1	39	SOUTH OF HONSHU, JAPAN
	10	20	29	30.6	45.858	N	119 644	W	5	G			0 6	15	WASHINGTON-OREGON BORDER REGION. ML 3.7 (NEIS). Felt (IV) at Hermiston, Oregon. Also felt at Boardman, Oregon
	10	21	14	26.5&	61.868	N	150.992	W	66					24	SOUTHERN ALASKA <AGS-P>
	10	21	37	46.6	18.733	N	102.899	W	89		5	0	0 9	94	MICHOACAN, MEXICO. Felt at Colima.
	10	21	45	45.5%	33.681	S	71.502	W	31	*			0 3	9	NEAR COAST OF CENTRAL CHILE
	10	21	59	38.5%	44 062	N	6.229	E	10	G			0 3	8	FRANCE ML 2 9 (LDG)
	11	00	02	42.1*	9 025	N	77.567	W	33	N			0 5	5	NEAR NORTH COAST OF COLOMBIA
	11	00	11	47.7?	31.22	S	69.60	W	140	?			0.7	12	SAN JUAN PROVINCE, ARGENTINA
a	11	00	13	53 7	16 644	N	94 968	W	91		5	2	1 2	135	OAXACA, MEXICO. Felt (VI) at Puebla and Tecamachalco, (III) at Acapulco, Chilpancingo and Uruapan. Felt at Mexico City
	11	01	07	45.1%	33 960	S	71 138	W	33	N			0 5	9	NEAR COAST OF CENTRAL CHILE
	11	03	56	44.5*	46 455	N	2.425	W	10	G			0 8	10	BAY OF BISCAY ML 2 6 (LDG).
	11	04	29	56 4	1.114	N	98 931	E	96		4	8	0 9	37	NORTHERN SUMATERA
	11	06	01	57.8	44.228	N	149 103	E	33	N	4	8	1 0	35	KURIL ISLANDS
	11	07	06	00.9	46.360	N	1.618	E	11				0.7	15	FRANCE ML 3 3 (LDG)
	11	07	26	47.2&	36.880	N	121 417	W	7					15	CENTRAL CALIFORNIA <BRK>. ML 2.8 (BRK). Felt at Hollister
	11	07	39	32.5	4.544	N	32 560	W	10	G	5	6 5.1	1.1	144	CENTRAL MID-ATLANTIC RIDGE
	11	08	25	46.6*	6.052	S	104.869	E	83	*	5	1	1 3	17	SUNDA STRAIT
	11	08	27	28.7?	6.84	S	130.69	E	116	*	4	9	1 3	11	BANDA SEA
	11	09	26	45.9*	34.560	N	50.677	E	51	*	4	7	1 4	18	IRAN Felt in the Arak area.
	11	09	50	04.0?	31.49	S	69.89	W	136	?			0 7	10	SAN JUAN PROVINCE, ARGENTINA
	11	11	15	34.3?	38.13	N	20.78	E	10	G			0 8	6	GREECE
	11	11	17	46.5	37.672	N	19 980	E	10	G	4	6	1.1	29	IONIAN SEA
	11	11	33	42.2?	32 24	S	69.70	W	148	?			0 3	10	MENDOZA PROVINCE, ARGENTINA
	11	12	43	24.8	37.408	N	72.150	E	188		4	7	0 6	27	TAJIK SSR Felt (III) at Garm and (II) at Dzhirgatal.
	11	12	50	19.3?	37.43	N	20 11	E	10	G			1 1	6	IONIAN SEA
	11	13	16	00.0*	51.286	N	172 943	W	33	N	4.4		1 3	11	ANDREANOF ISLANDS, ALEUTIAN IS.
	11	13	31	50.0*	44.369	N	114.493	W	5	G			0 9	6	WESTERN IDAHO ML 3.0 (NEIS).
	11	13	58	05.9&	32.950	N	116.430	W	6	G				4	CALIFORNIA-MEXICO BORDER REGION <PAS-P>. ML 3.2 (PAS)
	11	15	16	58 4	72.837	N	3.185	E	10	G	4	9	1 5	18	NORWEGIAN SEA
	11	15	24	11.3?	33.08	S	70 25	W	131	?			0 8	13	CHILE-ARGENTINA BORDER REGION
	11	16	07	03.8	44 457	N	114.233	W	10	G			0 7	19	WESTERN IDAHO ML 3.8 (NEIS) Felt in the Challis area.
	11	16	14	51.7%	34.208	S	72 090	W	10	G			0 4	9	NEAR COAST OF CENTRAL CHILE
	11	17	31	59.1	43.996	N	149 135	E	42	D	5	1	1.1	58	KURIL ISLANDS REGION
	11	17	54	13.1	39 079	N	115 635	W	5	G			0.6	13	NEVADA ML 3 5 (NEIS)
	11	18	59	52.6	58.244	N	154 667	W	90		4.7		1.0	56	ALASKA PENINSULA
	11	20	36	30.9	53.926	N	170.130	W	232		4.7		1 0	83	FOX ISLANDS, ALEUTIAN ISLANDS

	11	21 09 21.2*	16.746	N	100 217	W	30 *	4 6		1.2	19	NEAR COAST OF GUERRERO, MEXICO. Felt (IV) at Tecamachalco, Puebla.
	11	22 38 53.6*	16 458	N	95.914	E	33 N	4.0		1.3	9	SOUTH BURMA
	12	00 21 55.2?	37.52	N	19.97	E	10 G	3.8		0.7	7	IONIAN SEA
	12	00 25 05.3	32.956	N	96.544	E	33 N	4 8		0 7	17	QINGHAI PROVINCE, CHINA
	12	00 47 52.3&	62.202	N	151 086	W	74				29	CENTRAL ALASKA. <AGS-P>.
	12	04 14 47.7*	44.856	N	113.410	W	5 G			0.9	6	EASTERN IDAHO. ML 3.2 (BUT).
	12	04 20 01.2%	33.272	S	70 935	W	33 N			0 7	7	CHILE-ARGENTINA BORDER REGION
	12	04 25 57.1?	6.67	S	130.76	E	33 N			0.6	5	BANDA SEA
	12	04 59 32.3	45.323	N	11.018	E	10 G			1 0	20	NORTHERN ITALY ML 3.0 (TRI).
	12	06 00 50.6?	49.92	S	119.80	E	10 G	4.7		1.4	13	SOUTH OF AUSTRALIA
	12	09 25 45 7?	3.79	S	149 65	E	125 ?	4.3		1.1	7	BISMARCK SEA
	12	09 38 22.8*	16 824	N	100.011	W	40 *	4.3		1.4	34	NEAR COAST OF GUERRERO, MEXICO. Felt (V) at Acapulco, Guerrero and Tecamachalco, Puebla.
	12	11 02 20.4	46.552	N	3.113	E	10 G			0.8	11	FRANCE. ML 2.6 (LDG).
	12	14 04 58.2*	60 306	N	5.272	E	10 G			0.3	5	SOUTHERN NORWAY
	12	14 10 56.3%	31.489	S	67.796	W	33 N			0.3	5	SAN JUAN PROVINCE, ARGENTINA
	12	15 13 18.8%	33.439	S	70.970	W	10 G			0.4	7	CHILE-ARGENTINA BORDER REGION
	12	15 50 37.5&	62.560	N	149.135	W	61				31	CENTRAL ALASKA <AGS-P>.
	12	18 01 32.9*	41.936	N	20 437	E	10 G			1.2	7	ALBANIA. ML 2.4 (TTG)
	12	19 05 28.2	16.205	S	69.787	W	235 *			0.8	8	PERU-BOLIVIA BORDER REGION
	12	19 25 19.1%	33 447	S	70 956	W	10 G			0 4	7	CHILE-ARGENTINA BORDER REGION
	12	19 55 33.3%	33 639	S	71.596	W	10 G			0.2	7	NEAR COAST OF CENTRAL CHILE
	12	20 44 40.7	17 900	N	98 157	W	33 N			0.7	12	GUERRERO, MEXICO
	12	22 09 38.3&	60.189	N	152.460	W	94				32	SOUTHERN ALASKA <AGS-P>.
	12	22 09 45.3%	33 434	S	70.797	W	33 N			1.5	8	CHILE-ARGENTINA BORDER REGION
	12	22 46 22.7%	17.294	N	95 106	W	190 ?			0.3	8	OAXACA, MEXICO
	12	22 54 19.9%	32.377	S	71.506	W	10 G			0 4	8	NEAR COAST OF CENTRAL CHILE
	13	00 02 41.0*	41.913	N	20.304	E	10 G			1.5	5	ALBANIA. ML 2.7 (PVY).
	13	00 11 21 6*	4.234	S	144.608	E	38 *	4.8		0 6	8	NEAR N COAST OF PAPUA NEW GUINEA
	13	00 28 44 5*	59.493	S	19.801	W	10 G	4.8		1 1	21	SOUTHWESTERN ATLANTIC OCEAN
	13	00 39 53.4*	24 189	S	67 125	W	211 *			0 5	6	CHILE-ARGENTINA BORDER REGION
	13	01 05 07.5?	31.50	S	178 85	W	33 N	4 7		1 1	6	KERMADEC ISLANDS REGION
	13	01 26 45.9%	40.649	N	27.554	E	10 G			1.2	5	TURKEY
	13	02 17 25.5?	34.09	S	71 47	W	33 N			0 4	6	NEAR COAST OF CENTRAL CHILE
	13	02 54 33.1	10.738	N	62.344	W	97 *	4 0		1 3	31	NEAR COAST OF VENEZUELA. Felt (III) on Trinidad.
	13	04 04 03.2?	15 88	N	60.28	W	33 N			0 7	5	LEEWARD ISLANDS
	13	05 32 22 7%	33 125	S	69.999	W	10 G			0.3	6	CHILE-ARGENTINA BORDER REGION
	13	06 21 21.3?	45.52	N	26.55	E	104 ?			0 2	5	ROMANIA
	13	06 59 11.0*	33.139	S	66.097	W	33 N			1 3	5	SAN LUIS PROVINCE, ARGENTINA
	13	07 46 30.3*	6.697	S	155.735	E	74 *	4 7		1 0	7	SOLOMON ISLANDS Felt (III) at Arawo.
	13	07 58 49.8?	5.55	S	147.33	E	161 *	4 9		0 8	14	EAST PAPUA NEW GUINEA REGION
	13	08 01 21.0	33 405	S	150.140	E	5 G			1.2	11	NEAR S.E COAST OF AUSTRALIA. ML 4.0 (RIV). Damage in the Lithgow area. Felt in the Dubbo area to the northwest and southeast into the eastern suburbs of Sydney.
	13	08 32 30 7*	50 599	N	1.777	E	10 G			1 0	20	FRANCE. ML 3.5 (LDG).
	13	10 16 36 9?	34.27	S	70.19	W	5 G			0.7	6	CHILE-ARGENTINA BORDER REGION
	13	10 22 24 1&	38.416	N	87.512	W	16				6	SOUTHERN INDIANA. <SLM-P>. mbLg 3.0 (SLM).
o	13	11 10 36.2	12.974	S	168.819	E	635	4.9		0.8	101	SANTA CRUZ ISLANDS REGION
	13	11 36 52 2?	39.56	N	6.81	E	10 G			0.4	9	WESTERN MEDITERRANEAN SEA. ML 3 8 (LDG).
	13	12 55 33.7	33 111	S	68.533	W	5 G			1.1	14	MENDOZA PROVINCE, ARGENTINA
	13	13 45 05 9?	60.31	N	5.44	E	10 G			0.3	4	SOUTHERN NORWAY
	13	13 51 49 8*	33.490	S	70.990	W	70 ?			1.1	12	CHILE-ARGENTINA BORDER REGION
	13	14 26 26.2?	32.69	S	70 77	W	33 N			1 3	6	CHILE-ARGENTINA BORDER REGION
	13	15 59 54 3&	61.856	N	150.329	W	9				41	SOUTHERN ALASKA <AGS-P>. ML 3.9 (PMR). Felt (IV) at Koshwitno and Willow, (III) at Wasilla and (II) at Anchorage and Palmer.
o	13	17 58 27 3	51 186	N	179.753	W	44	5.4 5.1		0.9	169	ANDREANOF ISLANDS, ALEUTIAN IS. Felt (III) on Adak
	13	18 00 12 3%	33 592	S	70.729	W	33 N			1.4	6	CHILE-ARGENTINA BORDER REGION
	13	18 09 11 7&	60.399	N	153 174	W	135				40	SOUTHERN ALASKA <AGS-P>
	13	19 59 46 1*	7.419	S	127.769	E	131 *	4.9		1.3	28	BANDA SEA
	13	20 19 51 7?	32.14	S	71.62	W	33 N			0.9	7	NEAR COAST OF CENTRAL CHILE
	13	20 29 32.7?	24.63	S	178.94	E	597 ?	4.5		0.4	11	SOUTH OF FIJI ISLANDS
	13	20 58 26.8*	1.326	N	128 105	E	33 N	4 5		0.7	8	HALMAHERA
	13	21 40 49.8%	33.595	S	70 873	W	69 ?			0.2	8	CHILE-ARGENTINA BORDER REGION
	13	21 50 16.2&	59 640	N	152 656	W	85				48	SOUTHERN ALASKA <AGS-P>. Felt (II) at Homer.
	13	23 30 37.9*	6.047	S	130 698	E	75 *	4 7		1 5	17	BANDA SEA
	14	00 47 45.2	6.789	N	72.973	W	165	5.0		1 0	94	NORTHERN COLOMBIA. Felt at Bogota, Cucuta and Bucaramanga
	14	01 17 22.1	27 619	S	69 492	W	166 ?			1.0	19	NORTHERN CHILE
	14	01 51 37.2*	16.111	S	166.997	E	74 *	4 6		1 4	33	VANUATU ISLANDS
	14	02 21 00 0*	27.852	S	71.207	W	204 ?			0 6	9	NEAR COAST OF NORTHERN CHILE
	14	02 57 33 8?	31 33	S	70 63	W	139 ?			0 5	10	CHILE-ARGENTINA BORDER REGION
	14	03 05 50.7?	32.31	S	71 99	W	33 N			0 6	7	NEAR COAST OF CENTRAL CHILE
	14	03 09 41.4*	29.560	S	178 492	W	187 *	4 8		1.3	24	KERMADEC ISLANDS
	14	03 24 14.7*	4 917	S	75.902	W	68 ?	4 5		1 2	7	NORTHERN PERU
	14	04 23 58.1%	33 278	S	70.667	W	71 ?			0 9	6	CHILE-ARGENTINA BORDER REGION
o	14	05 04 02 2	66 196	N	150 148	W	10 G	5 0 5 0		1 0	89	ALASKA ML 5 4 (PMR). Ms 5 0 (BRK). Felt (IV) at Fairbanks and (III) at Minto, Stevens Village and Wiseman
	14	06 59 19 9*	36 691	N	21.629	E	60 ?	4 3		1 3	10	SOUTHERN GREECE
	14	07 49 03 2%	32 964	S	71 087	W	33 N			1.0	7	NEAR COAST OF CENTRAL CHILE
o	14	08 30 56.6	24 068	S	67 881	W	139 D	5 6		1.1	201	CHILE-ARGENTINA BORDER REGION. mb 5.6 (BRK). Felt (IV) at Antofogasta, Chile
	14	09 11 05.5	58 922	S	25 422	W	33 N	5.2 4 5		0 6	32	SOUTH SANDWICH ISLANDS REGION
	14	09 13 21.9?	16 29	N	92 20	W	33 N	3 8		1 5	6	CHIAPAS, MEXICO
	14	09 28 53 5	6 762	N	73 025	W	164	5 3		0 9	126	NORTHERN COLOMBIA Felt at Bogota and Bucaramanga
	14	09 44 56.4?	30 60	S	70 63	W	181 ?			0 4	7	CHILE-ARGENTINA BORDER REGION
	14	13 09 28.4&	61 840	N	150.412	W	55				37	SOUTHERN ALASKA <AGS-P>. Felt (II) at Anchorage, Big Lake and Willow
	14	13 45 03 7?	32.31	S	71.65	W	33 N			1 0	7	NEAR COAST OF CENTRAL CHILE
	14	14 52 28.6?	32.40	S	71.75	W	33 N			0.4	8	NEAR COAST OF CENTRAL CHILE

	14	16 48 39.6?	22.78	S	179.95	E	565 ?	4 8		0.9	14	SOUTH OF FIJI ISLANDS
	14	17 02 04.7*	66.169	N	149.952	W	10 G			0 9	12	ALASKA ML 3 8 (PMR).
	14	17 07 12.0*	66.160	N	150.007	W	10 G			1.2	13	ALASKA ML 4.1 (PMR).
	14	17 40 50.8*	66.192	N	150.082	W	10 G			1.3	9	ALASKA. ML 4.4 (PMR).
	14	18 35 32.2?	35.07	S	70.32	W	178 ?			0.2	8	CHILE-ARGENTINA BORDER REGION
	14	19 22 28.6?	66.30	N	149.86	W	10 G			1.6	5	ALASKA. ML 3.4 (PMR).
	14	20 13 41.7?	42.35	N	7.74	E	10 G			0.4	7	WESTERN MEDITERRANEAN SEA. ML 3.3 (LDG).
	14	21 53 59.9?	66.18	N	150.11	W	10 G			2 0	5	ALASKA. ML 3.4 (PMR).
	14	21 59 04.6*	36.551	N	141.367	E	80 *	4.6		1.2	15	NEAR EAST COAST OF HONSHU, JAPAN
	14	22 02 44.7	63.526	N	145.364	W	5 G			0 6	12	CENTRAL ALASKA ML 3.4 (PMR). Felt (II) at Pump Station Ten, Alyeska Pipeline
	14	23 07 01.7*	66.142	N	150.026	W	10 G	4.1		1.2	6	ALASKA. ML 4.3 (PMR).
	14	23 10 33.4?	66.34	N	149.90	W	10 G			1.2	4	ALASKA. ML 3.9 (PMR).
	14	23 22 22.3&	33.700	N	118.150	W	3				11	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
	14	23 32 58.2*	6.682	S	154.839	E	51 *	5.0		1.0	22	SOLOMON ISLANDS. Felt (III) at Panguna.
	15	00 01 27.5*	29.869	S	71.495	W	177 ?			0.8	17	NEAR COAST OF CENTRAL CHILE. Felt (II) at La Serena.
	15	00 32 36.7*	13.242	N	91.488	W	33 N	5.0		1.0	27	NEAR COAST OF GUATEMALA
	15	01 45 36.2?	66.19	N	150.03	W	10 G			1.6	5	ALASKA. ML 3.8 (PMR).
	15	02 04 57.3*	32.605	S	67.866	W	5 G			1.4	9	MENDOZA PROVINCE, ARGENTINA
	15	02 08 37.5&	62.144	N	151.448	W	88				21	CENTRAL ALASKA. <AGS-P>.
	15	03 06 41.5&	60.175	N	152.738	W	101				26	SOUTHERN ALASKA. <AGS-P>.
	15	03 34 55.2?	5.22	N	127.38	E	33 N	4.6		1.4	6	PHILIPPINE ISLANDS REGION
	15	03 48 05.7%	33 470	S	70.902	W	33 N			1.0	5	CHILE-ARGENTINA BORDER REGION
	15	04 14 18.2*	32.526	N	121.538	E	33 N			1.6	8	EASTERN CHINA
	15	04 16 15.9*	66.142	N	150.028	W	10 G			0.5	5	ALASKA. ML 3.6 (PMR).
	15	04 32 15.9*	31.533	S	69.121	W	120 *			0.8	8	SAN JUAN PROVINCE, ARGENTINA
	15	04 54 44 0	30.129	N	81.609	E	33 N	4.4		1.2	18	TIBET
	15	06 38 17.2*	63.962	N	148.572	W	33 N			0.3	6	CENTRAL ALASKA. ML 2.4 (PMR).
	15	07 02 50 0	35.506	N	138.936	E	10 G			1.0	12	HONSHU, JAPAN. Felt (I JMA) at Mishima.
	15	07 22 09.2	22.083	S	179.404	E	635	4.9		1.0	72	SOUTH OF FIJI ISLANDS
	15	07 50 22.8*	6.474	N	72.990	W	171 *	4.4		0.7	12	NORTHERN COLOMBIA
	15	08 58 53.9*	31.295	S	68.571	W	112 *			1.1	13	SAN JUAN PROVINCE, ARGENTINA
	15	08 59 03.1*	5.236	N	126.174	E	70 *	4.9		1.0	21	MINDANAO, PHILIPPINE ISLANDS
a	15	09 20 58.0	23.662	S	175.229	W	33 N	5.2	5.3	1.1	56	TONGA ISLANDS REGION
	15	10 09 48.9&	61.524	N	151.462	W	75				28	SOUTHERN ALASKA. <AGS-P>.
	15	10 30 24.1*	23.084	S	175.847	W	256 ?	4 3		0.6	13	TONGA ISLANDS REGION
	15	10 41 11.3?	42.84	N	24.44	E	10 G			0.8	4	BULGARIA
	15	11 00 05.5	42 588	N	23.588	E	10 G			1.1	7	BULGARIA
	15	12 47 57.0*	66.189	N	150.100	W	10 G			1.1	6	ALASKA. ML 4.1 (PMR).
	15	13 42 44.7&	61.913	N	147.306	W	31				38	SOUTHERN ALASKA. <AGS-P>. ML 2.5 (PMR).
	15	14 16 32.5*	37.139	N	21.748	E	63 *	3.9		0.9	9	SOUTHERN GREECE
	15	14 41 24.7*	26.029	N	128.630	E	33 N	5.0		1.1	10	RYUKYU ISLANDS
	15	15 56 09.9&	37.228	N	89.336	W	6				6	CAPE GIRARDEAU, MISSOURI REGION. <SLM>. mbLg 3.3 (SLM). Felt (IV) at Old Appleton, Missouri. Also felt (IV) at Chester and Tamms, Illinois Felt (III) at Cairo and Colp, Illinois. Also felt at Belknap, Illinois and Mayfield, Kentucky.
	15	16 26 43.2&	34.150	N	117.480	W	3				7	SOUTHERN CALIFORNIA <PAS-P>. ML 3 0 (PAS). Felt at Fontana.
	15	17 21 23.3	34.306	N	82.422	E	33 N	5.0	4.2	1.3	69	TIBET
	15	18 20 08.1&	38.785	N	122.795	W	3				10	NORTHERN CALIFORNIA. <BRK>. ML 3 4 (BRK).
	15	21 45 32.5*	28.856	S	68.549	W	116 ?			1.5	11	LA RIOJA PROVINCE, ARGENTINA
	15	22 53 26.2*	25.132	N	123.454	E	191 *	4.5		0.7	19	NORTHEAST OF TAIWAN
	15	23 26 26.5&	33.980	N	116.400	W	2				25	SOUTHERN CALIFORNIA <PAS-P>. ML 4.0 (PAS). Felt (V) at Desert Hot Springs, (IV) at Angelus Oaks and Thousand Oaks Also felt at Palm Springs, Palm Desert and Indio.
	16	00 03 27.4?	36.58	N	25.76	E	10 G			1.8	6	DODECANESE ISLANDS
	16	00 33 56.1*	33.108	S	68 588	W	5 G			1.0	7	MENDOZA PROVINCE, ARGENTINA
	16	00 42 39.8&	33.990	N	116 400	W	1				5	SOUTHERN CALIFORNIA <PAS-P>. ML 3.4 (PAS).
	16	02 26 19.8?	16.83	N	100.38	W	10 G			1.5	5	NEAR COAST OF GUERRERO, MEXICO
	16	02 54 50.2*	33 763	S	70.206	W	33 N			0.5	5	CHILE-ARGENTINA BORDER REGION
	16	02 56 33.1*	23.819	S	66.809	W	203 *	4.1		1.3	9	JUJUY PROVINCE, ARGENTINA
	16	03 21 17.2*	3 573	N	124.514	E	311 *	4.6		0.7	13	CELEBES SEA
	16	05 50 56.9*	39.790	N	21 731	E	10 G	4.0		0.9	18	GREECE. ML 3.6 (ATH).
	16	06 33 40 8	42.051	N	23.636	E	10 G	4.5		1.2	54	BULGARIA ML 4.3 (ATH). Felt (IV) in western Bulgaria.
	16	06 35 34.7?	11.89	N	87 44	W	33 N	4.6		0.6	9	NEAR COAST OF NICARAGUA
	16	06 57 35.4*	36.608	N	51.911	E	33 N	4.3		1.4	13	IRAN Felt in the Chalus area.
	16	07 16 43.8*	2.569	N	128.906	E	33 N	4.5		1.1	12	HALMAHERA
	16	07 44 31.4*	0.521	N	96.625	E	33 N	4.2		0.9	8	OFF W COAST OF NORTHERN SUMATERA
	16	08 43 56 0*	8.536	S	115.752	E	33 N	5.2		1.5	13	BALI ISLAND REGION. Felt.
	16	09 21 03 2*	60.523	N	5.115	E	10 G			0.3	5	SOUTHERN NORWAY
	16	09 32 55.7	51.201	N	179.609	W	55	5 0		0.9	113	ANDREANOF ISLANDS, ALEUTIAN IS.
	16	09 34 14.1	44.594	N	17.287	E	5 G			1.3	30	YUGOSLAVIA. ML 3.7 (KBA), 3.4 (VKA). Felt (V) in the epicentral area.
	16	09 49 52.7*	18.834	S	169.424	E	266 *	4 6		1.2	12	VANUATU ISLANDS
	16	11 16 29.1*	30.618	N	85.586	E	33 N	4.3		1 1	10	TIBET
o	16	13 48 46.4	23.261	S	175.014	W	42 D	5.2	5.3	1.2	63	TONGA ISLANDS REGION
	16	14 01 50.2?	18.44	S	178.04	E	338 *	4.3		0 9	11	FIJI ISLANDS
	16	14 26 34.7*	23 560	S	175.283	W	33 N	4 9		1.1	16	TONGA ISLANDS REGION
	16	14 44 01.1*	15.352	N	121.470	E	33 N	5 0		1.5	29	LUZON, PHILIPPINE ISLANDS
	16	15 25 50.4*	10.142	S	117.381	E	33 N	4.6		1 3	12	SOUTH OF SUMBAWA ISLAND
	16	15 35 21.2*	3.635	S	139.842	E	33 N	4.2		0.9	7	WEST IRIAN
a	16	16 28 12.0	39.976	N	142.761	E	42 D	5.2	4.5	1.0	135	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Morioka and Miyako and (I JMA) at Aomori and Hachinohe.
	16	16 28 26.3%	40.701	N	29.126	E	5 G			0 7	7	TURKEY
	16	17 12 01.9?	0.06	S	96.45	E	33 N			1 1	5	SOUTHWEST OF SUMATERA
	16	17 13 49.3?	12.34	N	89.19	W	33 N	4.4		0.9	10	OFF COAST OF CENTRAL AMERICA
	16	18 19 53 6?	16.81	N	61.39	W	33 N			1.0	5	LEEWARD ISLANDS
	16	19 16 42.8*	23.041	S	175.211	W	43 *	4.9	5.0	1.0	33	TONGA ISLANDS REGION
	16	21 18 10.0&	61.546	N	151.645	W	79				22	SOUTHERN ALASKA <AGS-P>.
	16	21 33 29.1	39.842	N	41.816	E	10 G	4.9	3.7	1.4	78	TURKEY
	16	22 27 38.5?	4.81	N	125.17	E	203 ?	5.0		1.4	20	TALAUD ISLANDS
	17	00 01 33.9	18.023	N	100.456	W	66 *	4 6		1.1	32	GUERRERO, MEXICO Felt at Ciudad Altamirano.

	17	00	14	56.1	2.072	S	140.213	E	33	N	5 1 4.8	1.4	44	NEAR N. COAST OF WEST IRIAN
	17	00	24	24.1	25.544	N	95.250	E	91	D	4 8	0 9	124	BURMA-INDIA BORDER REGION Felt
	17	02	14	33.4	21.221	S	170 214	E	33	N	5 2 4.7	1.2	22	LOYALTY ISLANDS REGION
	17	02	39	39.8	37.019	N	70.415	E	33	N	4.6	0.6	9	AFGHANISTAN-USSR BORDER REGION
a	17	02	52	24.1	3.509	S	148.943	E	33	N	5 1 5.0	1.2	43	BISMARCK SEA
	17	03	00	00.2*	23.190	S	175.108	W	42	D	5 0 5.5	1.2	53	TONGA ISLANDS REGION
	17	03	36	30.3	5.087	N	124.505	E	33	N	5.3	1.1	64	MINDANAO, PHILIPPINE ISLANDS
	17	04	00	33.9*	18.205	N	100.671	W	33	N		0.5	8	GUERRERO, MEXICO
	17	06	12	16.2&	58.678	N	154.449	W	25				27	ALASKA PENINSULA <AGS-P>.
	17	06	20	58.4	43.583	N	21.570	E	5	G		0.7	7	YUGOSLAVIA
	17	10	33	23.9&	40.720	N	121.545	W	9				13	NORTHERN CALIFORNIA. <BRK>. ML 3.4 (BRK). Mo=4.5*10**21 (BRK).
	17	10	45	26.8	36.619	N	27.637	E	126		4 6	1.0	101	DODECANESE ISLANDS
	17	11	10	11.8*	3.607	S	148.997	E	33	N	4.7	1.0	10	BISMARCK SEA
	17	12	53	34.5*	23.379	S	175.173	W	39	D	4.8 4.9	1.3	28	TONGA ISLANDS REGION
	17	14	36	31.2*	18.777	S	71.453	W	33	N		1.1	7	OFF COAST OF NORTHERN CHILE
	17	14	53	41.4&	61.624	N	149.775	W	39				45	SOUTHERN ALASKA. <AGS-P>. ML 3.8 (PMR). Felt at Anchorage and Palmer.
	17	15	20	33.2*	8.183	S	117.774	E	33	N		1.0	5	SUMBAWA ISLAND REGION
	17	15	53	26.1?	66.23	N	150 03	W	10	G		1.2	6	ALASKA. ML 3.1 (PMR).
	17	16	07	58.4%	40.103	N	29.326	E	10	G		0.5	7	TURKEY
	17	16	13	29.0	38.070	N	106.294	E	33	N	4.2	1.2	11	NORTHERN CHINA
	17	18	33	48.7*	39.499	N	28.641	E	10	G		0.7	8	TURKEY
	17	18	58	16.9	13.638	N	120.827	E	144		4.5	0.7	15	MINDORO, PHILIPPINE ISLANDS
	17	19	40	48.0	19.249	S	168.416	E	33	N	5.0	1.2	74	VANUATU ISLANDS
a	17	21	36	52.1	4.762	S	134.038	E	33	N	5.2 5.5	1.2	66	WEST IRIAN REGION
	17	21	47	06.7?	66.28	N	149.89	W	10	G		2.3	5	ALASKA. ML 3.7 (PMR).
	17	22	40	38.9*	8.610	S	77.814	W	140	?		1.3	15	PERU
	17	22	40	42.8	39.059	N	139.199	E	207		4.4	1.0	40	NEAR WEST COAST OF HONSHU, JAPAN
	17	22	52	47.6*	39.482	N	24.047	E	17	*		0.2	7	AEGEAN SEA
	17	23	06	57.2	24.617	N	85.558	E	33	N	4.8	1.4	29	NORTHERN INDIA
	17	23	18	10.3	44.524	N	148.318	E	33	N	4.8 4.5	0.9	60	KURIL ISLANDS
	18	01	03	59.8*	6.187	S	154.360	E	33	N	4.8	1.3	10	SOLOMON ISLANDS
	18	01	32	34.2	35 712	N	70.862	E	110	*	4.4	1.4	21	HINDU KUSH REGION
	18	01	36	53.7*	29.828	S	177.812	W	80	G		1.3	15	KERMADEC ISLANDS
	18	02	54	28.8	40.514	N	23.537	E	10	G		1.1	12	GREECE
	18	02	59	50 6	40 491	N	23.470	E	10	G		1.0	10	GREECE
	18	03	56	23 7	8.301	S	119.799	E	187	*	5.1	1.2	53	FLORES ISLAND REGION
	18	04	21	22.6*	7.347	S	128.537	E	33	N	4.9	1 5	27	BANDA SEA
	18	05	18	18.7*	34.134	S	70 171	W	33	N		1.1	6	CHILE-ARGENTINA BORDER REGION
	18	05	28	25.3*	14.927	S	166 840	E	33	N		1 1	5	VANUATU ISLANDS
	18	07	24	27.7&	60.006	N	152.141	W	79				30	SOUTHERN ALASKA <AGS-P>
	18	08	12	21.1?	5.64	S	147 18	E	33	N	3 4	1.1	5	EAST PAPUA NEW GUINEA REGION
	18	08	13	23.5*	31.314	S	68.522	W	109	*		1.0	9	SAN JUAN PROVINCE, ARGENTINA
	18	09	48	32.5*	6.527	S	146 900	E	63	*	3 4	0.7	7	EAST PAPUA NEW GUINEA REGION
	18	11	51	30.3*	3.415	N	128.739	E	33	N	4 6	0.7	10	NORTH OF HALMAHERA
	18	12	19	15.5&	37 757	N	122 155	W	2				11	CENTRAL CALIFORNIA <BRK>. ML 2.0 (BRK). Mo=9.4*10**19 (BRK). Felt at Oakland.
	18	13	53	43.3&	33.020	N	116.350	W	6				8	SOUTHERN CALIFORNIA <PAS-P>. ML 3.2 (PAS).
	18	15	18	57.3*	31 448	S	66 470	W	157	*		0.5	13	LA RIOJA PROVINCE, ARGENTINA
	18	15	22	28.0*	38.681	N	20.439	E	10	G	3.9	1.4	19	GREECE
	18	17	18	50 4*	37.005	N	28 122	E	10	G		1.3	12	TURKEY
	18	17	21	51.3&	62 087	N	151 866	W	99				29	CENTRAL ALASKA <AGS-P>.
	18	17	44	30.4	16 372	N	94 560	W	124		4.5	0 8	48	OAXACA, MEXICO
	18	18	12	33 7	12.694	N	142.570	E	146		5.0	0.9	60	SOUTH OF MARIANA ISLANDS
	18	19	14	04.5	39 964	N	20.303	E	10		3.6	1.5	18	GREECE-ALBANIA BORDER REGION. ML 3 4 (SKO), 3.5 (TTG)
a	18	19	41	03.4	23 402	N	123.187	E	33	N	5.7 5.6	1.1	224	SOUTHWESTERN RYUKYU ISLANDS Felt (I JMA) on Ishigaki-shima. Also felt on Taiwan
	18	20	48	08.0*	38 717	N	20 366	E	10	G	3.8	1.4	15	GREECE. ML 3.1 (TTG)
	18	21	20	13.6*	38 482	N	20.038	E	10	G		1.7	8	GREECE
	18	22	04	37 3*	38.552	N	20 541	E	10	G		0.9	6	GREECE
	19	00	01	54.4?	66 24	N	150 18	W	10	G		1.9	5	ALASKA. ML 3 5 (PMR).
	19	00	36	44.2	21.134	N	121 156	E	33	N	4.5	0 9	28	TAIWAN REGION
	19	02	32	15 0*	34.529	S	106.931	W	10	G	4.5	1.2	18	EASTER ISLAND CORDILLERA
	19	03	24	35.4	31.584	S	68.404	W	103	*		0.4	10	SAN JUAN PROVINCE, ARGENTINA
	19	04	17	20 1?	66.47	N	149.82	W	10	G		1.0	5	ALASKA. ML 3.3 (PMR).
	19	05	09	35.2&	34 160	N	116 980	W	10				9	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS). Felt at Lake Arrawhead
	19	07	23	09 0*	66.362	N	149 829	W	10	G		1.1	5	ALASKA ML 3 6 (PMR)
	19	08	14	43 7	35 064	S	107 506	W	10	G	4 8	1.0	28	EASTER ISLAND CORDILLERA
	19	08	37	42.2	53.328	N	164.701	W	33	N	4.5	1 0	33	UNIMAK ISLAND REGION. ML 4.5 (PMR)
a	19	08	39	14.8	22.937	S	176 687	W	146	*	5 3	1.1	115	SOUTH OF FIJI ISLANDS
	19	10	30	19.5*	29.150	S	67 695	W	161	?		0.6	10	LA RIOJA PROVINCE, ARGENTINA
	19	11	40	13 4	2 287	N	126 574	E	75	*	4 8	1 1	24	MOLUCCA PASSAGE
	19	13	22	30 7&	62 246	N	150.846	W	70				28	CENTRAL ALASKA <AGS-P>.
	19	13	38	27.0&	36.087	N	120.017	W	5				14	CENTRAL CALIFORNIA. <BRK>. ML 3.1 (BRK), 3.6 (PAS)
a	19	13	53	19 7*	61.084	S	23.692	W	33	N	5 2	0 9	20	SOUTH SANDWICH ISLANDS REGION
	19	15	49	09.0*	15 924	S	174.046	W	33	N	4 3	0 4	7	TONGA ISLANDS
	19	15	58	16 3*	38 320	N	21 891	E	10	G	3 7	1 2	7	GREECE ML 3.2 (ATH)
	19	16	19	46 4	43 153	N	17.776	E	10			1.2	16	YUGOSLAVIA. ML 3.9 (TRI), 3.3 (TTG). Felt (V) at Mostar
	19	16	24	12.9	43.160	N	18.957	E	10	G		0 9	9	YUGOSLAVIA ML 3 1 (TTG).
	19	16	27	39.9*	38.296	N	21.583	E	10	G	3 7	0 7	5	GREECE ML 3 1 (ATH)
	19	17	51	00.5&	62.200	N	150.374	W	50				25	CENTRAL ALASKA <AGS-P>
	19	18	17	04.5*	7.047	S	130.033	E	182	?	4 9	1 3	7	TANIMBAR ISLANDS REGION
	19	18	46	16 4	38.819	N	24.843	E	18			0.6	16	AEGEAN SEA ML 3 7 (ATH).
	19	19	12	46 2	38.392	N	22.234	E	10	G		1 2	10	GREECE ML 3.5 (ATH)
	19	19	25	49.2*	44 469	N	113 378	W	5	G		1 3	7	EASTERN IDAHO. ML 3 0 (BUT)
	19	20	17	16.0?	5.78	S	129.27	E	256	?	4 1	1 4	6	BANDA SEA
	19	20	44	05.4*	23 926	N	120.269	E	33	N		1 2	5	TAIWAN
	19	21	50	26.7*	24.198	S	66.932	W	209	?		1 6	5	SALTA PROVINCE, ARGENTINA
	19	22	55	41.5*	8.522	N	82.673	W	33	N	4 5	1.0	26	PANAMA-COSTA RICA BORDER REGION
a	19	23	03	43.8	25.779	S	178 191	E	624		5.0	0.9	98	SOUTH OF FIJI ISLANDS

	20	01 51 40 4?	63 83	N	146 60	W	33	N			1.5	6	CENTRAL ALASKA. ML 2.8 (PMR)
	20	02 00 36 1	24 181	S	66.808	W	190		4	7	1.1	64	SALTA PROVINCE, ARGENTINA
	20	02 53 17 1?	19 11	S	176 56	W	521	?	4	1	0.7	7	FIJI ISLANDS REGION
	20	03 15 58.3*	79 643	N	3.640	W	10	G	4.2		1.3	6	GREENLAND SEA
	20	04 03 50.3	36.080	N	139 539	E	78		4.2		0.8	16	HONSHU, JAPAN. Felt (I JMA) at Utsunomiyo.
	20	04 23 31.3*	30.979	S	71 730	W	33	N			1.0	11	NEAR COAST OF CENTRAL CHILE
	20	04 28 09.4	41.447	N	20.431	E	10	G			1.0	10	ALBANIA. ML 3.0 (PVY), 2.9 (ULC). Felt (III) in the Debar area, Yugoslavia.
	20	04 35 01.0	41.470	N	20.395	E	10	G			0.9	13	ALBANIA ML 3.4 (TTG). Felt (IV) in the Debar area, Yugoslavia.
	20	04 52 51.7	29.115	N	104.692	E	39	*	4.4		1.5	25	SICHUAN PROVINCE, CHINA
	20	05 08 00.8?	16.77	N	61.14	W	33	N			0.2	5	LEEWARD ISLANDS
	20	05 46 21.0%	31.802	S	67.962	W	10	G			0.5	5	SAN JUAN PROVINCE, ARGENTINA
	20	06 34 12.0?	29.82	S	71.46	W	33	N			1.3	5	NEAR COAST OF CENTRAL CHILE
	20	07 24 11.6&	61.714	N	150.153	W	44					35	SOUTHERN ALASKA. <AGS-P>.
	20	08 21 43.2	6.822	S	147.090	E	37		5.1		1.0	33	EAST PAPUA NEW GUINEA REGION
	20	09 03 22.9?	6.44	N	126.28	E	99	*	4.2		1.3	11	MINDANAO, PHILIPPINE ISLANDS
	20	09 57 35.3*	17.027	N	99.885	W	33	N	4.3		1.2	17	GUERRERO, MEXICO
	20	11 24 38.8*	4.254	S	153.025	E	54	*	4.6		1.0	14	NEW IRELAND REGION
	20	12 32 11.3*	40.662	N	19.329	E	10	G			1.2	5	ALBANIA
	20	12 52 19.2%	40.276	N	23.486	E	10	G			0.9	6	GREECE
	20	12 58 18.3*	49.622	N	16.800	E	10	G			0.1	5	CZECHOSLOVAKIA. ML 3.2 (VKA), 2.9 (KBA).
	20	12 59 28.4*	5.729	S	104.128	E	69	*	5	0	1.3	38	SOUTHERN SUMATERA
	20	13 35 10.9%	60.466	N	5.003	E	10	G			0.5	5	SOUTHERN NORWAY
	20	13 42 49.6%	60.337	N	5.316	E	10	G			0.5	5	SOUTHERN NORWAY
	20	14 16 23.5%	59.367	N	5.751	E	10	G			0.9	5	SOUTHERN NORWAY
	20	14 42 24.4%	60.502	N	5.048	E	10	G			0.4	5	SOUTHERN NORWAY
	20	15 10 05.1	62.531	N	25.514	W	10	G	4.5		0.6	50	ICELAND REGION
	20	17 41 27.2	35.935	N	70.953	E	94	*	5.1		0.9	82	HINDU KUSH REGION. Felt (III) at Dushanbe and Khorog, USSR.
	20	18 37 12.7*	0.624	N	123 417	E	279	*	4	4	1.3	9	MINAHASSA PENINSULA
	20	18 58 48 6	42.013	N	19 639	E	10	G			1.1	29	YUGOSLAVIA ML 3 4 (TTG).
	20	20 21 13.3	5.977	S	105.395	E	68	*	5	2	1.3	80	SUNDA STRAIT
a	20	21 20 55.3	7.433	S	124.475	E	468		5	2	1.1	51	BANDA SEA
	20	21 41 36 5%	45 945	N	5 240	E	10	G			0.8	9	FRANCE ML 2.6 (LDG)
	20	23 36 43 4*	42.327	N	126 556	W	10	G	4	4	0.8	28	OFF COAST OF OREGON ML 3.9 (BRK).
	20	23 47 49.9	36 099	N	120.046	W	5	G			1.1	9	CENTRAL CALIFORNIA. ML 2.8 (BRK).
	21	00 54 39 9	36.214	N	71 103	E	33	N	4	2	0.7	10	AFGHANISTAN-USSR BORDER REGION
	21	02 51 02.9	23 892	S	66.815	W	209		4	5	1.2	15	JUJUY PROVINCE, ARGENTINA
	21	03 03 34 0	39.872	N	24 440	E	20		4	1	0.7	33	AEGEAN SEA. ML 4.3 (ATH)
	21	05 31 03 4	41 228	N	20 885	E	10	G			1.0	8	ALBANIA ML 3 1 (TTG) Felt (IV) at Oebar, Yugoslavia.
	21	05 35 51.8	41.596	N	20 428	E	14		3	8	1.1	55	ALBANIA ML 3.9 (TTG) Felt (VI) at Debar, Yugoslavia.
	21	05 45 18.7*	17.720	S	168 065	E	22	*	4	9	1.3	10	VANUATU ISLANDS
	21	06 21 37.5	41.530	N	20.353	E	10	G	4	6	1.2	73	ALBANIA DUR 4.2 (TTG). Felt in the Debar-Kicevo, Yugoslavia area.
	21	06 24 52.9	44.861	N	8 899	E	10	G			1.1	13	NORTHERN ITALY ML 3 1 (LDG)
	21	06 46 06.3*	31.462	S	67 798	W	31	*			0.6	7	SAN JUAN PROVINCE, ARGENTINA
a	21	06 56 02.7	23.984	S	179.784	W	528		5.1		1.0	66	SOUTH OF FIJI ISLANDS
	21	07 43 26.1	62.747	N	151.089	W	98		4.6		1.1	32	CENTRAL ALASKA Felt (III) at Talkeetna, (II) at Anchorage and Willow
	21	07 51 39.8	41.466	N	20.458	E	10	G			1.3	10	ALBANIA. ML 3.1 (TTG)
	21	07 54 42.5&	33 480	N	116.420	W	8					6	SOUTHERN CALIFORNIA. <PAS-P> ML 3 1 (PAS
	21	08 30 43.6?	31.30	S	68.71	W	107	?			0.2	5	SAN JUAN PROVINCE, ARGENTINA
	21	08 45 17 0	0.751	S	121.696	E	52	*	4	8	1.0	37	MINAHASSA PENINSULA
	21	09 01 49.6*	41 476	N	20.450	E	10	G			1.2	8	ALBANIA. ML 2.9 (TTG)
	21	11 00 32 1*	33.395	S	72.086	W	33	N	4.3		1.6	16	OFF COAST OF CENTRAL CHILE
	21	11 06 11.8*	43.233	N	18.878	E	10	G			0.9	6	YUGOSLAVIA. ML 2 5 (TTG)
	21	11 21 53 1	40.453	N	20 696	E	10	G			1.5	20	GREECE-ALBANIA BORDER REGION
	21	11 32 37 8*	41.429	N	20 374	E	10	G			0.9	8	ALBANIA ML 2 7 (TTG)
	21	12 06 44 1	24 107	N	121 313	E	87	*	4	2	1.4	11	TAIWAN
	21	12 29 23 5*	5.709	S	151.864	E	31	*	3.9		1.2	8	NEW BRITAIN REGION
	21	12 40 02 5*	28.323	N	96 036	E	33	N	5.4		0.7	6	INDIA-CHINA BORDER REGION
	21	12 44 30.6%	40.267	N	23 468	E	10	G			0.8	6	GREECE
	21	13 07 10 7?	43 80	N	17 10	W	33	N			0.7	13	NORTH ATLANTIC OCEAN
	21	14 45 14.1	33.448	S	71 580	W	33	N			1.3	11	NEAR COAST OF CENTRAL CHILE
	21	16 25 56 3	0 272	N	97.993	E	45	*	4	8 4.5	1.3	48	NORTHERN SUMATERA
	21	18 00 34 2	44.356	N	7.444	E	10	G			0.6	18	NORTHERN ITALY. ML 3 3 (LDG).
a	21	18 53 11.1	33 205	S	71 768	W	56	*	4	8 5 2	1.2	61	NEAR COAST OF CENTRAL CHILE Felt (VI) at Valparaiso, (V) at Quilpue, (IV) at Algarrabo and (III) at Santiago and San Antonio
	21	19 03 37 3*	33.312	S	72 054	W	33	N			1.3	15	OFF COAST OF CENTRAL CHILE
	21	19 23 48.5	33.276	S	71 993	W	33	N	4	9	1.1	52	NEAR COAST OF CENTRAL CHILE
	21	20 54 03.3%	31.503	S	68.711	W	109	*			0.5	6	SAN JUAN PROVINCE, ARGENTINA
a	21	21 52 57 4	20 497	S	70 340	W	33	N	5	4 5.2	1.0	149	NEAR COAST OF NORTHERN CHILE
	21	22 17 56.9*	33.404	S	72 054	W	33	N	4	8	1.3	17	OFF COAST OF CENTRAL CHILE
	21	22 57 11.5*	39.890	N	24 332	E	10	G			1.2	11	AEGEAN SEA
	22	00 41 21.5*	5.241	S	152.115	E	33	N	4	2	1.1	6	NEW BRITAIN REGION
	22	00 44 51.0*	17.173	S	74 352	W	33	N			1.4	6	OFF COAST OF PERU
	22	01 14 05.7	41.490	N	20 462	E	10	G			1.0	9	ALBANIA ML 2 5 (TTG).
	22	01 37 31 7&	61.055	N	151 171	W	64					33	SOUTHERN ALASKA. <AGS-P>.
	22	01 59 09.5?	33 18	S	71 46	W	33	N			1.8	5	NEAR COAST OF CENTRAL CHILE
	22	02 42 01 9	41 463	N	20 434	E	10	G			1.2	12	ALBANIA ML 3.0 (TTG).
	22	02 48 07.2?	7 51	S	130 78	E	33	N	4	9	0.9	5	TANIMBAR ISLANDS REGION
	22	02 58 52 1	5.712	S	152.931	E	57	*	3	8	0.6	7	NEW BRITAIN REGION
	22	04 15 53.3?	31.06	S	69.35	W	33	N			1.5	5	SAN JUAN PROVINCE, ARGENTINA
	22	05 48 29.3&	19.329	N	155.211	W	10		5	0		88	HAWAII. <HVO-P> ML 4.8 (HVO). Felt (V) at Hilo and Ookala. (IV) at Hakalau, Hawi, Honokoo, Holuoloa, Kealakekua, Laupohoehoe, Naalehu, Ninole, Paauhau, Pahala, Pahoo, Pepeekeo and Volcano Felt throughout the island of Hawaii
	22	06 05 52.1*	33.337	S	71 903	W	33	N			0.9	11	NEAR COAST OF CENTRAL CHILE
	22	06 37 03.2	5.687	S	152 842	E	29		5	1	1.1	22	NEW BRITAIN REGION
	22	06 54 18.8*	33.296	S	72 057	W	33	N	4	5	1.5	18	OFF COAST OF CENTRAL CHILE

