UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

PRELIMINARY DETERMINATION OF EPICENTERS
MONTHLY LISTING

JULY - SEPTEMBER 1989

NATIONAL EARTHQUAKE INFORMATION CENTER

Open File Report

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1989

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National Earthquake Information Center

JULY 1989

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	33	12.3*	34.655	S	72.170	W	13		4.4		1.1	16	NEAR COAST OF CENTRAL CHILE
	01	00	55	21.1&	40.368	N	125.072	W	8					13	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.4 (BRK).
	01	01	08	08.3&	67.071	N	156.231	W	10					9	ALASKA. <AGS-P>.
	01	01	09	24.9	44.303	N	6.742	E	10	G			0.7	15	FRANCE. ML 2.7 (LDG).
	01	02	12	19.0*	51.564	S	159.668	E	10	G	5.1	4.8	1.5	19	NORTH OF MACQUARIE ISLAND
	01	02	43	29.2*	8.668	S	108.716	E	54	*	4.1		1.0	12	JAVA
	01	02	45	47.0%	16.101	N	61.265	W	10	G			1.0	7	LEEWARD ISLANDS. ML 2.2 (FDF).
	01	03	05	31.6	36.164	N	28.034	E	10	G			0.6	8	DODECANESE ISLANDS. MD 3.6 (ATH).
a	01	03	59	14.4	6.447	S	147.861	E	44	*	5.3	5.0	1.3	79	EAST PAPUA NEW GUINEA REGION
	01	04	15	02.4*	38.532	N	26.618	E	10	G			0.6	8	AEGEAN SEA. MD 3.3 (ATH).
	01	05	23	06.1?	8.16	S	129.24	E	182	?	4.5		1.5	8	TIMOR SEA
	01	05	45	43.0	28.696	N	142.348	E	33	N	5.0	4.3	0.8	71	BONIN ISLANDS REGION
	01	05	59	56.9?	3.98	S	103.69	E	72	*	4.9		1.1	9	SOUTHERN SUMATERA
	01	06	21	23.6*	35.615	N	26.870	E	10	G			1.4	9	CRETE. MD 4.0 (ATH).
	01	07	06	22.2*	50.663	N	7.919	E	10	G			0.3	6	GERMANY
	01	10	04	15.0&	63.550	N	150.706	W	15					42	CENTRAL ALASKA. <AGS-P>. ML 4.0 (PMR).
	01	11	29	04.5%	60.744	N	5.554	E	10	G			0.6	7	SOUTHERN NORWAY. MD 1.9 (BER).
	01	11	34	03.8%	31.524	S	68.631	W	106	?			0.8	7	SAN JUAN PROVINCE, ARGENTINA
	01	11	45	39.5	19.113	N	68.111	W	24		5.0		0.8	96	NORTH ATLANTIC OCEAN. Felt at Cabo Rojo, Puerto Rico.
	01	12	04	34.6	51.573	N	16.183	E	10	G			1.0	32	POLAND. ML 4.2 (VKA), 4.2 (GRF), 3.2 (KRA).
	01	13	21	51.2	17.031	N	62.252	W	10	G			1.1	11	LEEWARD ISLANDS. ML 3.1 (FDF).
	01	13	35	04.7	37.977	N	27.544	E	10	G			1.0	9	TURKEY. MD 3.3 (ATH).
	01	14	04	33.1?	31.77	N	35.47	E	10	G			0.6	6	DEAD SEA REGION
	01	14	10	17.5*	0.934	N	126.976	E	33	N	4.8		1.3	11	MOLUCCA PASSAGE
	01	14	26	53.0?	7.20	S	129.48	E	158	?	4.3		1.4	11	BANDA SEA
	01	14	27	30.0*	46.612	N	10.573	E	10	G			1.2	9	NORTHERN ITALY
	01	14	57	47.8	43.236	N	12.359	E	10	G			1.1	7	CENTRAL ITALY. MD 2.8 (TRI).
	01	15	10	49.2&	61.880	N	149.661	W	5		3.2			27	SOUTHERN ALASKA. <AGS-P>. ML 4.0 (PMR). Felt (III) at Palmer and Willow.
	01	15	27	53.8?	42.08	N	120.59	W	5	G			1.4	5	OREGON. ML 3.1 (BRK).
	01	15	35	38.7	36.547	N	141.380	E	50		4.7	4.1	1.1	41	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Mito; (I JMA) at Onahama, Utsunamiya, Fukushima and Kumagaya.
	01	16	33	04.9	19.122	N	68.155	W	10	G	4.8	2.9	0.9	42	NORTH ATLANTIC OCEAN
	01	17	11	35.5	38.940	N	26.995	E	10	G			0.8	9	AEGEAN SEA. MD 3.5 (ATH).
	01	18	27	08.9	39.118	N	71.650	E	10	G	4.9	3.8	1.1	87	TAJIK SSR. Felt (III) at Dzhirgatal.
	01	18	43	23.6?	35.17	N	25.97	E	10	G			1.1	5	CRETE. MD 3.9 (ATH).
	01	18	51	30.3	37.780	N	29.358	E	10	G			0.8	12	TURKEY. MD 3.7 (ATH).
	01	19	09	59.1%	37.745	N	29.320	E	10	G			1.4	5	TURKEY
	01	20	52	35.4	26.164	S	70.600	W	46	*	5.0		1.2	33	NEAR COAST OF NORTHERN CHILE
	01	21	06	36.4*	10.858	S	164.235	E	33	N	4.9		1.3	20	SANTA CRUZ ISLANDS REGION
	01	21	24	30.0*	33.895	S	70.802	W	86	*			0.6	12	CHILE-ARGENTINA BORDER REGION
	01	23	57	17.2%	32.031	S	67.245	W	33	N			1.0	6	MENDOZA PROVINCE, ARGENTINA
	02	00	29	45.3?	36.86	N	141.94	E	33	N			0.9	8	NEAR EAST COAST OF HONSHU, JAPAN
	02	00	32	45.9*	51.294	N	15.952	E	10	G			0.6	6	POLAND
	02	00	40	20.5	38.602	N	14.378	E	10	G			0.9	8	SICILY
	02	02	07	18.7*	31.519	S	69.218	W	33	N			1.5	7	SAN JUAN PROVINCE, ARGENTINA
	02	03	52	10.0?	32.34	S	71.14	W	32				0.4	9	NEAR COAST OF CENTRAL CHILE
	02	04	07	06.8?	36.43	N	27.80	E	10	G			1.4	5	DODECANESE ISLANDS
	02	04	33	01.9	43.839	N	11.938	E	10	G			0.6	6	CENTRAL ITALY
	02	05	27	03.9%	15.769	N	60.835	W	33	N			0.7	10	LEEWARD ISLANDS. ML 2.5 (FDF).
	02	05	28	29.2*	13.415	S	166.421	E	33	N	4.5	5.2	1.0	19	VANUATU ISLANDS
	02	05	31	05.9*	14.837	S	71.310	W	33	N			0.7	6	PERU
	02	06	18	25.2?	22.82	N	121.29	E	33	N			0.4	5	TAIWAN REGION
	02	06	41	12.3?	53.31	N	107.92	E	33	N	4.3		1.4	10	LAKE BAIKAL REGION
	02	07	14	11.8	43.838	N	11.950	E	10	G			0.7	8	CENTRAL ITALY
	02	07	34	06.0	17.002	N	62.258	W	10	G			1.0	6	LEEWARD ISLANDS. ML 2.5 (FDF).
	02	07	48	49.1%	43.870	N	11.995	E	10	G			0.3	5	CENTRAL ITALY

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	02	07	53	22.2	43.821	N	11.927	E	10	G			0.8	7	CENTRAL ITALY
	02	07	55	16.0	24.569	N	95.896	E	33	N	4.9		0.9	17	BURMA
	02	08	49	05.2	18.858	N	145.203	E	598		4.5		0.9	80	MARIANA ISLANDS
	02	09	14	02.6*	18.994	S	177.793	W	562	*	4.1		0.6	13	FIJI ISLANDS REGION
	02	09	19	00.8*	17.446	N	94.643	W	131	*	4.1		1.1	15	CHIAPAS, MEXICO
	02	10	18	33.0%	31.540	S	68.066	W	33	N			1.0	5	SAN JUAN PROVINCE, ARGENTINA
	02	11	03	44.3?	31.45	S	69.25	W	113	?			0.8	7	SAN JUAN PROVINCE, ARGENTINA
	02	12	07	38.0%	43.876	N	11.886	E	10	G			1.1	6	CENTRAL ITALY
	02	12	15	46.3	42.855	N	13.115	E	10	G			1.2	10	CENTRAL ITALY
	02	12	45	47.1?	22.58	N	123.14	E	33	N	3.9		0.7	6	SOUTHEAST OF TAIWAN
	02	13	53	37.5?	19.74	S	68.88	W	85	?			0.1	5	CHILE-BOLIVIA BORDER REGION
	02	14	07	27.3*	1.385	S	77.977	W	190		4.5		0.6	19	ECUADOR
	02	14	11	04.6?	52.31	N	171.22	W	33	N	4.3		1.2	7	FOX ISLANDS, ALEUTIAN ISLANDS
	02	14	37	45.9*	21.987	S	177.212	W	199	?	4.6		1.1	25	FIJI ISLANDS REGION
	02	14	50	24.7*	27.920	S	67.281	W	33	N			0.2	6	CATAMARCA PROVINCE, ARGENTINA
	02	16	46	17.9?	23.97	S	178.93	E	530	?	4.4		1.0	13	SOUTH OF FIJI ISLANDS
	02	17	17	18.2	43.035	N	18.469	E	10	G			0.7	8	YUGOSLAVIA. ML 2.5 (TTG).
	02	17	36	17.1*	35.605	N	26.756	E	10	G			1.5	5	CRETE. MD 3.6 (ATH).
	02	18	39	34.8%	43.835	N	11.962	E	10	G			0.5	7	CENTRAL ITALY
	02	19	15	24.0%	31.339	S	69.384	W	33	N			1.5	6	SAN JUAN PROVINCE, ARGENTINA
	02	19	27	56.5*	31.943	S	67.886	W	108	?			0.7	8	SAN JUAN PROVINCE, ARGENTINA
	02	21	25	33.3*	9.613	S	118.964	E	33	N	4.8		1.2	7	SUMBAWA ISLAND REGION
	02	22	15	47.9%	41.979	N	14.013	E	10	G			1.1	7	SOUTHERN ITALY
	02	23	00	49.8*	25.151	N	98.561	E	10	G			1.1	6	BURMA-CHINA BORDER REGION
	02	23	40	14.6*	37.466	N	43.737	W	10	G	4.5		1.0	39	NORTH ATLANTIC OCEAN
	03	00	37	47.2?	34.95	N	139.18	E	10	G			0.2	5	NEAR S. COAST OF HONSHU, JAPAN. MG 2.7 (JMA). Felt (I JMA) at Ajiro.
	03	00	45	57.1*	38.930	N	20.256	E	10	G			1.4	10	GREECE. MD 3.4 (ATH).
	03	01	52	57.4%	42.696	N	11.973	E	10	G			0.8	5	CENTRAL ITALY
	03	05	13	18.5*	19.292	S	168.911	E	21		4.4	3.8	1.0	20	VANUATU ISLANDS
	03	06	09	11.7*	31.754	N	35.746	E	10	G			0.6	7	DEAD SEA REGION
	03	07	11	27.0%	37.824	N	29.280	E	10	G			0.5	5	TURKEY
	03	08	10	14.0	57.571	N	156.199	W	104		4.3		1.0	30	ALASKA PENINSULA
	03	08	34	23.4?	31.45	S	69.06	W	102	?			0.2	6	SAN JUAN PROVINCE, ARGENTINA
	03	08	36	58.3*	18.075	S	178.621	W	637		4.6		0.9	43	FIJI ISLANDS REGION
	03	11	04	41.0	37.651	N	22.857	E	91	*	3.7		1.1	12	SOUTHERN GREECE
	03	11	14	06.2	31.498	S	71.489	W	63	D	4.9		1.1	54	NEAR COAST OF CENTRAL CHILE. Felt (II) at Santiago.
	03	13	11	02.4*	37.728	N	22.335	E	10	G			0.6	5	SOUTHERN GREECE. MD 3.1 (ATH).
	03	13	15	09.6*	53.926	N	156.889	E	180	G	4.5		1.2	19	KAMCHATKA
	03	14	18	17.9?	4.71	S	153.88	E	140	?	4.0		1.2	11	NEW IRELAND REGION
	03	14	43	52.2	55.797	N	161.381	W	167	?			0.1	11	ALASKA PENINSULA
	03	14	54	04.8	40.476	N	12.807	E	10	G			0.8	24	TYRRHENIAN SEA
	03	15	12	39.5*	45.603	N	150.996	E	49	D	4.9		0.9	60	KURIL ISLANDS
	03	15	37	55.2%	61.644	N	5.198	E	0	G			0.8	8	SOUTHERN NORWAY. MD 2.2 (BER).
	03	16	06	41.2	23.887	N	122.861	E	33	N	4.2		1.6	19	TAIWAN REGION
	03	16	09	19.2?	36.68	N	141.38	E	33	N			1.3	8	NEAR EAST COAST OF HONSHU, JAPAN. MG 3.6 (JMA). Felt (I JMA) at Mito.
	03	17	02	32.7*	53.187	S	160.168	E	33	N	4.9	6.4	1.4	21	MACQUARIE ISLANDS REGION
a	03	17	09	55.8	51.617	N	175.208	W	33	N	5.7	5.7	0.9	276	ANDREANOF ISLANDS, ALEUTIAN IS. Ms 5.7 (BRK). Felt (V) on Adak. Also felt strongly on Atko.
	03	18	16	20.4?	17.91	N	61.94	W	33	N			0.3	10	LEEWARD ISLANDS. ML 3.6 (FDF).
	03	18	37	01.5%	43.848	N	11.902	E	10	G			0.9	6	CENTRAL ITALY
	03	18	58	54.6?	25.36	S	178.81	E	644	?	4.9		0.7	21	SOUTH OF FIJI ISLANDS
	03	19	04	37.4	3.026	S	129.536	E	33	N	4.9	4.0	1.2	35	CERAM
	03	21	08	30.4%	45.205	N	7.492	E	16	G			0.1	6	NORTHERN ITALY. ML 2.3 (GEN).
	03	21	52	19.8&	59.917	N	153.193	W	83		3.9			12	SOUTHERN ALASKA. <AGS-P>.
	03	22	42	42.8%	28.029	S	67.210	W	33	N			0.5	8	LA RIOJA PROVINCE, ARGENTINA
	03	22	44	28.6&	41.706	N	112.373	W	7		4.5			53	UTAH. <SLC-P>. ML 4.8 (SLC). Felt (V) at Garland and Tremontan; (IV) at Bear River City, Corinne, Fielding and Plymouth; (III) at Hawell, Newton, Portage and Snowville. Also felt (III) at Stone, Idaho.
	03	23	44	28.9	42.507	N	19.296	E	10	G			1.0	6	YUGOSLAVIA. ML 2.3 (TTG).
	04	00	09	17.2?	44.39	N	6.34	E	10	G			1.0	8	FRANCE. ML 2.4 (GEN).
	04	00	20	07.0*	31.244	S	69.126	W	33	N			1.5	5	SAN JUAN PROVINCE, ARGENTINA
	04	00	42	36.4*	41.054	N	20.055	E	10	G			1.4	9	ALBANIA. MG 2.5 (TIR).
	04	01	03	24.2	44.097	N	8.554	E	10	G			0.4	14	NORTHERN ITALY. ML 2.4 (GEN).
	04	01	14	16.0*	5.843	S	147.130	E	86	*	4.9		1.5	20	EAST PAPUA NEW GUINEA REGION
	04	01	31	31.4	31.438	S	70.592	W	163	?			0.6	14	CHILE-ARGENTINA BORDER REGION
	04	02	26	45.6*	44.063	N	149.623	E	33	N	4.6		0.7	11	KURIL ISLANDS
	04	02	28	24.6	52.187	N	174.302	E	33	N	4.7	4.2	0.9	74	NEAR ISLANDS, ALEUTIAN ISLANDS. ML 4.6 (PMR). Felt on Shemya.
	04	02	32	20.8?	31.48	S	68.44	W	93	?			0.2	6	SAN JUAN PROVINCE, ARGENTINA
	04	03	36	24.0*	49.160	N	6.849	E	10	G			0.9	5	GERMANY. MD 2.2 (STR).
	04	04	07	06.9&	41.707	N	112.377	W	6					7	UTAH. <SLC-P>. ML 2.7 (SLC).
	04	04	09	38.1*	18.029	N	105.886	W	33	N	4.2	4.0	1.1	13	OFF COAST OF JALISCO, MEXICO
	04	04	56	29.2*	24.736	S	70.942	W	90	?			0.5	6	NEAR COAST OF NORTHERN CHILE
	04	05	22	18.4*	35.035	N	139.152	E	5	G			0.4	5	NEAR S. COAST OF HONSHU, JAPAN. MG 3.5 (JMA). Felt (I JMA) on Oshima.
	04	05	42	27.0*	35.015	N	139.206	E	5	G			1.0	6	NEAR S. COAST OF HONSHU, JAPAN
	04	06	19	25.8*	31.311	N	140.197	E	33	N	4.2		1.0	7	SOUTH OF HONSHU, JAPAN
	04	07	16	39.8*	11.160	N	62.060	W	33	N			0.8	13	WINDWARD ISLANDS. MG 4.3 (FDF).
	04	07	32	42.9	35.043	N	139.204	E	5	G			0.8	7	NEAR S. COAST OF HONSHU, JAPAN. MG 3.3 (JMA). Felt (I JMA) on Oshima.