	22	07	00	07.7*	6.488	S	155.089	E	71	*	4.5		1.2	8	SOLOMON ISLANDS. Felt (III) at Arawa and Panguna, Bougainville
	22	07	42	43.9*	5.512	S	152.204	E	41	*	4.6		1 1	13	NEW BRITAIN REGION
	22	07	52	23 2?	42.25	N	126.31	W	10	G	4.2		1 5	10	OFF COAST OF OREGON
	22	07	56	47.3?	33.31	S	70.96	W	33	N			0 7	6	CHILE-ARGENTINA BORDER REGION
	22	07	59	30 0*	42.168	N	126.835	W	10	G	4.2	4 0	1.2	16	OFF COAST OF OREGON
	22	08	01	34.8?	33.06	S	66.40	W	33	N			0.5	5	SAN LUIS PROVINCE, ARGENTINA
	22	08	26	30.3	39.543	N	75.473	E	33	N	4.7	4.6	1 1	57	SOUTHERN XINJIANG, CHINA
	22	08	51	17 8*	33.326	S	72.051	W	33	N	4.8		1 3	19	OFF COAST OF CENTRAL CHILE
	22	09	14	50.3?	33.38	S	72 42	W	33	N			1.1	7	OFF COAST OF CENTRAL CHILE
a	22	09	33	38 3	55.715	S	26.657	W	33	N	5.7	5.3	1 0	100	SOUTH SANDWICH ISLANDS REGION
	22	10	02	20 2%	60.359	N	5.351	E	10	G			0.4	5	SOUTHERN NORWAY
	22	11	09	06 3?	32.54	S	72.55	W	33	N			0 9	7	OFF COAST OF CENTRAL CHILE
	22	11	11	28.5*	42.423	N	24.186	E	10	G			1.5	5	BULGARIA
	22	12	30	36 0*	33.083	S	71.927	W	33	N	4.4		1.0	14	NEAR COAST OF CENTRAL CHILE
	22	13	13	47.0&	61.681	N	151 181	W	75					28	SOUTHERN ALASKA. <AGS-P>.
	22	13	24	13.2	42.477	N	24.101	E	10	G			1.4	8	BULGARIA
	22	13	55	32.6	42.421	N	13.381	E	10	G			1 1	10	CENTRAL ITALY
	22	14	14	14.7	18.267	N	146.455	E	74	*	5.0		1.2	73	MARIANA ISLANDS
	22	14	42	31.8*	32.931	S	72.036	W	33	N			1.0	11	OFF COAST OF CENTRAL CHILE
	22	14	46	03 5	38.903	N	24.822	E	30	*	4.4		1.2	22	AEGEAN SEA. ML 4.0 (ATH).
	22	15	07	59.4*	33.222	S	72.069	W	33	N	4.6		1.5	18	OFF COAST OF CENTRAL CHILE
	22	15	21	18.1*	3.649	S	144.540	E	36	*	4.7		0.6	8	NEAR N COAST OF PAPUA NEW GUINEA
a	22	15	48	04.9	7.345	S	128.507	E	194	D	5.5		0 9	150	BANDA SEA
	22	15	50	42.7*	39.064	N	24.660	E	10	G			0.8	6	AEGEAN SEA
	22	15	59	43.0?	33 87	S	72.54	W	33	N			1.1	11	OFF COAST OF CENTRAL CHILE
	22	16	19	26.5	13.418	N	120.696	E	82		4.7		1 0	18	MINDORO, PHILIPPINE ISLANDS. Felt (II RF) at Puerto Galera.
	22	17	09	11.4*	33.319	S	72.027	W	33	N	4.7		1.4	16	OFF COAST OF CENTRAL CHILE
	22	17	41	12.1*	32.883	S	72 076	W	33	N			0.8	6	OFF COAST OF CENTRAL CHILE
	22	18	14	52.0*	32.920	S	72.298	W	33	N	4.8		1.5	16	OFF COAST OF CENTRAL CHILE
	22	19	06	12.9*	33.100	S	71.802	W	65	*	4.9		1 1	17	NEAR COAST OF CENTRAL CHILE
	22	19	19	05.4*	33.262	S	71 878	W	33	N	4.8		1.2	12	NEAR COAST OF CENTRAL CHILE
	22	19	33	55 4*	33.083	S	71.740	W	66	*	5.0		1.1	37	NEAR COAST OF CENTRAL CHILE. Felt (II) at Mendozo, Argentino.
	22	19	49	36.7*	33.168	S	72.233	W	33	N			1.4	11	OFF COAST OF CENTRAL CHILE
a	22	20	38	46.1	54.476	N	161.211	W	33	N	5.3	4.9	0 8	185	ALASKA PENINSULA. ML 5 1 (PMR), Ms 4.9 (BRK). Felt (III) at Cold Boy, Sond Point and King Cove.
	22	22	32	05.3?	42.24	S	88 51	E	10	G	4 9		1 3	15	SOUTHEAST INDIAN RISE
	22	22	46	52.2?	42.10	S	87.95	E	10	G	5.0		1 4	10	SOUTHEAST INDIAN RISE
	23	00	05	00.1*	37 746	N	72.156	E	33	N	4.3		1 0	9	TAJIK SSR
	23	00	57	24 0*	43.295	N	143.883	E	152	*	4.7		1.0	21	HOKKAIDO, JAPAN REGION Felt (I JMA) at Kushiro.
a	23	01	01	30 2	6.557	N	125.887	E	163	D	5.2		1 0	113	MINDANAO, PHILIPPINE ISLANDS Felt (III RF) at Davao, (II RF) at Cagayan de Oro and (I RF) at General Santas.
	23	01	42	38 4&	40.275	N	124 448	W	11					19	NEAR COAST OF NORTHERN CALIF <BRK>. ML 3.4 (BRK). Mo=3 3*10**21 (BRK)
	23	04	12	02.1*	42.251	N	126.921	W	10	G	4.1		0 6	12	OFF COAST OF OREGON
	23	04	21	45 6*	51.480	N	7 478	E	10	G			1.2	10	GERMANY ML 2 4 (BNS).
	23	04	25	31.9&	60.160	N	153.196	W	122					36	SOUTHERN ALASKA <AGS-P>.
	23	04	35	51.5*	33.149	S	71.879	W	64	*	5.0		1 0	33	NEAR COAST OF CENTRAL CHILE Felt (VI) at Algorrobo and (V) at El Tobo.
	23	05	11	18 1*	33.256	S	71.974	W	33	N	4.5		0.9	10	NEAR COAST OF CENTRAL CHILE
	23	05	26	48 0?	33.39	S	72.46	W	33	N	4.4		1 4	6	OFF COAST OF CENTRAL CHILE
	23	05	34	59 6*	33.420	S	71 994	W	33	N	4.7		1.3	12	NEAR COAST OF CENTRAL CHILE
	23	05	43	40.8*	33 319	S	71.916	W	60	?	4.8		1.2	27	NEAR COAST OF CENTRAL CHILE
	23	05	45	54.0	33.077	S	71.848	W	58	*	5.1	5.3	0.9	29	NEAR COAST OF CENTRAL CHILE
	23	06	01	25.8	33 118	S	71 760	W	26	D	5.1		1.0	41	NEAR COAST OF CENTRAL CHILE
	23	06	15	14.5	41.512	N	20 435	E	10	G			1.1	7	ALBANIA. ML 2.6 (TTG).
	23	06	50	11.1?	7.17	N	71.37	W	33	N	5 1		1.1	5	VENEZUELA
	23	06	54	21 4?	32.75	S	71.93	W	33	N			0 6	7	NEAR COAST OF CENTRAL CHILE
	23	07	45	36.0?	32.97	S	72.13	W	33	N			1 1	7	OFF COAST OF CENTRAL CHILE
a	23	08	24	07.8	47.355	N	145.652	E	422	D	5.3		0 8	281	SEA OF OKHOTSK
	23	08	27	56.9?	33.07	S	71 96	W	33	N			1 7	5	NEAR COAST OF CENTRAL CHILE
	23	08	51	10 1?	33.19	S	71 39	W	10	G			0 8	6	NEAR COAST OF CENTRAL CHILE
	23	08	57	21.1&	59.890	N	153 192	W	110					37	SOUTHERN ALASKA <AGS-P>.
	23	10	07	24.5	29.059	N	94 677	E	33	N	4 1		1 2	19	INDIA-CHINA BORDER REGION
	23	10	16	23.0%	42.873	N	18 696	E	10	G			0 7	6	YUGOSLAVIA. ML 2 3 (TTG).
	23	12	14	39 3&	37 342	N	121.727	W	6					15	CENTRAL CALIFORNIA. <BRK> ML 3.0 (BRK). Mo=2.7*10**20 (BRK).
a	23	13	41	55.0	10 254	S	161.126	E	85	D	6.0		1 0	275	SOLOMON ISLANDS mb 6.2 (PAS). Felt at Honiara
	23	14	23	14.5	29.289	S	176.884	W	50	*	4.6		1.2	14	KERMADEC ISLANDS REGION
	23	14	45	35.9	6.966	S	30.928	E	10	G	5 7	5 3	0.8	155	LAKE TANGANYIKA REGION
	23	15	36	29.3*	41.171	N	118.734	W	5	G			1.5	8	NEVADA ML 4.4 (BRK)
a	23	19	14	26.5	18.456	S	177.981	W	528		5.2		1.0	201	FIJI ISLANDS REGION
	23	19	22	13.9*	40.273	N	20.247	E	10	G			0.3	6	GREECE-ALBANIA BORDER REGION
	23	20	49	49.4	43.296	N	0.590	W	10	G			1.0	12	PYRENEES ML 3 1 (LDG).
	23	20	49	52 3%	46.326	N	2.766	E	10	G			0.6	9	FRANCE. ML 1.9 (LDG)
	23	23	10	00 2	2.189	S	119.748	E	49	?	5.1		1.4	58	SULAWESI
	24	01	26	57 5*	2.254	S	119.925	E	33	N	4.6		1.3	28	SULAWESI
	24	01	46	13 3*	8.045	S	119.762	E	183	?	4.4		1.0	15	FLORES ISLAND REGION
	24	01	50	43 4*	37.723	N	22.546	E	33	N			0.9	16	SOUTHERN GREECE. ML 3.4 (ATH).
a	24	02	07	31.7	32.141	S	110.789	W	10	G	5.2	5.2	0.9	121	EASTER ISLAND CORDILLERA
a	24	02	26	57.7	2.072	S	119.785	E	61	D	5.5		1.3	132	SULAWESI
	24	02	40	53.9	2.180	S	119.765	E	56	*	5.2		1.0	67	SULAWESI
	24	03	12	43.7*	33.124	S	69 689	W	33	N	5.0		1.3	13	CHILE-ARGENTINA BORDER REGION
	24	03	14	53.5?	23.08	S	70.27	W	10	G			1.5	5	NEAR COAST OF NORTHERN CHILE
	24	04	09	54.8	2.252	S	119.712	E	43	*	5.0	4 6	1.4	75	SULAWESI
	24	04	54	33 8?	22.02	S	175.21	W	33	N	5.3		0.9	14	TONGA ISLANDS REGION
	24	05	37	13 1&	42.464	N	111.822	W	7					7	EASTERN IDAHO <SLC> ML 2.7 (SLC)
	24	06	04	30 0*	33.245	S	72 171	W	33	N	4.5		1.5	18	OFF COAST OF CENTRAL CHILE
	24	07	00	41 4*	28.636	S	68.197	W	196	?			0 4	7	LA RIOJA PROVINCE, ARGENTINA
	24	08	20	13.7	41.470	N	20.388	E	10	G			1.3	15	ALBANIA ML 3.1 (TTG).
	24	10	34	14 7	2.227	S	119.670	E	33	N	4.9		0.9	26	SULAWESI

	24	13 07 41.0	2.223	S	119.675	E	43 ?	5 2		1.1	46	SULAWESI
	24	13 31 32.1&	36 405	N	121.847	W	1				16	CENTRAL CALIFORNIA <BRK> ML 3 5 (BRK) Mo=1 1•10••21 (BRK) Felt in the Big Sur-Carmel areo.
	24	15 03 38.9?	33.32	S	71.96	W	33 N			1.4	6	NEAR COAST OF CENTRAL CHILE
	24	17 13 05.4•	31.408	S	68.036	W	10 G			0.7	6	SAN JUAN PROVINCE, ARGENTINA
	24	17 22 06.8•	16.196	S	179.583	W	573 •	4.3		1.2	25	FIJI ISLANDS REGION
	24	17 37 37.0&	61.018	N	152.393	W	110				28	SOUTHERN ALASKA <AGS-P>.
	24	17 58 22.0	52.594	N	34.782	W	10 G	4 6		1.0	30	NORTH ATLANTIC OCEAN
	24	18 58 54.2	41.484	N	20.453	E	10 G			1.2	11	ALBANIA. ML 3.0 (TTG).
	24	19 17 45.4	1.146	S	127.019	E	33 N	5.1		0.9	26	HALMAHERA
	24	20 11 44.6•	38.860	N	24.795	E	10 G			1.1	7	AEGEAN SEA. ML 3.2 (TTG).
	24	22 29 36.4?	65.84	N	150.29	W	10 G			0.9	5	ALASKA ML 3.7 (PMR)
o	24	22 37 24.1	12.974	S	165.720	E	33 N	5.2 4.6		1.1	89	SANTA CRUZ ISLANDS
	24	22 48 07.7?	52.24	N	174.84	W	204 ?	3.9		0.6	11	ANDREANOF ISLANDS, ALEUTIAN IS.
	24	23 10 29.1•	51.979	N	154.283	E	322 ?	4.2		0.7	16	NORTHWEST OF KURIL ISLANDS
	24	23 33 13.6	34.985	N	26.821	E	48 •	4.2		1 1	31	CRETE
	25	00 01 19.4•	6.377	S	154.711	E	41 •	4.8		0.9	10	SOLOMON ISLANDS. Felt (III) at Panguna, Bougoinville.
	25	01 48 31.2•	48.931	S	121.648	E	10 G	4.7		1.0	15	SOUTH OF AUSTRALIA
	25	02 41 41.5•	31.839	S	67.771	W	10 G			0.7	6	SAN JUAN PROVINCE, ARGENTINA
	25	02 56 52.5•	4.207	N	76.562	W	82 •	4.5		1.3	11	COLOMBIA. Felt at Cali.
	25	04 11 26.4	42.459	N	143.536	E	80	4.9		1.0	44	HOKKAIDO, JAPAN REGION. Felt (I JMA) at Hachinahe, Hirao, Kushiro, Obihiro and Urakawa.
	25	04 25 09.1&	59.914	N	152.601	W	86				35	SOUTHERN ALASKA. <AGS-P>.
	25	05 03 40.2	6.758	N	72.987	W	166	4.6		1.0	37	NORTHERN COLOMBIA
	25	05 33 19.5	29.130	S	68.673	W	109	4.5		1.0	32	SAN JUAN PROVINCE, ARGENTINA
	25	06 39 05.5?	19.78	S	174.20	E	33 N			1.5	5	VANUATU ISLANDS REGION
	25	06 51 48.2	2.190	S	119.669	E	42 •	4.7		1.3	35	SULAWESI
a	25	08 34 10.8	0.100	N	123.450	E	165 D	5 5		1.2	161	MINAHASSA PENINSULA
	25	09 52 32.7•	43.154	N	18.136	E	10 G			1.8	5	YUGOSLAVIA. ML 2.6 (TTG).
	25	11 11 37.1?	15.97	N	60.55	W	33 N			1.6	6	LEEWARD ISLANDS
a	25	11 12 40.6	9.877	S	154.135	E	33 N	5.9 5.1		0.9	152	DENTRECASTEAUX ISLANDS REGION
	25	11 33 16.0•	7.317	S	130.407	E	33 N	4.7		1.3	7	TANIMBAR ISLANDS REGION
	25	11 46 06.5•	44.501	N	114.190	W	10 G			0.5	9	WESTERN IDAHO. ML 3.3 (NEIS), 3.3 (BUT). Felt (II) at Challis.
	25	11 55 04.8?	17.52	N	61.99	W	33 N			0.7	6	LEEWARD ISLANDS
	25	11 59 47.8•	2.032	S	120.368	E	33 N	4.5		1.2	12	SULAWESI
	25	12 02 12.6•	17 830	N	101.706	W	90 ?	3.8		0.9	19	NEAR COAST OF GUERRERO, MEXICO
	25	12 21 31.6•	17.903	S	178.707	W	659 ?	4.5		1.0	44	FIJI ISLANDS REGION
	25	12 49 21.4	39.702	N	23.741	E	10 G			0.9	9	AEGEAN SEA. ML 3.3 (ATH).
	25	12 55 46.1?	39.67	N	23.82	E	10 G			0.8	8	AEGEAN SEA
	25	15 19 10.8%	60.533	N	5.160	E	10 G			0.5	5	SOUTHERN NORWAY
	25	15 22 40.6?	39.73	N	23.60	E	10 G			1.1	5	AEGEAN SEA
	25	15 56 25.0&	61.020	N	150.900	W	56				32	SOUTHERN ALASKA. <AGS-P>.
	25	16 56 11.2	36.461	N	71.158	E	229	4.4		0.8	64	AFGHANISTAN-USSR BORDER REGION
	25	17 32 54.2%	60.636	N	5.882	E	10 G			1.3	5	SOUTHERN NORWAY
	25	17 47 59.2	41.992	N	142.572	E	69	5.0		1.0	140	HOKKAIDO, JAPAN REGION. Felt (II JMA) at Hirao, Obihiro and Urakawa
	25	18 56 06.5	34.231	N	74.417	E	33 N	4.8		1.4	26	SOUTHWESTERN KASHMIR Felt in the Srinagar areo.
	25	19 26 08.5	36.439	N	26.575	E	157	4.3		1.0	58	DODECANESE ISLANDS
	25	20 53 51.1•	4.402	N	95.297	E	68 •	4.6		0.9	15	NORTHERN SUMATERA
	25	21 54 56.0•	6.862	S	151.044	E	33 N	4.9		1.1	18	NEW BRITAIN REGION
	25	23 48 03.5•	33.103	S	70.208	W	33 N			1.3	5	CHILE-ARGENTINA BORDER REGION
	26	00 06 39.5&	62.438	N	153.244	W	14				30	CENTRAL ALASKA. <AGS-P>. ML 4.0 (PMR)
	26	00 57 53.5?	34.63	N	140 02	E	33 N			0 3	5	NEAR EAST COAST OF HONSHU, JAPAN Felt (III JMA) at Tateyama and (II JMA) on Oshima
	26	01 02 56.3&	58 848	N	154 129	W	106				33	ALASKA PENINSULA. <AGS-P>
	26	02 20 42.9?	76.11	N	12.78	E	10 G	4 5		1.3	5	SVALBARD REGION
	26	02 44 06.9	32 575	N	47.366	E	43	4 9 3.5		0.8	100	IRAN-IRAQ BORDER REGION. Felt in the Dehloran area, Iran
	26	03 34 40 6•	32 921	N	47 484	E	86 •	4 7		0 7	11	IRAN-IRAQ BORDER REGION
	26	04 12 33 6	32 588	N	47 373	E	39	4 9 3.9		0 9	117	IRAN-IRAQ BORDER REGION Felt in the Dehloran area, Iran.
	26	04 14 30.7?	74.53	N	7.28	E	10 G	4.6		0 9	6	GREENLAND SEA
	26	04 27 11.0•	13.180	N	51.025	E	10 G	4.7		0.8	23	EASTERN GULF OF ADEN
	26	04 27 47 1&	19.748	N	156 019	W	9				22	HAWAII. <HVO-P> ML 4.0 (HVO). Felt at Kailua, Hualolai and Pahala Felt in the southern and western parts of the island of Hawaii.
	26	05 46 47.1	12.182	N	50.745	E	10 G	4 7		1.0	46	EASTERN GULF OF ADEN
	26	06 06 31 3•	32.732	N	47.084	E	53 •	4.5		0.9	21	IRAN-IRAQ BORDER REGION. Felt in the Dehloran area, Iran.
	26	07 42 03.4•	33.081	S	68.278	W	5 G			0.3	5	MENDOZA PROVINCE, ARGENTINA
	26	10 27 51.9?	40.70	N	24.12	E	33 N			1.5	5	AEGEAN SEA
	26	10 53 51.8	35.857	N	137.495	E	5 G	4.9		1.3	88	HONSHU, JAPAN Felt (III JMA) at Iida, (II JMA) at Yokkaichi and (I JMA) in the Kofu-Nagoyo-Fukui oreo.
	26	11 16 19.4•	25.445	N	125 139	E	133 •	4 6		0.9	22	SOUTHWESTERN RYUKYU ISLANDS
	26	16 00 08.5?	7.82	S	128.71	E	131 ?			0.9	9	BANDA SEA
	26	17 54 00.0	67.075	N	146.414	W	33 N			1.0	9	ALASKA ML 3.8 (PMR).
	26	18 52 17.9	46.215	N	13.194	E	11			0.8	14	AUSTRIA. ML 3.2 (VKA), 2.9 (KBA), 2.6 (TRI).
	26	20 36 57.5	32.578	N	47.291	E	58 •	4 7		0.9	40	IRAN-IRAQ BORDER REGION. Felt in the Dehloran area, Iran
	26	23 35 50.2&	35.822	N	119.552	W	5 G				16	CENTRAL CALIFORNIA. <BRK>. ML 3.5 (BRK), 3.6 (PAS).
	27	02 55 49.0•	31.472	S	68.778	W	130 •			1.0	8	SAN JUAN PROVINCE, ARGENTINA
	27	03 18 58.0•	3.195	N	126.395	E	33 N	5.1		1.2	16	TALAUD ISLANDS
	27	03 19 48.2•	47.433	N	11.282	E	10 G			1.5	6	AUSTRIA ML 2 3 (KBA).
	27	03 24 58 9•	13 068	N	51.154	E	10 G	4.8		1.2	7	EASTERN GULF OF ADEN
	27	04 26 47.2	5.859	N	77.503	W	26	5.0 3 7		1.0	121	NEAR WEST COAST OF COLOMBIA
	27	04 59 40.2?	3.07	N	123.39	E	33 N	5 1		1.5	8	CELEBES SEA
	27	05 02 55.8?	50.99	N	19.82	E	10 G			1.4	6	POLAND
	27	05 30 23.0	0.199	S	125.100	E	64 •	5.0		1.2	28	MOLUCCA SEA
	27	06 46 48.3?	6.79	S	163.24	E	33 N	4.8		1.4	6	NORTH OF SOLOMON ISLANDS
	27	07 29 07.8•	44.480	N	114.187	W	10 G			1.5	8	WESTERN IDAHO ML 3.1 (NEIS).
	27	07 46 46.2?	2.20	N	99.22	W	10 G	4.3		0.8	11	WEST OF GALAPAGOS ISLANDS
	27	12 24 30.1?	18.56	S	172.23	E	33 N	4.5		1.2	7	VANUATU ISLANDS REGION

	27	12 27 46.1*	1.368	N	66.739	E	10 G	4.9		1 3	18	CARLSBERG RIDGE
	27	13 17 27.1*	17.862	N	94.845	W	33 N	3.9		1.4	8	CHIAPAS, MEXICO
	27	16 34 19.4	37.956	N	43.073	E	43 *	4.6		1.2	52	TURKEY Felt in the Van area.
	27	17 29 12.8%	60.520	N	5.201	E	10 G			0 4	5	SOUTHERN NORWAY
	27	18 04 33.8	41.585	N	81.548	E	33 N	4.7	4.0	1.0	34	SOUTHERN XINJIANG, CHINA
	27	18 22 56.5%	31.597	S	69.311	W	129 *			0.5	7	SAN JUAN PROVINCE, ARGENTINA
	27	19 37 11.3	31.325	N	137.760	E	425	4.6		0.6	30	SOUTH OF HONSHU, JAPAN
	27	21 41 51.9*	33.228	S	71.640	W	68 *	4.5		1.2	28	NEAR COAST OF CENTRAL CHILE. Felt (V) at Algarrabo, Valparaiso and Vina del Mar and (III) at Santiago.
	27	22 29 05.2*	33.204	S	71.657	W	60 *	4.5		1.1	18	NEAR COAST OF CENTRAL CHILE
a	27	22 57 40 4	1.316	S	14.568	W	10 G	4.9	5.0	1.0	92	NORTH OF ASCENSION ISLAND
	27	23 08 25.8	39.200	N	25.409	E	10 G			0.5	13	AEGEAN SEA. ML 3.9 (ATH).
	28	00 15 33.4*	54.836	S	129.762	W	10 G	4.9		0.8	13	SOUTH PACIFIC CORDILLERA
	28	00 21 11.9?	16.36	N	94.92	W	33 N			0.8	6	OAXACA, MEXICO
	28	02 50 55.4?	22.43	S	175.80	W	33 N	4.5		1.3	7	TONGA ISLANDS REGION
	28	04 42 08.5&	33.960	N	116.290	W	10				17	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.7 (PAS). Felt (IV) at India, Palm Springs and Thousand Palms. Felt (III) at Cabazon and Desert Hot Springs.
	28	05 12 37.6?	45.81	N	151.24	E	33 N	5.0		1_0	15	KURIL ISLANDS
	28	08 59 20.0?	45.47	N	14.26	E	10 G			1.1	6	YUGOSLAVIA ML 2.7 (TRI). Felt at Rijeka.
	28	09 21 01.1&	59.888	N	153.237	W	112				20	SOUTHERN ALASKA. <AGS-P>.
	28	10 14 47.6	42.064	N	142.585	E	38	4.7		1.2	27	HOKKAIDO, JAPAN REGION. Felt (I JMA) at Urakawa.
	28	11 09 01.4&	42.985	N	110.820	W	1				14	WYOMING <SLC> ML 3 5 (SLC).
a	28	11 10 16.8	19.161	S	168.744	E	49 D	5.5	5.3	1.1	270	VANUATU ISLANDS. Ms 5.4 (BRK).
	28	12 37 44.8&	42.977	N	110.788	W	0				10	WYOMING. <SLC>. ML 3 1 (SLC).
	28	13 07 53.8?	43.24	N	1.19	E	10 G			1.6	5	FRANCE ML 3.1 (LDG)
	28	13 49 34.6%	42.080	N	24.470	E	10 G			1.2	5	BULGARIA
	28	16 55 47.2*	27.962	N	33.817	E	10 G	4.6	3.8	1.2	28	ARAB REPUBLIC OF EGYPT
	28	17 02 04.3&	47.499	N	122.597	W	46				19	WASHINGTON <SEA>. CL 3.5 (SEA). Felt (IV) at Lakebay and Tracyton. Also felt at Bremerton, Gorst, Port Orchard, Sunny Slope and in parts of Seattle.
	28	19 02 29.4?	14.87	N	147.63	E	33 N	4.8		1 1	13	MARIANA ISLANDS REGION
	28	19 19 14.9?	45.53	N	26.44	E	128 ?			0.7	5	ROMANIA
	28	19 37 48.4*	40.010	N	22.641	E	10 G			0 9	6	GREECE. ML 3 4 (ATH).
	28	20 28 30.8?	14.09	N	60 60	W	33 N			0.1	5	WINDWARD ISLANDS
f	28	20 53 47.8	27.462	N	128 449	E	60	5 9		0 9	345	RYUKYU ISLANDS. Ms 5 4 (BRK). Felt (IV JMA) on Okino-erobu-shima, (III JMA) at Nago, (II JMA) at Noha and on Kume-jima and (I JMA) at Naze. Also felt (III) at Kadena Air Force Base, Okinawa.
	28	21 01 36 8*	4.777	S	103.102	E	70 *	5.4		1 1	35	SOUTHERN SUMATERA
	28	21 32 59.8	47 661	N	7.302	E	10 G			1 1	39	SWITZERLAND ML 4 1 (GRF), 4.1 (VKA), 4.0 (LDG), 3.9 (KBA), 3.9 (FUR).
	28	22 05 19.2*	31.798	S	69 477	W	132 ?			0 6	7	SAN JUAN PROVINCE, ARGENTINA
	28	23 14 08.1*	29.956	N	130.563	E	33 N	4.2		1.0	8	RYUKYU ISLANDS

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 00 47 16.35 17.712S 174.371W 118km
5.7mb (44 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 28C
Centroid Location:
Origin Time 00:47.24.5 0.3
Lat 17 67S 0.03 Lon 174.01W 0.03
Dep 127.3 1.0 Half-duration 3.0
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	5 97	37	110
N	0.23	6	15
P	-6.20	52	277

Best Double Couple:Mo=6.1*10**24
NP1:Strike=235 Dip=10 Slip= -50
NP2 14 82 -96

01 04 52 13.34 18.720S 169 036E 217km
5 2mb (17 obs.)
VANUATU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used GDSN
L P B. 8S, 16C
Centroid Location:
Origin Time 04.52:18.3 1.8
Lat 19.13S 0.19 Lon 168.84E 0.09
Dep 221.5 3.8 Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	12.23	64	23
N	-3.12	16	258
P	-9 11	21	162

Best Double Couple.Mo=1.1*10**24
NP1:Strike=227 Dip=28 Slip= 55
NP2: 85 67 107

01 11 13 20 11 5.661S 148.689E 172km
5.1mb (7 obs)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used GDSN
L.P.B.: 5S, 10C
Centroid Location:
Origin Time 11:13.22.5 1.1
Lat 6.14S 0.10 Lon 148.79E 0.19
Dep 171.4 7.0 Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	11 06	17	157
N	-2 02	47	266
P	-9 04	38	52

Best Double Couple:Mo=1 0*10**24
NP1:Strike=202 Dip=50 Slip=-163
NP2 100 77 -42

02 11 06 47.23 43 838N 147 686E 42km
5 6mb (92 obs) 5.1Msz (7 obs.)
KURIL ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B 8S, 18C
Centroid Location
Origin Time 11 06 48 8 0 6
Lat 43.51N 0 05 Lon 148.00E 0 08
Dep 45.2 3 9 Half-duration 2 1
Principal Axes
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	1 84	75	339
N	0 45	6	227
P	-2 30	14	136

Best Double Couple.Mo=2 1*10**24
NP1:Strike=218 Dip=32 Slip= 79
NP2 51 59 97

02 20 52 34.29 28.399N 52 997E 37km
5.2mb (67 obs.) 5.3Msz (6 obs)
SOUTHERN IRAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L P.B : 11S, 20C
Centroid Location
Origin Time 20 52 34 5 1 0
Lat 28 22N 0 11 Lon 53 48E 0 13
Dep 21 6 4 4 Half-duration 2.0
Principal Axes
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	1.81	13	18
N	0 03	5	287
P	-1.85	76	179

Best Double Couple:Mo=1.8*10**24
NP1:Strike=114 Dip=32 Slip= -81
NP2. 284 58 -95

03 04 50 55 24 20.547S 174.099W 57km
5.8mb (47 obs)
TONGA ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=340 Dip=65 Slip= 90
NP2 160 25 90
Principal Axes:

	Plg=	Azm=
T	70	250
P	20	70

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 sta: 12
Principal Axes:
Scale 10**25 d-cm

	Val=	Plg=	Azm=
T	1.32	65	170
N	0.07	24	5
P	-1.40	6	273

Best Double Couple:Mo=1.4*10**25
NP1:Strike=338 Dip=45 Slip= 55
NP2. 203 55 120
CENTROID, MOMENT TENSOR (HRV)
Data Used. GDSN
L P.B : 12S, 27C
Centroid Location.
Origin Time 04:50:57.7 0 2
Lat 20.68S 0.03 Lon 173.93W 0.03
Dep 33.8 1.8 Half-duration 3.7
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	10.33	59	323
N	0.34	29	168
P	-10.67	11	72

Best Double Couple:Mo=1.1*10**25
NP1:Strike=130 Dip=42 Slip= 44
NP2 5 62 123

03 11 03 23.58 7.025S 125.114E 554km
5.3mb (21 obs.)
BANDA SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 15C
Centroid Location:
Origin Time 11:03:25.9 0.6
Lat 7 03S 0.05 Lon 124.98E 0.06
Dep 536 6 4.4 Half-duration 1.8
Principal Axes:
Scale 10**24 D-CM

T	Val= 1.44	Plg=40	Azm=162
N	-0.01	8	259
P	-1.43	49	358

Best Double Couple:Mo=1.4*10**24
NP1:Strike=197 Dip= 9 Slip=-152
NP2: 80 86 -82

03 14 46 09.32 18.352S 64.597E 10km
5.0mb (27 obs.)
MASCARENE ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B. 9S, 17C
Centroid Location
Origin Time 14:46 18.9 1.2
Lat 18 07S 0.08 Lon 64.59E 0.13
Dep 10.0 FIX Half-duration 1.4
Principal Axes
Scale 10**23 D-CM

T	Val= 3.31	Plg= 0	Azm=195
N	-0.02	0	105
P	-3.30	90	180

Best Double Couple:Mo=3.3*10**23
NP1:Strike=285 Dip=45 Slip= -90
NP2: 105 45 -90

05 07 41 25.98 5.096S 151 380E 166km
5.1mb (22 obs)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 17C
Centroid Location:
Origin Time 07:41:28.2 1.0
Lat 5.38S 0.09 Lon 151.74E 0.08
Dep 164.1 2.1 Half-duration 1.7
Principal Axes.
Scale 10**24 D-CM

T	Val= 1.34	Plg=78	Azm=327
N	-0.18	1	234
P	-1.16	12	144

Best Double Couple:Mo=1.3*10**24
NP1:Strike=233 Dip=33 Slip= 89
NP2. 55 57 91

05 15 07 24.22 20 637S 177.749W 554km
5 3mb (17 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used GDSN
L P B.. 9S, 13C
Centroid Location
Origin Time 15.07:28.7 1 4
Lat 20.96S 0.13 Lon 177.95W 0.13
Dep 533.2 5.8 Half-duration 1 4
Principal Axes
Scale 10**23 D-CM

T	Val= 9.39	Plg=13	Azm= 12
N	0.29	33	110
P	-9.68	53	263

Best Double Couple:Mo=9.5*10**23
NP1:Strike= 66 Dip=43 Slip=-143
NP2 308 66 -53

06 13 29 46.01 43.961N 149.289E 13km
5 6mb (81 obs.) 5.2Msz (7 obs.)
KURIL ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used. GDSN
L.P.B. 8S, 17C
Centroid Location:
Origin Time 13:29:50.9 0 8
Lat 44 11N 0.09 Lon 149.42E 0.16
Dep 10.0 FIX Half-duration 1 7
Principal Axes:
Scale 10**23 D-CM

T	Val= 13.56	Plg=55	Azm=317
N	0.23	3	223
P	-13.79	35	130

Best Double Couple.Mo=1.4*10**24
NP1:Strike=204 Dip=11 Slip= 72
NP2 43 80 93

06 15 27 17 27 43.865N 149.250E 47km
5.3mb (51 obs) 5.2Msz (5 obs.)
KURIL ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B : 7S, 13C
Centroid Location:
Origin Time 15.27:13.3 1.5
Lat 43.85N 0 12 Lon 150.32E 0.23
Dep 10.0 FIX Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM

T	Val= 6.28	Plg=65	Azm=323
N	0 29	5	223
P	-6.57	25	131

Best Double Couple:Mo=6.4*10**23
NP1:Strike=210 Dip=21 Slip= 77
NP2: 45 70 95

07 09 27 43.58 51.566N 173.863W 33km
5.3mb (56 obs.) 4.8Msz (6 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 16C
Centroid Location:
Origin Time 09:27:49.9 0.6
Lat 52.07N 0.08 Lon 173.77W 0.13
Dep 10.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**24 D-CM

T	Val= 1.32	Plg=60	Azm=345
N	0.03	4	247
P	-1.35	30	155

Best Double Couple:Mo=1.3*10**24
NP1:Strike=232 Dip=16 Slip= 74
NP2 68 75 94

08 13 34 07 39 47.236N 154.175E 33km
5.3mb (42 obs.) 4.6Msz (1 obs)
KURIL ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B : 6S, 14C
Centroid Location:
Origin Time 13:34:11 1 1.1
Lat 47.27N 0.13 Lon 153.84E 0.23
Dep 28.510 2 Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM

T	Val= 4.71	Plg=65	Azm=289
N	-0.23	4	27
P	-4.48	25	119

Best Double Couple:Mo=4.6*10**23
NP1.Strike=217 Dip=21 Slip= 101
NP2: 26 70 86

08 19 32 21.17 43.918N 149.348E 44km
5 4mb (68 obs.) 5.2Msz (3 obs.)
KURIL ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used. GDSN
L.P.B.: 6S, 13C
Centroid Location:
Origin Time 19:32:22.4 1.4
Lat 44.24N 0.16 Lon 149 50E 0.30
Dep 10.0 FIX Half-duration 1.3
Principal Axes:
Scale 10**23 D-CM

T	Val= 5.87	Plg=60	Azm=319
N	0.31	5	219
P	-6 18	29	126

Best Double Couple:Mo=6.0*10**23
NP1:Strike=202 Dip=17 Slip= 72
NP2 41 74 95

09 20 33 28.44 23 074S 175 385W 33km
5.3mb (12 obs.) 5.4Msz (2 obs.)
TONGA ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B 10S, 19C
Centroid Location
Origin Time 20:33 32.1 0.7
Lat 23 14S 0 07 Lon 175.01W 0 07
Dep 11.5 2 7 Half-duration 1.8
Principal Axes.
Scale 10**24 D-CM

T	Val= 1.20	Plg=74	Azm=264
N	0.04	8	21
P	-1.23	15	113

Best Double Couple:Mo=1.2*10**24
NP1:Strike=213 Dip=31 Slip= 105
NP2. 16 60 81

11 00 13 53.78 16.644N 94.968W 91km
5.2mb (37 obs.)
OAXACA, MEXICO
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 20C
Centroid Location:
Origin Time 00:13:55.2 0.5
Lat 16.72N 0.06 Lon 95.23W 0.05
Dep 96.2 2.7 Half-duration 2.5
Principal Axes:
Scale 10**24 D-CM

T	Val= 3.59	Plg= 3	Azm= 79
N	0.49	58	345
P	-4.08	32	171

Best Double Couple:Mo=3.8*10**24
NP1:Strike=210 Dip=66 Slip= -22
NP2: 309 70 -154

13 11 10 36.25 12.974S 168.819E 635km
4.9mb (22 obs.)
SANTA CRUZ ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 5S, 12C
Centroid Location:
Origin Time 11:10:35.9 2.1
Lat 13.07S 0.17 Lon 168.91E 0.21
Dep 636.910.2 Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM

T	Val= 5.59	Plg=24	Azm=200
N	-0.49	4	292
P	-5.11	66	30

Best Double Couple:Mo=5.4*10**23
NP1:Strike=282 Dip=21 Slip=-100
NP2: 113 69 -86

13 17 58 27.39 51.186N 179.753W 44km
5.4mb (76 obs.) 5.1Msz (10 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.. 11S, 23C
Centroid Location.
Origin Time 17:58:29.9 0.4
Lat 51.37N 0.04 Lon 179.72E 0.08
Dep 34.9 3.0 Half-duration 2.2
Principal Axes.
Scale 10**24 D-CM

T	Val= 1.94	Plg=62	Azm=336
N	0.33	7	80
P	-2.27	27	173

Best Double Couple:Mo=2.1*10**24
NP1:Strike=282 Dip=19 Slip= 113
NP2. 77 73 82

14 05 04 02.20 66.196N 150.148W 10km
5.0mb (25 obs.) 5.0Msz (6 obs.)
ALASKA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 14C
Centroid Location:
Origin Time 05:04: 6.0 1.4
Lat 66.37N 0.18 Lon 149.98W 0.27
Dep 10.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM

T	Val= 8.40	Plg=22	Azm=244
N	-0.44	66	85
P	-7.97	8	337

Best Double Couple:Mo=8.2*10**23
NP1:Strike= 23 Dip=69 Slip= 11
NP2: 289 80 158

14 08 30 56.69 24.068S 67.881W 139km
5.6mb (56 obs.)
CHILE-ARGENTINA BORDER REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 20C
Centroid Location:
Origin Time 08:31: 4.1 0.3
Lat 23.88S 0.04 Lon 68.01W 0.04
Dep 143.7 1.8 Half-duration 2.4
Principal Axes.
Scale 10**24 D-CM

T	Val= 3.44	Plg=12	Azm= 65

N -0.28 58 176
P -3.16 29 329
Best Double Couple Mo=3.3*10**24
NP1:Strike=111 Dip=61 Slip=-167
NP2: 14 79 -30

15 09 20 58.08 23.662S 175.229W 33km
5.2mb (12 obs.) 5.3Msz (3 obs.)
TONGA ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 16C
Centroid Location:
Origin Time 09:21 4.3 0 7
Lat 23.48S 0.08 Lon 175.20W 0.07
Dep 29.1 4.8 Half-duration 1.7
Principal Axes:
Scale 10**23 D-CM
T Val= 12.64 Plg=59 Azm=230
N 0.85 21 1
P -13.49 21 100
Best Double Couple:Mo=1.3*10**24
NP1:Strike=223 Dip=30 Slip= 136
NP2: 353 70 67