	04	08	49	56.9*	87.161	N	40.213	E	10	G	4.2	3.9	1.1	18	NORTH OF FRANZ JOSEF LAND
	04	09	16	11.5*	35.111	N	139.192	E	5	G			1.1	7	NEAR S. COAST OF HONSHU, JAPAN
	04	09	48	57.6*	40.462	N	21.740	E	10	G			0.5	5	GREECE. MD 3.9 (ATH).
	04	09	53	57.8	35.040	N	139.203	E	5	G			1.2	12	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) on Oshima.
	04	10	13	23.1?	4.56	S	143.60	E	130	?	4.4		0.8	9	PAPUA NEW GUINEA
	04	10	14	06.3	23.979	N	122.560	E	35	*	5.0	4.3	1.1	53	TAIWAN REGION
	04	11	06	01.1	37.103	N	71.451	E	33	N	4.8		1.0	19	AFGHANISTAN-USSR BORDER REGION
	04	12	17	15.6?	67.06	N	156.46	W	5	G			0.7	5	ALASKA. ML 3.2 (PMR).
	04	12	44	11.1	35.022	N	139.183	E	5	G			1.1	8	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) on Oshima.

	04	12	46	12.8	34.991	N	139.200	E	5	G	4.0	1.1	11	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) on Oshimo.
	04	12	57	29.6%	60.861	N	3.626	E	10	G		0.8	6	NORTH SEA. MD 1.8 (BER).
	04	13	02	52.5*	17.658	S	179.060	W	546	*	4.8	1.1	38	FIJI ISLANDS REGION
	04	13	18	44.2	34.904	N	139.169	E	27		4.7 4.3	1.1	34	NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) on Oshima.
	04	13	35	03.2*	50.438	N	6.125	E	10	G		0.1	5	GERMANY. MD 1.9 (UCC).
	04	14	50	22.3	22.466	S	68.805	W	33	N		0.7	6	NORTHERN CHILE
	04	15	11	36.7*	34.804	N	139.225	E	33	N		0.7	7	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) on Oshima.
	04	16	00	33.7?	37.03	N	2.76	W	5	G		0.2	4	SPAIN. mbLg 2.8 (MDD).
	04	16	57	46.3	30.260	S	177.119	W	33	N	4.7	0.9	28	KERMADEC ISLANDS
	04	17	28	22.9	35.038	N	139.184	E	32		4.6 4.2	1.2	68	NEAR S. COAST OF HONSHU, JAPAN. Felt (IV JMA) at Ajiro and (I JMA) at Nagatsuro.
	04	17	30	13.1?	67.03	N	20.43	E	10	G		0.7	4	SWEDEN. MD 2.7 (BER).
	04	18	13	03.5	43.300	N	18.936	E	10	G		1.4	14	YUGOSLAVIA. ML 2.5 (TTG).
	04	18	14	38.6*	32.125	S	71.552	W	10	G		1.0	14	NEAR COAST OF CENTRAL CHILE
a	04	19	42	41.4	5.877	N	125.621	E	80	*	4.9	1.2	101	MINDANAO, PHILIPPINE ISLANDS
	04	19	53	51.4*	38.881	N	24.770	E	10	G		1.4	5	AEGEAN SEA. ML 3.0 (ATH).
	04	20	10	11.7%	61.145	N	10.131	E	10	G		0.8	6	SOUTHERN NORWAY. MD 2.1 (BER).
	04	20	34	02.9?	37.66	N	73.89	E	33	N	4.6	1.0	8	TAJIK SSR
	04	21	09	49.2	40.827	N	28.107	E	10	G		0.4	7	TURKEY
	04	21	19	43.4	35.421	N	22.444	E	10	G		1.2	10	MEDITERRANEAN SEA. ML 3.8 (ATH).
	04	21	45	27.4*	51.619	N	7.390	E	10	G		1.2	5	GERMANY
	04	22	19	39.4	43.479	N	19.014	E	10	G		1.1	34	YUGOSLAVIA. ML 3.4 (LJU), 2.9 (TTG). MD 3.8 (ATH).
	05	00	03	36.1*	51.024	N	15.435	E	10	G		1.0	7	POLAND
	05	00	13	37.5*	10.407	S	77.519	W	103	*	4.7	1.2	20	NEAR COAST OF PERU
	05	00	28	30.1*	66.515	N	12.753	E	10	G		1.5	10	NORTHERN NORWAY. MD 3.4 (BER).
	05	00	37	48.7	39.616	N	20.167	E	31		3.7	1.2	46	GREECE-ALBANIA BORDER REGION. ML 4.0 (ATH), 3.4 (TTG). Felt (IV) in the Konispol area, Albania.
	05	01	20	08.5&	41.708	N	112.370	W	10				7	UTAH. <SLC-P>. ML 2.7 (SLC).
	05	01	29	41.3*	66.468	N	13.292	E	10	G		0.9	7	NORTHERN NORWAY. MD 3.3 (BER).
	05	01	36	10.4?	31.45	S	68.60	W	83	?		0.1	6	SAN JUAN PROVINCE, ARGENTINA
	05	02	46	14.7	47.673	N	14.721	E	10	G		1.0	11	AUSTRIA. ML 3.2 (GRF), 2.7 (KBA). Felt (IV) at Landl.
	05	02	51	15.7*	29.204	N	141.158	E	80	G	4.8	1.4	12	SOUTH OF HONSHU, JAPAN
	05	02	51	22.9	38.794	N	27.881	E	10	G		1.1	24	TURKEY. MD 3.7 (ATH).
	05	03	21	10.7	47.637	N	14.677	E	10	G		1.1	15	AUSTRIA. ML 3.5 (GRF), 3.1 (KBA). Felt (IV) at Landl.
	05	03	25	35.8%	31.374	S	69.513	W	33	N		1.3	5	SAN JUAN PROVINCE, ARGENTINA
	05	03	37	36.6?	34.76	N	139.38	E	5	G	4.8	1.3	5	NEAR S. COAST OF HONSHU, JAPAN
	05	03	53	04.1%	31.576	S	67.935	W	10	G		0.6	7	SAN JUAN PROVINCE, ARGENTINA
	05	05	24	17.3*	16.240	N	105.207	W	10	G	4.3 3.8	0.7	9	OFF COAST OF MICHOACAN, MEXICO
	05	05	42	05.7&	60.239	N	153.755	W	178				28	SOUTHERN ALASKA. <AGS-P>.
	05	08	37	18.1*	55.298	N	159.261	W	52	?		0.1	11	ALASKA PENINSULA
	05	08	49	40.7	43.356	N	18.883	E	10	G		1.5	17	YUGOSLAVIA. ML 2.9 (TTG).
	05	09	19	13.5?	43.40	N	18.86	E	10	G		1.3	7	YUGOSLAVIA. ML 2.5 (TTG).
	05	09	52	43.8*	30.563	S	71.949	W	150	*	4.9	1.2	20	NEAR COAST OF CENTRAL CHILE
	05	10	15	18.7%	31.633	S	67.993	W	5	G		1.2	7	SAN JUAN PROVINCE, ARGENTINA
	05	10	27	43.0?	34.92	N	139.19	E	5	G		1.0	6	NEAR S. COAST OF HONSHU, JAPAN
	05	11	21	32.9	17.126	N	93.245	W	10	G	4.1	1.4	22	CHIAPAS, MEXICO
	05	12	09	21.4*	1.289	N	85.474	W	10	G	4.7 4.3	1.0	22	OFF COAST OF ECUADOR
	05	12	50	06.0	10.718	N	62.185	W	74	*		0.4	23	NEAR COAST OF VENEZUELA
	05	13	05	57.4%	59.939	N	6.376	E	10	G		0.4	5	SOUTHERN NORWAY. ML 1.6 (BER).
	05	13	12	41.5	39.140	N	23.421	E	10	G		0.9	9	AEGEAN SEA. ML 2.9 (ATH).
	05	13	28	41.9	24.003	N	122.635	E	29		4.8	1.1	33	TAIWAN REGION
	05	13	51	11.4?	7.15	S	128.84	E	119	?	4.6	1.3	8	BANDA SEA
	05	13	54	51.0?	34.91	N	139.22	E	5	G		1.4	5	NEAR S. COAST OF HONSHU, JAPAN
	05	13	58	22.6?	35.11	N	139.19	E	5	G		1.5	7	NEAR S. COAST OF HONSHU, JAPAN
	05	14	01	10.6?	34.86	N	139.20	E	5	G		1.2	5	NEAR S. COAST OF HONSHU, JAPAN
	05	14	05	54.7?	34.92	N	139.21	E	5	G		1.0	5	NEAR S. COAST OF HONSHU, JAPAN
	05	14	09	45.4?	34.97	N	139.20	E	5	G		0.9	5	NEAR S. COAST OF HONSHU, JAPAN
	05	14	19	22.0?	34.39	N	139.29	E	5	G		1.5	6	NEAR S. COAST OF HONSHU, JAPAN
	05	14	24	21.0?	35.02	N	139.21	E	33	N		1.3	7	NEAR S. COAST OF HONSHU, JAPAN
	05	14	31	02.2*	1.682	S	14.550	W	10	G	4.6	1.3	16	NORTH OF ASCENSION ISLAND
	05	14	34	30.6%	31.222	S	68.329	W	94	?		0.3	7	SAN JUAN PROVINCE, ARGENTINA
	05	16	01	28.4&	62.556	N	152.082	W	13				30	CENTRAL ALASKA. <AGS-P>. ML 3.4 (PMR).
a	05	16	16	31.8	4.057	N	126.625	E	94	*	4.9	1.0	83	TALAUD ISLANDS
	05	16	20	32.8*	30.973	S	69.042	W	33	N		0.8	7	CHILE-ARGENTINA BORDER REGION
	05	17	34	03.1*	34.933	N	139.198	E	5	G		0.8	7	NEAR S. COAST OF HONSHU, JAPAN
	05	17	59	34.8	45.337	N	6.682	E	10	G		1.3	10	FRANCE. ML 2.4 (LDG).
	05	18	26	39.4*	35.033	N	139.210	E	5	G		0.9	6	NEAR S. COAST OF HONSHU, JAPAN
	05	18	46	24 0?	34.94	N	139.18	E	5	G		1.3	7	NEAR S. COAST OF HONSHU, JAPAN
	05	18	47	54 9	34.916	N	139.180	E	5	G		0.8	9	NEAR S. COAST OF HONSHU, JAPAN
	05	18	52	20.6?	34.80	N	139.19	E	33	N		1.5	6	NEAR S. COAST OF HONSHU, JAPAN
	05	19	57	04.8	17.113	N	62.316	W	10	G		0.7	6	LEEWARD ISLANDS. ML 2.7 (FDF).
	05	20	30	04.5*	34.783	N	139.193	E	5	G	3.7	1.3	12	NEAR S. COAST OF HONSHU, JAPAN
	05	20	32	33.1?	34.98	N	139.14	E	5	G		1.5	6	NEAR S. COAST OF HONSHU, JAPAN
	05	20	45	11.5*	35.054	N	139.190	E	5	G		0.9	6	NEAR S. COAST OF HONSHU, JAPAN
	05	20	46	19.2	34.222	S	70.106	W	10	G		0.5	11	CHILE-ARGENTINA BORDER REGION
	05	20	59	24.8*	35.011	N	139.190	E	5	G		0.7	6	NEAR S. COAST OF HONSHU, JAPAN
	05	21	01	39.5?	34.91	N	139.09	E	5	G		0.6	5	NEAR S. COAST OF HONSHU, JAPAN
	05	21	21	48.5?	34.83	N	139.25	E	5	G		1.5	5	NEAR S. COAST OF HONSHU, JAPAN
	05	21	24	49.7?	35.17	N	139.13	E	5	G		1.0	4	NEAR S. COAST OF HONSHU, JAPAN
	05	21	48	36.8?	34.94	N	139.20	E	5	G		1.1	5	NEAR S. COAST OF HONSHU, JAPAN
	05	21	53	36.1?	34.95	N	139.21	E	5	G		0.9	5	NEAR S. COAST OF HONSHU, JAPAN
	05	21	58	07.0?	35.00	N	139.15	E	5	G		1.3	5	NEAR S. COAST OF HONSHU, JAPAN
	05	22	15	29.2?	35.10	N	139.14	E	5	G		1.5	7	NEAR S. COAST OF HONSHU, JAPAN
	05	22	22	57.4*	17.142	N	62.348	W	33	N		1.4	7	LEEWARD ISLANDS
	05	22	42	27.9&	57.694	N	142.881	W	10	G			11	GULF OF ALASKA. <AGS-P>.
	05	22	51	56.3&	41.707	N	112.371	W	10		4.2		34	UTAH. <SLC-P>. ML 4.6 (SLC). Felt (IV) at Corinne, Fielding, Garland, Howell, Portage and Riverside. Felt (III) at Bear River City, Newton, Plymouth, Snowville and Tremonton.
	05	22	55	49.4	48.808	N	154.764	E	62	D	4.8	0.9	92	KURIL ISLANDS
	05	23	17	27.1?	32.32	S	71.79	W	10	G		0.8	9	NEAR COAST OF CENTRAL CHILE
	06	00	15	56.1*	51.610	N	7.019	E	10	G		0.4	5	GERMANY

	06	00	57	30.8*	34.860	N	139.186	E	5	G		1.0	12 NEAR S. COAST OF HONSHU, JAPAN
	06	01	12	31.0*	39.013	N	99.564	W	5	G		1.1	6 KANSAS. mbLg 2.7 (NEIS). Felt (III) at Palco.
	06	01	15	18.8&	63.440	N	150.594	W	138		3.4		42 CENTRAL ALASKA. <AGS-P>.
	06	02	08	16.4*	35.483	N	27.647	E	10	G		0.2	5 DODECANESE ISLANDS. MD 3.5 (ATH).
	06	02	39	06.6?	22.76	S	66.24	W	240	G		0.6	5 JUJUY PROVINCE, ARGENTINA
	06	03	51	12.4*	34.876	N	139.195	E	5	G		1.2	10 NEAR S. COAST OF HONSHU, JAPAN
	06	04	28	50.8?	52.13	S	159.34	E	10	G	4.7 4.2	1.5	13 MACQUARIE ISLANDS REGION
	06	04	41	53.0*	43.188	N	0.393	W	10	G		1.0	6 PYRENEES. ML 3.2 (LDG). mbLg 3.3 (MDD). Felt (IV) in the Ossau and Aspe Valleys, France.
	06	05	10	50.0&	36.100	N	120.200	W	4				16 CENTRAL CALIFORNIA. <BRK>. ML 2.7 (BRK).
	06	06	20	18.6%	31.659	S	67.791	W	33	N		1.5	5 SAN JUAN PROVINCE, ARGENTINA
	06	07	07	55.2	47.474	N	115.788	W	5	G		0.4	15 MONTANA. ML 3.4 (BUT). Felt (V) at Mullan, Idaho. Also felt at Wallace, Idaho.
	06	09	31	26.1	43.201	N	4.863	E	5	G		1.2	22 NEAR SOUTH COAST OF FRANCE. ML 2.9 (LDG), 2.7 (STR).
	06	09	45	07.5&	64.779	N	147.748	W	12				8 CENTRAL ALASKA. <AGS-P>. Felt at Fairbanks.
	06	09	52	02.0	44.501	N	6.876	E	10	G		0.4	9 FRANCE. ML 2.4 (GEN).
	06	10	18	21.3?	34.69	N	139.25	E	33	N		1.1	6 NEAR S. COAST OF HONSHU, JAPAN
	06	10	36	54.2?	34.91	N	139.22	E	5	G		1.1	5 NEAR S. COAST OF HONSHU, JAPAN
	06	10	38	25.5*	38.772	N	102.635	W	5	G		1.4	5 COLORADO. ML 2.8 (NEIS).
	06	11	39	01.4%	41.892	N	13.994	E	10	G		0.8	7 SOUTHERN ITALY
	06	12	45	48.9	16.002	N	60.574	W	14			0.6	17 LEEWARD ISLANDS. ML 4.2 (FDF).
	06	12	53	00.2*	34.848	N	139.176	E	5	G		0.9	10 NEAR S. COAST OF HONSHU, JAPAN
	06	13	26	41.4?	34.92	N	139.27	E	5	G		0.8	6 NEAR S. COAST OF HONSHU, JAPAN
	06	14	23	56.8*	17.643	S	178.771	W	585	*	4.2	0.6	12 FIJI ISLANDS REGION
	06	14	51	54.5	34.908	N	139.184	E	5	G		0.7	10 NEAR S. COAST OF HONSHU, JAPAN
	06	15	01	41.0	34.933	N	139.200	E	5	G	4.9 4.3	1.0	86 NEAR S. COAST OF HONSHU, JAPAN. Felt (IV JMA) at Ajiro and on Oshima; (III JMA) at Tokyo, Kofu and Mishima.
	06	15	16	39.8*	0.355	N	122.396	E	135	?	4.8	0.9	17 MINAHASSA PENINSULA
	06	16	38	41.1?	34.97	N	139.16	E	5	G		0.9	5 NEAR S. COAST OF HONSHU, JAPAN
a	06	17	25	29.4	16.632	S	177.365	W	23	D	5.3 5.5	1.1	93 FIJI ISLANDS REGION. Ms 5.6 (BRK).
	06	19	50	38.8?	15.48	N	60.28	W	33	N		1.0	7 LEEWARD ISLANDS. ML 2.7 (FDF).