16 13 48 46.46 23.261S 175.014W 42km
5.2mb (15 obs.) 5.3Msz (3 obs.)
TONGA ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 22C
Centroid Location:
Origin Time 13:48:49.4 0.6
Lat 23.49S 0.06 Lon 175.00W 0.07
Dep 10 0 FIX Half-duration 1.6
Principal Axes:
Scale 10**24 D-CM
T Val= 1.42 Plg=63 Azm=270
N 0.05 7 13
P -1.47 26 106
Best Double Couple:Mo=1.4*10**24
NP1:Strike=212 Dip=20 Slip= 110
NP2: 11 72 83

16 16 28 12.05 39.976N 142.761E 42km
5.2mb (47 obs.) 4.5Msz (1 obs.)
NEAR EAST COAST OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used. GDSN
L.P.B.: 8S, 15C
Centroid Location:
Origin Time 16:28 14.9 1 2
Lat 39 69N 0.12 Lon 142.69E 0 16
Dep 38.7 9 5 Half-duration 1 4
Principal Axes:
Scale 10**23 D-CM
T Val= 4 73 Plg=66 Azm=264
N 1.00 9 15
P -5 73 22 109
Best Double Couple Mo=5 2*10**23
NP1.Strike=216 Dip=25 Slip= 112
NP2. 12 67 80

17 02 52 24.10 3 509S 148 943E 33km
5 1mb (6 obs) 5.0Msz (1 obs)
BISMARCK SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used GDSN
L P.B.: 9S, 20C
Centroid Location
Origin Time 02.52 26 6 0.5
Lat 3 49S 0.05 Lon 148 85E 0.06
Dep 21.1 6 6 Half-duration 2.2
Principal Axes
Scale 10**24 D-CM
T Val= 2.59 Plg=18 Azm=148
N 0.28 72 325
P -2.87 1 58
Best Double Couple:Mo=2 7*10**24
NP1:Strike=191 Dip=77 Slip= 168
NP2. 284 78 13

17 21 36 52.12 4.762S 134.038E 33km
5.2mb (17 obs.) 5.5Msz (3 obs)
WEST IRIAN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used. GDSN
L P.B 7S, 17C
Centroid Location:
Origin Time 21:36:55.8 0 9
Lat 4 40S 0.10 Lon 133.45E 0.08
Dep 27 2 6.8 Half-duration 2.3
Principal Axes

Scale 10**24 D-CM
T Val= 2.22 Plg= 7 Azm=104
N -0.01 56 3
P -2.20 33 198
Best Double Couple:Mo=2.2*10**24
NP1:Strike=236 Dip=62 Slip= -19
NP2: 335 73 -151

18 19 41 03.43 23.402N 123.187E 33km
5.7mb (70 obs.) 5.6Msz (10 obs.)
SOUTHWESTERN RYUKYU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 7S, 16C
Centroid Location:
Origin Time 19:41: 1.3 0.3
Lat 23.32N 0.03 Lon 122.72E 0.06
Dep 36.7 4.2 Half-duration 2.3
Principal Axes:
Scale 10**24 D-CM
T Val= 3.33 Plg= 9 Azm= 15
N -0.37 79 161
P -2 96 6 284
Best Double Couple:Mo=3.1*10**24
NP1:Strike= 60 Dip=79 Slip= 178
NP2 150 88 11

19 08 39 14 88 22 937S 176.687W 146km
5.3mb (23 obs)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used GDSN
L.P.B.. 12S, 21C
Centroid Location
Origin Time 08:39:19.5 0.4
Lat 22.88S 0 06 Lon 176.35W 0.05
Dep 122.6 2.3 Half-duration 2.1
Principal Axes:
Scale 10**24 D-CM
T Val= 2.23 Plg=38 Azm= 98
N -0.28 2 190
P -1.95 52 282
Best Double Couple:Mo=2.1*10**24
NP1:Strike=176 Dip= 8 Slip=-104
NP2: 10 83 -88

19 13 53 19.72 61.084S 23.692W 33km
5.2mb (5 obs)
SOUTH SANDWICH ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B : 10S, 18C
Centroid Location.
Origin Time 13:53.23 1 0.7
Lat 61 45S 0 12 Lon 24.40W 0.28
Dep 31.3 9 4 Half-duration 1.5
Principal Axes
Scale 10**23 D-CM
T Val= 9 44 Plg=25 Azm=145
N -2 80 45 27
P -6 64 34 253
Best Double Couple:Mo=8.0*10**23
NP1:Strike=285 Dip=46 Slip= -8
NP2. 21 84 -136

19 23 03 43.82 25.779S 178 191E 624km
5 0mb (16 obs.)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used GDSN
L.P.B 9S, 16C
Centroid Location:
Origin Time 23:03:51.3 0.6
Lat 25.33S 0.09 Lon 177.76E 0.07
Dep 649.3 4.1 Half-duration 1.8
Principal Axes.
Scale 10**24 D-CM
T Val= 1.38 Plg=24 Azm=207
N 0.25 16 109
P -1 64 61 349
Best Double Couple:Mo=1.5*10**24
NP1:Strike=326 Dip=26 Slip= -51
NP2: 104 71 -107

20 21 20 55.35 7.433S 124 475E 468km
5.2mb (7 obs.)
BANDA SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L P.B.: 6S, 10C
Centroid Location
Origin Time 21.20.51.8 1 4
Lat 8.25S 0 12 Lon 124 07E 0 15

Dep 416.8 7.8 Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM
T Val= 9.31 Plg=18 Azm= 61
N -1.45 19 324
P -7.87 63 192
Best Double Couple:Mo=8.6*10**23
NP1:Strike=178 Dip=32 Slip= -52
NP2: 316 66 -111

21 06 56 02.78 23.984S 179.784W 528km
5.1mb (23 obs.)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 7S, 11C
Centroid Location:
Origin Time 06:56:10.2 1.2
Lat 24.19S 0.21 Lon 179.96E 0.13
Dep 521.4 8.0 Half-duration 1.4
Principal Axes.
Scale 10**23 D-CM
T Val= 5 46 Plg=13 Azm= 75
N 2.30 25 171
P -7.77 62 320
Best Double Couple:Mo=6.6*10**23
NP1:Strike=136 Dip=39 Slip=-132
NP2 5 62 -62

21 18 53 11.11 33.205S 71.768W 56km
4 8mb (10 obs.) 5.2Msz (6 obs.)
NEAR COAST OF CENTRAL CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used GDSN
L.P.B.. 9S, 19C
Centroid Location:
Origin Time 18:53:14.6 0.3
Lat 33 37S 0.03 Lon 72.10W 0.04
Dep 32.9 2.1 Half-duration 2.5
Principal Axes:
Scale 10**24 D-CM
T Val= 3.88 Plg=63 Azm= 45
N 0.54 18 176
P -4.43 19 272
Best Double Couple:Mo=4.1*10**24
NP1:Strike= 29 Dip=31 Slip= 127
NP2: 167 66 70

21 21 52 57.41 20.497S 70.340W 33km
5.4mb (48 obs.) 5.2Msz (8 obs.)
NEAR COAST OF NORTHERN CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L P.B.: 12S, 23C
Centroid Location:
Origin Time 21:53 2 1 0 2
Lat 20.79S 0.05 Lon 71 01W 0 03
Dep 15 0 2 1 Half-duration 2.6
Principal Axes
Scale 10**24 D-CM
T Val= 3 05 Plg=69 Azm= 47
N 0.54 11 169
P -3 58 17 263
Best Double Couple.Mo=3.3*10**24
NP1:Strike= 10 Dip=30 Slip= 114
NP2 163 63 77

22 09 33 38.38 55.715S 26.657W 33km
5 7mb (16 obs) 5.3Msz (8 obs.)
SOUTH SANDWICH ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 18C
Centroid Location:
Origin Time 09:33:45.3 0 4
Lat 55.60S 0.04 Lon 26.80W 0.09
Dep 13.7 2.2 Half-duration 2.6
Principal Axes.
Scale 10**24 D-CM
T Val= 2.91 Plg=70 Azm=222
N 0.54 6 329
P -3.45 19 61
Best Double Couple:Mo=3.2*10**24
NP1:Strike=162 Dip=26 Slip= 104
NP2. 326 65 83

22 15 48 04.97 7 345S 128.507E 194km
5 5mb (32 obs)
BANDA SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used GDSN
L.P.B.: 9S, 15C
Centroid Location

Origin Time 15:48: 3.4 0.7
Lat 7.47S 0.08 Lon 128.57E 0.08
Dep 176.3 3.0 Half-duration 2.0
Principal Axes:
Scale 10**24 D-CM
T Val= 1.66 Plg=57 Azm=192
N -0.03 7 92
P -1.63 33 358
Best Double Couple:Mo=1.6*10**24
NP1:Strike= 64 Dip=14 Slip= 61
NP2: 274 78 97

22 20 38 46.15 54.476N 161.211W 33km
5.3mb (73 obs.) 4 9Msz (6 obs.)
ALASKA PENINSULA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 20C
Centroid Location
Origin Time 20:38:47.5 0.7
Lat 54.36N 0.08 Lon 161.26W 0.11
Dep 59.1 5.5 Half-durotion 1.8
Principal Axes:
Scale 10**24 D-CM
T Val= 1.14 Plg=73 Azm=303
N 0.32 9 65
P -1.47 14 157
Best Double Couple:Mo=1.3*10**24
NP1:Strike=259 Dip=32 Slip= 107
NP2: 59 60 80

23 01 01 30.28 6.557N 125.887E 163km
5.2mb (31 obs.)
MINDANAO, PHILIPPINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 13C
Centroid Location:
Origin Time 01:01:28.1 0.9
Lat 6.38N 0.09 Lon 125.99E 0.11
Dep 148.5 3.5 Half-durotion 1 5
Principal Axes:
Scale 10**23 D-CM
T Val= 10.59 Plg=14 Azm=316
N 3.77 29 219
P -14.37 57 69
Best Double Couple:Mo=1.2*10**24
NP1:Strike= 79 Dip=40 Slip= -41
NP2: 203 65 -122

23 08 24 07.89 47.355N 145.652E 422km
5.3mb (94 obs.)
SEA OF OKHOTSK
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 7S, 11C
Centroid Location:
Origin Time 08:24:10.5 0.7
Lat 47.31N 0.14 Lon 145.57E 0 18
Dep 429.3 4.5 Half-durotion 1.8
Principal Axes
Scale 10**23 D-CM
T Val= 13.35 Plg=44 Azm=137
N -3.82 24 22
P -9.53 36 272
Best Double Couple:Mo=1.1*10**24
NP1:Strike=302 Dip=25 Slip= 9
NP2: 204 86 114

23 13 41 55.01 10.254S 161 126E 85km
6.0mb (59 obs)
SOLOMON ISLANDS
FAULT PLANE SOLUTION. P-Waves
NP1:Strike=230 Dip=60 Slip=-142
NP2: 119 58 -36
Principal Axes
T Plg= 1 Azm=354
P 47 85
Comment. The focal mechanism is moderately well controlled and corresponds to strike-slip faulting with a large normal component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 135 No. of sta: 9
Principal Axes:
Scale 10**25 d-cm
T Val= 2.82 Plg= 1 Azm= 32
N 0.05 14 301
P -2.86 76 126
Best Double Couple:Mo=2.8*10**25
NP1:Strike=135 Dip=46 Slip= -71
NP2: 289 48 -109
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 27C
Centroid Location:
Origin Time 13:41:59.9 0.2
Lat 10.28S 0.03 Lan 161.19E 0.02
Dep 94.3 1.5 Half-duration 5.1
Principal Axes:
Scale 10**25 D-CM
T Val= 2.10 Plg= 1 Azm=301
N 0.80 41 210
P -2.91 49 32
Best Double Couple:Mo=2.5*10**25
NP1:Strike= 64 Dip=57 Slip= -39
NP2: 178 58 -140

23 19 14 26.58 18.456S 177.981W 528km
5.2mb (40 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L P.B.: 7S, 12C
Centroid Location:
Origin Time 19:14:32.8 0.8
Lat 18.97S 0.13 Lon 177.85W 0.08
Dep 526.1 4.6 Half-durotion 1 8
Principal Axes:
Scale 10**23 D-CM
T Val= 10 32 Plg=26 Azm=147
N 3.07 4 239
P -13.38 63 338
Best Double Couple:Mo=1.2*10**24
NP1.Strike=227 Dip=19 Slip=-103
NP2: 61 71 -86

24 02 07 31.75 32.141S 110 789W 10km
5.2mb (26 obs.) 5.2Msz (7 obs)
EASTER ISLAND CORDILLERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L P.B. 13S, 21C
Centroid Location:
Origin Time 02:07:42.7 0 7
Lat 32.20S 0.06 Lon 111.25W 0.09
Dep 10.0 FIX Half-durotion 2.2
Principal Axes:
Scale 10**24 D-CM
T Val= 1.64 Plg=84 Azm=282
N 0.72 6 109
P -2.36 1 19
Best Double Couple:Mo=2.0*10**24
NP1:Strike=103 Dip=45 Slip= 81
NP2: 295 46 99

24 02 26 57.77 2.072S 119.785E 61km
5.5mb (24 obs.)
SULAWESI
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.. 12S, 18C
Centroid Location
Origin Time 02.26.52.9 0.7
Lat 2.43S 0.08 Lon 119.42E 0 07
Dep 40.5 5.4 Half-durotion 3 6
Principal Axes:
Scale 10**25 D-CM
T Val= 0.89 Plg=30 Azm= 7
N 0.17 57 163
P -1.06 11 270
Best Double Couple:Mo=1.0*10**25
NP1 Strike= 44 Dip=61 Slip= 165
NP2 142 77 30

24 22 37 24 17 12.974S 165.720E 33km
5.2mb (15 obs.) 4.6Msz (1 obs.)
SANTA CRUZ ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used GDSN
L.P.B 9S, 12C
Centroid Location
Origin Time 22 37.25.0 1 0
Lat 13 36S 0.20 Lon 165 49E 0.22
Dep 10 0 FIX Half-duration 1.4
Principal Axes.
Scale 10**23 D-CM
T Val= 7 61 Plg=29 Azm= 79
N -0 08 6 172
P -7 54 60 273
Best Double Couple:Mo=7 6*10**23
NP1:Strike=152 Dip=17 Slip=-111
NP2. 354 74 -84

25 08 34 10.86 0.100N 123.450E 165km
5.5mb (42 obs.)
MINAHASSA PENINSULA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 16C
Centroid Location:
Origin Time 08:34:11.6 0.5
Lat 0.11S 0.04 Lan 123.51E 0.06
Dep 128.9 1.7 Half-duration 2.4
Principal Axes:
Scale 10**24 D-CM
T Val= 3.05 Plg=83 Azm=252
N 1.23 7 52
P -4.28 2 143
Best Double Couple:Mo=3.7*10**24
NP1:Strike=240 Dip=43 Slip= 100
NP2: 46 48 81

25 11 12 40.63 9.877S 154.135E 33km
5.9mb (25 obs.) 5.1Msz (6 obs.)
DENTRECASTEAUX ISLANDS REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=340 Dip=70 Slip= 147
NP2: 83 59 23
Principal Axes:
T Plg=37 Azm=298
P 7 33
Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting with a large reverse component The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 14 No. of sta: 5
Principal Axes:
Scale 10**24 d-cm
T Val= 1.52 Plg=38 Azm=313
N 0.01 49 156
P -1.53 12 52
Best Double Couple:Mo=1.5*10**24
NP1:Strike=100 Dip=54 Slip= 21
NP2: 357 73 143
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 16C
Centroid Location:
Origin Time 11:12:38.7 1.0
Lat 10.26S 0 08 Lon 154.12E 0.09
Dep 13.7 3.9 Half-duration 1.7
Principal Axes:
Scale 10**24 D-CM
T Val= 1.45 Plg=13 Azm=158
N 0.19 16 64
P -1 64 69 285
Best Double Couple:Mo=1.5*10**24
NP1:Strike=269 Dip=35 Slip= -61
NP2 54 60 -109

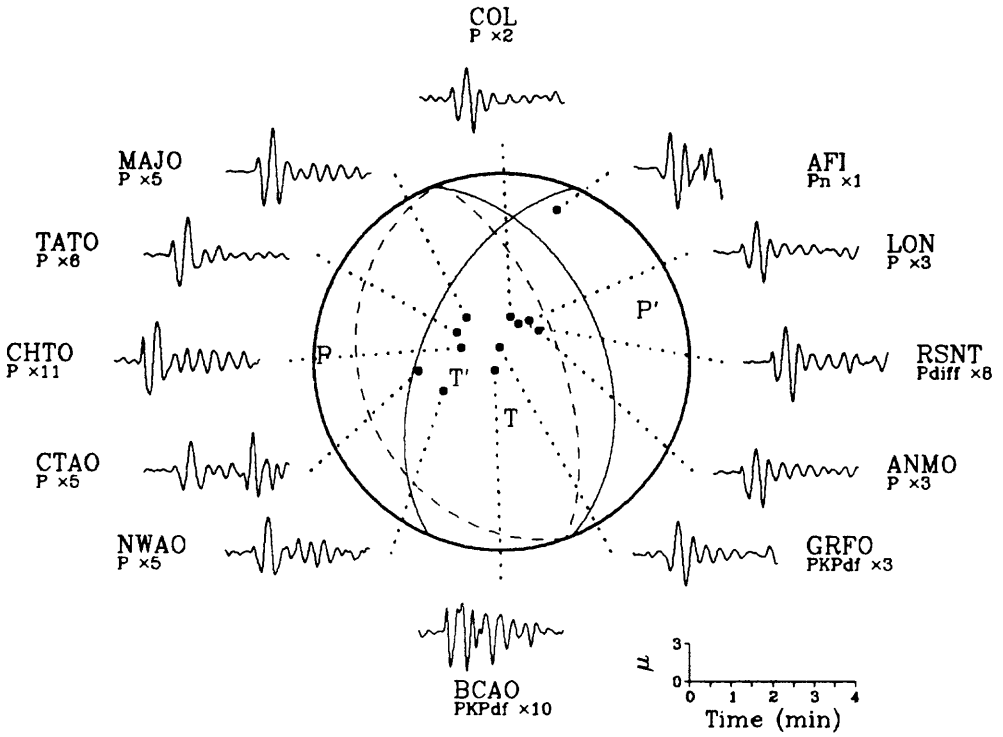
27 22 57 40 41 1.316S 14.568W 10km
4.9mb (42 obs.) 5 0Msz (5 obs.)
NORTH OF ASCENSION ISLAND
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P B 11S, 20C
Centroid Location:
Origin Time 22:57:51.5 0.4
Lat 0.63S 0 05 Lon 14.23W 0.05
Dep 10 0 FIX Half-durotion 1.9
Principal Axes.
Scale 10**24 D-CM
T Val= 1.65 Plg=13 Azm=215
N 0 14 71 349
P -1.79 13 122
Best Double Couple:Mo=1.7*10**24
NP1:Strike=259 Dip=71 Slip= 180
NP2. 349 90 19

28 11 10 16.83 19.161S 168.744E 49km
5.5mb (45 obs.) 5.3Msz (8 obs.)
VANUATU ISLANDS
CENTRDID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 24C
Centroid Location:
Origin Time 11:10:23 8 0.2
Lat 19.17S 0.03 Lon 168 23E 0.03
Dep 60.7 1.7 Half-duration 3.0
Principal Axes:
Scale 10**24 D-CM
T Val= 5 65 Plg=82 Azm=186
N 1.97 8 356

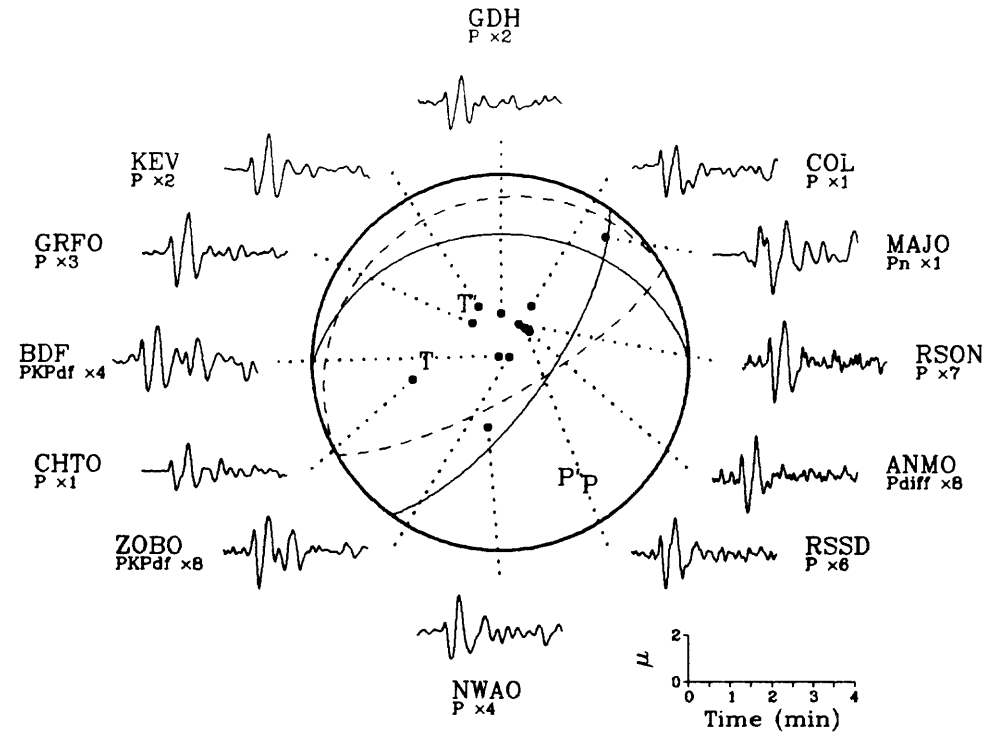
```
   P       -7.62       1        86
  Best Double Couple:Mo=6.6*10**24
   NP1:Strike=184 Dip=44 Slip= 101
   NP2.        348     47        79

28 20 53 47.86  27.462N 128.449E  60km
  5.9mb ( 96 obs.)
  RYUKYU ISLANDS
  FAULT PLANE SOLUTION: P-Waves
   NP1:Strike= 60 Dip=75 Slip=  90
   NP2:        240     15        90
  Principal Axes:
    T               Plg=60  Azm=330
    P                  30       150
  Comment: The focal mechanism is
    moderately well controlled and
    corresponds to reverse
    faulting. The preferred fault
    plane is NP2.
  MOMENT TENSOR SOLUTION
  Dep  48           No. of sta: 10
  Principal Axes:
    Scale 10**25 d-cm
    T  Val=  1.55  Plg=57  Azm=271
    N       -0.01       24        44
    P       -1.54       21       144
  Best Double Couple:Mo=1.5*10**25
   NP1:Strike=269 Dip=32 Slip= 139
   NP2:        35      70        65
  CENTROID, MOMENT TENSOR    (HRV)
  Data Used: GDSN
  L.P.B.: 12S, 28C
  Centroid Location:
  Origin Time       20:53:50.0 0.2
  Lat 27.22N 0.02 Lon 128.41E 0.04
  Dep  37.3 1.8 Half-duration  3.7
  Principal Axes:  -
    Scale 10**24 D-CM
    T  Val= 10.40  Plg=67  Azm=325
    N        1.17       2       230
    P      -11.58      23       139
  Best Double Couple:Mo=1.1*10**25
   NP1:Strike=226 Dip=22 Slip=  85
   NP2:        51      68        92
```

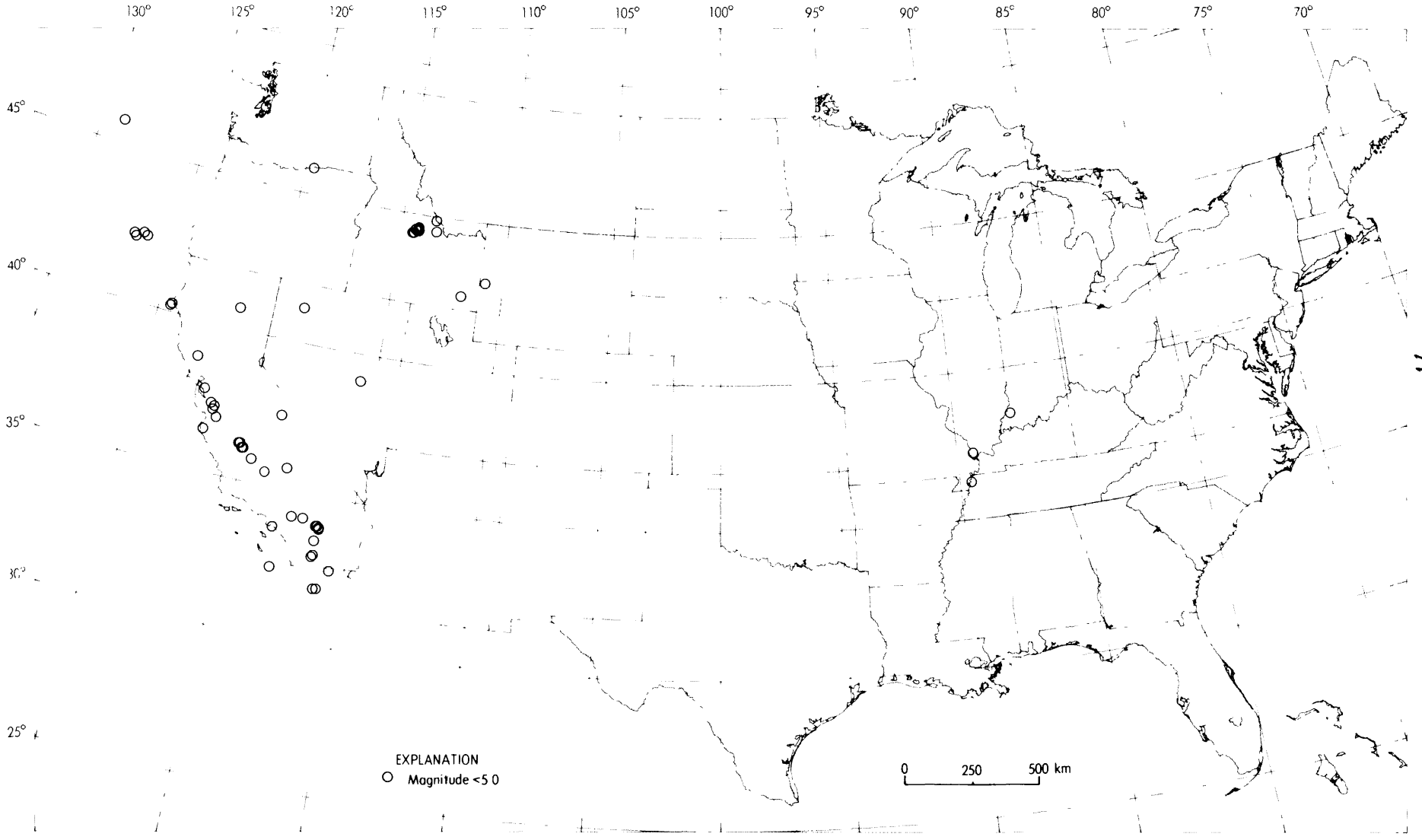
Compiled by Willis S. Jacobs, John H. Minsch, Russell E. Needham, Waverly J. Person, Bruce W. Presgrove and William H. Schmieder.

03 February 1985 04:50:55.24
Tonga Islands

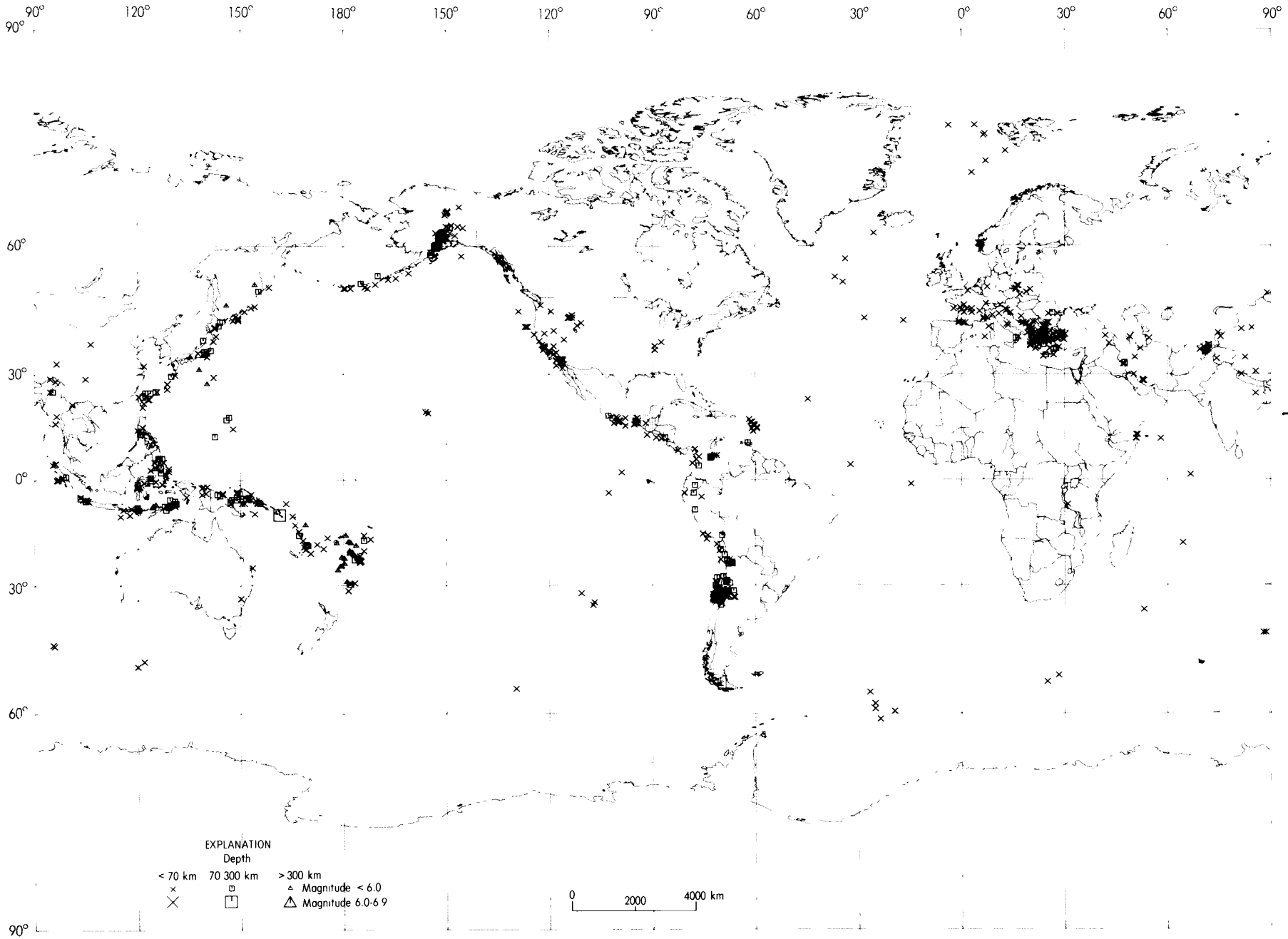


28 February 1985 20:53:47.86
Ryukyu Islands

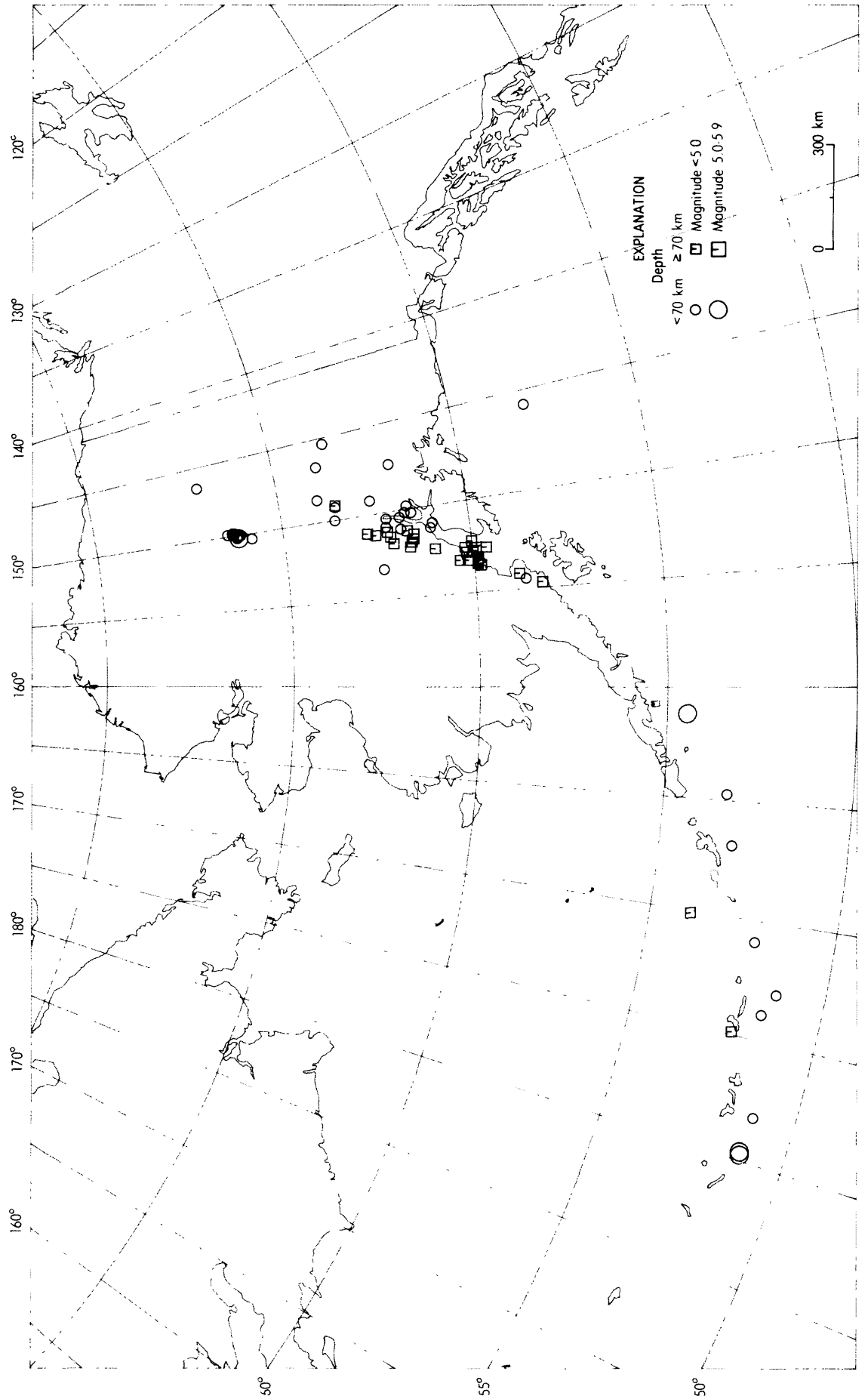




Earthquake epicenters in the conterminous United States and adjacent regions for February, 1985 (C. Stover).



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



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

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PRELIMINARY DETERMINATION OF EPICENTERS

MONTHLY LISTING

U.S. DEPARTMENT OF THE INTERIOR / GEOLOGICAL SURVEY

National Earthquake Information Center

M A R C H 1 9 8 5

KEY	DAY	ORIGIN TIME UTC HR	MN	SEC	GEOGRAPHIC COORDINATES LAT		LONG		DEPTH		MAGNITUDES GS MB	Msz	SD	NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
	01	00	01	21.3	6.825	N	73.052	W	136	*			0.6	10	NORTHERN COLOMBIA
	01	00	15	40.7	39.848	N	22.655	E	10	G			0.5	6	GREECE. ML 3.4 (ATH).
	01	02	35	06.5	39.329	N	141.923	E	62		5.0		0.9	108	HONSHU, JAPAN. Felt (III JMA) at Ofunato, Miyako and Morioka, (II JMA) at Hachinohe, and (I JMA) at Ishinomaki.
	01	02	51	06.6%	31.405	S	67.985	W	33	N			0.6	5	SAN JUAN PROVINCE, ARGENTINA
	01	02	59	33.9	38.035	N	43.077	E	10	G	4.2	3.8	1.1	13	TURKEY
	01	04	30	13.2	61.826	N	26.826	W	10	G	4.6		0.9	46	ICELAND REGION
	01	05	19	19.6	61.915	N	26.928	W	10	G	4.8	4.5	1.0	86	ICELAND REGION
a	01	05	54	50.4	29.150	N	130.332	E	44		5.4	5.4	1.1	208	RYUKYU ISLANDS. Felt (I JMA) at Naze.
	01	06	36	49.4?	34.97	S	70.13	W	157	?			0.3	7	CHILE-ARGENTINA BORDER REGION
	01	06	58	59.4	4.021	N	78.610	W	33	N	5.2	4.3	1.1	148	SOUTH OF PANAMA
a	01	08	14	52.1	28.382	N	130.879	E	41	D	5.2		1.1	117	RYUKYU ISLANDS. Felt (I JMA) at Naze.
	01	08	47	17.4	9.395	N	126.428	E	33	N	4.5		0.9	14	MINDANAO, PHILIPPINE ISLANDS
	01	09	19	21.4*	57.337	N	126.315	E	33	N	4.4		1.5	13	EASTERN USSR
	01	11	18	43.2	37.335	N	70.900	E	33	N	4.1		0.6	10	AFGHANISTAN-USSR BORDER REGION
	01	11	26	15.7*	47.907	N	7.785	E	10	G			0.9	9	SWITZERLAND. ML 3.1 (LDG).
	01	11	30	51.9?	33.11	S	71.53	W	33	N			1.5	5	NEAR COAST OF CENTRAL CHILE
	01	11	38	24.9	6.752	N	73.004	W	166		4.7		1.1	67	NORTHERN COLOMBIA. Felt at Bogota.
	01	12	34	14.5	47.926	N	7.803	E	10	G			0.8	9	SWITZERLAND. ML 3.1 (LDG).
a	01	12	52	07.1	2.092	S	119.595	E	33	N	5.2	5.8	1.3	86	SULAWESI. Felt (III) at Polu.
	01	16	30	26.8?	41.21	N	4.06	E	10	G			0.3	5	WESTERN MEDITERRANEAN SEA. ML 3.2 (LDG).
	01	16	50	09.0	32.742	S	68.585	W	5	G			1.0	8	MENDOZA PROVINCE, ARGENTINA
a	01	17	11	17.5	2.082	S	119.670	E	17		5.7	6.4	1.3	193	SULAWESI
	01	18	40	52.2	2.079	S	119.746	E	33	N	5.1		1.0	42	SULAWESI
	01	19	31	48.8?	2.48	S	119.54	E	33	N	4.9		1.0	8	SULAWESI
	01	20	53	53.6*	36.676	N	71.593	E	33	N	4.4		1.1	10	AFGHANISTAN-USSR BORDER REGION
	01	21	35	54.4*	2.145	S	119.647	E	33	N	4.7		0.3	6	SULAWESI
	01	21	48	17.4	46.178	N	6.753	E	10	G			1.3	8	SWITZERLAND. ML 2.5 (LDG).
	01	21	49	06.6	62.557	N	149.818	W	90	?			0.6	9	CENTRAL ALASKA
	01	21	54	23.5	2.236	S	119.613	E	33	N	4.9		1.3	34	SULAWESI
	01	22	01	45.7*	2.415	S	119.393	E	33	N	5.1		0.8	10	SULAWESI
	01	22	21	45.0	2.122	S	119.556	E	33	N	5.4	5.4	1.2	61	SULAWESI
a	01	22	22	11.5	2.200	S	119.560	E	33	N	5.5	5.5	1.2	89	SULAWESI
	01	22	26	56.2?	33.35	S	71.28	W	33	N			1.2	6	NEAR COAST OF CENTRAL CHILE
	01	23	08	44.1&	59.060	N	151.160	W	69					30	KENAI PENINSULA, ALASKA. <AGS-P>.
	01	23	33	28.9&	44.797	N	110.773	W	4					21	YELLOWSTONE NATIONAL PARK, WYO. <SLC>. ML 3.6 (NEIS).
	01	23	45	53.3&	44.798	N	110.775	W	5					22	YELLOWSTONE NATIONAL PARK, WYO. <SLC>. ML 3.9 (NEIS). Felt (IV) at Yellowstone National Park.
	02	00	08	27.4	2.165	S	119.681	E	33	N	5.1		1.0	24	SULAWESI
	02	00	27	11.4&	60.349	N	152.418	W	90					34	SOUTHERN ALASKA. <AGS-P>.
	02	01	00	20.5*	33.353	S	71.628	W	33	N	4.3		1.3	10	NEAR COAST OF CENTRAL CHILE
	02	02	02	44.9*	31.630	S	68.725	W	10	G			0.5	6	SAN JUAN PROVINCE, ARGENTINA
	02	02	14	13.6*	2.158	S	119.649	E	33	N	4.5		0.7	5	SULAWESI
	02	03	48	42.3*	2.128	S	119.761	E	33	N	4.8		0.3	6	SULAWESI
	02	04	19	09.6	44.809	N	110.822	W	5	G			0.8	14	YELLOWSTONE NATIONAL PARK, WYO. ML 3.3 (NEIS).
	02	04	46	24.0	44.785	N	110.826	W	5	G			0.9	9	YELLOWSTONE NATIONAL PARK, WYO. ML 3.0 (NEIS).
	02	05	22	39.0*	2.054	S	119.808	E	29		5.0		1.1	10	SULAWESI
	02	07	56	48.0*	5.944	S	131.232	E	33	N	4.8		1.5	6	BANDA SEA
a	02	08	45	25.8	30.655	N	132.605	E	31	D	5.3	5.0	1.0	138	SOUTHEAST OF SHIKOKU, JAPAN
	02	08	47	01.9?	19.32	N	144.80	E	33	N	5.0		1.0	15	MARIANA ISLANDS
	02	09	46	20.1&	60.007	N	152.224	W	88					33	SOUTHERN ALASKA. <AGS-P>.
	02	10	22	44.9?	38.85	N	27.03	E	10	G			0.7	5	TURKEY
	02	11	44	58.6	27.121	S	71.353	W	10	G	5.1		1.3	25	NEAR COAST OF NORTHERN CHILE
	02	11	51	44.1	2.195	S	119.617	E	47	*	5.1		0.9	21	SULAWESI
	02	12	48	29.2	12.205	S	166.621	E	140	*	5.1		0.9	68	SANTA CRUZ ISLANDS
	02	12	49	58.7&	60.280	N	152.923	W	129					28	SOUTHERN ALASKA. <AGS-P>.
	02	12	54	34.3	45.830	N	150.695	E	111	D	5.0		0.9	106	KURIL ISLANDS