	06	20	06	14.1*	16.414	S	176.212	W	380	*	4.5	1.1	41 FIJI ISLANDS REGION
a	06	20	22	53.2	8.014	N	126.786	E	60	*	5.3 4.5	1.2	83 MINDANAO, PHILIPPINE ISLANDS
	06	21	05	19.5*	34.824	N	139.180	E	5	G		0.9	10 NEAR S. COAST OF HONSHU, JAPAN
	06	21	32	57.9%	41.846	N	12.781	E	10	G		0.4	5 SOUTHERN ITALY
	06	23	21	03.8	17.568	N	101.400	W	33	N	4.8	1.3	88 NEAR COAST OF GUERRERO, MEXICO
	07	02	00	04.7?	24.84	N	125.07	E	33	N		0.3	6 SOUTHWESTERN RYUKYU ISLANDS
	07	02	41	04.8&	62.854	N	150.640	W	92				21 CENTRAL ALASKA. <AGS-P>.
	07	03	23	39.8%	38.207	N	28.855	E	10	G		0.6	7 TURKEY
	07	03	40	43.2	37.244	S	176.363	E	340		4.4	0.6	31 NORTH ISLAND, NEW ZEALAND
	07	03	50	40.1?	48.36	N	1.12	W	10	G		0.2	4 FRANCE. ML 2.6 (LDG).
	07	04	30	29.8	43.367	N	5.427	E	10	G		1.0	26 NEAR SOUTH COAST OF FRANCE
	07	04	39	34.7*	34.938	N	139.376	E	5	G	4.8	1.3	12 NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) in the Ajiro area; (II JMA) at Tokyo and Yokohama.
	07	05	56	20.8	28.384	S	68.253	W	126	*	4.4	1.5	22 LA RIOJA PROVINCE, ARGENTINA
	07	06	49	48.2	36.966	N	112.177	W	5	G		0.8	15 WESTERN ARIZONA. ML 2.9 (NEIS).
	07	06	53	27.2?	45.06	N	7.30	E	10	G		0.1	4 NORTHERN ITALY. ML 2.0 (GEN).
	07	10	14	19.9*	17.232	N	99.744	W	33	N		1.2	7 GUERRERO, MEXICO
	07	10	50	18.5?	51.82	S	161.32	E	10	G	4.9 4.6	1.4	8 NORTH OF MACQUARIE ISLAND
	07	10	56	10.1&	38.018	N	122.223	W	11				15 NORTHERN CALIFORNIA. <BRK>. ML 2.9 (BRK). Mo=6.2*10**13 Nm (BRK). Felt (V) at Hercules and (III) at Walnut Creek. Also felt at Benicia, Martinez, Pinole, Richmond, Rodeo, San Pablo and San Francisco.
	07	11	11	30.2*	3.725	S	129.929	E	112	?	4.3	0.8	7 CERAM
	07	12	26	19.9*	2.668	S	138.805	E	53	?	4.6 3.2	1.2	14 WEST IRIAN
a	07	12	27	51.0*	36.265	S	99.250	W	10	G	5.2 5.0	1.5	60 SOUTHERN PACIFIC OCEAN
	07	12	28	20.2*	49.924	N	5.341	E	10	G		1.2	5 FRANCE. MD 1.8 (UCC).
	07	12	39	51.7*	17.420	S	168.725	E	33	N	4.9 4.8	1.4	14 VANUATU ISLANDS
	07	13	26	45.4&	61.852	N	150.780	W	64				28 SOUTHERN ALASKA. <AGS-P>.
	07	14	15	11.7%	60.702	N	5.533	E	10	G		0.9	8 SOUTHERN NORWAY. MD 1.8 (BER).
	07	15	29	43.4	41.758	N	19.555	E	10	G		0.9	17 ALBANIA. ML 2.9 (TTG).
	07	16	00	49.4	20.289	S	68.783	W	128	*	4.4	1.0	16 CHILE-BOLIVIA BORDER REGION
	07	17	31	06.6?	9.33	N	82.51	W	33	N		0.3	5 PANAMA-COSTA RICA BORDER REGION
	07	17	33	13.6&	59.941	N	153.306	W	133				28 SOUTHERN ALASKA. <AGS-P>.
	07	17	34	01.8?	44.61	N	6.71	E	10	G		0.7	4 FRANCE. ML 2.1 (GEN).
	07	19	14	58.6	8.019	S	127.749	E	33	N	4.7	1.4	38 TIMOR
	07	19	32	22.7?	67.09	N	156.24	W	5	G		0.3	9 ALASKA. ML 2.6 (PMR).
a	07	19	41	18.8	4.823	S	128.973	E	34	D	5.5 4.8	1.1	89 BANDA SEA
	07	20	12	23.0&	62.861	N	151.080	W	107				11 CENTRAL ALASKA. <AGS-P>.
	07	21	45	37.5*	3.370	S	135.628	E	33	N	5.0 4.1	1.5	17 WEST IRIAN REGION
	07	22	18	00.2	34.577	N	23.913	E	15		4.4	1.3	62 CRETE. ML 4.0 (ATH).
	07	22	24	00.3	44.830	N	9.285	E	11			1.1	16 NORTHERN ITALY. ML 2.7 (LDG).
	07	22	34	01.8&	60.620	N	151.892	W	73				21 KENAI PENINSULA, ALASKA. <AGS-P>.
	07	22	37	06.3	3.325	S	146.808	E	34	*	4.6 4.2	1.0	19 BISMARCK SEA
	07	22	42	53.2%	38.593	N	27.455	E	10	G		1.2	5 TURKEY
	07	23	29	37.2*	13.592	S	166.586	E	95	?	5.1	1.0	52 VANUATU ISLANDS
	07	23	38	11.9*	51.593	N	16.178	E	10	G		0.7	13 POLAND. ML 3.9 (GRF), 3.6 (VKA).
	07	23	58	38.5*	39.991	N	23.393	E	10	G		1.3	8 AEGEAN SEA
	08	00	36	50.4	49.176	N	6.925	E	10	G		0.3	7 GERMANY. MD 1.0 (STR).
a	08	00	48	09.7	17.720	S	172.945	W	41	D	5.1 5.0	1.0	131 TONGA ISLANDS REGION
	08	01	01	23.6&	56.918	N	142.870	W	10	G			16 GULF OF ALASKA. <AGS-P>.
	08	01	12	21.3	43.800	N	11.992	E	10	G		0.8	9 CENTRAL ITALY
	08	01	13	06.9?	34.89	N	139.10	E	5	G		0.1	5 NEAR S. COAST OF HONSHU, JAPAN
	08	01	25	33.8?	37.59	N	141.80	E	5	G		1.0	5 NEAR EAST COAST OF HONSHU, JAPAN
	08	01	40	57.3	61.390	N	141.281	W	10	G	3.9	1.6	20 SOUTHERN ALASKA. ML 4.1 (PMR).
	08	02	03	36.6	38.250	N	22.643	E	10	G		1.0	9 GREECE. ML 2.9 (ATH).
	08	02	04	23.6%	43.796	N	11.978	E	10	G		1.2	5 CENTRAL ITALY
	08	02	48	30.9	43.830	N	11.994	E	10	G		0.8	7 CENTRAL ITALY
	08	03	26	16.0	43.864	N	12.009	E	10	G		1.5	7 CENTRAL ITALY
	08	03	46	57.6	49.888	N	78.802	E	0	G	5.6 4.1	0.9	375 EASTERN KAZAKH SSR
	08	04	55	21.0*	13.740	N	61.441	W	10	G		1.5	7 WINDWARD ISLANDS. ML 2.9 (FDF).
	08	05	04	07.9*	28.740	S	67.442	W	143	?		0.1	8 LA RIOJA PROVINCE, ARGENTINA
	08	05	39	24.2	44.518	N	10.024	E	10	G		1.0	6 NORTHERN ITALY

	08	05 45 36.2*	11.527	S	117.923	E	33	N	3.8		0.9	5	SOUTH OF SUMBAWA ISLAND
	08	05 45 51.3	36.716	N	28.072	E	70	*			1.0	18	DODECANESE ISLANDS. MD 4.1 (ATH).
	08	06 10 22.8?	51.65	N	16.39	E	10	G			1.0	5	POLAND. ML 3.6 (VKA), 3.4 (GRF).
	08	07 43 33.4*	1.443	N	126.829	E	90	G	4.4		0.9	16	MOLUCCA PASSAGE
	08	09 31 57.1	52.841	N	159.859	E	31	D	5.5	4.2	0.9	233	OFF EAST COAST OF KAMCHATKA
a	08	10 33 07.8	1.162	N	121.476	E	41		5.5	5.1	1.1	164	MINAHASSA PENINSULA
	08	10 56 54.1	52.654	N	164.053	W	33	N	5.1	5.0	0.9	156	SOUTH OF ALASKA
	08	11 10 30.8*	59.718	N	152.767	W	33	N			1.2	7	SOUTHERN ALASKA. ML 3.0 (PMR).
	08	11 23 42.1*	27.656	S	67.446	W	172	*			0.8	11	CATAMARCA PROVINCE, ARGENTINA
	08	11 25 51.6?	35.02	N	138.88	E	5	G			0.5	5	HONSHU, JAPAN
	08	11 35 15.2	34.770	N	139.331	E	5	G			0.7	10	NEAR S. COAST OF HONSHU, JAPAN
	08	12 05 24.9%	12.994	S	75.832	W	33	N			0.4	6	PERU
	08	12 22 58.4	44.856	N	7.747	E	23				0.8	33	NORTHERN ITALY. ML 2.8 (LDG), 2.7 (GEN).
	08	12 46 48.7*	34.762	N	139.358	E	5	G			0.6	8	NEAR S. COAST OF HONSHU, JAPAN
	08	13 26 39.6*	71.689	N	3.617	W	10	G	4.4		1.4	19	JAN MAYEN ISLAND REGION
	08	14 31 41.1*	34.162	N	26.173	E	33	N	4.4		1.3	8	CRETE
	08	14 44 06.2*	9.034	N	138.005	E	33	N	4.9		1.1	14	WEST CAROLINE ISLANDS
	08	15 41 11.5	45.602	N	26.507	E	140		4.4		1.1	82	ROMANIA
	08	15 48 17.4	41.215	N	23.180	E	10	G			0.8	14	GREECE-BULGARIA BORDER REGION. MD 3.5 (ATH). ML 3.0 (SKO).
	08	17 07 28.8?	34.92	N	139.12	E	5	G			1.2	7	NEAR S. COAST OF HONSHU, JAPAN
	08	17 38 21.0&	37.425	N	121.707	W	6					12	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
	08	17 43 46.0?	5.33	S	103.85	E	60	G	3.9		1.1	7	SOUTHERN SUMATERA
	08	19 24 26.2?	34.71	N	139.43	E	5	G			1.0	5	NEAR S. COAST OF HONSHU, JAPAN
	08	19 27 49.4	42.028	N	20.094	E	10	G			0.5	12	YUGOSLAVIA. ML 2.7 (TTG), 2.5 (SKO).
	08	19 38 04.9&	59.156	N	151.996	W	51					19	KENAI PENINSULA, ALASKA. <AGS-P>.
	08	19 43 33.3	44.294	N	7.362	E	10	G			0.4	18	NORTHERN ITALY. ML 2.3 (LDG), 2.0 (GEN).
	08	20 03 55.6	55.110	N	165.419	E	58	D	4.8		0.9	95	KOMANDORSKY ISLANDS REGION
	08	20 04 16.3&	61.455	N	146.655	W	21					13	SOUTHERN ALASKA. <AGS-P>.
	08	21 20 38.0	44.00B	N	8.759	E	5	G			0.9	18	NORTHERN ITALY. ML 2.6 (LDG), 2.5 (GEN). MD 2.4 (STR).
	08	21 39 14.0?	34.91	N	139.15	E	5	G			0.5	5	NEAR S. COAST OF HONSHU, JAPAN
	08	21 51 31.5	37.741	N	15.145	E	10	G			0.9	9	SICILY
	08	22 50 44.2	22.279	S	68.296	W	119	D	4.7		1.3	28	NORTHERN CHILE
	08	23 17 48.1?	34.91	N	139.17	E	5	G			1.2	5	NEAR S. COAST OF HONSHU, JAPAN
	09	00 02 15.8	36.074	N	30.706	E	10	G			0.7	16	TURKEY
	09	00 09 17.4&	60.375	N	152.809	W	133					19	SOUTHERN ALASKA. <AGS-P>.
	09	01 04 05.4?	34.74	N	139.23	E	33	N			1.3	6	NEAR S. COAST OF HONSHU, JAPAN
	09	01 14 38.8?	2.27	N	121.94	E	604	?	4.6		0.7	5	CELEBES SEA
a	09	02 09 09.1	34.942	N	139.193	E	5	G	5.1	5.0	1.2	138	NEAR S. COAST OF HONSHU, JAPAN. At least 18 people injured (IV JMA), landslides at 16 places and roads cracked at 10 places in the Ito area. Felt (IV JMA) at Ajiro; (III JMA) at Tokyo, Yokohama, Mishima, Tateyama and on Oshima.
	09	02 09 52.2*	34.868	N	139.369	E	5	G	4.2		1.2	10	NEAR S. COAST OF HONSHU, JAPAN. Felt in the Ajiro area.
	09	02 28 02.5?	34.93	N	139.15	E	5	G			1.0	6	NEAR S. COAST OF HONSHU, JAPAN
	09	02 28 03.6?	18.73	S	177.79	W	550	G	4.2		0.8	20	FIJI ISLANDS REGION
	09	03 06 58.0	34.390	N	25.331	E	57	?	3.7		1.1	21	CRETE
	09	03 15 05.8*	35.143	N	139.172	E	5	G			1.2	6	NEAR S. COAST OF HONSHU, JAPAN
	09	03 22 26.9	34.932	N	139.254	E	5	G	4.2		1.3	25	NEAR S. COAST OF HONSHU, JAPAN
	09	03 37 15.8?	9.74	S	161.48	E	97	?	4.3		1.5	7	SOLOMON ISLANDS. Felt (I) at Honiara.
	09	03 44 14.8?	34.94	N	139.19	E	5	G			1.0	6	NEAR S. COAST OF HONSHU, JAPAN
	09	03 49 10.7?	44.39	N	7.12	E	10	G			0.4	4	NORTHERN ITALY. ML 1.6 (GEN).
	09	03 52 45.8&	58.714	N	136.895	W	0					6	SOUTHEASTERN ALASKA. <AGS-P>.
	09	03 54 37.0	43.670	N	12.174	E	7				1.2	98	CENTRAL ITALY. ML 3.7 (LDG), 3.7 (KBA), 3.5 (VKA), 3.1 (LJU). MD 3.7 (TRI), 3.6 (STR), 3.5 (ROM).
	09	04 26 01.7&	61.701	N	149.569	W	30					22	SOUTHERN ALASKA. <AGS-P>.
	09	04 55 28.2*	34.931	N	139.214	E	5	G			0.8	7	NEAR S. COAST OF HONSHU, JAPAN
	09	05 05 02.6?	34.90	N	139.08	E	10	G			0.8	6	NEAR S. COAST OF HONSHU, JAPAN
	09	05 50 13.8*	38.307	N	27.433	E	10	G			1.4	6	TURKEY
	09	06 48 55.7?	34.87	N	139.21	E	5	G			1.1	6	NEAR S. COAST OF HONSHU, JAPAN
	09	07 07 27.6*	36.549	N	7.787	W	14				1.4	10	STRAIT OF GIBRALTAR. MD 2.8 (TIO).
	09	08 14 03.7%	40.953	N	12.664	E	10	G			0.4	7	TYRRHENIAN SEA
	09	08 15 10.5*	34.939	N	139.182	E	5	G			0.7	7	NEAR S. COAST OF HONSHU, JAPAN
	09	08 38 40.4*	37.777	N	20.590	E	10	G			1.0	6	IONIAN SEA. ML 3.5 (ATH).
	09	09 30 00.2*	34.924	N	139.184	E	5	G			0.7	9	NEAR S. COAST OF HONSHU, JAPAN
	09	09 32 21.1&	60.085	N	152.887	W	105					22	SOUTHERN ALASKA. <AGS-P>.
a	09	09 46 39.6	1.577	S	15.548	W	10	G	5.4	5.4	1.1	202	NORTH OF ASCENSION ISLAND
	09	09 47 35.1*	8.316	S	119.696	E	156	*	4.6		0.8	15	FLORES ISLAND REGION
	09	10 50 48.7*	38.315	N	26.429	E	10	G			0.8	8	AEGEAN SEA. MD 3.4 (ATH).
	09	10 51 07.9*	52.437	S	159.270	E	33	N	4.9	4.8	1.3	21	MACQUARIE ISLANDS REGION
	09	11 27 01.2?	31.34	S	69.35	W	33	N			1.0	5	SAN JUAN PROVINCE, ARGENTINA
	09	11 54 09.5%	37.903	N	31.754	E	10	G			1.2	6	TURKEY
	09	12 02 27.2?	34.90	N	139.23	E	5	G			1.2	5	NEAR S. COAST OF HONSHU, JAPAN
	09	12 04 25.3?	34.98	N	139.15	E	5	G			1.0	5	NEAR S. COAST OF HONSHU, JAPAN
	09	12 11 33.0*	34.947	N	139.201	E	5	G			0.7	8	NEAR S. COAST OF HONSHU, JAPAN
	09	12 40 17.1	37.738	N	15.128	E	10	G			0.8	10	SICILY
	09	12 44 48.5*	34.925	N	139.164	E	5	G			1.0	8	NEAR S. COAST OF HONSHU, JAPAN
	09	13 36 04.4*	35.031	N	139.156	E	5	G			0.9	7	NEAR S. COAST OF HONSHU, JAPAN
	09	13 38 44.5&	37.403	N	121.788	W	5		4.1			38	CENTRAL CALIFORNIA. <BRK>. ML 4.0 (BRK). Mo=2.0*10**15 Nm (BRK). Felt (IV) at Felton and San Jose. Felt (III) at Fremont, Milpitas, Morgan Hill and Redwood Estates.