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	02	15	09	06.0	46.042	N	14.187	E	10	G			0.2	6	YUGOSLAVIA. ML 2.3 (KBA), 2.2 (TRI).
a	02	15	47	33.4	1.964	S	119.727	E	44		5.8	6.7	1.2	222	SULAWESI. Felt (IV) at Palu.
	02	16	35	04.0?	29.68	S	69.47	W	160	?			0.6	9	CHILE-ARGENTINA BORDER REGION
	02	17	49	11.8	20.416	N	122.267	E	167		4.5		1.0	43	PHILIPPINE ISLANDS REGION
	02	18	27	55.2?	17.34	S	179.10	W	547	?	5.4		1.3	15	FIJI ISLANDS REGION
	02	18	57	55.0?	26.45	S	27.33	E	5	G			0.1	4	REPUBLIC OF SOUTH AFRICA
	02	22	16	05.5?	5.36	S	152.21	E	33	N	5.0		0.7	8	NEW BRITAIN REGION
	02	22	26	10.4*	1.990	S	119.829	E	33	N			0.8	9	SULAWESI
	02	22	43	19.8*	2.132	N	128.804	E	80	*	4.7		0.8	19	HALMAHERA
	02	23	20	53.0?	33.26	S	71.86	W	33	N			1.1	6	NEAR COAST OF CENTRAL CHILE
	02	23	46	10.9	40.403	N	26.183	E	10	G			1.1	7	TURKEY
	02	23	54	53.9	5.966	S	145.726	E	110	*	5.0		1.2	31	EAST PAPUA NEW GUINEA REGION
	02	23	58	46.4*	25.874	S	69.630	E	10	G	5.1		1.0	30	SOUTH INDIAN OCEAN
	03	01	26	09.4&	32.670	N	117.960	W	6	G				8	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.5 (PAS).
	03	02	57	23.3*	27.951	S	69.601	W	113	?			1.5	14	NORTHERN CHILE
	03	03	37	41.6*	11.695	S	116.785	E	33	N			1.2	5	SOUTH OF SUMBAWA ISLAND
	03	04	58	40.3	24.174	S	67.205	W	211	*	4.2		0.7	9	CHILE-ARGENTINA BORDER REGION
	03	05	52	27.0&	60.183	N	153.526	W	177					38	SOUTHERN ALASKA. <AGS-P>.
	03	05	55	45.7	23.767	N	121.528	E	10	G			0.5	7	TAIWAN
	03	06	26	49.0*	42.247	N	143.220	E	78	*	4.4		1.4	11	HOKKAIDO, JAPAN REGION. Felt (I JMA) at Urakawa.
	03	06	40	22.1*	25.504	S	69.688	W	33	N			0.8	5	NORTHERN CHILE
	03	07	29	25.7	38.784	N	31.070	E	24		3.9		1.0	20	TURKEY. Felt in the Eskisehir-Kutahya area.
	03	08	21	24.0&	37.162	N	121.563	W	5					13	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
	03	08	30	52.8?	3.17	N	128.99	E	33	N	5.1		1.5	9	NORTH OF HALMAHERA
	03	09	04	07.2	40.739	N	139.044	E	33	N	4.7		0.9	14	NEAR WEST COAST OF HONSHU, JAPAN
	03	10	42	01.7*	50.822	N	92.682	E	33	N	4.6		1.2	13	USSR-MONGOLIA BORDER REGION
	03	10	59	14.2&	57.626	N	156.634	W	107					53	ALASKA PENINSULA. <AGS-P>.
	03	12	15	17.0&	47.390	N	70.480	W	14					6	SOUTHERN QUEBEC. <OTT>. mbLg 3.2 (OTT). Felt at Baie St. Paul, Clermont, St. Hilarion and Ile aux Coudes.
	03	13	02	12.8*	39.255	N	33.161	E	10	G	4.2		1.2	28	TURKEY
	03	13	38	47.3	59.783	N	152.872	W	108		4.8		1.1	119	SOUTHERN ALASKA. Felt (IV) at Homer, Kasilof, Kalifansky, Kenai, Clam Gulch, Soldotna, Nikishka and Port Graham, (III) at Anchor Point, Anchorage, Girdwood and Whittier, and (II) at Palmer and Wasilla.
	03	13	54	59.0	31.886	N	56.179	E	35		4.9		0.9	89	IRAN. Slight damage in Yazd Province.
	03	14	40	01.2	19.935	N	62.480	W	33	N	4.5		0.9	27	LEEWARD ISLANDS
	03	16	17	02.4	3.455	S	146.809	E	33	N	5.3	4.8	1.1	33	BISMARCK SEA
	03	16	26	41.0*	37.656	N	71.804	E	33	N	4.3	4.3	1.5	7	AFGHANISTAN-USSR BORDER REGION
	03	16	27	18.2?	37.01	N	22.03	E	33	N	3.7		1.1	7	SOUTHERN GREECE. ML 3.1 (ATH).
	03	22	09	13.6?	4.68	S	101.97	E	33	N	4.9		1.2	6	SOUTHERN SUMATERA
	03	22	46	56.8	33.107	S	71.737	W	33	N	5.5		1.1	118	NEAR COAST OF CENTRAL CHILE. Foreshock.
f	03	22	47	07.2	33.135	S	71.871	W	33	N	6.7	7.8	1.0	146	NEAR COAST OF CENTRAL CHILE. Ms 7.5 (BRK). At least 177 people killed, 2,575 injured and extensive damage in central Chile, including the cities of San Antonio, Valparaiso, Vina del Mar, Santiago and Rancagua. Maximum intensity VIII in the Valparaiso area. Liquefaction occurred in saturated beach dune sands in the Vina del Mar and San Antonio areas. Reports of extensive ground cracks and subsidence throughout most of the epicentral area. Numerous landslides in the coastal mountains. Felt in Chile along a 2,000 kilometer strip from Copiapo to Valdivia. Felt (VI) at Mendoza and (V) at San Juan, Argentina. Also felt by people in high-rise buildings in Buenos Aires, Argentina and Sao Paulo, Brazil. Tsunami generated with wave heights at selected tide stations as follows: 1.1 m at Valparaiso; 48 cm at Hilo, Hawaii; 15 cm at Sand Point, Alaska; 12 cm at Adak, Alaska; 11 cm at Rikitea, Gambier Islands; 10 cm at Papeete, Tahiti; 10 cm at Kushiro, Nemuro and Miyako, Japan; 5 cm at Seward, Alaska; 4 cm at Kodiak, Alaska; and 3 cm at Honolulu and Pearl Harbor, Hawaii.
	03	23	38	31.4	32.738	S	71.215	W	33	N	6.3	6.4	1.3	127	NEAR COAST OF CENTRAL CHILE. Ms 7.0 (BRK). Felt (IV) at Santiago.
	04	00	11	45.4	32.935	S	71.477	W	33	N	5.9		1.0	77	NEAR COAST OF CENTRAL CHILE
	04	00	27	45.8*	33.141	S	71.627	W	29	D	5.5		0.8	36	NEAR COAST OF CENTRAL CHILE
a	04	00	32	21.8	33.207	S	71.663	W	33	N	6.0	6.7	1.0	111	NEAR COAST OF CENTRAL CHILE
	04	00	40	12.0*	33.580	S	71.929	W	33	N	5.3		0.7	34	NEAR COAST OF CENTRAL CHILE
	04	00	46	08.0*	33.360	S	72.043	W	33	N	5.2		0.7	55	OFF COAST OF CENTRAL CHILE
	04	01	07	55.8*	33.306	S	72.257	W	33	N	5.3		1.1	38	OFF COAST OF CENTRAL CHILE
	04	01	16	15.9	33.248	S	72.051	W	33	N	5.1		0.8	45	OFF COAST OF CENTRAL CHILE
	04	01	49	47.3	33.135	S	72.043	W	33	N	5.4		0.9	90	OFF COAST OF CENTRAL CHILE
	04	02	08	03.9	33.147	S	72.053	W	33	N	5.2		0.9	41	OFF COAST OF CENTRAL CHILE
	04	02	29	59.2*	34.061	S	71.781	W	33	N	4.9		1.1	16	NEAR COAST OF CENTRAL CHILE
	04	02	32	14.6	46.492	N	13.258	E	10	G			0.9	17	AUSTRIA. ML 3.4 (FUR), 3.4 (GRF), 3.4 (VKA), 2.7 (TRI), 2.6 (KBA). Felt (IV) at Paularo, Italy.
	04	02	56	09.6	33.244	S	72.030	W	33	N	5.2		1.0	38	OFF COAST OF CENTRAL CHILE
	04	02	57	41.7*	34.249	S	72.095	W	33	N	5.1		0.9	37	NEAR COAST OF CENTRAL CHILE
	04	03	17	54.4	34.115	S	71.905	W	33	N	5.8	6.2	1.1	119	NEAR COAST OF CENTRAL CHILE
	04	03	21	49.3*	38.777	N	73.987	E	33	N	4.5		1.5	9	TAJIK-XINJIANG BORDER REGION
	04	03	32	49.1	32.925	S	71.793	W	33	N	5.7	6.6	1.1	111	NEAR COAST OF CENTRAL CHILE
	04	05	12	03.8&	33.770	N	116.940	W	12					5	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS). Felt at Hemet.
a	04	06	06	56.8	33.825	S	71.930	W	33	N	5.6	6.0	0.8	130	NEAR COAST OF CENTRAL CHILE
	04	06	10	29.3*	33.223	S	71.918	W	33	N	5.6		1.0	54	NEAR COAST OF CENTRAL CHILE
	04	06	17	51.4	33.142	S	71.997	W	33	N	5.5	6.3	1.1	61	NEAR COAST OF CENTRAL CHILE
	04	07	10	38.1*	28.073	N	139.990	E	417	*	4.7		0.8	25	BONIN ISLANDS REGION
	04	07	22	35.2	34.138	S	71.912	W	33	N	4.8		1.0	34	NEAR COAST OF CENTRAL CHILE
	04	07	41	26.9*	34.057	S	71.778	W	33	N	5.0		1.1	24	NEAR COAST OF CENTRAL CHILE
	04	07	45	09.9?	32.99	S	71.72	W	33	N	4.7		1.4	11	NEAR COAST OF CENTRAL CHILE
	04	08	04	23.6*	41.983	N	140.000	E	33	N	5.0		0.5	8	HOKKAIDO, JAPAN REGION
	04	08	28	43.0&	60.118	N	153.048	W	116					17	SOUTHERN ALASKA. <AGS-P>.
	04	08	31	21.8	54.938	N	161.852	E	33	N	5.1		0.8	83	NEAR EAST COAST OF KAMCHATKA

	04	08	33	50.0*	34.273	S	72.113	W	33	N	4.7	1.0	16	NEAR COAST OF CENTRAL CHILE
	04	08	36	22.3*	32.983	S	71.467	W	33	N	4.7	1.1	20	NEAR COAST OF CENTRAL CHILE
	04	08	39	39.9*	34.027	S	71.670	W	33	N	5.1	1.1	18	NEAR COAST OF CENTRAL CHILE
	04	09	21	11.1*	33.423	S	71.685	W	33	N	4.8	0.6	13	NEAR COAST OF CENTRAL CHILE
	04	09	26	06.9	40.584	N	27.462	E	10	G		0.9	13	TURKEY
	04	09	32	25.3	5.094	N	125.340	E	206	*	5.2	1.1	43	MINDANAO, PHILIPPINE ISLANDS
	04	09	41	46.8*	33.331	S	71.708	W	33	N	4.6	1.1	14	NEAR COAST OF CENTRAL CHILE
	04	10	09	18.5*	33.821	S	71.458	W	33	N	4.4	1.3	14	NEAR COAST OF CENTRAL CHILE
	04	10	51	57.3%	60.678	N	5.936	E	10	G		0.8	5	SOUTHERN NORWAY. DUR 1.8 (BER).
	04	11	51	10.8&	33.990	N	118.580	W	6	G			8	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS). Felt at Malibu and Santa Monica.
	04	12	02	36.2	32.913	S	71.756	W	33	N	5.1 5.0	1.0	53	NEAR COAST OF CENTRAL CHILE
	04	12	53	08.2%	40.014	N	29.522	E	10	G		0.6	5	TURKEY
	04	12	59	41.6	32.798	S	72.241	W	33	N	4.7	1.0	10	OFF COAST OF CENTRAL CHILE. Felt (I) at Mendoza, Argentina.
	04	13	00	58.4	33.222	S	71.973	W	33	N	5.4 5.4	1.3	30	NEAR COAST OF CENTRAL CHILE. Felt (I) at Mendoza, Argentina.
a	04	13	49	29.8	33.916	S	72.283	W	29	D	5.3 5.5	1.2	92	OFF COAST OF CENTRAL CHILE. Felt strongly in central Chile. Felt (II) at Mendoza, Argentina.
	04	14	13	00.6%	58.572	N	6.160	E	10	G		0.5	6	SOUTHERN NORWAY. DUR 2.6 (BER).
	04	14	56	36.1%	60.306	N	5.279	E	10	G		0.1	5	SOUTHERN NORWAY. DUR 2.2 (BER).
a	04	15	01	07.0	33.842	S	71.249	W	40	D	6.0 6.0	1.0	259	NEAR COAST OF CENTRAL CHILE. Felt (IV) at Santiago. Felt (V) at Mendoza, Argentina.
	04	15	05	10.3%	60.301	N	5.189	E	10	G		0.3	5	SOUTHERN NORWAY. DUR 1.9 (BER).
	04	16	22	30.1?	39.56	N	28.70	E	10	G		0.9	6	TURKEY
	04	17	00	09.7	34.221	S	72.262	W	33	N	5.4 5.3	1.0	125	NEAR COAST OF CENTRAL CHILE
	04	17	09	58.0	34.079	S	72.331	W	33	N	5.3 5.7	1.0	45	NEAR COAST OF CENTRAL CHILE
	04	17	19	42.5*	33.761	S	72.252	W	33	N	4.7	1.2	11	OFF COAST OF CENTRAL CHILE
	04	18	12	40.9	33.913	S	72.210	W	33	N	5.4 5.4	1.0	81	OFF COAST OF CENTRAL CHILE
a	04	19	03	06.8	32.878	S	71.818	W	33	N	5.6 6.0	1.2	123	NEAR COAST OF CENTRAL CHILE. Ms 5.9 (BRK).
	04	19	32	16.9?	33.79	S	71.34	W	33	N	4.4	1.4	10	NEAR COAST OF CENTRAL CHILE
	04	19	33	40.7?	19.56	N	115.27	W	10	G	3.8	0.8	7	EAST CENTRAL PACIFIC OCEAN
	04	19	43	16.0	33.546	S	71.932	W	33	N	5.1	1.2	48	NEAR COAST OF CENTRAL CHILE
	04	20	40	08.3*	5.031	S	153.126	E	33	N		1.5	6	NEW IRELAND REGION
	04	20	40	36.1?	41.67	S	73.87	W	33	N	3.7	1.1	11	NEAR COAST OF SOUTHERN CHILE
	04	21	07	56.3*	33.969	S	72.058	W	33	N	5.1	1.4	25	OFF COAST OF CENTRAL CHILE
	04	21	30	45.6?	33.80	S	72.00	W	33	N	3.3	0.8	6	NEAR COAST OF CENTRAL CHILE
	04	22	11	13.8	15.289	N	92.565	W	103	D	5.0	1.1	80	MEXICO-GUATEMALA BORDER REGION. Felt at Villahermosa, Tapachula and Simajovel, Mexico.
	04	23	48	24.6*	41.851	S	88.455	E	10	G	5.4	1.1	31	SOUTHEAST INDIAN RISE
	04	23	56	05.4*	32.567	S	72.252	W	33	N	4.4	1.2	14	OFF COAST OF CENTRAL CHILE
	05	00	02	58.8&	38.657	N	122.797	W	4				14	NORTHERN CALIFORNIA. <BRK>. ML 2.7 (BRK).
	05	00	22	55.4?	32.25	S	71.57	W	33	N	2.6	1.9	6	NEAR COAST OF CENTRAL CHILE
	05	00	48	52.9*	54.679	S	136.576	W	10	G	5.5 5.6	0.9	40	SOUTH PACIFIC CORDILLERA
	05	01	01	34.4*	19.076	S	177.371	W	399	*	4.7	0.7	28	FIJI ISLANDS REGION
	05	03	05	40.6*	4.028	S	142.031	E	92	?	4.9	0.7	11	PAPUA NEW GUINEA
	05	03	34	50.1?	33.45	S	71.79	W	33	N	3.6	1.5	8	NEAR COAST OF CENTRAL CHILE
	05	04	14	48.6	15.918	N	122.189	E	49		5.2	0.7	28	PHILIPPINE ISLANDS REGION
	05	04	18	07.6?	32.67	S	71.48	W	33	N	3.2	0.2	5	NEAR COAST OF CENTRAL CHILE
	05	04	37	21.7?	33.17	S	72.15	W	33	N	3.1	1.4	6	OFF COAST OF CENTRAL CHILE
	05	05	15	31.0&	34.080	N	118.970	W	15				6	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS). Felt at Thousand Oaks.
	05	05	28	12.0*	2.269	S	119.731	E	33	N	5.1	1.3	25	SULAWESI
	05	05	43	35.1*	32.828	S	72.189	W	33	N	4.1	1.4	11	OFF COAST OF CENTRAL CHILE
	05	06	04	58.8	33.958	S	72.395	W	33	N	5.2 5.0	1.1	71	OFF COAST OF CENTRAL CHILE
	05	06	29	23.2	33.849	S	72.002	W	33	N	4.8	0.9	34	OFF COAST OF CENTRAL CHILE
	05	06	40	02.7*	21.978	S	68.779	W	167	*		1.1	8	CHILE-BOLIVIA BORDER REGION
	05	06	58	48.2	33.830	S	72.170	W	33	N	4.9	1.1	54	OFF COAST OF CENTRAL CHILE
	05	07	23	09.6*	32.725	S	72.010	W	33	N	4.2	1.5	9	OFF COAST OF CENTRAL CHILE
	05	07	33	37.3	32.666	S	71.711	W	33	N	5.1	0.8	76	NEAR COAST OF CENTRAL CHILE
	05	08	15	12.9?	6.48	S	147.71	E	78	*		1.3	19	EAST PAPUA NEW GUINEA REGION
	05	09	03	24.3*	42.980	S	87.545	E	10	G	4.9	0.8	17	SOUTHEAST INDIAN RISE
a	05	09	08	54.5	34.205	S	71.711	W	33	N	5.4 5.2	1.3	77	NEAR COAST OF CENTRAL CHILE
	05	09	49	25.6	26.836	N	126.443	E	10	G	4.8	1.1	15	RYUKYU ISLANDS
	05	10	10	56.1	27.895	N	94.027	E	33	N	4.2	0.6	10	EASTERN INDIA
	05	10	18	56.8?	7.58	N	103.30	W	10	G	4.4	0.8	12	OFF COAST OF MEXICO
	05	11	40	12.2?	23.00	N	120.22	E	33	N		1.6	5	TAIWAN
	05	11	41	43.6&	58.385	N	153.288	W	62		4.1		49	KODIAK ISLAND REGION. <AGS-P>.
	05	12	48	49.6	33.949	S	72.142	W	33	N	5.1	1.1	60	OFF COAST OF CENTRAL CHILE
a	05	13	40	10.2	1.192	N	122.826	E	33	N	5.6 6.0	1.2	127	MINAHASSA PENINSULA
	05	13	41	21.5*	34.690	N	135.561	E	139	*	4.2	1.4	12	NEAR S. COAST OF SOUTHERN HONSHU. Felt (II JMA) at Kyoto and (I JMA) at Osaka.
	05	14	01	02.3	45.665	N	178.802	E	33	N	5.3 5.7	1.0	145	ALEUTIAN ISLANDS REGION. Believed to be the largest instrumentally located earthquake in this area.
	05	14	08	07.9?	33.93	S	72.48	W	33	N	3.7	1.5	7	OFF COAST OF CENTRAL CHILE
	05	14	13	10.7	32.782	S	71.809	W	43	*	5.1	1.1	77	NEAR COAST OF CENTRAL CHILE
	05	14	14	09.7&	48.265	N	122.183	W	9				3	WASHINGTON. <SEA>. CL 3.1 (SEA). Felt.
	05	14	18	14.9&	36.273	N	120.338	W	8	G			12	CENTRAL CALIFORNIA. <BRK>. ML 2.9 (BRK).
	05	14	23	07.4*	33.405	S	72.295	W	33	N	4.5	1.5	17	OFF COAST OF CENTRAL CHILE
	05	15	37	55.6	35.547	N	1.438	E	10	G	5.0 4.4	1.3	174	ALGERIA. Felt.
	05	16	38	12.6	33.810	S	71.697	W	49		5.1	1.1	64	NEAR COAST OF CENTRAL CHILE
	05	17	19	38.7*	21.493	S	68.438	W	140	*	4.8	1.6	15	CHILE-BOLIVIA BORDER REGION
	05	18	10	45.1&	60.114	N	148.465	W	15				49	KENAI PENINSULA, ALASKA. <AGS-P>. ML 3.2 (PMR).
	05	18	16	35.6	63.248	N	149.109	W	128	?		0.4	8	CENTRAL ALASKA
	05	18	17	42.8*	33.987	S	72.176	W	33	N	4.4	1.5	19	OFF COAST OF CENTRAL CHILE
	05	19	06	36.7&	62.683	N	149.519	W	37				45	CENTRAL ALASKA. <AGS-P>. ML 3.3 (PMR).
	05	19	18	46.2?	6.97	S	129.18	E	174	?	4.4	1.5	9	BANDA SEA
	05	19	50	48.8*	33.367	S	71.892	W	33	N	3.0	1.3	7	NEAR COAST OF CENTRAL CHILE
	05	20	30	40.0	44.776	N	110.799	W	5	G		0.8	14	YELLOWSTONE NATIONAL PARK, WYO. ML 3.6 (NEIS).
	05	20	34	36.2?	44.77	N	110.68	W	5	G		0.3	6	YELLOWSTONE NATIONAL PARK, WYO. ML 3.2 (BUT).
	05	21	06	57.6*	6.916	S	129.410	E	192	*	4.6	1.3	19	BANDA SEA
	05	21	10	47.6*	34.114	S	72.091	W	33	N	4.5	1.5	18	NEAR COAST OF CENTRAL CHILE
	05	21	44	02.0*	33.006	S	72.017	W	33	N	4.0	1.3	10	OFF COAST OF CENTRAL CHILE

	05	21	46	31.3	33.182	S	72.301	W	33	N	5.4		1.1	32	OFF COAST OF CENTRAL CHILE
	05	22	06	43.9	45.641	N	26.500	E	164		3.2		0.6	18	ROMANIA
	05	22	59	32.3	51.622	N	16.319	E	14		4.7		0.6	17	POLAND. ML 3.7 (GRF), 3.5 (VKA).
	05	23	00	33.5	51.623	N	15.857	E	10	G			1.1	18	POLAND. ML 4.1 (VKA), 4.0 (KBA).
	05	23	03	54.3?	51.54	N	16.13	E	10	G			0.9	9	POLAND. ML 3.6 (KBA), 3.6 (VKA).
	06	00	46	27.4*	32.586	S	71.759	W	33	N	4.2		1.0	8	NEAR COAST OF CENTRAL CHILE
	06	01	06	18.7	2.164	S	119.731	E	33	N	5.0		1.1	61	SULAWESI
	06	01	11	48.8	38.981	N	24.927	E	10	G	3.9		1.1	30	AEGEAN SEA. ML 3.6 (ATH).
	06	01	12	03.8?	24.07	N	122.74	E	10	G			0.9	6	TAIWAN REGION
	06	01	39	26.4	62.734	N	149.415	W	33	N			1.0	10	CENTRAL ALASKA. ML 3.3 (PMR).
	06	01	52	25.0&	38.945	N	122.685	W	2	G				23	NORTHERN CALIFORNIA. <BRK>. ML 3.5 (BRK). Mo=1.0*10**22 (BRK). Felt (IV) in the Lower Lake-Kelseyville area. Felt throughout the Clear Lake area.
	06	01	55	38.4*	33.004	S	72.050	W	33	N	2.8		1.0	8	OFF COAST OF CENTRAL CHILE
	06	02	18	24.1*	33.697	S	71.345	W	33	N	3.3		0.8	11	NEAR COAST OF CENTRAL CHILE
	06	02	25	45.7?	32.49	S	71.30	W	33	N	3.9		1.9	7	NEAR COAST OF CENTRAL CHILE
	06	02	28	46.4?	32.91	S	72.37	W	33	N	4.0		1.0	6	OFF COAST OF CENTRAL CHILE
	06	03	14	44.1?	2.43	N	128.68	E	226	?	4.4		0.5	7	HALMAHERA
	06	03	23	00.4	18.586	S	69.449	W	126	D	4.8		1.1	20	NORTHERN CHILE
	06	03	58	03.8*	23.994	S	66.752	W	235	*			1.1	8	JUJUY PROVINCE, ARGENTINA
	06	04	33	14.6&	60.011	N	151.518	W	46					38	KENAI PENINSULA, ALASKA. <AGS-P>.
a	06	04	35	03.2	12.486	S	166.522	E	82	*	5.6		1.0	163	SANTA CRUZ ISLANDS
	06	05	08	38.5	39.029	N	25.009	E	10	G	3.8		1.3	22	AEGEAN SEA. ML 3.8 (ATH).
	06	05	20	00.5*	34.325	S	71.935	W	30	*	4.0		1.1	13	NEAR COAST OF CENTRAL CHILE
	06	05	45	20.6	49.793	N	29.072	W	10	G	4.5	4.9	1.0	76	NORTH ATLANTIC RIDGE
	06	06	10	28.4*	5.597	N	126.333	E	143	?	4.5		0.9	16	MINDANAO, PHILIPPINE ISLANDS
	06	06	17	59.3*	35.107	S	104.046	W	10	G	4.7		1.1	14	SOUTHERN PACIFIC OCEAN
	06	06	31	40.1	43.912	N	17.303	E	10	G			0.7	12	YUGOSLAVIA. ML 3.2 (TTG), 3.1 (KBA), 3.0 (TRI). Felt (V) at Livno.
	06	06	44	33.7&	37.283	N	121.677	W	5					12	CENTRAL CALIFORNIA. <BRK>. ML 2.7 (BRK). Mo=7.2*10**19 (BRK).
	06	07	58	42.9*	10.813	S	164.393	E	33	N	4.6		1.5	7	SANTA CRUZ ISLANDS REGION
	06	08	00	07.9?	33.48	S	72.38	W	33	N	2.8		1.0	7	OFF COAST OF CENTRAL CHILE
	06	10	16	44.8*	34.119	S	72.125	W	33	N	4.3		1.4	17	NEAR COAST OF CENTRAL CHILE
	06	10	18	22.8?	16.02	N	98.00	W	25		4.0		0.9	10	OAXACA, MEXICO
	06	11	16	36.4?	33.66	S	71.96	W	10	G			0.4	8	NEAR COAST OF CENTRAL CHILE
	06	12	44	55.5*	33.554	S	71.972	W	33	N	4.6		1.5	17	NEAR COAST OF CENTRAL CHILE
	06	13	32	15.8*	33.209	S	71.924	W	53	*	4.3		1.3	18	NEAR COAST OF CENTRAL CHILE
	06	15	24	17.4	33.968	S	72.504	W	33	N	4.7		1.1	19	OFF COAST OF CENTRAL CHILE
	06	15	48	00.3*	50.220	N	19.029	E	10	G			1.2	5	POLAND. ML 3.4 (KRA).
	06	16	33	50.8*	33.451	S	71.858	W	32	*	3.6		1.2	11	NEAR COAST OF CENTRAL CHILE
	06	18	21	32.6	33.434	S	72.428	W	33	N	4.9		1.3	32	OFF COAST OF CENTRAL CHILE
	06	18	27	44.2	29.469	N	68.758	E	33	N	4.7		1.5	21	PAKISTAN
	06	18	46	44.8	29.629	N	68.745	E	33	N	4.7	3.7	1.1	35	PAKISTAN
	06	19	19	05.9*	9.067	S	124.411	E	122	*	4.2		1.5	15	TIMOR
	06	21	14	44.9	29.527	N	68.613	E	33	N	4.3		1.2	23	PAKISTAN
	06	21	32	10.3*	32.935	S	71.907	W	33	N	4.8		1.4	19	NEAR COAST OF CENTRAL CHILE
	06	21	37	58.4&	61.505	N	150.624	W	74					41	SOUTHERN ALASKA. <AGS-P>. Felt at Willow and Talkeetna.
a	06	22	31	53.2	55.241	N	162.043	E	47	D	5.8	5.4	0.9	283	NEAR EAST COAST OF KAMCHATKA
	06	22	36	05.5?	37.06	N	8.55	W	10	G			2.6	5	PORTUGAL. Felt (IV) at Apraia da Rocha, (III) at Alvor, Ferragudo and Portimao, (II) at Lagos, Monchique and Silves.
	06	22	38	24.0&	61.997	N	150.449	W	10					43	SOUTHERN ALASKA. <AGS-P>. ML 4.1 (PMR). Felt at Willow, Talkeetna and Anchorage.
	06	22	54	41.4?	35.21	N	137.08	E	33	N			0.6	4	HONSHU, JAPAN. Felt (I JMA) at Gifu.
	06	22	59	41.9*	42.256	N	0.353	E	10	G			0.5	12	PYRENEES. ML 3.5 (LDG).
	06	23	20	44.7	10.494	S	161.556	E	116		5.0		1.0	32	SOLOMON ISLANDS
	07	00	26	02.1*	26.323	N	109.968	W	10	G	4.5		1.3	22	GULF OF CALIFORNIA
	07	00	39	03.8?	36.48	N	21.93	E	10	G	3.8	3.6	1.0	12	SOUTHERN GREECE. ML 3.8 (ATH).
	07	00	54	58.8*	21.687	S	66.922	W	33	N	3.9		1.3	9	SOUTHERN BOLIVIA
a	07	00	55	00.2	32.878	S	71.878	W	56	*	5.4	5.3	1.0	62	NEAR COAST OF CENTRAL CHILE
	07	01	56	05.5	32.989	S	72.123	W	33	N	5.3		1.1	56	OFF COAST OF CENTRAL CHILE
	07	02	54	35.0*	2.334	N	78.971	W	41	*	4.0		0.8	13	NEAR WEST COAST OF COLOMBIA
	07	04	33	57.8?	14.20	N	93.25	W	88	?	3.8		0.9	9	NEAR COAST OF CHIAPAS, MEXICO
	07	05	22	46.8	33.078	S	71.827	W	33	N	5.1		1.2	39	NEAR COAST OF CENTRAL CHILE
	07	05	55	19.7?	16.10	N	99.32	W	33	N			0.3	5	NEAR COAST OF GUERRERO, MEXICO
	07	06	29	53.8*	6.490	S	155.835	E	174		4.8		1.0	18	SOLOMON ISLANDS
	07	07	57	27.4	40.669	S	173.241	E	150		5.3		1.1	39	COOK STRAIT, NEW ZEALAND. Felt from New Plymouth to Christchurch.
	07	08	26	26.0*	42.046	N	19.740	E	10	G			0.4	7	YUGOSLAVIA. ML 2.5 (TTG).
	07	09	25	52.0	31.101	N	139.295	E	20	D	5.1	4.7	1.0	90	SOUTH OF HONSHU, JAPAN
	07	10	57	42.9	33.918	S	71.919	W	33	N	5.3		1.0	68	NEAR COAST OF CENTRAL CHILE
a	07	11	19	42.4	5.831	N	126.355	E	92		5.7		1.1	164	MINDANAO, PHILIPPINE ISLANDS. Felt (II RF) at Cogayan de Oro and General Santos.
	07	12	13	29.8%	60.623	N	5.130	E	10	G			0.6	5	SOUTHERN NORWAY. DUR 2.0 (BER).
	07	12	16	42.0	33.111	S	71.703	W	33	N	5.0		0.8	29	NEAR COAST OF CENTRAL CHILE
	07	12	42	23.4	30.968	N	139.276	E	33	N	4.5		1.0	41	SOUTH OF HONSHU, JAPAN
	07	12	43	02.6?	5.70	S	148.16	E	157	*			0.8	6	NEW BRITAIN REGION
	07	13	55	00.0&	38.798	N	122.870	W	5					15	NORTHERN CALIFORNIA. <BRK>. ML 2.8 (BRK).
	07	14	27	06.2	32.791	S	72.007	W	33	N	4.6		0.7	21	OFF COAST OF CENTRAL CHILE
	07	14	38	07.0*	15.606	S	167.440	E	138	*	4.2		1.0	34	VANUATU ISLANDS
	07	14	41	02.0*	0.353	S	133.254	E	33	N	5.0		0.5	7	WEST IRIAN REGION
	07	15	55	30.2?	2.57	S	101.99	E	154	*	4.6		1.0	11	SOUTHERN SUMATERA
	07	16	00	10.3*	33.861	S	72.088	W	33	N	4.8		1.3	15	OFF COAST OF CENTRAL CHILE
	07	16	52	32.2*	18.746	N	69.502	W	33	N			0.7	8	DOMINICAN REPUBLIC REGION
	07	17	04	50.3	22.471	S	179.248	E	588	*	4.9		1.1	39	SOUTH OF FIJI ISLANDS
	07	17	19	25.5?	33.62	S	73.83	W	33	N	3.3		0.8	5	OFF COAST OF CENTRAL CHILE
	07	18	09	51.6*	13.219	N	143.832	E	134	*	4.7		0.7	22	SOUTH OF MARIANA ISLANDS
	07	19	56	41.6	14.766	S	167.241	E	129	D	5.1		1.0	87	VANUATU ISLANDS
	07	20	47	31.1*	3.657	S	135.520	E	33	N	4.6		1.4	8	WEST IRIAN REGION
a	07	21	08	05.9	13.912	S	72.612	W	72		5.5		0.9	186	PERU
	07	21	16	57.1*	7.126	N	60.192	E	10	G	4.8	4.6	0.8	20	CARLSBERG RIDGE
	08	00	18	45.7*	16.077	N	98.206	W	5	G			0.7	6	NEAR COAST OF GUERRERO, MEXICO

a	08	00	24	41.9	4.386	S	106.879	E	631		5.4		0.8	206	SOUTHERN SUMATERA
	08	01	53	36.2?	32.85	S	73.55	W	33	N	3.6		1.4	5	OFF COAST OF CENTRAL CHILE
	08	02	28	56.8	26.348	N	129.644	E	35	*	4.8		0.9	32	RYUKYU ISLANDS
	08	02	49	23.0	33.026	S	71.863	W	33	N	5.0		1.0	60	NEAR COAST OF CENTRAL CHILE
	08	06	03	15.5*	1.318	N	122.809	E	57	?	5.0		1.4	13	MINAHASSA PENINSULA
	08	06	10	52.6%	40.570	N	28.882	E	10	G			0.8	6	TURKEY
	08	09	00	07.4?	16.05	N	98.65	W	33	N			1.3	9	NEAR COAST OF GUERRERO, MEXICO
	08	10	13	28.1*	46.306	N	13.254	E	10	G			1.1	7	AUSTRIA. ML 2.8 (TRI).
a	08	10	47	11.7	55.635	N	161.415	E	87	*	5.2		0.8	183	NEAR EAST COAST OF KAMCHATKA
	08	11	18	43.1?	52.11	N	17.20	E	10	G			0.4	8	POLAND
	08	12	54	59.6*	44.082	N	148.996	E	33	N	4.9		1.0	31	KURIL ISLANDS
	08	12	58	10.9%	40.005	N	27.389	E	10	G			0.7	5	TURKEY
	08	15	12	07.9*	29.755	S	70.439	W	33	N	3.9		1.2	6	CENTRAL CHILE
	08	15	34	11.6*	33.193	S	71.763	W	33	N	4.7		1.2	16	NEAR COAST OF CENTRAL CHILE
	08	17	06	50.7?	32.77	S	72.42	W	33	N	3.1		0.8	5	OFF COAST OF CENTRAL CHILE
	08	17	11	20.7*	33.023	S	72.667	W	33	N	3.0		0.5	7	OFF COAST OF CENTRAL CHILE
	08	17	37	06.6*	51.424	N	16.085	E	10	G			0.7	10	POLAND. ML 3.7 (VKA), 3.5 (KBA).
	08	17	48	24.6	29.976	S	177.110	W	33	N	4.9	5.1	0.9	47	KERMADEC ISLANDS
	08	18	03	31.5	39.330	N	23.306	E	10	G			1.2	18	AEGEAN SEA. ML 3.5 (ATH).
	08	18	14	57.4&	60.284	N	152.351	W	89					36	SOUTHERN ALASKA. <AGS-P>.
	08	18	50	42.8*	7.790	S	129.098	E	87	?	4.7		1.4	12	BANDA SEA
	08	19	10	37.3?	33.11	S	72.47	W	33	N	2.8		1.2	6	OFF COAST OF CENTRAL CHILE
	08	21	45	21.3	2.937	S	75.413	W	160		4.9		1.0	98	PERU-ECUADOR BORDER REGION
	08	21	47	34.8?	36.72	N	3.06	W	10	G			0.4	4	STRAIT OF GIBRALTAR. Felt (IV) at Berja, Spain.
	08	22	13	21.2?	33.29	S	72.02	W	10	G	2.7		1.2	5	OFF COAST OF CENTRAL CHILE
	08	22	17	08.2	43.033	N	110.734	W	5	G			0.4	8	WYOMING. ML 3.3 (NEIS), 3.4 (BUT).
	08	23	34	03.3*	51.080	N	15.736	E	10	G			1.1	10	POLAND. ML 3.3 (GRF), 3.2 (VKA), 3.2 (KBA).
	09	00	53	07.0?	33.63	S	71.82	W	33	N			0.9	9	NEAR COAST OF CENTRAL CHILE
a	09	01	21	12.3	33.040	S	179.099	W	33	N	5.5		1.2	55	SOUTH OF KERMADEC ISLANDS
a	09	01	54	00.7	32.980	S	179.136	W	18		5.3	5.0	1.0	41	SOUTH OF KERMADEC ISLANDS
	09	02	02	42.5	22.922	N	120.582	E	10	G			1.3	7	TAIWAN
	09	02	35	15.3*	33.172	S	71.713	W	10	G			0.5	11	NEAR COAST OF CENTRAL CHILE
	09	02	58	50.1*	13.524	N	121.855	E	33	N			0.7	5	MINDORO, PHILIPPINE ISLANDS. Felt (II RF) at Puerto Golero.
	09	04	20	27.7*	44.276	N	129.336	W	10	G	4.1		1.1	28	OFF COAST OF OREGON
	09	04	41	17.1?	33.15	S	71.96	W	10	G			0.2	6	NEAR COAST OF CENTRAL CHILE
	09	05	00	42.7	63.072	N	150.996	W	129	*	4.5		1.1	17	CENTRAL ALASKA
	09	05	32	41.7?	33.11	S	72.08	W	10	G			0.2	7	OFF COAST OF CENTRAL CHILE
	09	05	41	46.5*	32.810	S	72.147	W	33	N	4.0		1.5	11	OFF COAST OF CENTRAL CHILE
	09	06	10	46.8?	32.79	S	72.82	W	33	N			0.2	7	OFF COAST OF CENTRAL CHILE
	09	06	53	00.8?	32.80	S	72.22	W	33	N			0.6	5	OFF COAST OF CENTRAL CHILE
	09	07	05	08.4?	9.44	S	124.02	E	33	N			0.5	5	TIMOR
	09	08	16	12.9%	33.197	S	72.250	W	33	N			0.3	6	OFF COAST OF CENTRAL CHILE
	09	08	53	10.9*	33.185	S	73.088	W	33	N	3.0		0.4	9	OFF COAST OF CENTRAL CHILE
	09	09	58	48.4?	23.53	S	179.99	W	612	?	4.5		0.8	26	SOUTH OF FIJI ISLANDS
	09	12	07	14.9*	33.629	S	72.547	W	33	N			0.7	8	OFF COAST OF CENTRAL CHILE
	09	12	41	47.3?	33.59	S	71.75	W	33	N			1.0	8	NEAR COAST OF CENTRAL CHILE
	09	13	28	22.3*	16.549	S	72.631	W	33	N	4.7		1.3	8	NEAR COAST OF PERU
	09	13	57	58.1	66.261	N	150.240	W	10	G	4.6		1.3	53	ALASKA. ML 4.8 (PMR).
f	09	14	08	04.3	66.239	N	150.029	W	12	D	5.9	6.0	0.9	279	ALASKA. ML 6.0 (PMR), Ms 6.2 (BRK), 6.0 (PAS). Felt (V) at Bettles and Fairbanks. Felt (IV) at Alyeska Pump Station Six, Ester, Manley Hot Springs, Stevens Village and Tanana. Also felt at Anaktuvuk Pass, Nenana, North Pole, Wasilla and Willow.
	09	14	16	25.4	66.291	N	150.116	W	10	G	5.3		0.8	93	ALASKA. ML 5.4 (PMR). Felt at Bettles, Fairbanks and Alyeska Pump Station Six.
	09	14	29	25.3*	38.344	N	21.707	E	10	G			1.5	8	GREECE. ML 3.2 (ATH).
	09	15	11	43.5	33.702	S	72.304	W	33	N	5.1	5.8	1.2	107	OFF COAST OF CENTRAL CHILE
	09	15	20	00.2*	33.465	S	72.095	W	33	N	4.7		1.2	8	OFF COAST OF CENTRAL CHILE
	09	15	46	57.0	66.176	N	150.114	W	10	G	4.5		1.4	16	ALASKA
	09	15	48	01.7?	33.69	S	72.43	W	33	N	3.9		0.9	9	OFF COAST OF CENTRAL CHILE
a	09	16	07	05.7	2.935	N	127.367	E	52	*	5.3	5.0	1.1	74	MOLUCCA PASSAGE
	09	16	11	10.3?	66.22	N	150.11	W	10	G			1.5	6	ALASKA. ML 3.5 (PMR).
	09	16	17	49.4?	66.24	N	150.06	W	10	G			1.0	6	ALASKA. ML 3.8 (PMR).
	09	16	21	21.2*	66.335	N	149.795	W	10	G	4.4	4.8	1.3	14	ALASKA. ML 4.4 (PMR).
	09	16	44	02.5?	66.15	N	150.17	W	10	G			1.0	5	ALASKA. ML 3.4 (PMR).
	09	16	49	06.9*	66.284	N	149.966	W	10	G			1.1	10	ALASKA. ML 4.3 (PMR).
	09	17	00	40.2	13.016	N	143.929	E	120		4.7		0.6	24	SOUTH OF MARIANA ISLANDS
	09	17	26	41.7*	33.335	S	72.068	W	33	N	3.6		1.1	15	OFF COAST OF CENTRAL CHILE
	09	17	37	08.5*	66.184	N	150.061	W	10	G			1.0	8	ALASKA. ML 3.7 (PMR).
	09	17	53	18.0?	18.02	S	174.45	W	33	N	4.7		0.9	40	TONGA ISLANDS
	09	18	03	15.3*	66.285	N	149.908	W	10	G			1.0	10	ALASKA. ML 3.9 (PMR).
	09	18	19	30.5*	33.004	S	71.887	W	33	N	3.7		1.2	15	NEAR COAST OF CENTRAL CHILE
	09	18	32	21.2%	46.361	N	3.511	E	10	G			0.4	5	FRANCE. ML 2.8 (LDG).
	09	18	40	59.9*	66.337	N	149.845	W	10	G			0.9	13	ALASKA. ML 4.1 (PMR).
	09	19	09	46.9*	32.413	S	71.866	W	20	*	2.9		1.0	10	NEAR COAST OF CENTRAL CHILE
	09	19	30	41.6?	34.01	S	72.34	W	33	N	3.0		1.3	9	NEAR COAST OF CENTRAL CHILE
	09	19	35	33.9?	33.69	S	71.50	W	33	N			0.6	7	NEAR COAST OF CENTRAL CHILE
	09	19	36	50.0*	36.132	N	140.462	E	33	N			0.7	8	NEAR EAST COAST OF HONSHU, JAPAN
	09	19	49	56.6?	5.70	S	151.71	E	146	*	5.2		0.9	10	NEW BRITAIN REGION
	09	19	50	58.8	24.852	N	122.325	E	11		5.1		1.1	59	TAIWAN REGION. Felt on eastern Taiwan.
	09	19	53	07.7&	36.163	N	120.782	W	4					13	CENTRAL CALIFORNIA. <BRK>. ML 2.7 (BRK).
	09	19	59	24.7*	33.259	S	70.139	W	108	?			0.6	12	CHILE-ARGENTINA BORDER REGION
	09	20	10	16.9*	33.669	S	72.425	W	33	N	3.4		0.7	10	OFF COAST OF CENTRAL CHILE
	09	20	15	16.0*	66.259	N	150.071	W	10	G			1.1	9	ALASKA. ML 3.7 (PMR).
	09	20	16	04.0?	33.68	S	71.83	W	10	G			0.3	7	NEAR COAST OF CENTRAL CHILE
	09	20	26	01.3*	66.227	N	150.074	W	10	G			1.5	10	ALASKA. ML 3.7 (PMR).
	09	20	33	18.8*	33.468	S	72.461	W	33	N	4.3		1.1	11	OFF COAST OF CENTRAL CHILE
	09	21	29	52.8*	50.263	S	112.387	E	10	G	4.9		0.9	15	SOUTHEAST INDIAN RISE
	09	21	37	01.8*	66.354	N	150.044	W	10	G			1.3	11	ALASKA. ML 4.1 (PMR).
	09	21	50	28.3*	33.934	S	71.299	W	33	N			0.9	9	NEAR COAST OF CENTRAL CHILE
	09	22	08	56.1	26.862	S	176.981	W	102	*	5.0		1.0	65	SOUTH OF FIJI ISLANDS
	09	22	31	14.5?	32.77	S	72.46	W	33	N			0.4	8	OFF COAST OF CENTRAL CHILE

	09	22	34	47.7	66.148	N	150.196	W	10	G	4.8		1.0	42	ALASKA. ML 4.7 (PMR).
	10	00	10	12.2?	33.47	S	72.31	W	10	G			0.2	7	OFF COAST OF CENTRAL CHILE
	10	00	17	11.6*	32.857	S	71.871	W	33	N	3.1		1.3	13	NEAR COAST OF CENTRAL CHILE
	10	00	28	54.2?	66.16	N	150.09	W	10	G			1.0	5	ALASKA. ML 3.4 (PMR).
	10	00	51	00.1*	30.424	S	138.303	E	33	N			1.1	8	SOUTH AUSTRALIA
	10	01	18	41.4?	33.01	S	72.24	W	10	G			0.4	7	OFF COAST OF CENTRAL CHILE
	10	01	21	43.1*	66.229	N	149.916	W	10	G			1.0	7	ALASKA. ML 3.6 (PMR).
	10	01	25	26.9*	66.179	N	150.019	W	10	G			1.3	6	ALASKA. ML 3.4 (PMR).
	10	01	36	07.0?	33.76	S	71.59	W	10	G			0.8	8	NEAR COAST OF CENTRAL CHILE
	10	02	14	40.3*	34.357	S	70.194	W	10	G			0.5	8	CHILE-ARGENTINA BORDER REGION
	10	03	04	26.2*	28.453	S	178.303	W	212		5.2		1.1	24	KERMADEC ISLANDS REGION
	10	03	37	56.4	52.778	N	106.972	E	33	N	4.8		1.2	44	LAKE BAIKAL REGION. Felt (IV) at Sukhaya and Kudara and (III) at Irkutsk, Ulan-Ude, Tyrgana and Yelantsy.
	10	03	42	10.7?	33.53	S	71.45	W	33	N			1.5	8	NEAR COAST OF CENTRAL CHILE
	10	03	58	19.8	66.286	N	149.948	W	10	G			1.3	13	ALASKA. ML 4.4 (PMR).
	10	04	54	20.4?	33.40	S	71.43	W	33	N			1.0	9	NEAR COAST OF CENTRAL CHILE
o	10	05	01	45.2	0.641	S	123.288	E	71		5.2		1.2	88	MINAHASSA PENINSULA
	10	05	09	11.3	21.090	S	179.168	W	641	D	5.5		0.9	169	FIJI ISLANDS REGION
	10	05	34	38.8*	14.915	N	99.033	E	33	N			0.6	5	SOUTHEAST ASIA
	10	05	40	11.5*	66.121	N	149.862	W	10	G			0.8	6	ALASKA. ML 3.2 (PMR).
	10	05	41	19.1*	2.866	N	129.449	E	33	N	4.8		0.3	6	HALMAHERA
	10	05	48	57.9?	66.25	N	150.00	W	10	G			1.4	5	ALASKA. ML 3.3 (PMR).
	10	06	03	53.7	30.653	N	137.624	E	497		4.9		0.8	41	SOUTH OF HONSHU, JAPAN
	10	06	15	09.5%	35.304	N	139.698	E	33	N			0.8	5	NEAR S. COAST OF HONSHU, JAPAN
	10	06	15	13.2*	66.319	N	149.693	W	10	G			0.2	6	ALASKA. ML 4.0 (PMR).
	10	06	58	01.7	33.854	S	72.116	W	33	N	4.9		1.3	33	OFF COAST OF CENTRAL CHILE
	10	08	28	59.5*	16.090	N	105.259	W	10	G	4.7	4.2	1.2	41	OFF COAST OF MICHOACAN, MEXICO
	10	08	53	43.0	32.657	S	71.667	W	40		5.2		1.0	99	NEAR COAST OF CENTRAL CHILE
	10	09	01	46.0*	34.621	S	108.615	W	10	G	4.8		0.7	47	EASTER ISLAND CORDILLERA
	10	09	01	59.6*	33.759	S	71.261	W	33	N			0.5	8	NEAR COAST OF CENTRAL CHILE
	10	09	12	58.2*	66.242	N	150.003	W	10	G			1.3	8	ALASKA. ML 3.6 (PMR).
	10	09	42	30.3%	33.969	S	71.937	W	33	N			0.6	7	NEAR COAST OF CENTRAL CHILE
	10	09	53	25.3*	15.416	S	178.974	W	33	N	4.9	4.8	1.3	36	FIJI ISLANDS REGION
	10	10	01	20.1	16.323	N	99.076	W	23		4.6		1.1	31	NEAR COAST OF GUERRERO, MEXICO
	10	10	19	07.9?	66.50	N	149.50	W	10	G			1.1	8	ALASKA
	10	11	20	36.4?	15.84	N	99.32	W	30	?			1.2	7	OFF COAST OF GUERRERO, MEXICO
	10	11	35	49.5*	15.930	N	99.185	W	10	G	4.4		1.1	22	OFF COAST OF GUERRERO, MEXICO
	10	11	52	57.6*	66.236	N	149.950	W	10	G			1.0	7	ALASKA. ML 3.6 (PMR).
	10	12	10	48.5*	66.255	N	149.966	W	10	G			1.6	9	ALASKA. ML 4.3 (PMR).
o	10	13	30	29.5	66.136	N	150.148	W	10	G	5.2	4.9	0.9	136	ALASKA. ML 5.6 (PMR). Felt at Fairbanks.
	10	13	42	34.2*	2.148	N	129.057	E	33	N	5.1		0.8	13	HALMAHERA
	10	13	53	46.8?	66.03	N	150.21	W	10	G			1.3	4	ALASKA. ML 3.8 (PMR).
	10	13	59	45.8*	32.866	S	72.343	W	33	N	3.8		0.9	12	OFF COAST OF CENTRAL CHILE
	10	14	27	02.0*	66.278	N	150.195	W	10	G			1.3	7	ALASKA. ML 3.8 (PMR).
	10	14	52	05.4	38.618	N	24.762	E	14				1.4	15	AEGEAN SEA. ML 3.6 (ATH).
	10	15	16	55.4?	34.14	S	72.61	W	33	N	3.6		1.3	12	NEAR COAST OF CENTRAL CHILE
a	10	15	27	45.4	43.474	N	145.965	E	110		5.3		0.9	177	HOKKAIDO, JAPAN REGION. Felt (III JMA) at Nemuro and (I JMA) at Obihiro.
	10	16	10	12.5	39.558	N	20.926	E	10	G	3.5		1.3	15	GREECE-ALBANIA BORDER REGION. ML 3.9 (ATH).
	10	16	15	21.6	32.971	S	71.955	W	46	*	4.5		1.0	37	NEAR COAST OF CENTRAL CHILE
	10	16	28	32.7?	34.32	S	72.05	W	33	N			0.5	6	NEAR COAST OF CENTRAL CHILE
	10	17	19	13.5*	66.169	N	150.032	W	10	G			1.2	7	ALASKA. ML 3.9 (PMR).
	10	17	48	03.5*	33.850	S	71.994	W	10	G			0.5	7	NEAR COAST OF CENTRAL CHILE
	10	18	05	22.6*	34.750	S	70.366	W	10	G			1.1	8	CHILE-ARGENTINA BORDER REGION
	10	19	16	38.5*	66.280	N	150.021	W	10	G			1.3	8	ALASKA. ML 4.2 (PMR).
a	10	19	33	13.1	13.454	N	89.032	W	77		5.2		0.9	199	EL SALVADOR. Felt (V) at San Salvador.
	10	19	34	53.7*	33.614	S	71.602	W	10	G			0.5	9	NEAR COAST OF CENTRAL CHILE
	10	20	10	21.4?	32.91	S	72.27	W	10	G			0.2	7	OFF COAST OF CENTRAL CHILE
	10	20	38	27.6*	18.132	S	66.253	W	33	N			0.8	5	BOLIVIA
	10	22	01	13.2?	33.27	S	72.27	W	10	G			0.2	7	OFF COAST OF CENTRAL CHILE
	10	23	05	24.6*	66.187	N	150.018	W	10	G			0.8	6	ALASKA. ML 4.4 (PMR).
	10	23	08	24.6?	66.26	N	150.01	W	10	G	4.1		1.3	12	ALASKA
	10	23	19	21.1?	33.06	S	71.57	W	33	N			1.1	5	NEAR COAST OF CENTRAL CHILE
	10	23	51	51.0?	33.58	S	71.74	W	10	G			0.3	8	NEAR COAST OF CENTRAL CHILE
	11	01	03	41.4	12.133	N	88.783	W	33	N	4.3		1.1	16	OFF COAST OF CENTRAL AMERICA. Felt (III) at San Salvodor, El Salvador.
	11	01	26	45.9?	33.10	S	72.03	W	10	G			0.3	6	OFF COAST OF CENTRAL CHILE
o	11	03	01	21.0	36.418	N	141.010	E	50	D	5.2		1.0	179	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Fukushima, Onohama and Mito, (I JMA) at Tokyo, Chashi and Sendai.
	11	03	06	26.0	2.132	N	128.764	E	33	N	5.1		1.2	40	HALMAHERA
	11	03	10	39.2	2.072	N	128.849	E	33	N	5.4	5.2	1.1	62	HALMAHERA
	11	03	53	20.5*	32.888	S	71.850	W	57	*	4.8		1.3	24	NEAR COAST OF CENTRAL CHILE
o	11	05	11	06.9	2.005	N	128.861	E	54		5.2	5.3	1.3	88	HALMAHERA
	11	05	51	38.2?	33.07	S	71.41	W	33	N			1.1	8	NEAR COAST OF CENTRAL CHILE
	11	06	04	33.4&	42.992	N	110.788	W	0					9	WYOMING. <SLC>. DUR 2.9 (SLC).
	11	06	15	04.7*	25.316	S	179.812	E	517	*	4.9		1.0	38	SOUTH OF FIJI ISLANDS
	11	06	23	25.2&	43.006	N	110.774	W	1					6	WYOMING. <SLC>. DUR 2.4 (SLC).
	11	06	31	53.0*	3.194	N	84.186	W	33	N	4.4	4.4	1.2	15	OFF COAST OF CENTRAL AMERICA
	11	06	39	14.7*	33.283	S	71.606	W	66	*	3.5		1.4	19	NEAR COAST OF CENTRAL CHILE
	11	06	42	31.9&	43.019	N	110.852	W	6					17	WYOMING. <SLC>. ML 3.6 (NEIS), DUR 3.3 (SLC). Felt at Daniel.
	11	07	24	20.9&	42.988	N	110.794	W	0					5	WYOMING. <SLC>. DUR 2.6 (SLC).
	11	07	59	01.5*	28.847	N	139.467	E	427	*	4.2		0.7	16	BONIN ISLANDS REGION
	11	08	09	00.2&	60.124	N	153.344	W	139					24	SOUTHERN ALASKA. <AGS-P>.
	11	08	15	16.8*	33.294	S	72.301	W	33	N	3.3		1.4	19	OFF COAST OF CENTRAL CHILE
	11	08	19	56.7?	33.11	S	71.77	W	33	N			1.2	7	NEAR COAST OF CENTRAL CHILE
	11	08	41	58.0*	66.201	N	150.093	W	10	G			1.4	8	ALASKA. ML 3.3 (PMR).
	11	09	14	05.3?	33.07	S	71.85	W	33	N			0.8	6	NEAR COAST OF CENTRAL CHILE
	11	09	43	40.8*	66.120	N	150.076	W	10	G			0.9	6	ALASKA. ML 3.2 (PMR).
	11	10	02	53.0*	66.143	N	149.990	W	10	G			0.8	6	ALASKA. ML 3.2 (PMR).
	11	10	28	01.3%	39.321	N	29.731	E	10	G			0.7	5	TURKEY
	11	11	30	50.2	33.250	S	68.162	W	33	N	4.6		1.3	26	MENDOZA PROVINCE, ARGENTINA. Felt (IV) at Mendoza.

	11	12	21	01.0	13.689	N	144.957	E	119		5.0		1.0	41	MARIANA ISLANDS. Felt (III) on Guom.
a	11	12	26	10.4	10.378	N	125.587	E	103		5.5		1.0	125	LEYTE, PHILIPPINE ISLANDS. Felt (I RF) at Palo. Felt (II RF) at Cagayan de Oro, Mindanoo and Catarman, Somar.
	11	13	00	46.1	52.336	N	115.072	W	5	G			0.8	21	ALBERTA PROVINCE, CANADA. Felt 20 km south of Rocky Mountoin House.
	11	14	36	08.5*	31.252	N	77.045	E	33	N	4.8		1.5	24	NORTHERN INDIA
	11	15	01	50.6*	33.272	S	68.184	W	5	G			1.3	7	MENDOZA PROVINCE, ARGENTINA. Felt (II) at Mendozo.
	11	15	23	29.3%	60.243	N	5.484	E	10	G			0.9	5	SOUTHERN NORWAY. DUR 1.7 (BER).
	11	15	35	58.0?	66.20	N	149.90	W	10	G			0.0	4	ALASKA. ML 3.1 (PMR).
	11	16	43	02.8?	33.54	S	71.91	W	10	G			0.5	7	NEAR COAST OF CENTRAL CHILE
	11	17	11	37.7*	7.100	S	35.897	E	10	G	4.3		1.3	6	TANZANIA
	11	18	32	19.9%	46.291	N	3.558	E	10	G			0.6	5	FRANCE. ML 2.8 (LDG).
	11	20	34	43.7	38.901	N	24.813	E	11		4.2		1.4	15	AEGEAN SEA. ML 3.8 (ATH).
	11	21	19	08.2	49.085	N	6.614	E	11				0.8	22	GERMANY. ML 3.4 (LDG), 3.3 (KBA), 3.2 (GRF).
	11	22	32	47.4?	39.41	N	28.23	E	10	G			0.3	5	TURKEY
	11	22	34	40.8?	6.30	S	146.05	E	132	?			0.5	5	EAST PAPUA NEW GUINEA REGION
	11	23	26	38.1*	2.807	N	83.883	W	10	G	4.9	4.3	1.0	18	OFF COAST OF CENTRAL AMERICA
	12	00	01	25.8*	33.741	S	72.628	W	33	N			1.1	10	OFF COAST OF CENTRAL CHILE
	12	01	07	46.6?	33.06	S	72.58	W	33	N			1.5	5	OFF COAST OF CENTRAL CHILE
	12	02	05	10.1?	66.51	N	149.76	W	10	G			0.7	6	ALASKA. ML 3.5 (PMR).
	12	03	50	58.9?	14.52	N	94.60	W	33	N	4.3		1.4	20	OFF COAST OF CHIAPAS, MEXICO
	12	03	59	50.3&	60.323	N	152.434	W	93					22	SOUTHERN ALASKA. <AGS-P>.
	12	04	04	00.3&	37.295	N	121.687	W	6					12	CENTRAL CALIFORNIA. <BRK>. ML 3.3 (BRK). Mo=2.9*10**21 (BRK).
	12	04	57	32.7	46.164	N	27.191	E	10	G			1.1	7	ROMANIA
	12	05	01	52.2?	66.11	N	150.33	W	10	G			1.4	4	ALASKA. ML 3.2 (PMR).
	12	05	17	45.6	51.453	N	16.064	E	9				0.9	11	POLAND. ML 3.7 (VKA), 3.6 (GRF), 3.5 (KBA).
	12	06	12	31.0	2.213	S	119.692	E	48	*	5.2	4.4	1.1	63	SULAWESI
	12	06	22	45.2*	2.150	S	119.763	E	33	N	5.0		1.2	12	SULAWESI
	12	06	24	41.9&	62.684	N	152.060	W	119					32	CENTRAL ALASKA. <AGS-P>.
	12	06	41	08.9&	58.588	N	156.040	W	199					20	ALASKA PENINSULA. <AGS-P>.
	12	06	50	12.7*	2.29B	N	127.099	E	97	*	4.9		0.9	24	MOLUCCA PASSAGE
	12	06	55	43.8*	40.339	N	25.332	E	10	G			1.1	9	AEGEAN SEA
	12	07	13	36.4?	32.86	S	71.74	W	10	G			1.2	5	NEAR COAST OF CENTRAL CHILE
a	12	08	23	17.4	33.072	S	72.187	W	47	*	5.3	5.6	1.1	98	OFF COAST OF CENTRAL CHILE
	12	08	45	38.1?	66.35	N	149.85	W	10	G			1.1	6	ALASKA. ML 3.4 (PMR).
	12	09	03	58.3*	42.887	N	0.763	W	10	G			0.5	17	PYRENEES. ML 3.4 (LDG).
	12	09	37	11.9?	16.09	N	98.63	W	33	N			0.9	6	NEAR COAST OF GUERRERO, MEXICO
	12	09	51	08.9	39.433	N	23.987	E	27		4.7		1.1	94	AEGEAN SEA. ML 4.5 (ATH), 4.5 (TTG).
	12	10	15	42.3?	66.11	N	149.94	W	10	G			0.1	4	ALASKA
	12	10	44	00.0	33.277	S	72.361	W	33	N	4.8	5.2	1.2	28	OFF COAST OF CENTRAL CHILE
	12	10	52	52.0	30.137	S	177.285	W	10	G	5.0	5.2	1.3	30	KERMADEC ISLANDS. Felt (III) on Raoul Island.
	12	11	23	40.6*	66.247	N	149.944	W	10	G			0.7	8	ALASKA. ML 3.6 (PMR).
	12	12	42	32.7*	42.913	N	0.228	W	10	G			1.4	11	PYRENEES. ML 3.3 (LDG).
	12	13	19	47.7?	8.72	N	72.58	W	33	N			0.6	6	VENEZUELA
	12	13	32	15.2?	66.24	N	150.09	W	10	G			0.3	4	ALASKA
	12	13	33	14.5*	33.409	S	72.634	W	33	N	4.3		0.B	9	OFF COAST OF CENTRAL CHILE
	12	13	50	53.7?	56.12	N	161.27	E	33	N	4.5		1.1	13	NEAR EAST COAST OF KAMCHATKA
	12	16	23	26.6?	36.42	N	71.19	E	85	?	4.5		0.9	11	AFGHANISTAN-USSR BORDER REGION
	12	16	46	30.7*	37.278	N	141.320	E	49	*	4.3		0.6	18	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Miyako and (I JMA) at Morioka.
	12	17	38	01.8?	37.34	N	143.28	E	33	N			0.7	6	OFF EAST COAST OF HONSHU, JAPAN
	12	17	41	40.6&	61.320	N	149.764	W	43					34	SOUTHERN ALASKA. <AGS-P>.
	12	17	41	50.3&	31.860	N	114.960	W	6	G				12	GULF OF CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
	12	18	02	08.9	7.691	S	123.662	E	279		4.8		1.2	37	BANDA SEA
	12	18	05	06.4	40.124	N	21.577	E	10	G			0.8	13	GREECE
	12	18	06	01.3?	66.40	N	149.85	W	10	G			1.8	4	ALASKA. ML 3.4 (PMR).
	12	19	06	37.2	33.366	N	49.463	E	33	N	4.5		1.0	27	WESTERN IRAN
	12	20	12	30.6*	66.311	N	149.947	W	10	G			1.7	7	ALASKA. ML 4.1 (PMR).
	12	20	22	35.9*	66.302	N	149.986	W	10	G			1.0	10	ALASKA. ML 3.9 (PMR).
	12	20	37	50.2*	48.011	N	155.139	E	44	D	5.0	4.3	0.9	49	KURIL ISLANDS
	12	20	56	39.0&	60.099	N	152.740	W	89					21	SOUTHERN ALASKA. <AGS-P>.
	12	21	20	15.6*	6.740	S	129.515	E	170	*	4.9		1.0	22	BANDA SEA
	12	21	48	12.6	33.375	N	49.412	E	33	N	4.4		0.6	32	WESTERN IRAN
	12	22	06	38.0*	66.161	N	150.051	W	10	G			0.9	7	ALASKA. ML 4.4 (PMR).
	12	22	09	18.5*	3.863	S	129.789	E	10	G	5.0		1.3	7	CERAM
	13	00	01	58.9*	33.820	S	71.681	W	25				0.6	11	NEAR COAST OF CENTRAL CHILE
	13	00	16	51.6%	40.664	N	29.067	E	10	G			0.8	7	TURKEY
	13	00	26	40.4*	34.804	S	70.404	W	33	N			0.9	8	CHILE-ARGENTINA BORDER REGION
	13	00	42	23.4*	33.590	S	71.967	W	33	N			1.1	9	NEAR COAST OF CENTRAL CHILE
	13	00	59	09.4?	33.74	S	72.30	W	33	N			0.4	7	OFF COAST OF CENTRAL CHILE
	13	01	07	54.7?	33.84	S	72.61	W	33	N	3.0		0.6	7	OFF COAST OF CENTRAL CHILE
	13	01	37	04.8	2.153	N	128.835	E	4B	*	5.4	4.9	1.0	73	HALMAHERA
	13	02	02	25.4?	33.37	S	72.68	W	33	N			0.4	6	OFF COAST OF CENTRAL CHILE
	13	02	05	19.0*	33.404	S	73.171	W	33	N	3.6		1.5	16	OFF COAST OF CENTRAL CHILE
	13	02	35	10.9*	33.552	S	71.349	W	33	N			1.0	7	NEAR COAST OF CENTRAL CHILE
	13	02	42	35.2?	33.35	S	71.98	W	33	N			0.4	7	NEAR COAST OF CENTRAL CHILE
	13	03	12	55.4%	40.551	N	27.213	E	10	G			1.4	6	TURKEY
	13	04	18	34.9?	1.90	N	99.18	E	90	?			0.3	6	NORTHERN SUMATERA
	13	04	20	00.7?	21.08	S	6B.31	W	33	N			1.1	5	CHILE-BOLIVIA BORDER REGION
	13	04	47	40.0%	48.012	N	6.599	E	10	G			1.3	5	FRANCE. ML 2.7 (LDG).
	13	04	47	50.2?	48.06	N	6.68	E	10	G			1.7	5	FRANCE. ML 2.5 (LDG).
	13	05	03	22.0%	48.003	N	6.612	E	10	G			1.4	5	FRANCE. ML 2.3 (LDG).
	13	05	03	33.8?	33.33	S	71.85	W	33	N			0.4	5	NEAR COAST OF CENTRAL CHILE
	13	05	12	37.6?	33.93	S	71.31	W	33	N			0.2	5	NEAR COAST OF CENTRAL CHILE
	13	05	29	45.6*	33.638	S	71.215	W	33	N			0.8	6	NEAR COAST OF CENTRAL CHILE
	13	05	32	11.1?	14.55	S	166.16	E	33	N			1.2	14	VANUATU ISLANDS
	13	05	52	08.9?	32.03	S	72.00	W	33	N			0.2	5	NEAR COAST OF CENTRAL CHILE
	13	06	11	1B.0	51.28B	N	179.175	W	33	N	4.8		0.9	61	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.1 (PMR).
	13	06	13	02.9?	37.48	S	121.70	E	33	N			0.7	7	OFF SOUTH COAST OF AUSTRALIA
	13	06	36	03.2*	9.248	S	123.851	E	33	N	4.8		0.9	12	TIMOR
	13	08	58	49.6?	61.49	N	5.91	E	10	G			0.7	6	SOUTHERN NORWAY. DUR 2.6 (BER).

	13	10	00	27.3*	66.186	N	150.107	W	10	G		1.4	7	ALASKA. ML 3.9 (PMR).
	13	10	03	31.0*	66.280	N	149.962	W	10	G		1.0	10	ALASKA. ML 3.9 (PMR).
	13	10	08	27.8	23.894	N	121.887	E	10	G		0.3	8	TAIWAN
	13	10	22	33.9?	33.81	S	71.84	W	33	N		0.8	7	NEAR COAST OF CENTRAL CHILE
	13	10	44	07.0*	15.946	S	166.314	E	52	*		1.1	19	VANUATU ISLANDS
	13	11	29	56.4	23.471	N	120.948	E	10	G		0.9	7	TAIWAN
	13	11	34	09.3?	33.20	S	72.66	W	33	N		0.3	7	OFF COAST OF CENTRAL CHILE
	13	11	39	49.4	23.466	N	120.944	E	10	G		1.0	6	TAIWAN
	13	11	48	24.9	4.789	N	82.534	W	10	G	4.9 3.6	0.8	43	SOUTH OF PANAMA
	13	12	00	15.1*	42.870	N	23.970	E	10	G		1.1	5	BULGARIA
	13	12	01	26.0*	32.950	S	72.446	W	33	N		0.5	11	OFF COAST OF CENTRAL CHILE
	13	12	06	31.8*	24.387	N	121.947	E	10	G		0.2	6	TAIWAN
	13	12	42	11.1*	66.196	N	150.077	W	10	G	3.9	0.9	8	ALASKA. ML 4.0 (PMR).
	13	13	57	48.7*	25.594	S	179.364	W	438	?	4.7	1.1	12	SOUTH OF FIJI ISLANDS
	13	14	18	21.8*	45.119	N	23.053	E	10	G		0.9	7	ROMANIA
	13	14	25	06.2*	33.136	S	72.172	W	33	N	4.3	1.5	20	OFF COAST OF CENTRAL CHILE
	13	14	29	23.4*	34.544	N	140.708	E	33	N		0.9	9	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro.
	13	14	33	45.0	17.468	N	119.617	E	51	*	4.8	1.1	45	PHILIPPINE ISLANDS REGION. Felt (II RF) at Santa, Luzon.
	13	17	19	26.2&	33.200	N	116.060	W	2				6	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	13	17	56	06.2*	33.478	S	71.458	W	33	N		1.0	10	NEAR COAST OF CENTRAL CHILE
	13	19	02	22.4?	32.94	S	72.33	W	33	N		0.4	6	OFF COAST OF CENTRAL CHILE
f	13	19	34	57.6	43.510	N	127.561	W	10	G	6.1 6.3	1.1	300	OFF COAST OF OREGON. Felt (IV) at Cottage Grove and Powell Butte, Oregon. Felt (III) at Allegany, Creswell, Depoe Bay, Portland, Salem, Seal Rock, Springfield and Veneto, Oregon. Also felt (III) at Forks, Lebam, Neilton, Ryderwood and Tokeland, Washington.
	13	19	45	43.5	36.865	N	31.688	E	10	G		0.9	14	TURKEY
	13	20	11	31.6*	8.991	N	93.880	E	33	N	4.1	1.5	9	NICOBAR ISLANDS REGION
	13	20	16	18.0*	33.224	S	72.425	W	33	N	3.5	0.6	11	OFF COAST OF CENTRAL CHILE
	13	20	19	58.6*	43.711	N	127.526	W	10	G	4.2	1.0	9	OFF COAST OF OREGON
	13	20	24	55.9*	32.091	N	49.540	E	33	N	4.7	1.0	7	WESTERN IRAN. Felt in the Zard Kuh area.
	13	21	52	21.6	15.450	S	121.853	E	33	N		0.9	17	NORTHWEST OF AUSTRALIA
	13	22	03	37.9?	15.57	N	93.52	W	33	N		1.2	6	NEAR COAST OF CHIAPAS, MEXICO
	13	22	43	13.2*	66.292	N	150.013	W	10	G		1.6	7	ALASKA. ML 3.5 (PMR).
	13	22	50	33.0	23.510	N	120.957	E	10	G		0.8	8	TAIWAN
	13	23	08	24.0*	24.583	N	121.638	E	33	N		1.5	5	TAIWAN
	14	00	01	54.0	33.631	S	71.308	W	33	N		0.8	15	NEAR COAST OF CENTRAL CHILE
	14	00	45	55.7?	32.69	S	71.88	W	33	N		0.5	7	NEAR COAST OF CENTRAL CHILE
	14	01	21	38.3*	33.379	S	72.595	W	33	N	4.4	1.2	23	OFF COAST OF CENTRAL CHILE
	14	03	03	26.7?	0.43	S	128.73	E	33	N		0.8	6	HALMAHERA
	14	03	27	08.5*	32.786	S	72.086	W	33	N	3.2	1.4	13	OFF COAST OF CENTRAL CHILE
	14	03	44	31.6	32.946	S	71.666	W	9		4.7	1.1	25	NEAR COAST OF CENTRAL CHILE
	14	03	57	05.2*	32.873	S	72.162	W	33	N	3.7	1.6	16	OFF COAST OF CENTRAL CHILE
	14	03	59	58.7?	33.31	S	71.75	W	33	N		1.1	9	NEAR COAST OF CENTRAL CHILE
	14	04	03	30.3	55.977	S	26.467	W	33	N	5.6	0.8	31	SOUTH SANDWICH ISLANDS REGION
	14	04	38	57.8*	33.179	S	71.389	W	33	N		0.7	7	NEAR COAST OF CENTRAL CHILE
	14	04	49	00.9*	13.434	N	89.635	W	78	*	4.3	1.3	27	EL SALVADOR. Felt (III) at San Salvador.
	14	05	23	10.1*	35.591	N	27.558	E	33	N	3.9	0.8	10	DODECANESE ISLANDS
	14	05	31	41.8?	32.70	S	71.94	W	33	N		0.6	7	NEAR COAST OF CENTRAL CHILE
	14	05	53	13.8*	43.760	N	127.375	W	10	G	4.6	1.0	31	OFF COAST OF OREGON
o	14	06	26	58.8	23.726	S	179.924	W	525		5.0	0.9	139	SOUTH OF FIJI ISLANDS
	14	06	29	48.4?	33.06	S	69.12	W	5	G		1.6	5	CHILE-ARGENTINA BORDER REGION
	14	06	33	36.0*	23.565	S	179.869	E	536	*	4.6	0.9	24	SOUTH OF FIJI ISLANDS
	14	07	02	25.5*	7.757	S	108.786	E	165	?	4.3	1.5	18	JAVA
	14	07	11	20.2?	32.64	S	71.93	W	33	N		0.6	6	NEAR COAST OF CENTRAL CHILE
	14	07	18	58.0?	33.44	S	71.30	W	33	N		0.4	6	NEAR COAST OF CENTRAL CHILE
	14	07	28	30.9?	32.83	S	72.49	W	33	N		0.5	7	OFF COAST OF CENTRAL CHILE
	14	09	09	18.6	45.545	N	26.487	E	143	?		0.7	15	ROMANIA
	14	09	17	03.5*	5.897	S	154.344	E	10	G	5.2	1.0	9	SOLOMON ISLANDS
	14	09	49	03.5	7.283	N	126.894	E	55	*	5.0 4.8	1.1	54	MINDANAO, PHILIPPINE ISLANDS. Felt (I RF) at Cagayan de Oro.
	14	09	54	03.5?	33.84	S	72.72	W	33	N	3.0	0.9	10	OFF COAST OF CENTRAL CHILE
	14	10	38	24.5?	42.84	N	0.84	W	10	G		0.7	9	PYRENEES. ML 2.6 (LDG).
	14	11	04	05.2?	16.57	S	69.99	W	117	?		1.0	5	PERU-BOLIVIA BORDER REGION
	14	11	08	32.2?	14.69	N	98.44	W	33	N	4.1	1.4	9	OFF COAST OF GUERRERO, MEXICO
	14	11	35	40.1	38.692	N	27.680	E	29		4.3 3.5	1.3	53	TURKEY. ML 4.5 (ATH). Felt in the Izmir-Denizli area.
	14	11	44	30.7	25.091	S	70.835	W	40	*	5.1 4.5	1.1	47	NEAR COAST OF NORTHERN CHILE. Felt (III) at Antofagosta.
	14	13	46	16.6*	33.302	S	72.237	W	33	N	2.7	0.7	11	OFF COAST OF CENTRAL CHILE
	14	14	53	20.2?	62.97	N	179.77	E	33	N	4.4	1.6	10	EASTERN SIBERIA
	14	15	06	24.2	36.929	N	31.701	E	16		4.2	1.0	21	TURKEY
	14	15	14	16.5?	48.17	N	154.98	E	33	N	4.9	0.9	15	KURIL ISLANDS
	14	17	07	11.5?	33.25	S	72.45	W	33	N		0.3	7	OFF COAST OF CENTRAL CHILE
	14	17	17	19.9?	33.02	S	72.42	W	33	N		0.5	9	OFF COAST OF CENTRAL CHILE
	14	18	55	20.1*	33.196	S	71.804	W	33	N		1.0	13	NEAR COAST OF CENTRAL CHILE
	14	20	03	58.4	30.514	N	142.735	E	22	*	5.1	0.8	129	SOUTH OF HONSHU, JAPAN
	14	20	30	25.8*	33.529	S	71.708	W	33	N		1.3	10	NEAR COAST OF CENTRAL CHILE
	14	21	40	08.1?	33.85	S	71.88	W	33	N		1.2	10	NEAR COAST OF CENTRAL CHILE
	14	22	22	51.8&	61.401	N	147.216	W	30				45	SOUTHERN ALASKA. <AGS-P>.
	14	23	03	50.8	41.631	N	14.263	E	15		4.3	1.2	84	SOUTHERN ITALY. ML 4.3 (TRI), 4.2 (TTG), 4.1 (LDG). One person died of fright and slight damage (V) in Isernia Province.
	14	23	09	49.9?	33.15	S	73.17	W	33	N		0.4	10	OFF COAST OF CENTRAL CHILE
	14	23	21	18.9%	31.190	S	67.918	W	10	G		0.2	5	SAN JUAN PROVINCE, ARGENTINA
	14	23	25	22.6?	31.92	N	137.90	E	381	?	4.0	0.5	9	SOUTH OF HONSHU, JAPAN
	14	23	30	39.1*	33.029	S	71.642	W	33	N		1.2	10	NEAR COAST OF CENTRAL CHILE
	14	23	30	45.1	24.145	S	67.147	W	195	*		0.7	9	CHILE-ARGENTINA BORDER REGION
	14	23	33	58.7?	40.48	N	21.02	E	10	G	3.4	1.4	5	GREECE
	14	23	40	57.1	26.768	N	101.401	E	33	N	4.3	1.2	21	YUNNAN PROVINCE, CHINA
	15	00	14	09.0&	41.100	N	123.300	W	5	G			6	NORTHERN CALIFORNIA. <BRK>. ML 2.6 (BRK).
a	15	00	16	02.7	20.682	S	178.218	W	545		5.7	0.9	319	FIJI ISLANDS REGION

	15	01	42	25.6?	32.83	S	72.38	W	33	N		0.3	9	OFF COAST OF CENTRAL CHILE
	15	02	38	27.3*	33.425	S	71.711	W	33	N		1.1	14	NEAR COAST OF CENTRAL CHILE
	15	03	22	57.4	35.258	N	27.925	E	33	N	4.0	1.3	12	DODECANESE ISLANDS. ML 4.1 (ATH).
	15	03	24	45.9	38.846	N	24.955	E	10	G	4.0	1.1	32	AEGEAN SEA. ML 3.6 (ATH).
	15	03	47	48.7?	10.09	S	111.99	E	33	N	5.0	1.8	6	SOUTH OF JAVA
	15	04	06	07.6*	36.519	N	71.331	E	206	*	4.6	1.0	16	AFGHANISTAN-USSR BORDER REGION. Felt (IV) at Ishkashim, USSR.
	15	04	20	36.2?	32.95	S	72.51	W	33	N		0.6	8	OFF COAST OF CENTRAL CHILE
	15	04	43	56.6?	33.32	S	71.94	W	33	N		0.7	10	NEAR COAST OF CENTRAL CHILE
	15	04	50	31.9?	64.05	N	142.03	W	33	N		1.2	5	CENTRAL ALASKA. ML 4.0 (PMR).
	15	05	11	53.8?	33.41	S	72.54	W	33	N		1.6	10	OFF COAST OF CENTRAL CHILE
	15	05	14	48.7?	33.05	S	72.59	W	33	N		0.3	9	OFF COAST OF CENTRAL CHILE
	15	05	42	20.1*	66.141	N	149.974	W	10	G		0.6	5	ALASKA. ML 3.2 (PMR).
	15	06	21	06.0	49.614	N	150.594	E	275	?	4.5	0.8	28	NORTHWEST OF KURIL ISLANDS
	15	08	21	11.3*	33.814	S	71.976	W	33	N	3.0	1.0	14	NEAR COAST OF CENTRAL CHILE
	15	08	36	56.3%	40.080	N	27.795	E	10	G		0.4	7	TURKEY
	15	10	39	24.0*	45.674	N	26.593	E	154	?		0.8	12	ROMANIA
	15	12	33	58.2%	60.189	N	7.481	E	10	G		0.8	7	SOUTHERN NORWAY. DUR 2.6 (BER).
	15	13	12	47.3?	34.16	S	72.08	W	33	N		0.7	9	NEAR COAST OF CENTRAL CHILE
	15	13	19	46.8?	33.09	S	72.25	W	33	N		0.9	7	OFF COAST OF CENTRAL CHILE
	15	13	33	06.8?	66.02	N	149.92	W	10	G		0.0	4	ALASKA
	15	13	54	39.2?	31.83	S	67.04	W	10	G		1.4	5	SAN JUAN PROVINCE, ARGENTINA
	15	14	26	47.9*	12.320	N	120.950	E	33	N		0.6	5	MINDORO, PHILIPPINE ISLANDS
	15	15	28	13.8?	33.67	S	72.25	W	33	N		1.5	7	OFF COAST OF CENTRAL CHILE
	15	16	31	00.1&	37.058	N	116.045	W	0	G	4.8		99	SOUTHERN NEVADA. <DOE>. ML 4.6 (BRK). 37° 03' 29.06" N., 116° 02' 43.18" W., Surface Elev. 1238 m., Depth of Burial 427 m., Shot Time 163100.096, "VAUGHN", Nevada Test Site (Dept. of Energy).
	15	17	11	42.6%	32.683	N	104.645	E	10	G		0.3	5	SICHUAN PROVINCE, CHINA
	15	17	46	43.4%	60.798	N	5.038	E	10	G		1.1	5	SOUTHERN NORWAY. DUR 1.8 (BER).
	15	19	01	57.0	23.838	N	121.018	E	10	G		0.8	7	TAIWAN
	15	19	26	10.3*	40.157	N	20.650	E	10	G	3.6	1.6	21	GREECE-ALBANIA BORDER REGION. ML 3.9 (ATH).
	15	19	28	05.0?	6.11	N	126.33	E	165	*	3.6	1.0	11	MINDANAO, PHILIPPINE ISLANDS
	15	19	44	07.0*	6.602	S	130.233	E	178	*	4.5	1.4	11	BANDA SEA
	15	21	38	56.7	23.840	N	121.013	E	10	G		0.6	9	TAIWAN
	15	22	59	55.7?	0.69	N	98.88	E	84	?		0.6	5	NORTHERN SUMATERA
	15	23	31	06.8?	66.35	N	149.82	W	10	G		0.7	7	ALASKA. ML 3.3 (PMR).
	15	23	56	09.4	35.182	N	139.014	E	33	N	3.9	0.8	12	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajiro and (I JMA) at Mishima, Tateyama and on Oshima.
	16	00	39	53.6	41.507	N	20.405	E	10	G		0.7	6	ALBANIA. ML 2.5 (TTG), 2.4 (PVY).
	16	00	49	17.3?	33.24	S	71.66	W	33	N		1.5	7	NEAR COAST OF CENTRAL CHILE
	16	01	16	43.5?	49.01	S	121.51	E	10	G		1.1	16	SOUTH OF AUSTRALIA
	16	01	48	38.5*	33.784	S	71.838	W	33	N		1.3	21	NEAR COAST OF CENTRAL CHILE. Felt (II) at Santiago.
	16	02	21	24.5*	33.280	S	72.033	W	33	N	4.5	1.5	21	OFF COAST OF CENTRAL CHILE
	16	02	40	59.7?	32.65	S	73.17	W	33	N		0.4	9	OFF COAST OF CENTRAL CHILE
	16	03	21	52.3?	33.07	S	72.93	W	33	N		0.1	5	OFF COAST OF CENTRAL CHILE
	16	03	59	59.3?	32.94	S	72.32	W	33	N		0.5	9	OFF COAST OF CENTRAL CHILE
	16	04	28	20.6?	32.72	S	72.88	W	33	N		0.7	8	OFF COAST OF CENTRAL CHILE
	16	06	55	03.9?	33.82	S	72.57	W	33	N		0.4	8	OFF COAST OF CENTRAL CHILE
	16	08	18	10.7*	38.266	N	22.185	E	10	G		1.9	5	GREECE. ML 3.2 (ATH).
a	16	08	19	11.0	55.200	S	28.244	W	33	N	5.6	1.0	58	SOUTH SANDWICH ISLANDS REGION
	16	08	45	20.0	35.143	S	72.566	W	33	N	5.0	1.1	63	NEAR COAST OF CENTRAL CHILE
	16	09	12	47.7	39.084	N	71.320	E	33	N	5.0	0.9	101	TAJIK SSR. Felt (V) at Dzhirgatal and (III) at Dushanbe and Gorm.
	16	09	24	11.2	24.349	N	124.071	E	66		4.7	1.1	20	SOUTHWESTERN RYUKYU ISLANDS. Felt (I JMA) on Ishigoki-shimo.
	16	10	20	43.9%	32.722	S	71.949	W	33	N		0.1	5	NEAR COAST OF CENTRAL CHILE
	16	10	41	36.8?	32.76	S	71.85	W	33	N		0.3	8	NEAR COAST OF CENTRAL CHILE
	16	10	46	23.9?	32.97	S	72.17	W	33	N		0.9	8	OFF COAST OF CENTRAL CHILE
	16	11	41	47.0*	41.026	N	23.907	E	10	G		1.0	7	GREECE-BULGARIA BORDER REGION
	16	12	17	40.2?	32.95	S	73.01	W	33	N		0.5	8	OFF COAST OF CENTRAL CHILE
	16	12	44	37.0?	32.76	S	71.91	W	33	N		0.1	5	NEAR COAST OF CENTRAL CHILE
	16	13	19	03.4?	33.40	S	71.92	W	33	N		0.4	5	NEAR COAST OF CENTRAL CHILE
	16	13	33	10.6	66.175	N	150.046	W	10	G	4.4	0.8	37	ALASKA. ML 5.0 (PMR). Felt (V) at Bettles and (IV) at Manley Hot Springs. Also felt at Alyeska Pump Station Six.
	16	13	59	30.6?	4.01	S	69.22	E	33	N	4.7	1.3	7	CHAGOS ARCHIPELAGO REGION
	16	14	45	57.1	45.649	N	152.167	E	52	D	5.1	1.0	87	KURIL ISLANDS REGION
f	16	14	54	00.7	17.013	N	62.448	W	13		6.3 6.3	1.0	400	LEEWARD ISLANDS. Ms 6.8 (BRK), 6.1 (PAS). Six people injured and damage (VI) on Guadeloupe. Minor damage on Montserrat. Also felt on Antigua, St. Kitts and Puerto Rico. Several cm. local tsunami recorded at Basse Terre, Guadeloupe.
	16	14	57	15.8*	16.972	N	62.512	W	33	N	5.6	1.0	41	LEEWARD ISLANDS. Felt (V) on Guadeloupe.
	16	15	12	54.0*	32.289	N	141.534	E	33	N	5.0	0.7	20	SOUTH OF HONSHU, JAPAN
	16	15	25	54.7?	33.04	S	71.86	W	33	N		1.5	9	NEAR COAST OF CENTRAL CHILE
	16	15	45	01.3	34.575	N	23.468	E	33	N	4.5	1.4	32	CRETE
	16	16	13	17.9%	23.001	N	121.374	E	33	N		0.6	6	TAIWAN
	16	16	20	19.5	39.289	N	122.587	W	5	G		1.2	10	NORTHERN CALIFORNIA. ML 3.0 (BRK).
	16	16	34	15.6	41.883	N	20.117	E	10	G		0.8	12	ALBANIA. ML 3.2 (TTG).
	16	17	11	55.2*	31.323	S	68.477	W	31	*		1.2	7	SAN JUAN PROVINCE, ARGENTINA
	16	17	49	41.2%	40.816	N	27.706	E	10	G		0.9	8	TURKEY
	16	19	25	02.4&	62.681	N	150.769	W	121				24	CENTRAL ALASKA. <AGS-P>.
	16	20	38	58.5	17.027	N	62.351	W	31		4.4	1.1	22	LEEWARD ISLANDS. Felt (III) on Guadeloupe.
	16	21	55	02.4	38.558	N	105.850	W	5	G		0.4	18	COLORADO. ML 3.2 (NEIS), 3.3 (GOL). Felt (V) at Salida and Texas Creek, (IV) at Poncha Springs, (III) at Nathrop, Cooldale and Cotopaxi, (II) at Howard.
	16	22	37	23.1&	58.603	N	139.696	W	30				14	OFF COAST OF SOUTHEASTERN ALASKA. <AGS-P>.
	16	23	19	54.6?	32.63	S	71.36	W	33	N		0.6	5	NEAR COAST OF CENTRAL CHILE
	17	01	14	24.9?	66.27	N	150.06	W	10	G		1.5	6	ALASKA. ML 3.0 (PMR).
	17	01	36	36.5*	33.397	S	72.645	W	33	N	4.6	1.4	13	OFF COAST OF CENTRAL CHILE
	17	01	57	44.2*	39.865	N	24.440	E	10	G		1.3	12	AEGEAN SEA
	17	02	19	43.3*	66.163	N	150.005	W	10	G		1.2	7	ALASKA. ML 3 4 (PMR).