	09	14 06 24.9?	34.99	N	139.19	E	5	G			1.3	7	NEAR S. COAST OF HONSHU, JAPAN
	09	14 46 31.3*	34.869	N	139.240	E	5	G			1.2	9	NEAR S. COAST OF HONSHU, JAPAN
	09	15 07 07.6*	23.076	N	120.655	E	10	G			0.9	6	TAIWAN
	09	15 31 43.1?	23.62	N	122.81	E	33	N			1.0	6	TAIWAN REGION
	09	15 46 29.1*	23.089	N	120.664	E	10	G			0.5	5	TAIWAN
	09	17 14 33.2*	1.476	N	121.840	E	33	N			1.1	6	MINAHASSA PENINSULA
	09	17 18 32.7%	16.025	N	60.749	W	29	*			1.0	7	LEEWARD ISLANDS. ML 2.8 (FDF).
	09	17 27 51.3*	0.227	S	123.176	E	92	?	4.4		1.2	18	MINAHASSA PENINSULA
a	09	17 46 27.1	57.078	S	23.965	W	33	N	5.2	4.7	0.9	32	SOUTH SANDWICH ISLANDS REGION
	09	17 48 10.8?	36.15	N	3.33	W	10	G			1.6	5	STRAIT OF GIBRALTAR
	09	17 49 12.5?	32.50	S	71.59	W	33	N			1.4	9	NEAR COAST OF CENTRAL CHILE
	09	18 05 48.6&	57.615	N	153.830	W	5					10	KODIAK ISLAND REGION. <AGS-P>.

	09	18	54	45.7*	34.966	N	139.191	E	5	G		1.1	8 NEAR S. COAST OF HONSHU, JAPAN
	09	19	41	01.1&	61.025	N	151.905	W	104				33 SOUTHERN ALASKA. <AGS-P>.
	09	19	46	32.0	43.672	N	12.182	E	10	G		1.0	12 CENTRAL ITALY
	09	20	07	46.4	57.286	N	121.936	E	33	N	4.9	0.9	64 EASTERN USSR
	09	20	43	22.2	34.817	N	139.194	E	5	G	4.5 4.1	1.3	19 NEAR S. COAST OF HONSHU, JAPAN
	09	21	29	18.6*	1.388	N	127.396	E	118	?	4.7	0.7	15 HALMAHERA
	09	23	12	32.9%	31.627	S	68.026	W	33	N		1.5	6 SAN JUAN PROVINCE, ARGENTINA
	10	00	21	12.1?	17.47	N	61.46	W	33	N		0.8	7 LEEWARD ISLANDS. ML 3.1 (FDF).
	10	00	22	44.2?	8.81	S	117.78	E	33	N	4.6	0.6	4 SUMBAWA ISLAND REGION
	10	00	52	25.0?	43.23	N	127.40	W	10	G		0.4	22 OFF COAST OF OREGON. CL 3.2 (SEA).
	10	01	07	45.0?	20.84	S	178.61	W	633	?	4.6	0.6	15 FIJI ISLANDS REGION
	10	01	33	23.0?	34.98	N	139.16	E	5	G		1.2	7 NEAR S. COAST OF HONSHU, JAPAN
	10	02	33	00.8?	33.84	S	71.71	W	10	G		0.8	7 NEAR COAST OF CENTRAL CHILE
	10	02	35	58.2&	40.332	N	124.278	W	47				20 NEAR COAST OF NORTHERN CALIF. <BRK>. Felt (III) at Rio Dell.
	10	03	37	20.4*	37.187	N	28.158	E	10	G		1.1	6 TURKEY
	10	04	58	16.0*	6.045	S	103.326	E	33	N	4.1	1.1	13 SOUTHWEST OF SUMATERA
	10	05	30	23.6*	7.701	S	128.104	E	123	?	4.1	1.5	11 BANDA SEA
	10	05	52	17.9&	60.969	N	152.568	W	125				23 SOUTHERN ALASKA. <AGS-P>.
	10	06	00	55.5*	5.150	S	153.529	E	82	*	4.7	1.3	27 NEW IRELAND REGION
	10	06	15	30.7	39.781	N	29.746	W	25		4.4 4.5	0.9	34 AZORES ISLANDS
	10	06	52	23.1?	35.01	N	139.22	E	5	G		1.5	6 NEAR S. COAST OF HONSHU, JAPAN
	10	07	23	18.5	37.646	N	19.845	E	13		4.2	1.0	37 IONIAN SEA. ML 4.0 (ATH).
	10	08	47	49.1?	32.37	S	71.83	W	33	N		0.3	8 NEAR COAST OF CENTRAL CHILE
	10	08	48	59.6?	35.00	N	139.20	E	5	G		1.2	7 NEAR S. COAST OF HONSHU, JAPAN
	10	08	50	51.7?	34.93	N	139.19	E	5	G		1.4	8 NEAR S. COAST OF HONSHU, JAPAN
	10	09	41	46.7?	16.94	N	101.97	W	33	N	4.1	0.9	11 NEAR COAST OF GUERRERO, MEXICO
	10	10	03	23.0*	37.629	N	19.804	E	10	G	3.7	0.9	10 IONIAN SEA. MD 3.6 (ATH).
	10	10	23	35.8*	0.664	S	67.143	E	10	G	4.3	1.1	11 CARLSBERG RIDGE
	10	11	02	51.1	38.499	N	21.532	E	33	N	3.6	1.1	10 GREECE. ML 3.3 (ATH).
	10	12	00	17.8	37.124	N	27.880	E	10	G		1.3	10 TURKEY. MD 3.7 (ATH).
	10	12	14	06.3&	62.224	N	152.257	W	111				19 CENTRAL ALASKA. <AGS-P>.
	10	12	30	04.7%	10.661	N	60.830	W	33	N		0.4	6 TRINIDAD
	10	14	19	01.5*	35.136	N	139.078	E	5	G		1.1	6 NEAR S. COAST OF HONSHU, JAPAN
	10	14	20	47.2	43.388	N	5.440	E	10	G		0.7	14 NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).
	10	14	46	54.2	23.544	N	94.351	E	68	*	4.5	1.1	56 BURMA-INDIA BORDER REGION
	10	14	55	25.4*	7.383	S	129.370	E	140	*	4.5	1.1	11 BANDA SEA
	10	16	06	54.8*	35.073	N	139.240	E	5	G		1.0	6 NEAR S. COAST OF HONSHU, JAPAN
	10	16	16	52.8	17.065	S	175.107	W	289	*	4.6	0.7	53 TONGA ISLANDS
	10	16	26	10.0*	34.985	N	139.162	E	5	G		1.3	8 NEAR S. COAST OF HONSHU, JAPAN. MG 3.3 (JMA). Felt (I JMA) on Oshima.
	10	17	38	08.2%	60.624	N	6.229	E	10	G		0.8	8 SOUTHERN NORWAY. MD 1.8 (BER).
	10	18	22	27.4	39.081	N	75.140	E	10	G	4.5 4.3	0.9	32 SOUTHERN XINJIANG, CHINA
	10	22	44	57.6?	17.40	N	60.74	W	33	N		0.3	6 LEEWARD ISLANDS. ML 3.0 (FDF).
	10	22	55	35.6	19.261	N	121.010	E	33	*	4.4 4.4	1.1	35 PHILIPPINE ISLANDS REGION
	10	23	07	29.5	44.672	N	7.276	E	10	G		0.2	7 NORTHERN ITALY. ML 2.3 (GEN).
o	10	23	59	15.0	46.050	N	151.316	E	75	D	5.5	0.7	306 KURIL ISLANDS
	11	00	23	52.2*	0.799	S	67.066	E	10	G	4.0	1.4	14 CARLSBERG RIDGE
	11	00	41	41.5*	24.323	N	123.193	E	25			0.4	8 SOUTHWESTERN RYUKYU ISLANDS
	11	01	27	31.6*	31.586	N	49.578	E	33	N		0.9	7 WESTERN IRAN
	11	01	52	01.9*	22.984	S	175.244	W	38	?	4.9 4.7	1.4	54 TONGA ISLANDS REGION
	11	02	05	31.0	39.281	N	23.789	E	10	G		0.6	11 AEGEAN SEA. ML 3.0 (THE), 2.8 (ATH).
	11	02	43	30.6	34.580	N	26.916	E	57	*	4.1	1.4	51 CRETE
	11	02	44	15.9	32.694	S	68.590	W	13			0.9	14 MENDOZA PROVINCE, ARGENTINA
	11	03	27	11.8*	44.264	N	6.613	E	10	G		0.5	6 FRANCE
	11	03	56	43.6&	62.242	N	151.159	W	70				26 CENTRAL ALASKA. <AGS-P>.
	11	04	06	26.3?	34.85	N	139.08	E	5	G		1.4	6 NEAR S. COAST OF HONSHU, JAPAN
	11	04	13	34.2&	37.418	N	118.642	W	12		4.1		44 CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 4.4 (BRK). Felt (V) at Big Pine, (IV) at Bishop and (III) at Benton, California. Also felt at Fresno, California. Foreshock, ML 1.5, about 31 seconds earlier.