	17	02	34	39.4?	51.86	N	12.17	E	10	G			1.1	6	GERMANY
	17	02	51	42.6	34.777	N	45.470	E	51	*	4.8		1.2	16	IRAN-IRAQ BORDER REGION
	17	03	41	12.0	16.947	N	62.449	W	25		4.8	4.4	1.2	68	LEEWARD ISLANDS. Felt (III) on Guadeloupe.
	17	04	03	24.8?	31.33	S	110.82	E	33	N			1.4	7	WEST OF AUSTRALIA
	17	05	25	28.6*	36.235	N	71.071	E	55	?	4.7		1.2	18	AFGHANISTAN-USSR BORDER REGION
	17	05	42	19.4*	34.432	N	141.826	E	33	N	4.7		0.7	13	OFF EAST COAST OF HONSHU, JAPAN
	17	06	23	47.2*	8.778	N	94.135	E	33	N	4.4		1.5	16	NICOBAR ISLANDS REGION
	17	06	36	32.5*	12.999	N	144.657	E	56	*	4.3		1.0	15	SOUTH OF MARIANA ISLANDS
	17	06	56	17.1	44.553	N	114.182	W	10	G	4.5		1.2	50	WESTERN IDAHO. Felt (V) at Challis and May, (IV) at Carmen, Clayton, Cobalt, Ellis, North Fork and Warren.
	17	07	14	07.2	4.451	S	80.843	W	54	*	5.0		1.1	56	PERU-ECUADOR BORDER REGION. Felt in northern Peru.
	17	08	59	14.4&	60.088	N	140.415	W	14					18	SOUTHEASTERN ALASKA <AGS-P>.
	17	09	22	48.7	45.455	N	26.350	E	121				0.9	22	ROMANIA
	17	09	43	54.8&	61.295	N	147.321	W	20					47	SOUTHERN ALASKA. <AGS-P>.
	17	10	02	37.2	36.024	N	26.799	E	10	G			0.5	7	DODECANESE ISLANDS. ML 4.0 (ATH).
	17	10	11	33.5?	35.71	N	140.74	E	33	N			0.6	7	NEAR EAST COAST OF HONSHU, JAPAN
	17	10	20	42.3?	32.91	S	72.25	W	33	N			1.4	13	OFF COAST OF CENTRAL CHILE
	17	10	39	38.8&	59.010	N	153.044	W	71					26	SOUTHERN ALASKA. <AGS-P>.
f	17	10	41	38.4	32.633	S	71.551	W	33	N	5.9	6.6	1.2	267	NEAR COAST OF CENTRAL CHILE. Ms 6.6 (BRK), 6.4 (PAS). One person died from a heart attack at Santiago. Damage (VII) in the Valparaiso-Vina del Mar area. Felt (VI) at San Antonio and Melipilla and (V) at Santiago. Felt from La Sereno to Concepcion. Also felt in Mendozo and San Juon Provinces, Argentina.
	17	11	05	17.1*	66.238	N	149.977	W	10	G			0.7	6	ALASKA. ML 3.5 (PMR).
	17	11	43	32.4	40.482	N	143.701	E	33	N	4.8		0.9	53	OFF EAST COAST OF HONSHU, JAPAN
	17	12	19	56.8	32.761	S	72.095	W	33	N	5.1		1.5	33	OFF COAST OF CENTRAL CHILE
	17	12	22	48.9	2.082	N	128.854	E	33	N	5.2		1.1	64	HALMAHERA
	17	12	40	47.1?	32.78	S	72.10	W	33	N			1.0	7	OFF COAST OF CENTRAL CHILE
	17	12	52	00.1*	9.791	S	110.468	E	33	N	4.6		1.7	14	SOUTH OF JAVA
	17	13	03	16.5	14.290	N	146.630	E	45	*	5.0		1.2	64	MARIANA ISLANDS
	17	14	13	33.0?	8.15	S	124.04	E	181	?	4.7		1.5	6	TIMOR
	17	14	43	53.9?	32.83	S	71.06	W	33	N			1.4	6	NEAR COAST OF CENTRAL CHILE
	17	15	15	05.9&	60.078	N	152.773	W	107					29	SOUTHERN ALASKA. <AGS-P>.
	17	15	40	59.4?	33.38	S	72.07	W	33	N			0.5	6	OFF COAST OF CENTRAL CHILE
	17	15	55	41.3?	33.49	S	71.16	W	33	N			1.2	11	NEAR COAST OF CENTRAL CHILE
	17	16	51	19.2?	33.22	S	71.58	W	33	N			1.0	8	NEAR COAST OF CENTRAL CHILE
	17	16	57	43.0?	34.08	S	71.65	W	33	N			1.4	11	NEAR COAST OF CENTRAL CHILE
	17	17	06	59.5?	32.90	S	71.26	W	33	N			1.3	6	NEAR COAST OF CENTRAL CHILE
	17	17	39	29.0?	33.38	S	72.16	W	33	N			1.2	7	OFF COAST OF CENTRAL CHILE
	17	19	50	33.7&	59.961	N	152.548	W	92					37	SOUTHERN ALASKA. <AGS-P>.
	17	19	53	48.0?	33.62	S	72.68	W	33	N	4.4		0.8	8	OFF COAST OF CENTRAL CHILE
	17	21	00	36.4?	66.17	N	149.89	W	10	G			1.1	4	ALASKA. ML 3.3 (PMR).
	17	21	16	25.5&	63.021	N	150.827	W	156					37	CENTRAL ALASKA. <AGS-P>.
	17	22	09	46.4&	61.712	N	151.877	W	101					24	SOUTHERN ALASKA. <AGS-P>.
	18	01	12	24.5	21.278	S	68.671	W	116	D	4.6		1.1	69	CHILE-BOLIVIA BORDER REGION
	18	03	30	27.6%	23.333	N	120.610	E	33	N			1.3	6	TAIWAN
	18	03	52	48.2?	66.19	N	150.20	W	10	G			1 8	6	ALASKA. ML 3.3 (PMR).
	18	04	51	15.9	26.800	S	26.907	E	5	G			1.3	11	REPUBLIC OF SOUTH AFRICA
	18	05	07	35.9*	33.038	S	72.535	W	33	N			1.3	15	OFF COAST OF CENTRAL CHILE
	18	05	08	50.2	32.556	S	71.516	W	33	N	5.4		1.0	43	NEAR COAST OF CENTRAL CHILE
	18	05	47	46.8	27.761	S	66.473	W	174		5.0		1.2	87	CATAMARCA PROVINCE, ARGENTINA
	18	05	54	05.7*	32.949	S	71.156	W	33	N			0.7	8	NEAR COAST OF CENTRAL CHILE
	18	06	48	31.0	37.601	N	118.825	W	5	G			0.6	16	CALIFORNIA-NEVADA BORDER REGION. ML 2.9 (BRK).
	18	07	09	40.8?	32.69	S	72.29	W	33	N			1.8	11	OFF COAST OF CENTRAL CHILE
	18	07	29	21.3*	33.656	S	70.317	W	33	N			1.4	7	CHILE-ARGENTINA BORDER REGION
	18	07	43	08.6&	33.980	N	118.580	W	6	G				6	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.7 (PAS). Felt at Santa Monica.
	18	10	24	13.9	18.824	N	64.951	W	65	*	4.0		0.5	18	VIRGIN ISLANDS. Felt on St. Thomas and on Puerto Rico.
	18	11	39	51.4	23.864	S	179.689	W	529	*	4.9		1.0	23	SOUTH OF FIJI ISLANDS
	18	12	49	10.4*	32.997	S	72.388	W	33	N			1.3	11	OFF COAST OF CENTRAL CHILE
	18	12	55	27.1&	60.059	N	152.818	W	109					26	SOUTHERN ALASKA. <AGS-P>.
	18	13	39	58.4*	33.828	S	72.391	W	33	N			0.9	12	OFF COAST OF CENTRAL CHILE
	18	13	44	55.1*	35.775	N	140.102	E	33	N			0.3	6	NEAR EAST COAST OF HONSHU, JAPAN
	18	15	07	46.0&	62.274	N	151.144	W	76					27	CENTRAL ALASKA. <AGS-P>.
	18	15	59	54.0%	60.635	N	6.036	E	10	G			0.3	5	SOUTHERN NORWAY
	18	16	09	32.5	5.243	S	153.546	E	33	N	5.4		0.9	33	NEW IRELAND REGION
	18	17	15	55.1&	47.342	N	122.620	W	52					16	WASHINGTON. <SEA>. CL 3.3 (SEA). Felt at Kirkland and Tacomo. Also felt in the Fall City area.
	18	18	32	31.2&	37.570	N	118.820	W	6	G				21	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 4.1 (PAS), 3.9 (BRK).
	18	18	40	50.1	33.425	S	71.907	W	33	N	5.0	4.8	1.2	45	NEAR COAST OF CENTRAL CHILE. Felt (III) at Santiago.
	18	19	30	56.0*	33.104	S	72.482	W	33	N			1.4	13	OFF COAST OF CENTRAL CHILE
	18	19	31	11.1*	36.265	N	70.291	E	33	N	4.3		0.9	8	HINDU KUSH REGION
f	18	19	49	45.8	7.758	N	123.544	E	33	N	6.0	6.5	1.1	275	MINDANAO, PHILIPPINE ISLANDS. Two people died of heart attacks, 25 injured and about 30 buildings destrayed in the Pagodian areo. Felt (V RF) at Zamboango and (IV RF) at Dipolog and Cagayan de Oro. Also felt (II RF) at Puerto Princesa, Polawan and Polo, Leyte.
	18	20	49	47.6	7.647	N	123.610	E	33	N	5.5		1.5	24	MINDANAO, PHILIPPINE ISLANDS. Felt (III RF) at Cagayan de Oro.
	18	22	48	47.7	7.914	N	123.441	E	33	N	5.0		1.3	26	MINDANAO, PHILIPPINE ISLANDS
	18	22	57	35.2	1.356	S	77.813	W	182		4.3		0.9	49	ECUADOR
	18	23	01	05.5?	33.48	S	73.10	W	33	N			1.1	10	OFF COAST OF CENTRAL CHILE
	18	23	25	24.7&	61.127	N	151.156	W	66					32	SOUTHERN ALASKA. <AGS-P>.
	19	00	02	05.8&	35.303	N	82.513	W	10					9	NORTH CAROLINA. <TEIC>. DUR 2.3 (TEIC). Felt (III) at Hendersonville
	19	00	23	29.8&	37.057	N	121.485	W	5	G				14	CENTRAL CALIFORNIA. <BRK> ML 2.5 (BRK).
	19	00	33	05.3	34.007	S	72.129	W	33	N	4.6		1.2	30	NEAR COAST OF CENTRAL CHILE
	19	00	45	41.2	34.458	S	72.261	W	33	N	4 6		1.3	25	NEAR COAST OF CENTRAL CHILE
	19	01	18	51.5*	51.606	N	176.191	E	33	N	4.3		1.2	14	RAT ISLANDS, ALEUTIAN ISLANDS. ML 4.5 (PMR).
	19	01	35	03.5*	16.658	S	28.817	E	10	G	4.3		1.8	5	ZAMBIA
	19	03	55	43.6*	33.393	N	49.387	E	54	*	4.3		1.0	9	WESTERN IRAN

f	19	04	01	08.0	33.198	S	71.653	W	42		5.9	6.6	1.2	235	NEAR COAST OF CENTRAL CHILE. Ms 6.6 (BRK), 6.4 (PAS). Felt (VI) at San Antonio, Valparaiso and Vina del Mar and (IV) at Santiago. Felt from Concepcion to Coquimbo.
	19	04	41	03.5*	33.100	S	71.737	W	58 *		5.0		0.8	31	NEAR COAST OF CENTRAL CHILE
	19	05	27	05.2?	44.24	N	3.78	E	10 G				1.0	8	FRANCE. ML 2.7 (LDG).
	19	06	30	07.7*	33.302	S	72.436	W	33 N		4.4		1.4	14	OFF COAST OF CENTRAL CHILE
	19	07	03	33.7	23.484	N	120.953	E	10 G				1.0	6	TAIWAN
	19	07	16	02.3*	16.586	S	173.243	W	33 N		4.8		0.9	19	TONGA ISLANDS
	19	07	50	20.5*	11.279	S	114.392	E	33 N		4.6		1.4	7	SOUTH OF BALI ISLAND
	19	08	14	39.6*	33.147	S	72.384	W	33 N				0.9	5	OFF COAST OF CENTRAL CHILE
	19	09	10	24.3*	30.064	N	66.324	E	33 N		4.2		1.2	8	PAKISTAN
	19	10	17	40.7*	0.413	N	121.117	E	119 ?		4.9		0.9	10	MINAHASSA PENINSULA
o	19	10	28	36.4	18.628	S	63.658	W	33 N		5.5	5.2	1.1	132	BOLIVIA. Two people killed and damage in the Monteagudo area. Felt at Santo Cruz and Sucre.
	19	10	37	14.3	18.481	S	63.589	W	33 N		5.0		1.2	53	BOLIVIA. Felt in the Monteagudo area.
	19	10	45	45.5	16.984	N	62.221	W	15		5.1	5.1	1.5	41	LEEWARD ISLANDS
	19	13	12	56.6?	33.53	S	71.65	W	33 N				1.3	5	NEAR COAST OF CENTRAL CHILE
	19	16	25	13.8*	35.936	N	70.579	E	98 ?		4.8		1.0	27	HINDU KUSH REGION
	19	16	52	15.5*	18.474	N	96.398	W	33 N		4.3		1.2	5	VERA CRUZ, MEXICO
	19	16	53	44.6	16.999	N	62.351	W	33 N		4.7	4.4	1.3	46	LEEWARD ISLANDS
	19	19	17	30.1?	44.70	N	3.79	E	10 G				1.4	6	FRANCE. ML 2.4 (LDG).
	19	20	18	00.5*	19.285	S	175.702	W	248 *		5.0		1.3	41	TONGA ISLANDS
	19	20	25	39.0*	24.720	N	122.055	E	77				1.1	13	TAIWAN REGION
	19	20	46	10.8*	41.534	N	118.659	W	5 G				0.3	5	NEVADA. ML 3.2 (NEIS).
	19	20	52	44.5	33.377	S	71.959	W	33 N		4.7		1.2	35	NEAR COAST OF CENTRAL CHILE
	19	21	36	56.2?	66.17	N	150.36	W	10 G				0.9	5	ALASKA. ML 3.3 (PMR).
	19	23	25	42.5?	33.37	S	72.06	W	33 N				1.2	9	OFF COAST OF CENTRAL CHILE
	20	00	58	17.8*	7.849	N	123.461	E	10 G		4.8		0.7	8	MINDANAO, PHILIPPINE ISLANDS
	20	01	01	32.5*	39.069	N	22.105	E	10 G				0.5	7	GREECE. ML 3.2 (ATH).
	20	02	46	24.5	33.416	S	71.794	W	33 N		5.2	4.9	1.2	90	NEAR COAST OF CENTRAL CHILE. Felt (V) at Melipilla, San Antonio, Valparaiso and Vina del Mar and (II) at Santiago. Felt (II) at Mendoza, Argentina.
	20	02	46	26.6?	2.64	S	100.92	E	33 N				1.0	5	SOUTHERN SUMATERA
	20	02	59	14.6*	32.900	S	70.244	W	33 N				0.6	7	CHILE-ARGENTINA BORDER REGION
	20	03	18	20.9&	61.492	N	149.898	W	43					47	SOUTHERN ALASKA. <AGS-P>. ML 3.2 (PMR). Felt (II) at Anchorage.
	20	03	18	42.2*	44.822	N	111.559	W	5 G				0.8	9	HEBGEN LAKE REGION. ML 3.5 (NEIS).
	20	03	25	46.3?	33.16	S	70.07	W	33 N				0.5	5	CHILE-ARGENTINA BORDER REGION
	20	03	29	07.5&	60.360	N	152.120	W	92					40	SOUTHERN ALASKA. <AGS-P>.
	20	03	52	29.8&	33.050	N	116.400	W	6 G					8	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS). Felt at Barret Dam.
	20	04	30	26.8*	6.873	S	129.671	E	207 *		4.8		1.1	8	BANDA SEA
	20	04	55	34.9?	30.38	N	139.19	E	472 ?		4.6		0.3	7	SOUTH OF HONSHU, JAPAN
	20	04	57	39.5&	37.287	N	121.680	W	5 G					14	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK). Mo=1.3*10**20 (BRK).
	20	05	48	27.3?	33.75	S	72.86	W	33 N				1.1	6	OFF COAST OF CENTRAL CHILE
	20	05	53	49.6	36.068	N	139.787	E	66		4.9		1.1	52	HONSHU, JAPAN. Felt (IV JMA) at Utsunomiyo, (III JMA) at Kumagoya, Moeboshi, Mito and Nikko, (II JMA) at Tokyo and Yokohama and (I JMA) at Choshi and on Oshima.
	20	07	45	37.5	32.892	S	71.857	W	33 N		4.8		1.2	31	NEAR COAST OF CENTRAL CHILE
	20	09	09	53.7&	60.220	N	153.100	W	126		4.1			50	SOUTHERN ALASKA. <AGS-P>. Felt (II) at Nondalton.
	20	12	05	25.1?	34.21	S	72.03	W	33 N				0.5	5	NEAR COAST OF CENTRAL CHILE
	20	12	10	32.7&	59.382	N	152.932	W	97					46	SOUTHERN ALASKA. <AGS-P>.
	20	13	10	35.6	40.827	N	23.630	E	9				1.2	22	GREECE. ML 3.7 (ATH).
	20	13	42	35.3*	40.902	N	23.658	E	10 G				1.3	5	GREECE
	20	13	43	13.0*	41.098	N	23.483	E	10 G				0.8	10	GREECE-BULGARIA BORDER REGION
	20	13	54	49.2	20.886	N	101.628	E	10 G		4.8	4.5	0.8	27	SOUTHEAST ASIA
	20	14	31	36.2?	23.66	N	121.64	E	33 N				0.3	6	TAIWAN
	20	14	53	35.2*	55.998	S	27.577	W	141 ?		5.2		0.6	21	SOUTH SANDWICH ISLANDS REGION
	20	15	05	00.3&	61.498	N	149.902	W	45					37	SOUTHERN ALASKA. <AGS-P>.
	20	15	28	44.6	18.097	S	70.241	W	57 D		5.0		1.0	76	NEAR COAST OF NORTHERN CHILE. Felt (IV) in the Arico area. Felt (II) at Arequipo, Peru.
	20	16	05	13.5*	39.592	N	16.186	E	10 G				1 0	9	SOUTHERN ITALY
	20	16	20	13.4?	46.09	N	15.15	E	10 G				0.7	5	YUGOSLAVIA. ML 2.4 (KBA).
	20	18	01	44.5%	60.761	N	5.643	E	10 G				1.1	5	SOUTHERN NORWAY. DUR 2.1 (BER).
	20	18	40	25.7*	43.676	N	127.288	W	10 G		3.9		0.8	17	OFF COAST OF OREGON
	20	20	19	35.6*	51.257	N	15.659	E	10 G				1.3	11	POLAND. ML 3.9 (GRF).
	20	23	27	23.7&	61.282	N	146.729	W	29					52	SOUTHERN ALASKA. <AGS-P>. ML 3.5 (PMR). Felt (IV) at Valdez.
	20	23	35	21.7*	44.295	N	18.211	E	10 G				1.3	9	YUGOSLAVIA. ML 2.8 (TTG).
	20	23	54	40.2	56.523	N	34.404	W	10 G		5.1	4.6	0.9	148	NORTH ATLANTIC OCEAN
	21	00	40	54.4?	31.55	S	68.78	W	119 *				0.5	6	SAN JUAN PROVINCE, ARGENTINA
	21	02	39	21.0&	47.615	N	122.216	W	7					7	WASHINGTON. <SEA>. CL 3.0 (SEA). Felt at Bellevue, Mercer Island, Renton and in the Capitol Hill area of Seattle.
	21	03	13	04.6?	80.50	N	1.94	E	10 G		4.4		1.8	9	NORTH OF SVALBARD
	21	03	46	06.5*	66.235	N	150.052	W	10 G		4.3		1.0	10	ALASKA. ML 4.5 (PMR).
	21	04	19	21.9?	40.22	N	124.99	W	10 G				0.6	7	NEAR COAST OF NORTHERN CALIF. ML 3.0 (BRK).
	21	04	20	33.8	2.106	S	119.731	E	33 N		4.8		0.5	7	SULAWESI
	21	05	07	35.9&	36.827	N	121.510	W	8 G					15	CENTRAL CALIFORNIA. <BRK>. ML 2.7 (BRK).
	21	05	44	44.6*	56.668	N	34.594	W	10 G		4.9		0.5	8	NORTH ATLANTIC OCEAN
	21	06	44	05.2*	23.669	N	121.676	E	10 G				0.4	6	TAIWAN
	21	07	30	55.3*	6.221	N	94.841	E	33 N		4.8		1.2	13	NICOBAR ISLANDS REGION
	21	07	48	40.4	6.242	N	94.727	E	33 N		5.0		1.4	29	NICOBAR ISLANDS REGION
	21	08	18	38.3*	6.445	N	94.863	E	33 N		5.2		1.5	48	NICOBAR ISLANDS REGION
	21	10	13	13.4*	40.901	N	23.677	E	10 G				1.2	5	GREECE
	21	10	46	26.0?	16.97	S	72.56	W	33 N				0.3	5	NEAR COAST OF PERU. Felt (III) at Arequipo.
	21	14	03	05.0*	15.539	S	73.004	W	114 *		4.8		1.0	22	SOUTHERN PERU
	21	15	41	26.0*	29.271	N	141.729	E	33 N		5.2		0.5	11	SOUTH OF HONSHU, JAPAN
	21	15	45	27.4&	40.395	N	125.017	W	5 G					5	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 2.9 (BRK).
	21	16	06	19.4*	2.522	S	134.466	E	33 N		4.5		0.9	13	WEST IRIAN REGION
	21	16	16	11.7&	31.780	N	115.980	W	6 G					4	BAJA CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
	21	16	16	34.0	1.464	N	126.202	E	43 *		5.3		1.1	53	MOLUCCA PASSAGE

	21	17 29 58.0&	62.164	N	151.568	W	100				29	CENTRAL ALASKA. <AGS-P>.
	21	18 39 14.9	3.276	S	138.913	E	33	N	5.5	1.1	28	WEST IRIAN
	21	22 19 35.9?	33.07	S	178.99	W	33	N		1.4	8	SOUTH OF KERMADEC ISLANDS
	21	23 54 05.9*	48.992	N	151.917	E	250	D	4.5	1.0	32	KURIL ISLANDS
	22	00 48 04.1*	31.386	N	76.712	E	33	N		0.7	5	NORTHERN INDIA
	22	00 55 41.7?	66.30	N	149.84	W	10	G		1.3	5	ALASKA. ML 3.6 (PMR).
	22	03 00 09.1&	61.494	N	149.916	W	42				38	SOUTHERN ALASKA. <AGS-P>. ML 3.1 (PMR). Felt (II) at Anchorage.
	22	03 28 41.9*	11.527	N	85.603	W	249	?	4.4	1.1	38	NICARAGUA
	22	04 14 11.9*	37.560	N	22.111	E	33	N		1.2	6	SOUTHERN GREECE. ML 2.8 (ATH).
	22	06 14 07.3*	51.220	N	179.566	E	33	N	4.9	1.2	34	RAT ISLANDS, ALEUTIAN ISLANDS
	22	07 23 06.2*	24.493	S	70.216	W	105	*	4.3	1.3	13	NEAR COAST OF NORTHERN CHILE. Felt (III) at Antofagosto.
	22	07 43 00.0&	37.263	N	121.655	W	7				17	CENTRAL CALIFORNIA. <BRK>. ML 3.8 (BRK). Mo=1.5*10**21 (BRK).
	22	10 15 33.5	8.956	S	110.564	E	83	*	4.6	1.0	25	JAVA
	22	10 39 20.2*	2.166	S	120.898	E	33	N	4.6	1.4	6	SULAWESI
	22	11 15 53.8?	14.53	N	94.08	W	33	N	4.4	1.2	18	OFF COAST OF CHIAPAS, MEXICO
	22	12 13 36.2&	62.542	N	149.893	W	65				37	CENTRAL ALASKA. <AGS-P>.
	22	12 38 03.1	6.500	S	106.181	E	115	*	4.8	1.0	31	JAVA
	22	13 13 37.7&	38.810	N	122.812	W	2				11	NORTHERN CALIFORNIA. <BRK>. ML 3.0 (BRK).
	22	13 59 24.3?	14.60	N	94.09	W	33	N	4.6	1.2	19	OFF COAST OF CHIAPAS, MEXICO
a	22	14 02 46.9	18.595	S	63.613	W	33	N	5.5 5.7	1.0	156	BOLIVIA. Felt (IV) at Santa Cruz.
	22	14 23 07.5*	36.228	N	139.726	E	33	N		0.7	6	HONSHU, JAPAN
	22	14 24 19.2	1.261	N	126.382	E	33	N	5.3	1.0	24	MOLUCCA PASSAGE
	22	14 32 24.2	34.396	S	72.111	W	33	N	5.1	1.2	62	NEAR COAST OF CENTRAL CHILE. Felt (IV) at Talca and (II) at Santiago.
a	22	14 42 58.6	6.584	S	105.419	E	70	D	5.7	1.2	256	SUNDA STRAIT. Felt in western Java, including the Jakorta area.
	22	16 46 13.5*	33.586	S	72.763	W	33	N		1.1	13	OFF COAST OF CENTRAL CHILE
	22	18 06 52.2	56.721	N	34.505	W	10	G	4.8 4.2	1.0	65	NORTH ATLANTIC OCEAN
	22	18 07 51.2?	44.19	N	114.37	W	10	G		0.5	5	WESTERN IDAHO. ML 3.1 (BUT).
	22	19 03 51.5	7.624	N	123.638	E	52	*	5.0 4.5	1.4	49	MINDANAO, PHILIPPINE ISLANDS
	22	19 33 27.6	7.558	N	123.609	E	36	*	5.0	1.5	27	MINDANAO, PHILIPPINE ISLANDS
	22	19 35 05.4*	16.560	S	28.747	E	10	G	4.3	1.6	8	ZAMBIA
	22	19 52 38.1?	31.59	S	68.60	W	87	?		0.2	6	SAN JUAN PROVINCE, ARGENTINA
	22	20 28 51.8	38.969	N	21.065	E	10	G		1.3	24	GREECE. ML 3.6 (ATH).
	22	20 33 11.6	39.020	N	20.799	E	10	G		0.9	7	GREECE-ALBANIA BORDER REGION. ML 3.5 (ATH).
	22	20 37 37.7	38.974	N	21.108	E	8		4.4	1.0	47	GREECE. ML 4.1 (ATH).
	22	20 38 51.8*	39.048	N	20.719	E	10	G	4.4	1.3	9	GREECE-ALBANIA BORDER REGION. ML 4.1 (ATH).
	22	20 49 39.8*	24.084	N	121.336	E	33	N		1.0	5	TAIWAN
	22	21 20 33.0?	33.51	S	72.66	W	33	N	3.5	1.1	10	OFF COAST OF CENTRAL CHILE
	22	23 43 44.2?	45.68	N	15.33	E	10	G		0.3	6	YUGOSLAVIA. ML 2.8 (KBA).
	23	00 35 56.3*	55.775	S	28.527	W	137	?	5.0	0.8	29	SOUTH SANDWICH ISLANDS REGION
	23	01 20 56.2*	51.207	N	15.920	E	10	G		0.4	6	POLAND
	23	01 32 35.9?	40.94	N	23.33	E	10	G		1.4	5	GREECE
	23	02 11 43.9	56.707	N	34.522	W	10	G	4.8 4.3	0.9	60	NORTH ATLANTIC OCEAN
	23	02 53 57.7*	66.153	N	150.042	W	10	G		0.8	7	ALASKA
	23	02 55 37.9*	37.002	N	21.195	E	55	*	3.6	1.2	27	SOUTHERN GREECE
	23	03 56 59.6?	66.22	N	149.96	W	10	G		1.4	6	ALASKA. ML 3.4 (PMR).
	23	04 45 30.0*	24.677	N	121.688	E	33	N		1.3	5	TAIWAN
	23	06 39 15.2&	59.828	N	153.410	W	122				21	SOUTHERN ALASKA. <AGS-P>.
	23	08 23 42.1*	43.096	N	0.950	W	10	G		0.3	9	PYRENEES
	23	11 58 06.7	49.235	N	128.439	W	10	G	4.4	1.1	56	VANCOUVER ISLAND REGION
	23	12 27 24.4?	39.54	N	23.55	E	10	G		1.2	8	AEGEAN SEA
	23	13 14 57.9*	66.042	N	150.123	W	10	G		0.7	7	ALASKA. ML 4.0 (PMR).
a	23	13 45 22.5	34.207	S	72.020	W	57	*	5.5 5.2	1.1	139	NEAR COAST OF CENTRAL CHILE. Felt (III) at Santiago.
a	23	14 36 59.5	33.249	S	72.201	W	53	*	5.6 5.1	1.0	137	OFF COAST OF CENTRAL CHILE
	23	14 55 22.2&	39.008	N	123.058	W	5	G			8	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 2.6 (BRK). Felt (IV) at Ukiah.
	23	16 02 23.8*	39.167	N	23.889	E	10	G		1.1	9	AEGEAN SEA
	23	16 38 31.9&	60.119	N	152.903	W	117				26	SOUTHERN ALASKA. <AGS-P>.
	23	18 03 01.6	5.090	S	154.765	E	77		5.1	1.0	23	SOLOMON ISLANDS
	23	18 03 53.9*	44.358	N	113.777	W	5	G		1.2	14	EASTERN IDAHO. ML 3.5 (NEIS).
	23	18 10 19.4*	44.304	N	113.796	W	5	G		1.1	10	EASTERN IDAHO. ML 3.4 (NEIS).
	23	18 30 00.0&	37.180	N	116.089	W	0	G	5.3		199	SOUTHERN NEVADA. <DOE>. ML 5.1 (BRK). 37° 10' 47.91" N., 116° 05' 20.24" W., Surface Elev. 1389 m., Depth of Burial 515 m., Shot Time 183000.082, "COTTAGE", Nevada Test Site (Dept. of Energy).
	23	18 43 09.5%	40.764	N	27.389	E	10	G		1.7	5	TURKEY
	23	19 33 10.6*	17.029	N	100.184	W	33	N	3.8	0.9	18	GUERRERO, MEXICO
a	23	21 35 12.9	52.624	N	178.872	W	233		5.0	1.0	217	ANDREANOF ISLANDS, ALEUTIAN IS. Felt (III) on Adak.
	23	22 32 15.9*	36.463	S	177.486	E	234		5.0	1.5	26	OFF E. COAST OF N. ISLAND, N.Z.
a	23	23 02 45.8	8.391	S	158.302	E	156		5.3	1.0	107	SOLOMON ISLANDS
	23	23 48 42.9	41.736	N	13.870	E	10	G		0.9	7	SOUTHERN ITALY
	24	00 49 09.8?	43.77	N	16.39	E	10	G		1.1	10	YUGOSLAVIA
	24	00 51 55.3*	5.827	S	148.119	E	157	*	5.3	1.5	18	NEW BRITAIN REGION
	24	02 27 33.3*	18.336	N	93.747	W	33	N		0.5	5	GULF OF CAMPECHE
	24	03 09 56.3*	38.797	N	21.261	E	10	G		1.4	6	GREECE. ML 3.5 (ATH).
	24	03 25 45.3?	52.96	N	4.41	W	10	G		0.2	5	UNITED KINGDOM
	24	03 43 32.8?	6.62	S	27.85	E	10	G	4.7	0.8	5	ZAIRE REPUBLIC
	24	06 48 53.9&	36.502	N	121.122	W	5	G			12	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
	24	09 04 35.7*	7.386	S	28.153	E	10	G	4.9	1.2	14	ZAIRE REPUBLIC
	24	09 11 58.6?	67.88	N	163.16	W	33	N		0.8	5	ALASKA. ML 3.2 (PMR).
	24	11 39 28.2*	7.598	S	37.984	E	10	G	4 4	0.4	5	TANZANIA
	24	11 54 20.1*	41.849	N	77.605	E	33	N	4.1	1.2	11	KIRGHIZ-XINJIANG BORDER REGION
	24	14 38 57.0&	61.359	N	146.704	W	30				60	SOUTHERN ALASKA. <AGS-P>. ML 3.6 (PMR). Felt (IV) at Valdez.
a	24	16 16 32.5	34.332	S	72.262	W	26	D	5.5 5.5	1.1	126	NEAR COAST OF CENTRAL CHILE. Felt (II) at Mendoza, Argentino.
	24	16 49 12.3*	15.574	N	93.029	W	100	D	4.3	1.4	28	NEAR COAST OF CHIAPAS, MEXICO
	24	17 49 57.9	51.219	N	179.193	W	33	N	4.9	0.9	94	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.0 (PMR).
	24	18 01 09.6*	6.936	S	130.214	E	92	*	4.9	1.0	23	BANDA SEA

	24	18	56	07.7&	37.853	N	122.637	W	7				11	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK).
	24	19	28	18.7%	40.164	N	29.160	E	10	G		0.8	6	TURKEY
	24	20	36	29.6	38.516	N	25.334	E	10	G		1.2	12	AEGEAN SEA. ML 3.2 (ATH).
	24	21	16	42.1*	33.164	S	71.787	W	33	N		0.8	9	NEAR COAST OF CENTRAL CHILE
	24	22	31	42.6	40.713	N	23.198	E	10	G		0.7	10	GREECE
	24	23	01	27.0&	36.777	N	121.010	W	5	G			16	CENTRAL CALIFORNIA. <BRK>. ML 3.0 (BRK).
	25	01	31	25.3	5.033	N	81.142	W	33	N	5.0	1.0	53	SOUTH OF PANAMA
	25	01	55	19.6?	33.34	S	72.04	W	33	N		1.4	8	OFF COAST OF CENTRAL CHILE
	25	02	08	59.8*	35.456	S	70.482	W	33	N		1.2	9	CHILE-ARGENTINA BORDER REGION
	25	03	38	40.0*	23.808	N	121.724	E	33	N		0.2	5	TAIWAN
	25	04	31	07.6	38.624	N	141.939	E	66		4.5	0.9	19	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Ofunato and (I JMA) at Ishinamaki, Morioka and Sendai.
	25	04	34	48.7*	35.853	N	22.043	E	10	G	3.7	1.2	14	MEDITERRANEAN SEA. ML 3.6 (ATH).
f	25	05	14	35.1	34.254	S	72.185	W	45		6.0 6.4	1.1	253	NEAR COAST OF CENTRAL CHILE. Ms 6.4 (BRK), 6.3 (PAS). Felt (V) at Mendoza, Argentina. Felt (IV) at Talca, Canete, Chillan, Cancepcian, Los Angeles and San Antonio.
	25	05	53	17.3*	34.182	S	72.453	W	33	N	4.7	1.2	16	NEAR COAST OF CENTRAL CHILE
	25	07	17	52.1?	17.78	N	93.90	W	33	N	4.2	1.3	7	CHIAPAS, MEXICO
	25	07	22	46.6?	33.91	S	71.94	W	33	N		0.9	5	NEAR COAST OF CENTRAL CHILE
	25	07	55	08.0*	44.444	N	114.620	W	10	G		0.5	5	WESTERN IDAHO. ML 3.1 (BUT).
a	25	08	56	06.1	11.389	S	165.739	E	33	N	5.4 5.0	0.9	152	SANTA CRUZ ISLANDS
	25	08	57	53.9%	60.646	N	5.965	E	10	G		0.7	5	SOUTHERN NORWAY. DUR 1.8 (BER).
a	25	11	07	19.3	6.437	S	128.767	E	249		5.7	1.0	247	BANDA SEA
	25	12	58	51.0*	44.900	N	20.202	E	10	G		1.2	5	YUGOSLAVIA
	25	13	35	27.7%	16.724	N	99.259	W	33	N		1.5	5	NEAR COAST OF GUERRERO, MEXICO
	25	13	58	25.4%	39.548	N	29.470	E	10	G		1.1	6	TURKEY
	25	15	09	46.4*	8.194	S	68.131	E	10	G	4.9	1.0	32	CHAGOS ARCHIPELAGO REGION
	25	15	39	04.2?	33.59	S	71.32	W	33	N		0.5	6	NEAR COAST OF CENTRAL CHILE
	25	16	05	13.6&	37.450	N	118.540	W	6	G	4.8		91	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 5.0 (PAS), 5.1 (BRK). Mo=6.4*10**22 (BRK). Felt (V) at Tams Place, Califarnio and (IV) at Bass Lake, Benton, Big Creek, Miramonte and Yasemite National Park, California. Felt in Esmeralda County, Nevada and Amador, Calaveras, Fresno, Inyo, Madera, Mariposa, Mono, Stanislaus, Tulare and Tuolumne Counties, California.
	25	16	11	45.8*	37.497	N	118.588	W	5	G		0.4	7	CALIFORNIA-NEVADA BORDER REGION. ML 2.8 (NEIS).
	25	16	16	06.6*	37.556	N	118.671	W	5	G		0.7	6	CALIFORNIA-NEVADA BORDER REGION. ML 3.0 (NEIS).
	25	16	18	23.0*	34.124	S	71.788	W	33	N		1.2	12	NEAR COAST OF CENTRAL CHILE
	25	16	20	30.4&	37.450	N	118.640	W	6	G			19	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.8 (PAS), 3.8 (BRK).
	25	16	27	01.2&	37.450	N	118.640	W	6	G			20	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.9 (PAS), 3.6 (BRK).
	25	17	00	21.2*	34.288	S	72.644	W	33	N	4.5	1.3	18	NEAR COAST OF CENTRAL CHILE
	25	17	46	48.5%	60.485	N	5.083	E	10	G		0.4	6	SOUTHERN NORWAY. DUR 2.2 (BER).
	25	18	05	05.4	39.746	N	27.834	E	10	G		0.8	14	TURKEY
a	25	18	58	52.3	1.166	N	122.765	E	36	D	5.3 5.1	1.3	110	MINAHASSA PENINSULA
	25	19	08	24.3&	37.460	N	118.640	W	6	G			19	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.3 (PAS), 3.1 (BRK).
	25	22	40	58.0*	33.032	S	72.212	W	33	N		1.0	15	OFF COAST OF CENTRAL CHILE
	25	22	49	29.1*	33.013	S	72.056	W	33	N		0.8	10	OFF COAST OF CENTRAL CHILE
	25	23	31	11.2*	33.334	S	71.851	W	33	N		1.3	9	NEAR COAST OF CENTRAL CHILE
	26	00	15	49.8*	7.120	N	124.777	E	28	*	5.0	1.1	24	MINDANAO, PHILIPPINE ISLANDS. Felt (I RF) at Cagayan de Oro.
	26	02	57	06.4	45.777	N	26.608	E	153	?		0.7	16	ROMANIA
	26	03	31	12.5*	17.722	S	173.622	W	33	N	4.7	1.2	23	TONGA ISLANDS
	26	04	28	15.4?	10.70	N	62.51	W	168	?	4.1	1.3	8	NEAR COAST OF VENEZUELA
	26	04	50	58.9*	4.307	S	101.209	E	33	N	5.4	1.0	27	SOUTHERN SUMATERA
	26	04	51	30.1*	7.213	S	125.503	E	505	*	5.2	1.0	12	BANDA SEA
	26	06	34	52.6*	28.747	N	142.509	E	33	N	5.1	1.2	8	BONIN ISLANDS REGION
	26	06	49	23.6	43.408	N	0.591	W	10	G		1.3	12	PYRENEES. ML 3.1 (LDG).
	26	06	49	55.7?	3.96	S	152.87	E	33	N		1.7	5	NEW IRELAND REGION
	26	07	00	00.0*	24.259	N	121.865	E	10	G		0.6	6	TAIWAN
	26	07	03	03.7*	34.106	S	72.228	W	10	G	4.2	1.3	8	NEAR COAST OF CENTRAL CHILE
	26	07	03	04.2	45.733	N	26.611	E	146		4.6	0.9	63	ROMANIA. Felt (IV) at Birlad and Focsani.
	26	07	43	57.9&	61.450	N	150.640	W	68				36	SOUTHERN ALASKA. <AGS-P>.
	26	10	07	15.3%	60.361	N	5.383	E	10	G		0.5	5	SOUTHERN NORWAY. DUR 1.9 (BER).
	26	11	10	01.2*	39.761	N	16.078	E	10	G		0.6	5	SOUTHERN ITALY
	26	11	59	22.0?	33.21	S	71.29	W	10	G		0.9	6	NEAR COAST OF CENTRAL CHILE
a	26	19	28	34.8	15.237	S	71.727	W	127		5.2	1.3	88	SOUTHERN PERU
	26	19	32	46.8	66.205	N	150.028	W	10	G		1.0	9	ALASKA. ML 4.3 (PMR).
	26	20	29	28.5	2.362	N	84.440	W	33	N	4.7	1.1	12	OFF COAST OF CENTRAL AMERICA
	26	21	12	58.6*	7.634	N	123.690	E	33	N		0.4	7	MINDANAO, PHILIPPINE ISLANDS
	26	22	31	31.1	43.213	N	17.556	E	10	G		1.3	19	YUGOSLAVIA. ML 3.8 (TRI), 3.2 (TTG). Felt.
	26	23	08	36.2	11.051	N	92.815	E	33	N	3.9	0.8	11	ANDAMAN ISLANDS REGION
	26	23	28	22.7	52.420	N	158.912	E	94	D	4.9	0.8	66	NEAR EAST COAST OF KAMCHATKA. Felt (IV) at Petropavlovsk-Kamchatskiy.
	27	00	40	58.8?	17.20	N	99.47	W	33	N		1.7	5	GUERRERO, MEXICO
	27	00	43	40.8*	38.192	N	20.255	E	10	G		0.6	6	GREECE. ML 3.9 (ATH).
a	27	02	06	42.7	31.656	N	49.955	E	53	D	5.2	1.0	198	WESTERN IRAN. Felt in the Izeh-Ramhormoz area.
	27	02	14	31.3?	15.41	N	97.90	W	33	N	3.6	0.9	5	NEAR COAST OF OAXACA, MEXICO
	27	03	20	09.7*	66.239	N	150.057	W	10	G		1.3	7	ALASKA. ML 3.9 (PMR).
	27	04	49	03.2%	44.810	N	25.455	E	10	G		0.3	6	ROMANIA
	27	06	37	10.0&	59.681	N	152.804	W	100				30	SOUTHERN ALASKA. <AGS-P>.
	27	07	31	49.0?	33.36	S	71.84	W	33	N		0.3	5	NEAR COAST OF CENTRAL CHILE
	27	08	33	44.9&	36.247	N	120.442	W	5	G			20	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK). Felt (III) at Coalinga.
	27	10	43	31.7%	38.708	N	30.649	E	10	G		1.3	11	TURKEY
	27	12	17	42.0%	60.433	N	5.163	E	10	G		0.3	5	SOUTHERN NORWAY. DUR 2.0 (BER).
f	27	12	48	12.3	44.335	N	146.666	E	155	D	5.9	1.0	424	KURIL ISLANDS. Felt (VI) on Shikotan, (V) at Yuzhno-Kurilsk, (IV) at Kurilsk and (II) on Urup. Felt (IV JMA) at Nemuro, (III JMA) at Hiroo, Kushiro, Obihiro and Urakawa, Hokkaido and (II JMA) in the

														Aomori-Miyako area, Honshu. Also felt (IV) at Misawa, Honshu.
	27	14	06	27.6%	60.506	N	5.402	E	10	G			0.6	5	SOUTHERN NORWAY. DUR 1.6 (BER).
	27	15	15	35.2*	23.530	S	175.306	W	33	N	4.9		1.3	40	TONGA ISLANDS REGION
	27	15	39	36.1&	61.169	N	151.321	W	69					37	SOUTHERN ALASKA. <AGS-P>.
	27	15	47	09.1*	5.530	S	151.833	E	33	N			1.2	5	NEW BRITAIN REGION
	27	15	59	57.5	41.918	N	19.572	E	10	G			0.6	7	ALBANIA. ML 2.3 (TTG).
	27	16	14	54.2	39.107	N	53.725	E	25	*	4.8	3.7	0.8	42	TURKMEN SSR
	27	16	24	18.2*	40.537	N	19.666	E	10	G			1.0	7	ALBANIA
	27	16	48	54.4*	19.489	S	70.847	W	33	N			1.6	11	NEAR COAST OF NORTHERN CHILE
	27	17	28	11.3	13.053	N	120.623	E	57	*	5.1		1.2	28	MINDORO, PHILIPPINE ISLANDS. Felt (II RF) at Calapan.
	27	18	53	31.2*	52.018	N	169.438	W	33	N			0.4	7	FOX ISLANDS, ALEUTIAN ISLANDS
	27	20	44	25.3*	10.804	S	125.383	E	33	N			1.0	5	TIMOR SEA
	27	21	14	54.5*	41.959	N	19.619	E	10	G			1.4	8	ALBANIA. ML 2.3 (TTG).
	27	21	57	12.8*	30.012	S	178.514	W	134	?	5.2		1.1	22	KERMADEC ISLANDS
	27	22	29	16.7*	13.427	N	89.972	W	74	*	4.8		1.4	28	EL SALVADOR. Felt (IV) at San Salvador.
	27	23	53	29.7?	33.24	S	72.07	W	33	N			1.7	5	OFF COAST OF CENTRAL CHILE
	28	00	25	54.3?	32.37	N	50.31	E	66	?	4.5		1.9	5	IRAN. Felt.
	28	01	48	38.5?	5.34	S	147.28	E	33	N			0.7	6	EAST PAPUA NEW GUINEA REGION
	28	02	24	03.9&	60.740	N	150.974	W	55					30	KENAI PENINSULA, ALASKA. <AGS-P>.
	28	03	06	51.2&	60.755	N	152.560	W	121					25	SOUTHERN ALASKA. <AGS-P>.
	28	04	43	28.5*	34.304	S	72.443	W	33	N	4.7		1.1	23	NEAR COAST OF CENTRAL CHILE
	28	05	10	31.6	5.222	S	151.675	E	64		5.3		0.9	48	NEW BRITAIN REGION. Felt (II) at Rabaul.
	28	06	57	23.7	4.926	S	145.284	E	67	*	5.1		1.2	37	NEAR N COAST OF PAPUA NEW GUINEA
	28	07	13	22.3	38.992	N	140.677	E	5	G	5.1	4.9	1.2	124	HONSHU, JAPAN. Felt (III JMA) at Ofunato, (II JMA) in the Ishinomaki-Miyako-Shinjo area and (I JMA) at Akita.
a	28	09	48	32.2	31.054	N	41.459	W	10	G	5.2	4.9	0.8	165	NORTH ATLANTIC RIDGE
	28	10	13	56.3&	61.770	N	151.833	W	109					35	SOUTHERN ALASKA. <AGS-P>.
	28	11	49	25.7*	45.611	N	13.745	E	0	G			0.7	6	NORTHERN ITALY. DUR 2.7 (TRI). Explosion. Felt (IV) at Trieste.
	28	12	05	10.5%	60.086	N	4.698	E	10	G			0.2	5	SOUTHERN NORWAY. DUR 2.2 (BER).
	28	12	20	15.7	42.009	N	19.700	E	10	G			0.7	12	YUGOSLAVIA. ML 3.0 (TTG).
a	28	14	49	21.2	7.697	S	146.871	E	138		5.2		0.9	39	EAST PAPUA NEW GUINEA REGION
	28	15	49	00.9*	66.200	N	149.990	W	10	G			1.1	8	ALASKA. ML 4.3 (PMR).
f	28	16	07	06.8	40.310	N	140.362	E	166		6.1		1.0	511	HONSHU, JAPAN. mb 6.0 (PAS), 5.9 (BRK). Felt (IV JMA) in the Hachinohe-Morioka area and (III JMA) in the Aomori-Miyako-Ofunato area. Also felt (III JMA) in the Obihiro-Urakawa area, Hokkaido. Felt (III) on Shikotan and at Yuzhno-Kurilsk, Kuril Islands.
	28	19	40	39.4	24.980	N	123.983	E	109	*	5.1		0.7	23	SOUTHWESTERN RYUKYU ISLANDS
	28	20	37	18.7*	50.888	N	15.532	E	10	G			1.4	7	CZECHOSLOVAKIA
	28	21	22	39.8?	32.99	S	72.07	W	33	N			0.9	5	OFF COAST OF CENTRAL CHILE
	28	22	29	40.0&	36.175	N	120.243	W	5	G				12	CENTRAL CALIFORNIA. <BRK>. ML 2.7 (BRK).
	28	23	41	25.9%	39.358	N	27.955	E	10	G			0.9	6	TURKEY
	28	23	54	08.8%	39.338	N	27.950	E	10	G			0.8	5	TURKEY
	29	02	42	46.2	23.171	S	66.498	W	228		4.7		0.6	17	JUJUY PROVINCE, ARGENTINA
	29	02	46	52.5&	32.070	N	116.370	W	6	G				4	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.3 (PAS).
	29	02	51	35.4*	34.249	S	72.107	W	33	N	4.6		1.1	16	NEAR COAST OF CENTRAL CHILE. Felt (III) at Santiago.
	29	03	41	07.8*	24.601	N	121.638	E	33	N			0.9	5	TAIWAN
	29	04	12	54.5*	6.673	N	72.890	W	169		4.8		1.2	14	NORTHERN COLOMBIA
	29	05	13	01.2?	33.96	S	72.75	W	33	N			1.3	5	OFF COAST OF CENTRAL CHILE
	29	05	19	05.8	17.066	N	62.395	W	10	G	4.3		0.9	22	LEEWARD ISLANDS. Felt on St. Kitts.
	29	05	45	32.9	31.311	S	68.917	W	111		5.4		1.0	121	SAN JUAN PROVINCE, ARGENTINA. Felt (II) at Mendoza.
	29	07	00	53.7*	37.360	N	73.647	E	33	N	4.5		1.0	5	TAJIK SSR
	29	09	24	08.2	38.891	N	26.614	E	10	G			1.1	26	AEGEAN SEA. ML 3.7 (ATH).
	29	09	47	10.2*	35.918	N	139.812	E	92	?			0.6	10	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro, Tokyo and Yokohama.
	29	11	15	06.1	29.377	N	105.025	E	33	N	4.9	4.3	1.1	51	SICHUAN PROVINCE, CHINA. One person killed, 120 injured and some damage in the Neijiang area.
	29	11	35	21.1	41.904	N	25.494	E	10	G			0.7	6	GREECE-BULGARIA BORDER REGION
	29	12	46	04.9*	5.455	N	82.531	W	10	G		4.3	1.6	8	SOUTH OF PANAMA
	29	13	08	37.6?	36.09	N	141.50	E	33	N			0.6	6	NEAR EAST COAST OF HONSHU, JAPAN
	29	13	28	10.8*	29.373	N	105.086	E	33	N			1.5	5	SICHUAN PROVINCE, CHINA
	29	13	44	23.6&	40.662	N	124.965	W	5	G				6	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.0 (BRK).
	29	16	10	46.0*	29.329	N	105.006	E	33	N			1.4	10	SICHUAN PROVINCE, CHINA
	29	19	30	27.2*	31.819	S	71.817	W	33	N			0.9	8	NEAR COAST OF CENTRAL CHILE
	29	19	50	26.5*	39.327	N	20.592	E	10	G			1.4	6	GREECE-ALBANIA BORDER REGION. ML 3.8 (ATH).
	29	20	05	17.3?	2.52	N	124.14	E	309	?	4.4		0.2	5	CELEBES SEA
	29	20	32	33.1*	29.279	N	105.305	E	33	N			1.4	6	SICHUAN PROVINCE, CHINA
a	29	20	43	41.3*	54.768	S	1.486	E	10	G	5.1		0.9	16	BOUVET ISLAND REGION
	29	21	46	12.1*	39.118	N	140.502	E	152		4.1		0.5	15	HONSHU, JAPAN
	29	22	39	33.0	40.875	N	23.573	E	10	G			1.3	17	GREECE
	29	23	59	21.8%	38.836	N	26.626	E	10	G			1.0	6	AEGEAN SEA
	30	01	14	45.5*	31.339	S	68.411	W	115	*			0.6	11	SAN JUAN PROVINCE, ARGENTINA
	30	02	30	01.8*	51.902	N	174.025	W	33	N	4.4		1.2	18	ANDREANOF ISLANDS, ALEUTIAN IS.
	30	05	06	07.0?	22.79	N	121.32	E	10	G			0.3	5	TAIWAN REGION
	30	06	07	24.2*	35.791	N	138.688	E	33	N			1.1	6	HONSHU, JAPAN. Felt (I JMA) at Kofu.
	30	06	33	25.7?	33.99	S	71.74	W	33	N			0.6	5	NEAR COAST OF CENTRAL CHILE
	30	07	42	30.6%	40.127	N	29.308	E	10	G			1.0	6	TURKEY
	30	08	14	49.4*	33.869	S	70.723	W	33	N			0.7	6	CHILE-ARGENTINA BORDER REGION
	30	08	44	28.8*	73.485	N	70.201	W	10	G	4.7		1.1	14	BAFFIN BAY
	30	09	05	15.4?	34.00	S	71.82	W	33	N			1.0	7	NEAR COAST OF CENTRAL CHILE
	30	09	33	02.4*	34.661	N	139.336	E	128		4.1		0.6	12	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro.
	30	10	40	47.1	5.971	S	146.505	E	41	*	5.3		0.9	43	EAST PAPUA NEW GUINEA REGION
	30	11	48	16.1?	14.48	N	98.40	W	33	N	3.9		1.0	8	OFF COAST OF GUERRERO, MEXICO
	30	12	10	31.3*	33.239	S	72.284	W	33	N	4.7		1.3	14	OFF COAST OF CENTRAL CHILE
	30	13	08	00.5*	45.695	S	78.444	W	10	G	5.2		0.5	8	OFF COAST OF SOUTHERN CHILE
	30	13	28	48.5%	58.511	N	6.788	E	10	G			0.4	6	SOUTHERN NORWAY
a	30	13	47	28.3*	45.533	S	76.369	W	33	N	5.0	4.6	1.0	31	OFF COAST OF SOUTHERN CHILE
	30	14	29	24.7*	13.066	S	166.354	E	84	*	5.2		1.2	14	VANUATU ISLANDS
	30	14	53	38.2&	61.224	N	152.081	W	122					35	SOUTHERN ALASKA. <AGS-P>.
a	30	15	39	28.6*	55.618	S	127.582	W	10	G	5.3	5.6	1.5	31	SOUTH PACIFIC CORDILLERA
	30	15	44	01.0*	14.149	S	165.716	E	73	*			0.7	9	VANUATU ISLANDS

30	15	58	47.0&	37.523	N	118.785	W	10	G		23	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.3 (BRK), 3.6 (PAS).
30	16	27	28.5	5.294	S	151.363	E	82	*	1.1	15	NEW BRITAIN REGION
30	16	36	57.3	8.083	N	91.011	E	33	N 4.7	0.7	5	NICOBAR ISLANDS REGION
30	16	49	22.7	21.214	S	68.809	W	120	5.0	1.2	32	CHILE-BOLIVIA BORDER REGION
30	18	34	59.6&	32.500	N	114.030	W	6	G		11	W. ARIZ. - MEXICO BORDER REGION. <PAS-P>. ML 3.3 (PAS).
30	18	48	38.4	32.926	S	71.827	W	33	N	1.2	19	NEAR COAST OF CENTRAL CHILE
30	20	00	40.8?	30.90	S	70.65	W	33	N	0.3	5	CHILE-ARGENTINA BORDER REGION
30	20	24	25.8%	45.617	N	26.689	E	136	?	0.5	8	ROMANIA
30	20	32	22.8	32.895	N	93.901	E	46	* 4.9	1.3	27	TIBET
30	21	44	26.3	40.833	N	23.624	E	10	G	0.9	11	GREECE
30	22	09	40.5*	32.875	S	71.836	W	33	N	1.1	9	NEAR COAST OF CENTRAL CHILE
30	22	52	00.4&	38.820	N	122.815	W	5			28	NORTHERN CALIFORNIA. <BRK>. ML 3.3 (BRK). Mo=4.2*10**21 (BRK) Felt (V) at Cobb. Felt (IV) at Geyserville and Loch Lomond.
31	00	13	16.4	40.870	N	23.629	E	10	G	1.0	23	GREECE
31	02	56	50.4&	37.285	N	121.682	W	5	G		17	CENTRAL CALIFORNIA. <BRK>. ML 3.2 (BRK). Mo=6.0*10**20 (BRK).
31	04	36	02.4*	4.909	S	68.652	E	10	G 4.6	1.3	22	CHAGOS ARCHIPELAGO REGION
31	04	57	00.1*	50.315	N	179.187	W	33	N 4.4	0.7	11	ANDREANOF ISLANDS, ALEUTIAN IS. ML 3.9 (PMR).
31	05	30	52.4&	59.733	N	152.940	W	91			46	SOUTHERN ALASKA. <AGS-P>.
31	07	04	34.4&	60.472	N	146.323	W	29			38	SOUTHERN ALASKA. <AGS-P>.
31	08	04	23.2&	61.553	N	147.127	W	28			53	SOUTHERN ALASKA. <AGS-P>. ML 3.6 (PMR).
31	08	24	59.0*	33.495	S	72.377	W	33	N 4.2	1.2	11	OFF COAST OF CENTRAL CHILE
31	13	42	05.0&	60.110	N	151.946	W	68			54	KENAI PENINSULA, ALASKA. <AGS-P>. Felt (III) at Homer.
31	14	14	12.9	26.309	S	27.296	E	5	G	1.2	11	REPUBLIC OF SOUTH AFRICA
31	15	45	40.8	23.447	S	175.167	W	33	N 4.6	1.0	21	TONGA ISLANDS REGION
31	15	58	16.9	61.040	N	152.898	W	163	4.3	0.7	47	SOUTHERN ALASKA
31	16	05	34.1*	44.125	N	113.851	W	5	G	0.8	6	EASTERN IDAHO. ML 3.1 (BUT).
31	17	15	29.5?	46.48	N	151.70	E	33	N 4.6	0.9	21	KURIL ISLANDS
31	17	45	53.0	47.374	N	113.111	W	10	G	0.8	12	MONTANA. ML 3.1 (NEIS), 3.5 (BUT).
31	18	08	20.2*	13.200	N	57.364	E	10	G 4.1	1.3	7	ARABIAN SEA
31	20	56	16.9*	28.725	N	140.320	E	122	? 4.0	0.7	15	BONIN ISLANDS REGION
31	21	09	09.7*	28.728	N	140.443	E	119	? 4.0	0.7	11	BONIN ISLANDS REGION
31	21	24	44.7?	29.37	N	140.43	E	244	? 4.1	0.6	5	SOUTH OF HONSHU, JAPAN
31	21	38	07.8*	28.747	N	140.346	E	104	? 4.6	1.1	46	BONIN ISLANDS REGION

ADDITIONAL SOURCE PARAMETERS

01 05 54 50.48 29.150N 130.332E 44km
5.4mb (69 obs.) 5.4Msz (3 obs.)
RYUKYU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 16C
Centraid Lacatian:
Origin Time 05:54:51.5 0.5
Lat 28.97N 0.07 Lan 130.21E 0.11
Dep 23.8 6.3 Half-duration 1.7
Principal Axes:
Scale 10**24 D-CM
T Val= 1.76 Plg=63 Azm=324
N 0.08 7 221
P -1.84 26 128
Best Double Couple:Mo=1.8*10**24
NP1:Strike=203 Dip=20 Slip= 70
NP2: 43 71 97

01 08 14 52.14 28.382N 130.879E 41km
5.2mb (30 obs.)
RYUKYU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 15C
Centroid Location:
Origin Time 08:14:48.9 1.4
Lat 28.33N 0.13 Lon 130.34E 0.16
Dep 31.211.9 Half-duration 1.3
Principal Axes:
Scale 10**23 D-CM
T Val= 3.79 Plg= 9 Azm=294
N 0.74 4 203
P -4.54 80 90
Best Double Couple:Mo=4.2*10**23
NP1:Strike= 28 Dip=36 Slip= -83
NP2: 200 54 -95

01 12 52 07.17 2.092S 119.595E 33km
5.2mb (10 obs.) 5.8Msz (3 obs.)
SULAWESI
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 7S, 13C
Centroid Locotion:
Origin Time 12:52: 7.2 0.7
Lat 2.17S 0.08 Lan 120.24E 0.11
Dep 10.6 5.8 Half-duration 2.2
Principal Axes:
Scale 10**24 D-CM
T Val= 1.95 Plg=23 Azm=170
N 0.95 39 61
P -2.90 43 283
Best Double Couple:Mo=2.4*10**24
NP1:Strike=307 Dip=41 Slip= -19
NP2: 51 78 -130

01 17 11 17.50 2.082S 119.670E 17km
5.7mb (37 obs.) 6.4Msz (14 obs.)
SULAWESI
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 26C M.W.: 11S, 20C
Centroid Location:
Origin Time 17:11:21.6 0.2
Lat 2.14S 0.02 Lon 119.94E 0.02
Dep 14.1 1.4 Half-duration 6.3
Principal Axes:
Scale 10**25 D-CM
T Val= 5.34 Plg= 5 Azm= 3
N -1.19 57 102
P -4.15 33 270
Best Double Couple:Mo=4.7*10**25
NP1:Strike= 52 Dip=63 Slip=-159
NP2: 312 72 -28

01 22 22 11.51 2.200S 119.560E 33km
5.5mb (18 obs.) 5.5Msz (5 obs.)
SULAWESI
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 15C
Centroid Location:
Origin Time 22:22:15.7 0.8
Lat 1.97S 0.08 Lon 120.11E 0.06
Dep 10.0 FIX Half-duration 3.3
Principal Axes:
Scale 10**24 D-CM
T Val= 6.42 Plg=36 Azm= 31
N 3.80 37 155
P -10.22 32 274
Best Double Couple:Mo=8.3*10**24
NP1:Strike= 61 Dip=37 Slip= 176
NP2: 153 88 53

02 08 45 25.83 30.655N 132.605E 31km
5.3mb (39 obs.) 5.0Msz (2 obs.)
SOUTHEAST OF SHIKOKU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.. 8S, 15C
Centroid Location:
Origin Time 08:45.24.3 0.6
Lat 30.54N 0.07 Lan 132.15E 0.09
Dep 17.9 4.5 Half-duration 1.7
Principal Axes:
Scale 10**23 D-CM
T Val= 10.24 Plg=14 Azm=283
N 0.39 5 14
P -10.63 75 125
Best Double Couple:Mo=1.0*10**24
NP1:Strike= 6 Dip=32 Slip=-100
NP2: 197 59 -84

02 15 47 33.40 1.964S 119.727E 44km
5.8mb (45 obs.) 6.7Msz (20 obs.)
SULAWESI
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 29C
Centroid Location:
Origin Time 15:47:40.2 0.6
Lat 1.32S 0.06 Lan 119.38E 0.04
Dep 43.9 2.9 Half-duratian 7.4
Principal Axes:
Scale 10**26 D-CM
T Val= 1.04 Plg= 2 Azm=148
N 0.21 83 43
P -1.25 6 238
Best Double Couple:Mo=1.1*10**26
NP1:Strike=283 Dip=84 Slip= -3
NP2: 14 87 -174

03 22 47 07.28 33.135S 71.871W 33km
6.7mb (45 obs.) 7.8Msz (10 obs.)
NEAR COAST OF CENTRAL CHILE
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=160 Dip=80 Slip= 90
NP2: 340 10 90
Principal Axes:
T Plg=55 Azm= 70
P 35 250
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 51 No. of sta: 10
Principal Axes:
Scale 10**27 d-cm
T Val= 2.33 Plg=45 Azm= 31
N -0.63 40 179
P -1.70 17 284
Best Double Couple:Mo=2.0*10**27
NP1:Strike= 56 Dip=45 Slip= 156
NP2: 164 73 48
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN

M.W.: 16S, 38C
Centroid Location:
Origin Time 22:47:39.5 0.2
Lat 33.92S 0.02 Lon 71.71W 0.02
Dep 40.7 1.0 Half-duration 34.7
Principal Axes:
Scale 10**27 D-CM

	Val=	Plg=	Azm=
T	10.21	68	61
N	0.20	9	173
P	-10.42	20	266

Best Double Couple:Mo=1.0*10**28

	Strike=	Dip=	Slip=
NP1:	11	26	110
NP2:	169	66	81

04 00 32 21.87 33.207S 71.663W 33km
6.0mb (28 obs.) 6.7Msz (2 obs.)
NEAR COAST OF CENTRAL CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 17C
Centroid Location:
Origin Time 00:32:52.9 1.0
Lat 33.06S 0.17 Lon 71.79W 0.23
Dep 33.0 FIX Half-duration 17.0
Principal Axes:
Scale 10**26 D-CM

	Val=	Plg=	Azm=
T	15.96	49	223
N	-5.29	29	353
P	-10.66	26	99

Best Double Couple:Mo=1.3*10**27

	Strike=	Dip=	Slip=
NP1:	234	32	155
NP2:	346	77	60

04 06 06 56.84 33.825S 71.930W 33km
5.6mb (27 obs.) 6.0Msz (4 obs.)
NEAR COAST OF CENTRAL CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 12C
Centroid Location:
Origin Time 06:07:12.6 1.7
Lat 33.43S 0.18 Lon 72.08W 0.25
Dep 10.0 FIX Half-duration 5.2
Principal Axes:
Scale 10**25 D-CM

	Val=	Plg=	Azm=
T	3.53	55	225
N	0.19	19	345
P	-3.72	28	86

Best Double Couple:Mo=3.6*10**25

	Strike=	Dip=	Slip=
NP1:	215	24	143
NP2:	340	76	70

04 13 49 29.85 33.916S 72.283W 29km
5.3mb (22 obs.) 5.5Msz (5 obs.)
OFF COAST OF CENTRAL CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 24C
Centroid Location:
Origin Time 13:49:34.0 0.7
Lat 34.05S 0.10 Lon 72.75W 0.09
Dep 13.5 4.8 Half-duration 2.4
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	4.71	61	52
N	-0.17	15	170
P	-4.54	25	267

Best Double Couple:Mo=4.6*10**24

	Strike=	Dip=	Slip=
NP1:	26	24	128
NP2:	165	71	74

04 15 01 07.09 33.842S 71.249W 40km
6.0mb (69 obs.) 6.0Msz (14 obs.)
NEAR COAST OF CENTRAL CHILE
FAULT PLANE SOLUTION: P-Waves

	Strike=	Dip=	Slip=
NP1:	165	73	90
NP2:	345	17	90

Principal Axes:

	Plg=	Azm=
T	62	75
P	28	255

Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 31 No. of sta: 10
Principal Axes:
Scale 10**25 d-cm

	Val=	Plg=	Azm=
T	3.52	57	40
N	-1.06	30	192
P	-2.46	13	289

Best Double Couple:Mo=3.0*10**25

	Strike=	Dip=	Slip=
NP1:	52	42	138
NP2:	176	64	57

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 30C
Centroid Location:
Origin Time 15:01:14.7 0.2
Lat 33.87S 0.02 Lon 71.81W 0.03
Dep 53.1 1.4 Half-duration 5.0
Principal Axes:
Scale 10**25 D-CM

	Val=	Plg=	Azm=
T	3.24	70	68
N	0.44	9	184
P	-3.69	18	277

Best Double Couple:Mo=3.5*10**25

	Strike=	Dip=	Slip=
NP1:	21	28	109
NP2:	179	63	80

04 19 03 06.84 32.878S 71.818W 33km
5.6mb (31 obs.) 6.0Msz (11 obs.)
NEAR COAST OF CENTRAL CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 26C
Centroid Location:
Origin Time 19:03:15.7 0.2
Lat 32.98S 0.03 Lon 72.06W 0.03
Dep 36.0 1.8 Half-duration 4.3
Principal Axes:
Scale 10**25 D-CM

	Val=	Plg=	Azm=
T	1 74	70	58
N	0.35	10	177
P	-2.09	17	270

Best Double Couple:Mo=1.9*10**25

	Strike=	Dip=	Slip=
NP1:	16	29	111
NP2:	172	63	79

05 09 08 54.51 34.205S 71.711W 33km
5.4mb (22 obs.) 5.2Msz (2 obs.)
NEAR COAST OF CENTRAL CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 17C
Centroid Location:
Origin Time 09:09: 1.5 0.7
Lat 34.18S 0.09 Lon 71.42W 0.16
Dep 33.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	1.61	55	80
N	-0.03	8	181
P	-1.58	33	277

Best Double Couple:Mo=1.6*10**24

	Strike=	Dip=	Slip=
NP1:	36	14	126
NP2:	180	79	82

05 13 40 10.22 1.192N 122.826E 33km
5.6mb (25 obs.) 6.0Msz (6 obs.)
MINAHASSA PENINSULA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 26C
Centroid Location:
Origin Time 13:40:14.7 0.3
Lat 1.18N 0.03 Lon 122.68E 0.04
Dep 29.5 2.2 Half-duration 4.5
Principal Axes:
Scale 10**25 D-CM

	Val=	Plg=	Azm=
T	1.62	65	181
N	0.59	0	272
P	-2.21	25	3

Best Double Couple:Mo=1.9*10**25

	Strike=	Dip=	Slip=
NP1:	94	20	91
NP2:	272	70	89

06 04 35 03.25 12.486S 166.522E 82km
5.6mb (38 obs.)
SANTA CRUZ ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 28C
Centroid Location:
Origin Time 04:35: 3.6 0.2
Lat 12.62S 0.03 Lon 166.26E 0.02
Dep 63.0 1.5 Half-duration 2.8
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	4.52	78	258
N	0.11	0	350
P	-4.62	12	81

Best Double Couple:Mo=4.6*10**24

	Strike=	Dip=	Slip=
NP1:	171	33	91
NP2:	350	57	89

06 22 31 53.27 55.241N 162.043E 47km
5.8mb (107 obs.) 5.4Msz (14 obs.)
NEAR EAST COAST OF KAMCHATKA
FAULT PLANE SOLUTION: P-Waves

	Strike=	Dip=	Slip=
NP1:	30	70	90
NP2:	210	20	90

Principal Axes:

	Plg=	Azm=
T	65	300
P	25	120

Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 34 No. of sta: 15
Principal Axes:
Scale 10**24 d-cm

	Val=	Plg=	Azm=
T	6.83	69	304
N	-0.07	3	42
P	-6.76	20	133

Best Double Couple:Mo=6.8*10**24

	Strike=	Dip=	Slip=
NP1:	228	25	97
NP2:	41	65	87

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 26C
Centroid Location:
Origin Time 22:31:57.6 0.2
Lat 55.05N 0.02 Lon 162.45E 0.04
Dep 43.4 1.5 Half-duration 3.2
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	6.00	74	328
N	1.49	6	216
P	-7.49	14	124

Best Double Couple:Mo=6.8*10**24

	Strike=	Dip=	Slip=
NP1:	205	31	78
NP2:	39	60	97

07 00 55 00.29 32.878S 71.878W 56km
5.4mb (15 obs.) 5.3Msz (1 obs.)
NEAR COAST OF CENTRAL CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 21C
Centroid Location:
Origin Time 00:55: 0.8 0.4
Lat 33.34S 0.06 Lon 72.31W 0.07
Dep 18.2 3.0 Half-duration 1.9
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	1.86	72	57
N	-0.04	8	172
P	-1.82	16	265

Best Double Couple:Mo=1.8*10**24

	Strike=	Dip=	Slip=
NP1:	7	30	107
NP2:	168	62	81

07 11 19 42.49 5.831N 126.355E 92km
5.7mb (48 obs.)
MINDANAO, PHILIPPINE ISLANDS
FAULT PLANE SOLUTION: P-Waves

	Strike=	Dip=	Slip=
NP1:	305	53	46
NP2:	183	55	133

Principal Axes:

	Plg=	Azm=
T	56	153
P	1	244

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.
MOMENT TENSOR SOLUTION
Dep 47 No. of sta: 5
Principal Axes:
Scale 10**25 d-cm

	Val=	Plg=	Azm=
T	1.80	27	197
N	-0.02	57	340
P	-1.78	17	98

Best Double Couple:Mo=1.8*10**25

	Strike=	Dip=	Slip=
NP1:	235	58	172
NP2:	329	83	32

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 28C
Centroid Location:
Origin Time 11:19:43.5 0.3
Lat 5.70N 0.03 Lon 126.45E 0.04
Dep 63.8 2.6 Half-duration 3.1
Principal Axes:
Scale 10**24 D-CM

T Val= 6.73 Plg=33 Azm=211
N 0.33 56 20
P -7.06 5 117
Best Double Couple:Mo=6.9*10**24
NP1:Strike=249 Dip=63 Slip= 159
NP2: 349 71 28

07 21 08 05.97 13.912S 72.612W 72km
5.5mb (66 obs.)
PERU
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 27C
Centroid Location:
Origin Time 21:08:13.4 0.3
Lat 14.25S 0.04 Lon 72.49W 0.03
Dep 99.3 1.8 Half-duration 2.4
Principal Axes:
Scale 10**24 D-CM
T Val= 2.41 Plg= 6 Azm=247
N 0.67 8 156
P -3.07 80 14
Best Double Couple:Mo=2.7*10**24
NP1:Strike=346 Dip=39 Slip= -78
NP2: 150 52 -100

08 00 24 41.97 4.386S 106.879E 631km
5.4mb (40 obs.)
SOUTHERN SUMATERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 15C
Centroid Location:
Origin Time 00:24:46.4 1.1
Lat 4.22S 0.11 Lon 106.97E 0.10
Dep 640.8 5.9 Half-duration 1.9
Principal Axes:
Scale 10**24 D-CM
T Val= 1.76 Plg= 3 Azm= 57
N -0.14 35 149
P -1.62 55 323
Best Double Couple:Mo=1.7*10**24
NP1:Strike=116 Dip=52 Slip=-136
NP2: 356 57 -47

08 10 47 11.76 55.635N 161.415E 87km
5.2mb (78 obs.)
NEAR EAST COAST OF KAMCHATKA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 16C
Centroid Location:
Origin Time 10:47:23.3 1.0
Lat 55.12N 0.10 Lon 160.55E 0.19
Dep 192.2 3.8 Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM
T Val= 9.46 Plg= 1 Azm=151
N -0.68 18 61
P -8.79 72 243
Best Double Couple:Mo=9.1*10**23
NP1:Strike=259 Dip=47 Slip= -65
NP2: 44 49 -115

09 01 21 12.38 33.040S 179.099W 33km
5.5mb (4 obs.)
SOUTH OF KERMADEC ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 18C
Centroid Location:
Origin Time 01:21:17.8 1.0
Lat 33.11S 0.12 Lon 178.72W 0.14
Dep 40.8 9.9 Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM
T Val= 5.99 Plg=69 Azm=298
N -0.08 3 36
P -5.91 21 127
Best Double Couple:Mo=5.9*10**23
NP1:Strike=223 Dip=25 Slip= 97
NP2: 34 66 87

09 01 54 00.72 32.980S 179.136W 18km
5.3mb (6 obs.) 5.0Msz (1 obs.)
SOUTH OF KERMADEC ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used. GDSN
L.P.B.: 9S, 16C
Centroid Location:
Origin Time 01:54: 9.3 0.8
Lat 32.70S 0.11 Lon 179.09W 0.09
Dep 40.1 7.5 Half-duration 1.6
Principal Axes:
Scale 10**23 D-CM
T Val= 8.57 Plg=64 Azm=262
N 0.03 11 14
P -8.60 24 109
Best Double Couple:Mo=8.6*10**23
NP1:Strike=220 Dip=23 Slip= 118
NP2: 10 70 79

09 14 08 04.38 66.239N 150.029W 12km
5.9mb (81 obs.) 6.0Msz (21 obs.)
ALASKA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=210 Dip=86 Slip= 5
NP2: 120 85 176
Principal Axes:
T Plg= 6 Azm= 75
P 1 345
Comment: The focal mechanism is moderately well controlled ond corresponds to strike-slip foulting with o small reverse component. The preferred foult plane is not determined.
MOMENT TENSOR SOLUTION
Dep 14 No. of sta: 12
Principal Axes:
Scale 10**25 d-cm
T Val= 1.56 Plg= 1 Azm= 84
N 0.54 84 180
P -2.10 6 354
Best Double Couple:Mo=1.8*10**25
NP1:Strike=129 Dip=85 Slip=-176
NP2: 39 86 -5
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 26C
Centroid Location:
Origin Time 14:08: 7.2 0.2
Lat 66.53N 0.03 Lon 149.94W 0.06
Dep 12.0 FIX Half-duration 4.5
Principal Axes:
Scale 10**25 D-CM
T Val= 1.78 Plg= 6 Azm=259
N 0.24 68 3
P -2.03 21 167
Best Double Couple:Mo=1.9*10**25
NP1:Strike=305 Dip=71 Slip=-169
NP2: 211 79 -19

09 16 07 05.74 2.935N 127.367E 52km
5.3mb (21 obs.) 5.0Msz (1 obs.)
MOLUCCA PASSAGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 15C
Centroid Location:
Origin Time 16:07: 6.1 1.3
Lat 2.87N 0.19 Lon 127.54E 0.21
Dep 10.0 FIX Half-duration 2.0
Principal Axes:
Scale 10**24 D-CM
T Val= 3.25 Plg=53 Azm=136
N 0.31 9 34
P -3.57 35 298
Best Double Couple:Mo=3.4*10**24
NP1:Strike=350 Dip=13 Slip= 46
NP2: 215 81 99

10 05 01 45.23 0.641S 123.288E 71km
5.2mb (18 obs.)
MINAHASSA PENINSULA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 17C
Centroid Location:
Origin Time 05:01:43.2 1.2
Lat 0.17S 0.09 Lon 123.38E 0.13
Dep 43.9 8.2 Half-duration 2.1
Principal Axes:
Scale 10**24 D-CM
T Val= 2.23 Plg= 4 Azm=213
N -0.11 75 106
P -2.12 14 304
Best Double Couple:Mo=2.2*10**24
NP1:Strike=348 Dip=77 Slip= -7
NP2: 79 83 -167

10 13 30 29.53 66.136N 150.148W 10km
5.2mb (36 obs.) 4.9Msz (4 obs.)
ALASKA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 18C
Centroid Location:
Origin Time 13:30:35.2 0.7
Lat 66.47N 0.08 Lon 150.45W 0.17
Dep 13.0 FIX Half-duration 2.0
Principal Axes:
Scale 10**24 D-CM
T Val= 1.73 Plg=22 Azm=228
N 0.14 65 79
P -1.87 12 322
Best Double Couple:Mo=1.8*10**24
NP1:Strike= 7 Dip=66 Slip= 7
NP2: 274 83 156

10 15 27 45.41 43.474N 145.965E 110km
5.3mb (75 obs.)
HOKKAIDO, JAPAN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 18C
Centroid Location:
Origin Time 15:27:47.7 0.8
Lat 43.20N 0.08 Lon 145.81E 0.17
Dep 101.2 9.4 Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM
T Val= 5.57 Plg=49 Azm=340
N 0.53 16 231
P -6.10 37 129
Best Double Couple:Mo=5.8*10**23
NP1:Strike=164 Dip=17 Slip= 22
NP2: 53 84 106

10 19 33 13.10 13.454N 89.032W 77km
5.2mb (44 obs.)
EL SALVADOR
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 22C
Centroid Location:
Origin Time 19:33:13.4 0.3
Lat 13.34N 0.03 Lon 89.52W 0.04
Dep 65.6 2.4 Half-duration 2.8
Principal Axes:
Scale 10**24 D-CM
T Val= 4.68 Plg= 5 Azm= 32
N 0.39 28 299
P -5.07 61 131
Best Double Couple:Mo=4.9*10**24
NP1:Strike=149 Dip=47 Slip= -49
NP2: 278 56 -125

11 03 01 21.06 36.418N 141.010E 50km
5.2mb (46 obs.)
NEAR EAST COAST OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 18C
Centroid Location:
Origin Time 03:01:23.2 0.6
Lat 35.88N 0.09 Lon 141.11E 0.14
Dep 10.0 FIX Half-duration 2.0
Principal Axes:
Scale 10**24 D-CM
T Val= 1.63 Plg=59 Azm=264
N 0.03 16 23
P -1.66 25 121
Best Double Couple:Mo=1.6*10**24
NP1:Strike=243 Dip=25 Slip= 132
NP2: 18 72 73

11 05 11 06.95 2.005N 128.861E 54km
5.2mb (13 obs.) 5.3Msz (4 obs.)
HALMAHERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 22C
Centroid Location:
Origin Time 05:11: 7.0 0.4
Lat 2.02N 0.04 Lon 129.22E 0.06
Dep 23.9 3.7 Half-duration 2.3
Principal Axes:
Scale 10**24 D-CM
T Val= 2.55 Plg=65 Azm=230
N 0.17 15 355
P -2.72 20 90
Best Double Couple:Mo=2.6*10**24
NP1:Strike=205 Dip=29 Slip= 124
NP2: 348 66 73

11 12 26 10.44 10.378N 125.587E 103km
5.5mb (28 obs.)
LEYTE, PHILIPPINE ISLANDS

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 22C
Centroid Location:
Origin Time 12:26:13.4 0.3
Lat 10.36N 0.03 Lon 125.55E 0.05
Dep 88.1 3.6 Half-duration 2.4
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	3.13	33	83
N	-0.94	27	334
P	-2.19	44	213

Best Double Couple:Mo=2.7*10**24

	Strike=	Dip=	Slip=
NP1:	229	28	-13
NP2:	330	84	-118

12 08 23 17.41 33.072S 72.187W 47km
5.3mb (22 obs.) 5.6Msz (8 obs.)
OFF COAST OF CENTRAL CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 25C
Centroid Location:
Origin Time 08:23:19.7 0.3
Lat 33.23S 0.04 Lon 72.59W 0.06
Dep 10.0 FIX Half-duration 2.4
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	5.85	58	78
N	0.40	9	183
P	-6.26	31	278

Best Double Couple:Mo=6.1*10**24

	Strike=	Dip=	Slip=
NP1:	35	17	123
NP2:	180	76	81

13 19 34 57.69 43.510N 127.561W 10km
6.1mb (78 obs.) 6.3Msz (19 obs.)
OFF COAST OF OREGON
FAULT PLANE SOLUTION: P-Waves

	Strike=	Dip=	Slip=
NP1:	302	90	-174
NP2:	212	84	-360

Principal Axes:

	Plg=	Azm=
T	4	77
P	4	167

Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 15 No. of sta: 9
Principal Axes:
Scale 10**25 d-cm

	Val=	Plg=	Azm=
T	7.59	8	73
N	0.01	82	263
P	-7.61	2	163

Best Double Couple:Mo=7.6*10**25

	Strike=	Dip=	Slip=
NP1:	208	83	5
NP2:	117	85	173

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 30C M.W.: 11S, 22C
Centroid Location:
Origin Time 19:35: 2.7 0.2
Lat 43.54N 0.02 Lon 128.03W 0.02
Dep 10.0 FIX Half-duration 6.5
Principal Axes:
Scale 10**25 D-CM

	Val=	Plg=	Azm=
T	5.26	7	252
N	0.40	70	3
P	-5.66	19	160

Best Double Couple:Mo=5.5*10**25

	Strike=	Dip=	Slip=
NP1:	297	72	-172
NP2:	205	82	-19

14 06 26 58.88 23.726S 179.924W 525km
5.0mb (27 obs.)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 18C
Centroid Location:
Origin Time 06:27: 5.6 0.9
Lat 23.44S 0.10 Lon 179.98W 0.09
Dep 545.9 4.9 Half-duration 1.9
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	2.07	62	88
N	-0.18	26	242
P	-1.89	11	337

Best Double Couple:Mo=2.0*10**24

	Strike=	Dip=	Slip=
NP1:	96	41	132
NP2:	226	61	60

15 00 16 02.75 20.682S 178.218W 545km
5.7mb (37 obs)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 25C
Centroid Location:
Origin Time 00:16: 8.1 0.3
Lat 20.57S 0.05 Lon 178.31W 0.04
Dep 539.9 1.5 Half-duration 3.4
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	8.05	8	61
N	1.67	38	157
P	-9.72	51	321

Best Double Couple:Mo=8.9*10**24

	Strike=	Dip=	Slip=
NP1:	115	50	-144
NP2:	0	63	-47

16 08 19 11.02 55.200S 28.244W 33km
5.6mb (8 obs.)
SOUTH SANDWICH ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 23C
Centroid Location:
Origin Time 08:19:14.7 0.4
Lat 55.34S 0.06 Lon 28.71W 0.12
Dep 10.0 FIX Half-duration 1.9
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	2.67	54	255
N	0.47	17	139
P	-3.15	30	38

Best Double Couple:Mo=2.9*10**24

	Strike=	Dip=	Slip=
NP1:	87	22	37
NP2:	323	77	108

16 14 54 00.72 17.013N 62.448W 13km
6.3mb (80 obs.) 6.3Msz (25 obs.)
LEEWARD ISLANDS
FAULT PLANE SOLUTION: P-Waves

	Strike=	Dip=	Slip=
NP1:	40	85	-1
NP2:	130	89	-175

Principal Axes:

	Plg=	Azm=
T	3	265
P	4	355

Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 16 No. of sta: 14
Principal Axes:
Scale 10**25 d-cm

	Val=	Plg=	Azm=
T	5.24	1	345
N	0.57	85	239
P	-5.81	5	75

Best Double Couple:Mo=5.5*10**25

	Strike=	Dip=	Slip=
NP1:	120	86	-2
NP2:	210	88	-176

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 31C M.W.: 15S, 30C
Centroid Location:
Origin Time 14:54: 4.3 0.2
Lat 17.10N 0.01 Lon 62.34W 0.02
Dep 14.0 FIX Half-duration 6.2
Principal Axes:
Scale 10**25 D-CM

	Val=	Plg=	Azm=
T	4.48	3	177
N	-0.59	86	43
P	-3.89	3	267

Best Double Couple:Mo=4.2*10**25

	Strike=	Dip=	Slip=
NP1:	312	86	0
NP2:	42	90	-176

17 10 41 38.48 32.633S 71.551W 33km
5.9mb (68 obs.) 6.6Msz (25 obs.)
NEAR COAST OF CENTRAL CHILE
FAULT PLANE SOLUTION: P-Waves

	Strike=	Dip=	Slip=
NP1:	170	78	90
NP2:	350	12	90

Principal Axes:

	Plg=	Azm=
T	57	80
P	33	260

Comment: The focal mechanism is moderately well controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 30 No. of sta: 12
Principal Axes:
Scale 10**26 d-cm

	Val=	Plg=	Azm=
T	1.27	62	96
N	-0.32	4	194
P	-0.95	27	286

Best Double Couple:Mo=1.1*10**26

	Strike=	Dip=	Slip=
NP1:	27	18	103
NP2:	193	73	86

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 37C M.W.: 12S, 28C
Centroid Location:
Origin Time 10:41:45.4 0.2
Lat 33.22S 0.01 Lon 71.73W 0.02
Dep 43.5 0.8 Half-duration 7.4
Principal Axes:
Scale 10**25 D-CM

	Val=	Plg=	Azm=
T	7.93	71	84
N	-0.15	0	175
P	-7.78	19	265

Best Double Couple:Mo=7.9*10**25

	Strike=	Dip=	Slip=
NP1:	356	26	91
NP2:	175	64	90

18 19 49 45.84 7.758N 123.544E 33km
6.0mb (65 obs.) 6.5Msz (31 obs.)
MINDANAO, PHILIPPINE ISLANDS
FAULT PLANE SOLUTION: P-Waves

	Strike=	Dip=	Slip=
NP1:	3	67	148
NP2:	107	61	27

Principal Axes:

	Plg=	Azm=
T	38	323
P	4	56

Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting with a large reverse component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 19 No. of sta: 9
Principal Axes:
Scale 10**26 d-cm

	Val=	Plg=	Azm=
T	1.09	5	325
N	0.17	85	130
P	-1.26	1	235

Best Double Couple:Mo=1.2*10**26

	Strike=	Dip=	Slip=
NP1:	10	86	178
NP2:	100	88	4

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 34C M.W.: 9S, 20C
Centroid Location:
Origin Time 19:49:48.9 0.2
Lat 7.61N 0.02 Lon 123.48E 0.02
Dep 24.9 1.4 Half-duration 6.0
Principal Axes:
Scale 10**25 D-CM

	Val=	Plg=	Azm=
T	5.97	24	330
N	1.49	65	159
P	-7.46	3	62

Best Double Couple:Mo=6.7*10**25

	Strike=	Dip=	Slip=
NP1:	109	71	15
NP2:	13	76	160

19 04 01 08.00 33.198S 71.653W 42km
5.9mb (55 obs.) 6.6Msz (28 obs.)
NEAR COAST OF CENTRAL CHILE
FAULT PLANE SOLUTION: P-Waves

	Strike=	Dip=	Slip=
NP1:	172	78	90
NP2:	352	12	90

Principal Axes:

	Plg=	Azm=
T	57	82
P	33	262

Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 40 No. of sta: 10
Principal Axes:
Scale 10**26 d-cm

	Val=	Plg=	Azm=
T	1.39	66	107
N	-0.34	2	12
P	-1.05	23	281

Best Double Couple:Mo=1.2*10**26

	Strike=	Dip=	Slip=
NP1:	8	22	85
NP2:	193	68	92

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 39C M.W.: 14S, 30C

Centroid Location:
Origin Time 04:01:13.2 0.1
Lat 33.63S 0.01 Lon 71.94W 0.01
Dep 35.6 0.8 Half-duration 8.2
Principal Axes:
Scale 10**25 D-CM
T Val= 11.72 Plg=69 Azm= 85
N -0.23 0 355
P -11.49 21 265
Best Double Couple:Mo=1.2*10**26
NP1:Strike=355 Dip=24 Slip= 90
NP2: 175 66 90

19 10 28 36.46 18.628S 63.658W 33km
5.5mb (36 obs.) 5.2Msz (7 obs.)
BOLIVIA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 24C
Centroid Location:
Origin Time 10:28:45.9 0.3
Lat 17.77S 0.04 Lon 63.69W 0.03
Dep 41.7 2.0 Half-duration 2.8
Principal Axes:
Scale 10**24 D-CM
T Val= 4.56 Plg=81 Azm=307
N 2.17 6 179
P -6.73 7 89
Best Double Couple:Mo=5.6*10**24
NP1:Strike=172 Dip=38 Slip= 81
NP2: 4 53 97

22 14 02 46.98 18.595S 63.613W 33km
5.5mb (39 obs.) 5.7Msz (1 obs.)
BOLIVIA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 16C
Centroid Location:
Origin Time 14:02:41.4 1.3
Lat 19.35S 0.13 Lon 64.18W 0.12
Dep 39.2 8.1 Half-duration 1.6
Principal Axes:
Scale 10**24 D-CM
T Val= 1.00 Plg=73 Azm= 21
N 0.66 16 179
P -1.66 6 271
Best Double Couple:Mo=1.3*10**24
NP1:Strike= 18 Dip=41 Slip= 115
NP2: 167 53 70

22 14 42 58.63 6.584S 105.419E 70km
5.7mb (42 obs.)
SUNDA STRAIT
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 35 Dip=60 Slip= 45
NP2: 278 52 141
Principal Axes:
T Plg=52 Azm=251
P 5 155
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 56 No. of sta: 9
Principal Axes:
Scale 10**25 d-cm
T Val= 3.54 Plg=71 Azm=280
N 0.12 12 50
P -3.66 14 143
Best Double Couple:Mo=3.6*10**25
NP1:Strike=249 Dip=33 Slip= 113
NP2: 43 60 76
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 34C
Centroid Location:
Origin Time 14:42:58.7 0.4
Lat 7.00S 0.04 Lon 105.05E 0.04
Dep 43.2 2.6 Half-duration 5.5
Principal Axes:
Scale 10**25 D-CM
T Val= 3.45 Plg=60 Azm=348
N 1.18 8 92
P -4.63 28 186
Best Double Couple:Mo=4.0*10**25
NP1:Strike=297 Dip=18 Slip= 116
NP2: 90 74 82

23 13 45 22.51 34.207S 72.020W 57km
5.5mb (32 obs.) 5.2Msz (3 obs.)
NEAR COAST OF CENTRAL CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 22C
Centroid Location:
Origin Time 13:45:25.2 0.4
Lat 34.49S 0.07 Lon 72.82W 0.06
Dep 17.7 2.4 Half-duration 2.5
Principal Axes:
Scale 10**24 D-CM
T Val= 3.68 Plg=65 Azm= 89
N 0.32 6 191
P -4.00 24 284
Best Double Couple:Mo=3.8*10**24
NP1:Strike= 26 Dip=21 Slip= 106
NP2: 189 70 84

23 14 36 59.54 33.249S 72.201W 53km
5.6mb (33 obs.) 5.1Msz (3 obs.)
OFF COAST OF CENTRAL CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 18C
Centroid Location:
Origin Time 14:36:59.2 0.5
Lat 33.44S 0.07 Lon 72.54W 0.07
Dep 10.0 FIX Half-duration 2.0
Principal Axes:
Scale 10**24 D-CM
T Val= 2.52 Plg=70 Azm= 5
N 0.10 20 176
P -2.63 3 267
Best Double Couple:Mo=2.6*10**24
NP1:Strike= 16 Dip=46 Slip= 118
NP2: 159 51 65

23 21 35 12.96 52.624N 178.872W 233km
5.0mb (78 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 18C
Centroid Location:
Origin Time 21:35:12.8 0.8
Lat 52.58N 0.08 Lon 178.45W 0.14
Dep 240.6 4.4 Half-duration 1.7
Principal Axes:
Scale 10**24 D-CM
T Val= 1.85 Plg=42 Azm= 79
N -0.52 40 301
P -1.33 22 191
Best Double Couple:Mo=1.6*10**24
NP1:Strike=235 Dip=42 Slip= 18
NP2: 131 78 131

23 23 02 45.85 8.391S 158.302E 156km
5.3mb (29 obs.)
SOLOMON ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 19C
Centroid Location:
Origin Time 23:02:50.0 0.7
Lat 8.55S 0.07 Lon 158.53E.0.07
Dep 167.9 4.1 Half-duration 1.9
Principal Axes:
Scale 10**24 D-CM
T Val= 1.62 Plg= 5 Azm=197
N 0.09 68 299
P -1.71 22 105
Best Double Couple:Mo=1.7*10**24
NP1:Strike=243 Dip=71 Slip=-168
NP2: 149 78 -19

24 16 16 32.50 34.332S 72.262W 26km
5.5mb (32 obs.) 5.5Msz (9 obs.)
NEAR COAST OF CENTRAL CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 32C
Centroid Location:
Origin Time 16:16:37.8 0.3
Lat 34.44S 0.04 Lon 72.53W 0.04
Dep 25.4 2.3 Half-duration 2.3
Principal Axes:
Scale 10**24 D-CM
T Val= 4.09 Plg=62 Azm= 73
N 0.35 8 177
P -4.45 27 271
Best Double Couple:Mo=4.3*10**24
NP1:Strike= 20 Dip=19 Slip= 114
NP2: 175 73 82

25 05 14 35.14 34.254S 72.185W 45km
6.0mb (61 obs.) 6.4Msz (27 obs.)
NEAR COAST OF CENTRAL CHILE
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=165 Dip=83 Slip= 90
NP2: 345 7 90
Principal Axes:
T Plg=52 Azm= 75
P 38 255
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 23 No. of sta: 9
Principal Axes:
Scale 10**25 d-cm
T Val= 6.07 Plg=52 Azm=102
N 0.06 18 348
P -6.13 33 246
Best Double Couple:Mo=6.1*10**25
NP1:Strike=289 Dip=21 Slip= 29
NP2: 171 80 108
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 30C M.W.: 11S, 20C
Centroid Location:
Origin Time 05:14:39.0 0.2
Lat 34.60S 0.02 Lon 72.52W 0.02
Dep 23.9 1.0 Half-duration 5.2
Principal Axes:
Scale 10**25 D-CM
T Val= 4.06 Plg=65 Azm= 86
N -0.07 3 182
P -3.99 25 274
Best Double Couple:Mo=4.0*10**25
NP1:Strike= 10 Dip=20 Slip= 98
NP2: 181 70 87

25 08 56 06.10 11.389S 165.739E 33km
5.4mb (28 obs.) 5.0Msz (2 obs.)
SANTA CRUZ ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 13C
Centroid Location:
Origin Time 08:56:10.6 0.9
Lat 12.19S 0.20 Lon 166.07E 0.17
Dep 32.810.7 Half-duration 1.5
Principal Axes:
Scale 10**24 D-CM
T Val= 1.63 Plg=54 Azm= 47
N 0.10 6 146
P -1.73 35 241
Best Double Couple:Mo=1.7*10**24
NP1:Strike= 0 Dip=11 Slip= 124
NP2: 145 81 84

25 11 07 19.37 6.437S 128.767E 249km
5.7mb (42 obs.)
BANDA SEA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=305 Dip=75 Slip= 140
NP2: 47 52 19
Principal Axes:
T Plg=38 Azm=259
P 15 1
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 278 No. of sta: 6
Principal Axes:
Scale 10**25 d-cm
T Val= 2.15 Plg=27 Azm=269
N 0.01 57 127
P -2.16 17 9
Best Double Couple:Mo=2.1*10**25
NP1:Strike= 51 Dip=58 Slip= 7
NP2: 317 84 148
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 22C
Centroid Location:
Origin Time 11:07:23.8 0.2
Lat 6.83S 0.03 Lon 128.92E 0.03
Dep 290.0 2.0 Half-duration 4.4
Principal Axes:
Scale 10**25 D-CM

T Val= 2.24 Plg=35 Azm=270
N 0.05 41 142
P -2.29 29 23
Best Double Couple:Mo=2.3*10**25
NP1:Strike= 59 Dip=41 Slip= 6
NP2: 325 86 131

25 18 58 52.39 1.166N 122.765E 36km
5.3mb (29 obs.) 5.1Msz (2 obs.)
MINAHASSA PENINSULA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 23C
Centroid Location:
Origin Time 18:58:55.4 0.6
Lat 1.37N 0.05 Lon 122.57E 0.09
Dep 31.5 4.2 Half-duration 2.4
Principal Axes:
Scale 10**24 D-CM
T Val= 3.08 Plg=65 Azm=181
N 0.30 3 84
P -3.38 24 352
Best Double Couple:Mo=3.2*10**24
NP1:Strike= 75 Dip=21 Slip= 81
NP2: 265 69 94

26 19 28 34.82 15.237S 71.727W 127km
5.2mb (31 obs.)
SOUTHERN PERU
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 18C
Centroid Location:
Origin Time 19:28:42.8 0.5
Lat 15.13S 0.05 Lon 71.59W 0.05
Dep 144.4 1.8 Half-duration 1.9
Principal Axes:
Scale 10**24 D-CM
T Val= 1.96 Plg= 6 Azm= 80
N 0.80 80 316
P -2.76 8 171
Best Double Couple:Mo=2.4*10**24
NP1:Strike=215 Dip=80 Slip= -2
NP2: 306 88 -170

27 02 06 42.75 31.656N 49.955E 53km
5.2mb (60 obs.)
WESTERN IRAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 18C
Centroid Location:
Origin Time 02:06:44.7 1.4
Lat 31.65N 0.16 Lon 50.54E 0.15
Dep 83.8 7.6 Half-duration 1.3
Principal Axes:
Scale 10**23 D-CM
T Val= 5.50 Plg=16 Azm= 0
N 0.85 13 94
P -6.35 69 221
Best Double Couple:Mo=5.9*10**23
NP1:Strike= 72 Dip=31 Slip=-115
NP2: 281 62 -76

27 12 48 12.35 44.335N 146.666E 155km
5.9mb (105 obs.)
KURIL ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=165 Dip=67 Slip= 19
NP2: 67 73 156
Principal Axes:
T Plg=29 Azm= 25
P 4 117
Comment: The focal mechanism is well controlled and corresponds to strike-slip faulting with a moderate reverse component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 150 No. of sta: 15
Principal Axes:
Scale 10**25 d-cm
T Val= 1.89 Plg=27 Azm= 26
N 0.00 63 216
P -1.89 4 118
Best Double Couple:Mo=1.9*10**25
NP1:Strike=165 Dip=68 Slip= 17
NP2: 69 75 157
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 30C
Centroid Location:
Origin Time 12:48:13.8 0.2
Lat 44.28N 0.02 Lon 146.78E 0.03
Dep 142.3 0.8 Half-duration 3.9
Principal Axes:
Scale 10**25 D-CM
T Val= 1.65 Plg=37 Azm= 19
N -0.57 47 233
P -1.08 18 123
Best Double Couple:Mo=1.4*10**25
NP1:Strike=167 Dip=50 Slip= 16
NP2: 67 78 139

28 09 48 32.22 31.054N 41.459W 10km
5.2mb (64 obs.) 4.9Msz (10 obs.)
NORTH ATLANTIC RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 18C
Centroid Location:
Origin Time 09:48:39.8 0.5
Lat 31.21N 0.08 Lon 41.00W 0.08
Dep 10.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**24 D-CM
T Val= 1.05 Plg= 7 Azm=273
N -0.04 37 8
P -1.02 53 173
Best Double Couple:Mo=1.0*10**24
NP1:Strike=329 Dip=49 Slip=-141
NP2: 211 62 -48

28 14 49 21.27 7.697S 146.871E 138km
5.2mb (16 obs.)
EAST PAPUA NEW GUINEA REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 7S, 14C
Centroid Location:
Origin Time 14:49:28.4 1.1
Lat 7.89S 0.11 Lon 146.49E 0.16
Dep 137.8 6.7 Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM
T Val= 7.47 Plg=18 Azm=258
N -1.30 11 165
P -6.17 69 43
Best Double Couple:Mo=6.8*10**23
NP1:Strike= 6 Dip=29 Slip= -66
NP2: 159 64 -103

28 16 07 06.84 40.310N 140.362E 166km
6.1mb (105 obs.)
HONSHU, JAPAN
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=133 Dip=81 Slip= -65
NP2: 242 26 -159
Principal Axes:
T Plg=31 Azm=202
P 48 70
Comment: The focal mechanism is moderately well controlled and corresponds to normal faulting with a moderate strike-slip component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 156 No. of sta: 16
Principal Axes:
Scale 10**25 d-cm
T Val= 4.07 Plg=24 Azm=235
N -0.08 2 326
P -3.98 66 60
Best Double Couple:Mo=4.0*10**25
NP1:Strike=321 Dip=21 Slip= -95
NP2: 147 69 -88
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 33C M.W.: 11S, 25C
Centroid Location:
Origin Time 16:07:11.2 0.2
Lat 40.42N 0.02 Lon 140.17E 0.03
Dep 168.8 1.0 Half-duration 5.4
Principal Axes:
Scale 10**25 D-CM
T Val= 3.65 Plg=24 Azm=219
N 0.16 10 314
P -3.81 63 65
Best Double Couple:Mo=3.7*10**25
NP1:Strike=288 Dip=23 Slip=-118
NP2: 138 70 -79

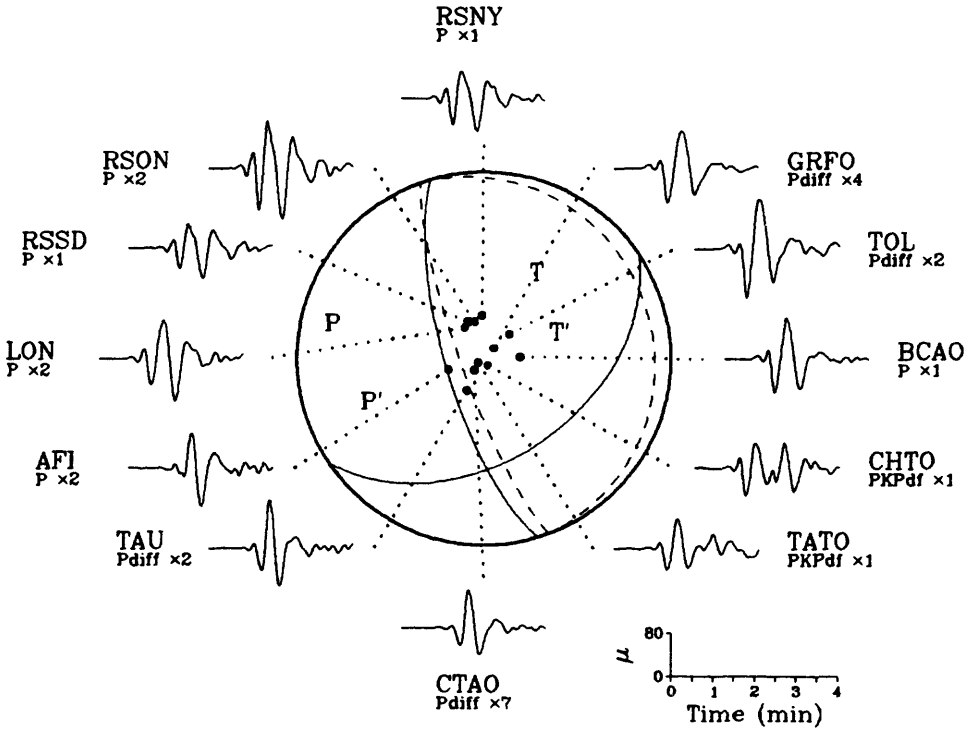
29 20 43 41.36 54.768S 1.486E 10km
5.1mb (9 obs.)
BOUVET ISLAND REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 23C
Centroid Location:
Origin Time 20:43:52.6 0.4
Lat 55.04S 0.10 Lon 1.84E 0.13
Dep 10.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**24 D-CM
T Val= 1.40 Plg=31 Azm= 7
N -0.27 55 156
P -1.13 14 268
Best Double Couple:Mo=1.3*10**24
NP1:Strike= 43 Dip=58 Slip= 167
NP2: 140 79 33

30 13 47 28.34 45.533S 76.369W 33km
5.0mb (11 obs.) 4.6Msz (1 obs.)
OFF COAST OF SOUTHERN CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 18C
Centroid Location:
Origin Time 13:47:29.1 0.5
Lat 45.34S 0.09 Lon 76.85W 0.11
Dep 10.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**24 D-CM
T Val= 1.96 Plg=19 Azm=228
N -0.63 4 137
P -1.33 70 36
Best Double Couple:Mo=1.6*10**24
NP1:Strike=325 Dip=26 Slip= -81
NP2: 135 64 -94

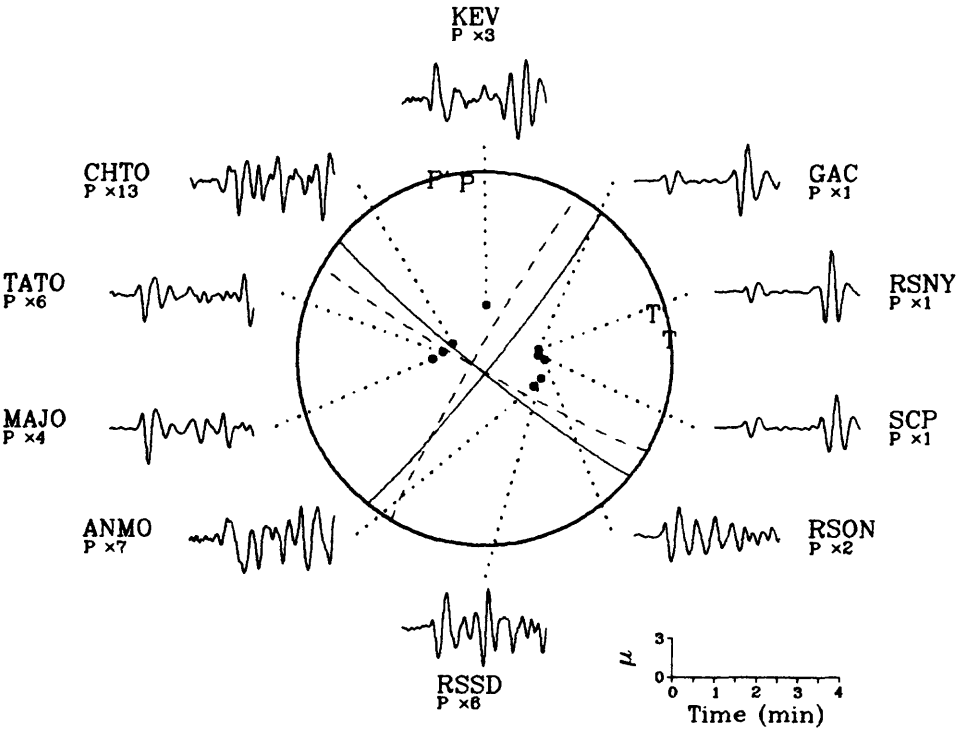
30 15 39 28.60 55.618S 127.582W 10km
5.3mb (6 obs.) 5.6Msz (3 obs.)
SOUTH PACIFIC CORDILLERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 30C
Centroid Location:
Origin Time 15:39:33.5 0.2
Lat 55.76S 0.04 Lon 127.76W 0.06
Dep 10.0 FIX Half-duration 2.8
Principal Axes:
Scale 10**24 D-CM
T Val= 4.78 Plg=14 Azm=339
N -0.50 74 130
P -4.28 7 247
Best Double Couple:Mo=4.5*10**24
NP1:Strike= 23 Dip=75 Slip= 175
NP2: 114 85 15

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

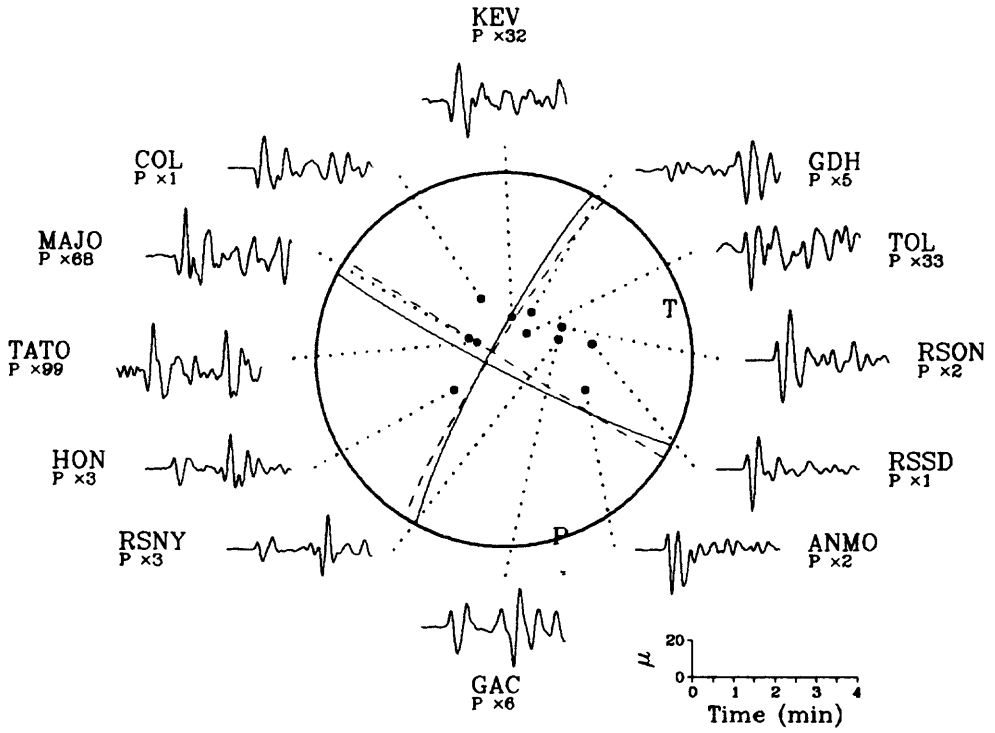
03 March 1985 22:47:07.28
Near Coast of Central Chile



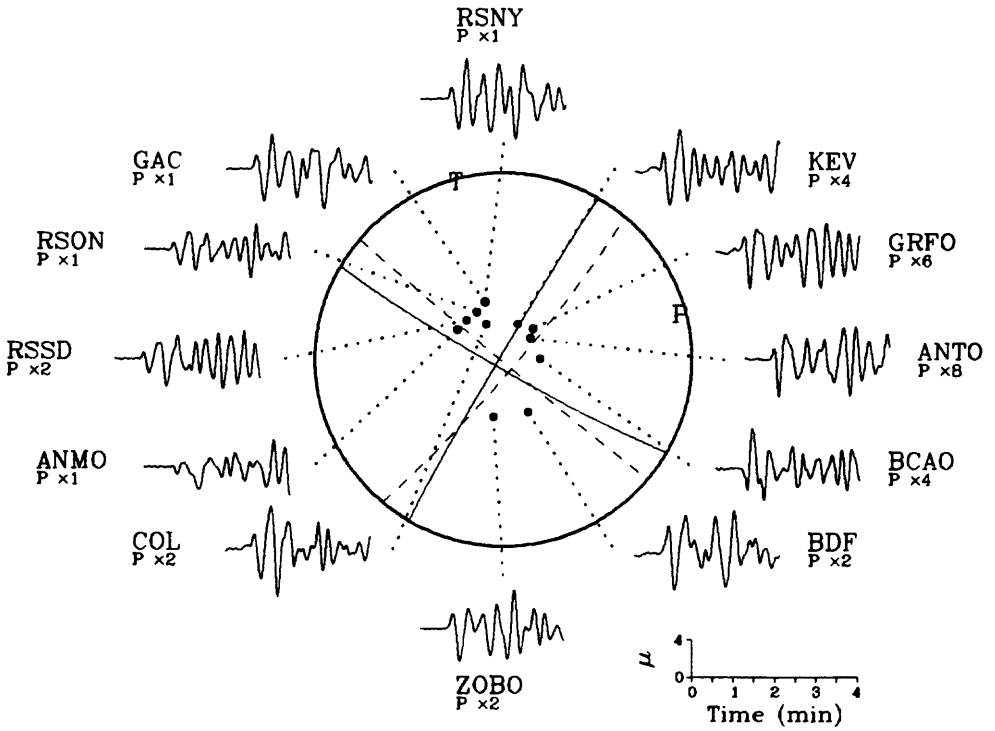
09 March 1985 14:08:04.38
Alaska



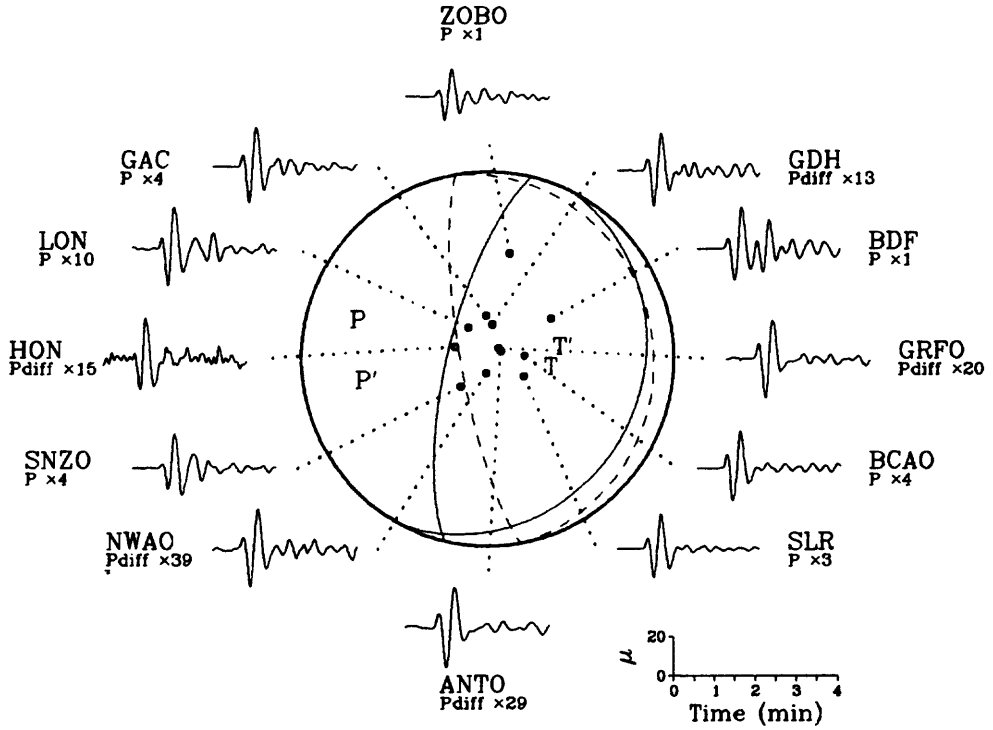
13 March 1985 19:34:57.69
Off Coast of Oregon



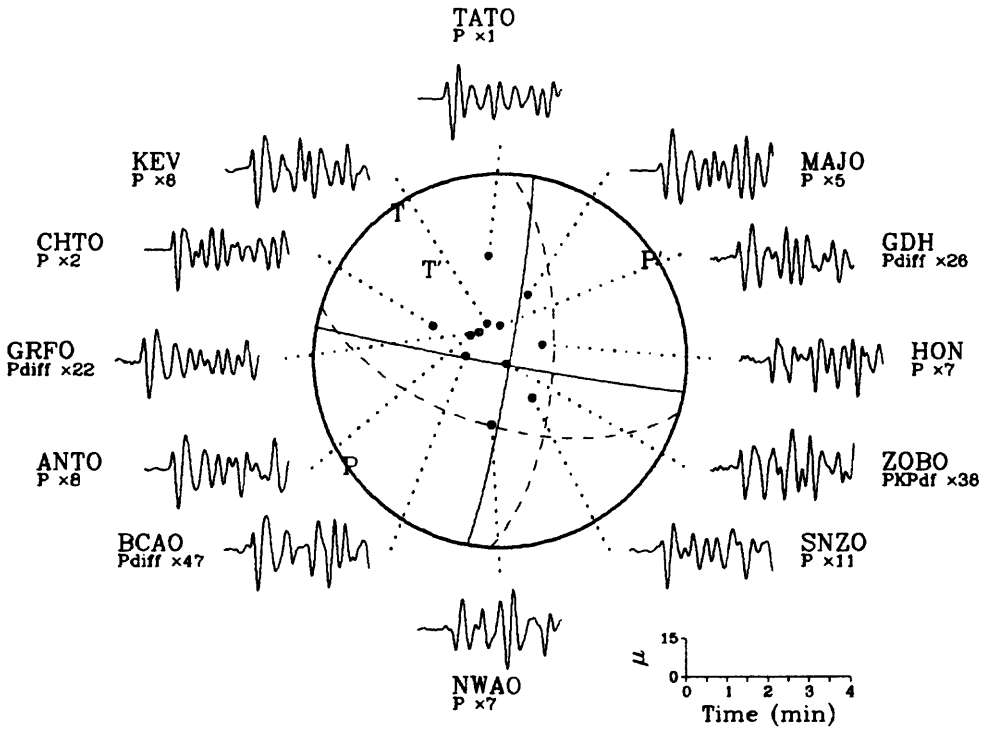
16 March 1985 14:54:00.72
Leeward Islands



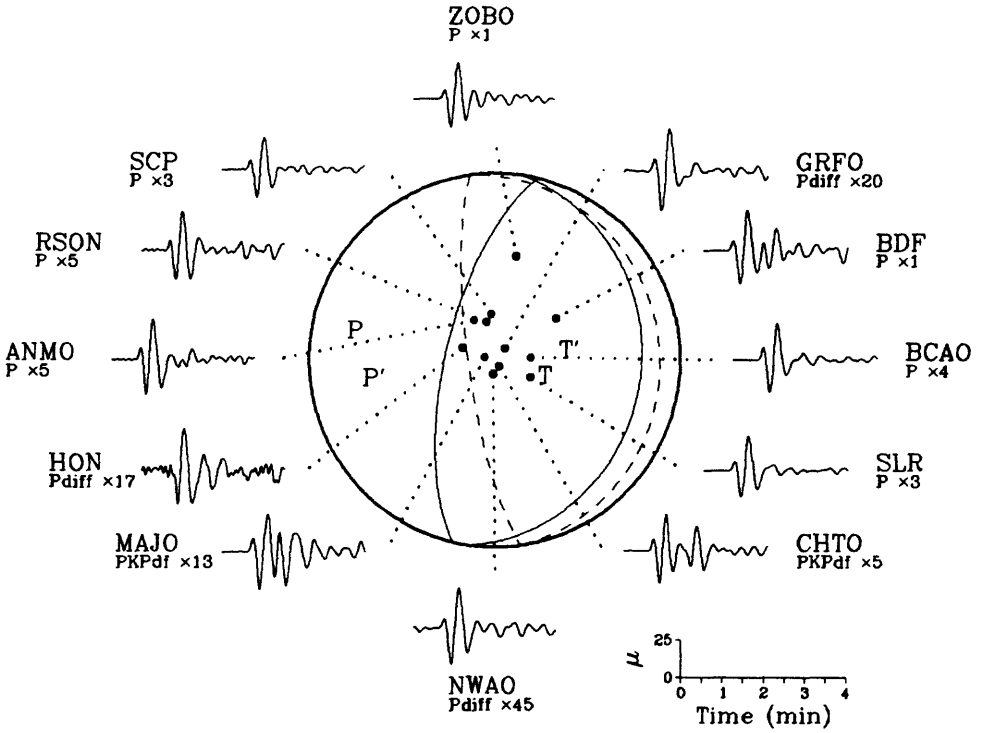
17 March 1985 10:41:38.48
Near Coast of Central Chile



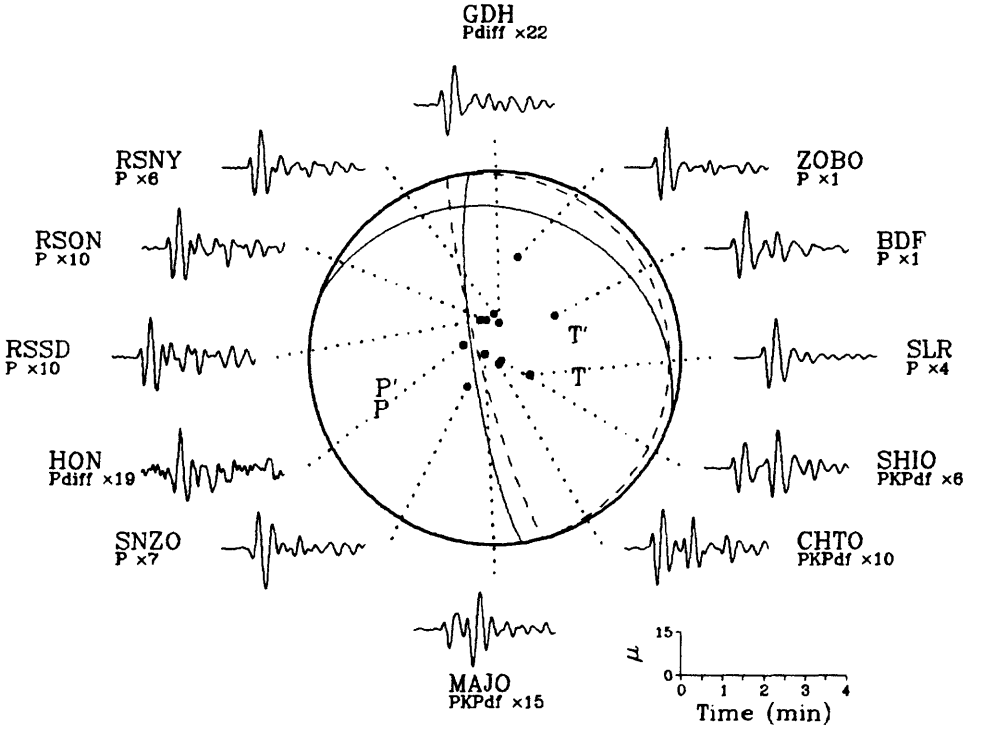
18 March 1985 19:49:45.84
Mindanao, Philippine Islands



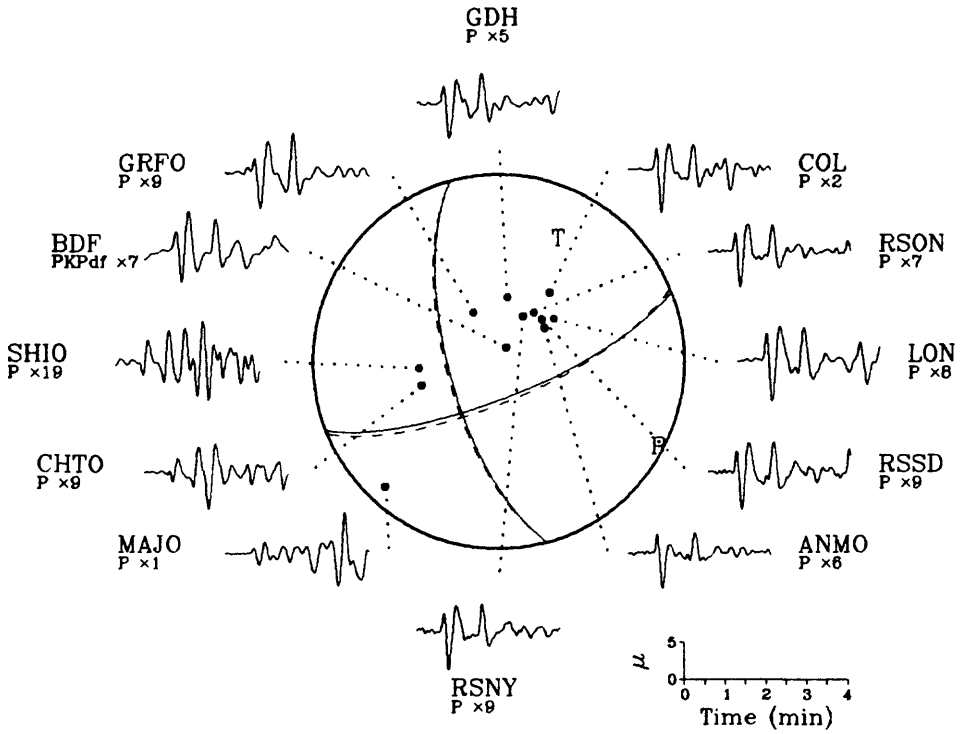
19 March 1985 04:01:08.00
Near Coast of Central Chile



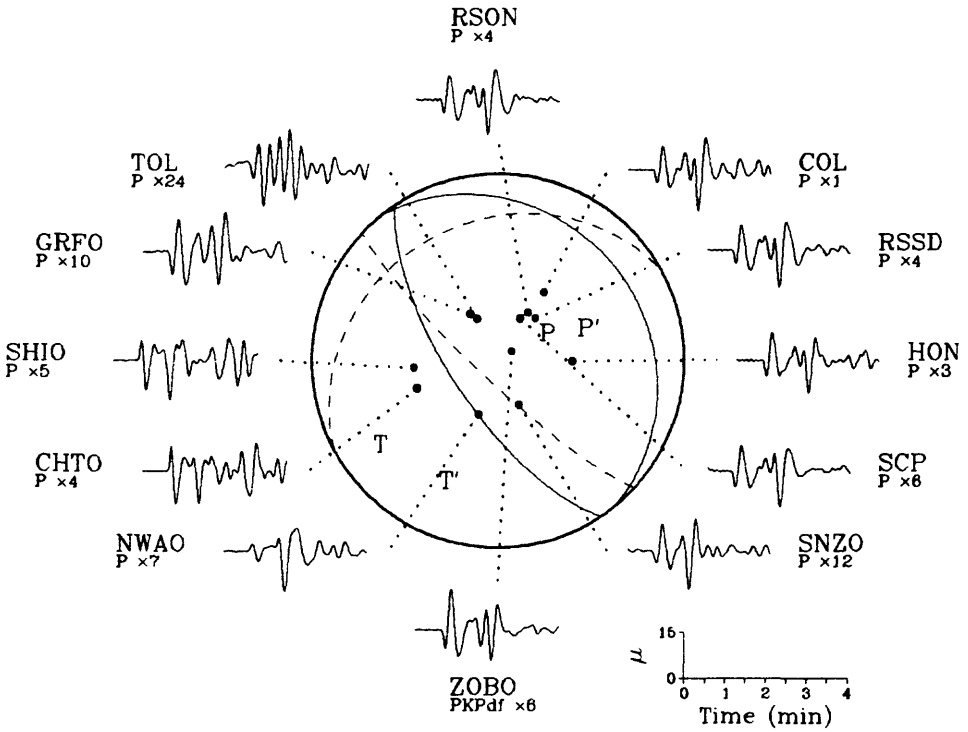
25 March 1985 05:14:35.14
Near Coast of Central Chile

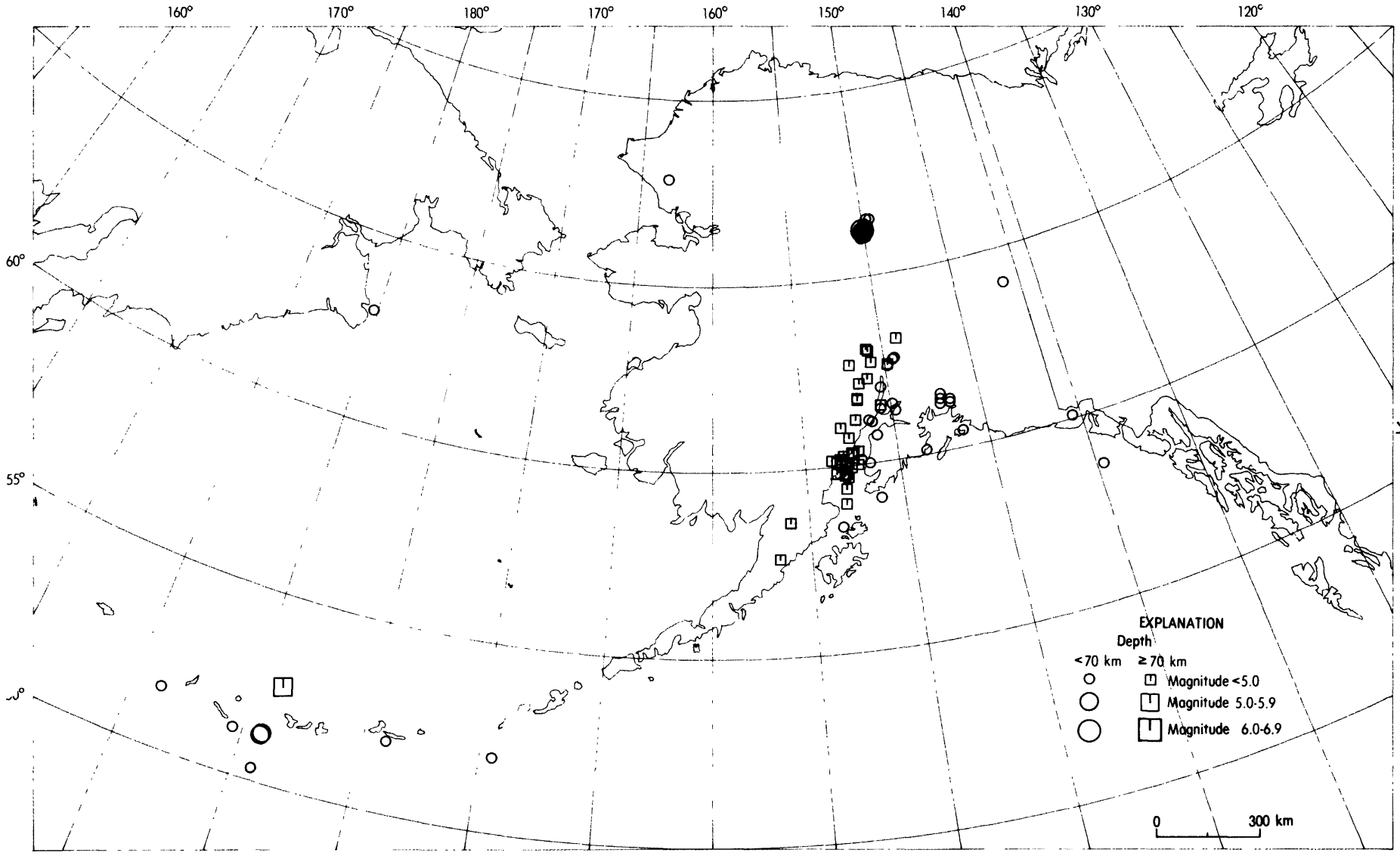


27 March 1985 12:48:12.35
Kuril Islands

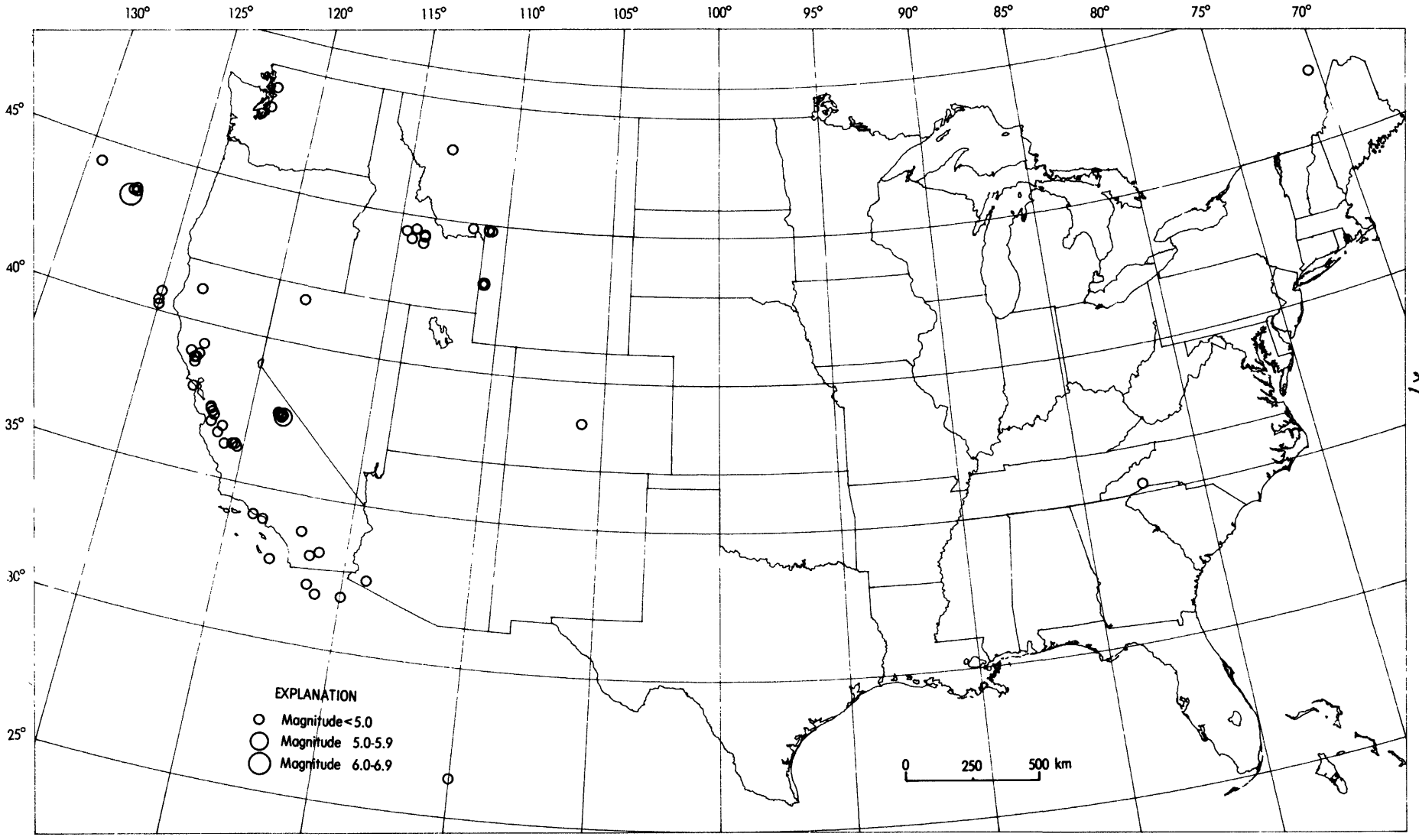


28 March 1985 16:07:06.84
Honshu, Japan

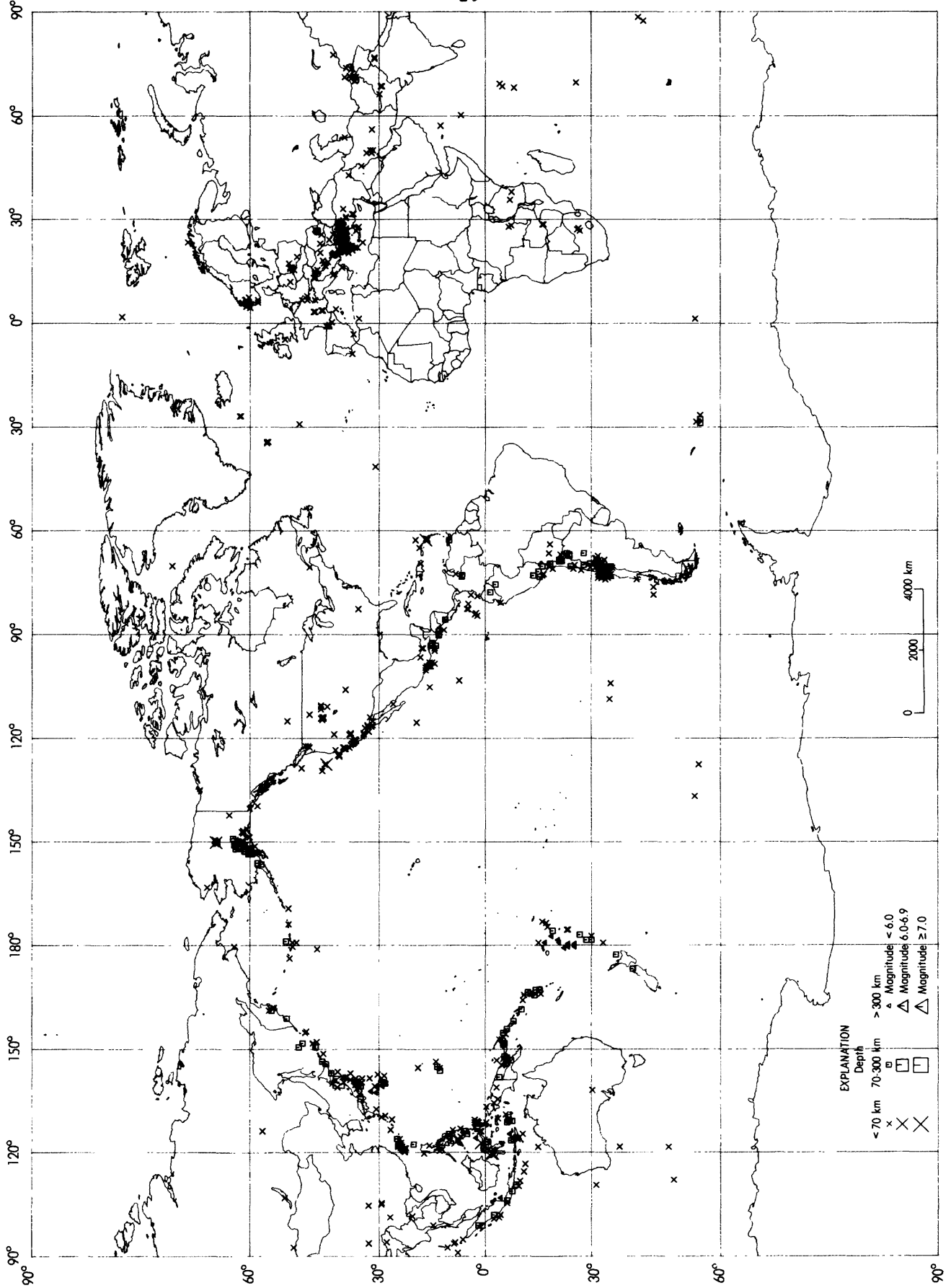




Earthquake epicenters in Alaska and adjacent regions for March, 1985 (C. Stover).



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



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

GPO 848-048