	11	04	28	26.4&	37.415	N	118.645	W	11				14 CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.0 (BRK).
	11	04	58	12.1?	35.47	N	34.18	E	10	G		1.4	6 CYPRUS
	11	05	33	52.4?	10.74	S	123.70	E	33	N	4.7	1.2	11 TIMOR
	11	05	47	31.5%	42.530	N	3.700	E	10	G		0.5	7 PYRENEES. ML 2.8 (LDG).
	11	06	16	01.4%	43.317	N	3.579	E	10	G		0.7	6 NEAR SOUTH COAST OF FRANCE. ML 2.8 (LDG).
	11	07	54	54.2&	37.543	N	118.438	W	7				32 CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.6 (BRK).
	11	08	02	17.5&	32.020	N	115.550	W	6	G			5 CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.4 (PAS).
	11	11	32	36.3*	31.697	N	104.625	E	33	N		1.5	5 SICHUAN PROVINCE, CHINA
	11	11	40	27.4*	21.419	S	66.990	W	33	N		0.9	6 SOUTHERN BOLIVIA
	11	13	42	39.6&	62.756	N	149.627	W	75				33 CENTRAL ALASKA. <AGS-P>.
	11	14	07	30.4	40.775	N	19.829	E	10	G		1.1	7 ALBANIA
	11	14	31	12.2	40.777	N	19.940	E	10	G		1.0	10 ALBANIA
	11	14	36	43.2?	5.21	S	129.93	E	184	?	4.6	0.7	6 BANDA SEA
	11	14	38	50.6?	10.51	S	121.91	E	33	N	4.3	1.3	10 SAVU SEA
	11	14	55	12.4%	35.004	N	139.259	E	5	G		0.9	6 NEAR S. COAST OF HONSHU, JAPAN
	11	16	40	41.0*	32.632	N	35.386	E	10	G		0.2	6 DEAD SEA REGION
	11	16	59	37.4%	35.017	N	139.142	E	5	G		0.8	6 NEAR S. COAST OF HONSHU, JAPAN
	11	17	14	04.4%	35.137	N	139.242	E	5	G		1.5	6 NEAR S. COAST OF HONSHU, JAPAN
	11	17	37	25.0%	60.637	N	6.225	E	10	G		0.4	8 SOUTHERN NORWAY. MD 2.0 (BER).
	11	17	58	39.4%	16.773	N	61.617	W	10	G		0.3	6 LEEWARD ISLANDS. ML 2.6 (FDF).
	11	18	50	14.8	37.550	N	118.363	W	5	G		0.9	9 CALIFORNIA-NEVADA BORDER REGION. ML 2.5 (BRK).
	11	19	31	59.7%	42.547	N	3.675	E	10	G		0.8	10 PYRENEES. ML 2.8 (LDG).
	11	20	52	59.8?	35.15	N	139.03	E	5	G		1.6	6 NEAR S. COAST OF HONSHU, JAPAN
	11	22	43	59.8	32.117	N	140.472	E	85	D	4.9	1.1	67 SOUTH OF HONSHU, JAPAN
	12	01	35	14.1	43.424	N	147.112	E	33	N	4.7	1.0	27 KURIL ISLANDS. Felt (I JMA) at Nemuro, Hokkaido.
	12	01	59	47.6?	34.77	N	139.55	E	5	G		1.4	6 NEAR S. COAST OF HONSHU, JAPAN
o	12	02	41	39.2*	8.129	S	68.355	E	10	G	4.7 5.0	1.3	72 CHAGOS ARCHIPELAGO REGION. Appears to be a multiple event.
	12	02	51	02.1	38.855	N	27.069	E	10	G		0.6	8 TURKEY
	12	04	52	23.6	31.738	N	40.956	W	10	G	4.6	0.5	19 NORTH ATLANTIC RIDGE
	12	05	01	39.9	44.466	N	7.304	E	10	G		0.5	22 NORTHERN ITALY. ML 2.3 (LDG), 2.2 (GEN).
	12	05	02	47.5&	61.800	N	150.228	W	38				32 SOUTHERN ALASKA. <AGS-P>. ML 2.2 (PMR).

	12	05	34	07.5*	29.988	S	67.789	W	33	N		0.6	9	LA RIOJA PROVINCE, ARGENTINA
	12	07	03	07.4*	50.760	N	19.730	E	10	G		1.4	7	POLAND. ML 3.6 (VKA).
	12	07	46	04.2	35.436	N	26.656	E	66	*	4.0	1.2	20	CRETE. MD 3.8 (ATH).
	12	08	19	14.2?	32.17	S	71.26	W	33	N		0.5	8	NEAR COAST OF CENTRAL CHILE
	12	11	03	37.0*	54.267	N	159.580	W	33	N		0.3	9	SOUTH OF ALASKA
	12	11	16	14.0	37.528	N	119.496	W	5	G		1.0	11	CENTRAL CALIFORNIA. ML 2.7 (BRK).
	12	11	57	33.2*	32.266	N	40.894	W	10	G	4.7 4.2	0.4	21	NORTH ATLANTIC RIDGE
	12	12	12	37.9?	10.60	S	129.20	E	33	N	4.2	1.4	13	TIMOR SEA
	12	12	18	49.9&	61.802	N	150.236	W	36				27	SOUTHERN ALASKA. <AGS-P>. ML 3.2 (PMR).
	12	13	42	53.9	37.151	N	31.090	E	126		4.2	1.0	77	TURKEY
	12	14	38	55.9%	35.775	N	22.356	E	10	G		0.4	5	MEDITERRANEAN SEA. ML 3.6 (ATH).
	12	15	10	33.4&	60.256	N	140.659	W	11				22	SOUTHEASTERN ALASKA. <AGS-P>.
	12	15	29	38.0%	32.628	N	130.098	E	5	G		0.5	5	KYUSHU, JAPAN. Felt (II JMA) at Nagasaki.
	12	16	18	15.7*	32.146	S	69.127	W	10	G		1.2	5	MENDOZA PROVINCE, ARGENTINA
	12	17	01	11.6%	60.638	N	6.234	E	10	G		0.8	8	SOUTHERN NORWAY. MD 1.7 (BER).
	12	17	36	49.6	7.786	S	122.902	E	259	*	5.2	1.1	53	FLORES SEA
	12	18	43	14.9	19.215	S	177.705	W	564		5.0	1.0	145	FIJI ISLANDS REGION
	12	19	07	23.8&	37.722	N	122.572	W	11				9	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK). Mo=4.4*10**12 Nm (BRK). Felt at Daly City.
	12	21	51	01.8	38.312	N	22.757	E	10	G		0.8	6	GREECE. ML 3.0 (ATH).
	12	22	55	58.3	38.258	N	21.700	E	31			1.3	14	GREECE. ML 3.3 (ATH).
	13	00	03	48.3?	7.84	S	128.46	E	124	?	3.9	1.4	8	BANDA SEA
	13	00	26	48.7*	17.707	S	71.927	W	33	N		0.6	5	NEAR COAST OF PERU
	13	00	54	21.3*	38.331	N	72.960	E	70	?	4.3	1.0	8	TAJIK SSR
	13	01	52	07.6%	61.808	N	7.364	E	10	G		1.1	10	SOUTHERN NORWAY. MD 2.1 (BER).
a	13	02	02	22.9	13.259	S	167.110	E	202	D	5.3	1.1	219	VANUATU ISLANDS
	13	02	44	17.9*	39.729	N	15.625	E	10	G		0.8	5	SOUTHERN ITALY
	13	03	34	42.1&	62.912	N	151.316	W	116				27	CENTRAL ALASKA. <AGS-P>.
	13	05	45	58.4*	32.148	S	68.694	W	10	G		1.5	6	MENDOZA PROVINCE, ARGENTINA
	13	06	10	48.8?	39.35	N	142.83	E	10	G		1.1	7	NEAR EAST COAST OF HONSHU, JAPAN
	13	08	51	30.5?	24.82	N	122.64	E	109	?		0.1	6	TAIWAN REGION
	13	09	05	02.9*	49.635	N	5.992	E	10	G		1.3	6	FRANCE. MD 1.0 (STR).
	13	09	48	45.0	41.207	N	19.514	E	10	G		0.8	34	ALBANIA. MD 3.6 (ATH), 3.2 (TTG).
	13	11	57	37.2	18.055	N	61.577	W	33	N		0.6	15	LEEWARD ISLANDS. ML 4.0 (FDF).
	13	12	53	05.5*	35.696	N	80.691	E	33	N	4.5	1.1	10	KASHMIR-TIBET BORDER REGION
	13	13	04	12.9?	34.97	N	139.15	E	5	G		1.0	5	NEAR S. COAST OF HONSHU, JAPAN
	13	14	26	42.1&	39.698	N	110.735	W	1				8	UTAH. <SLC-P>. ML 3.1 (SLC).
	13	14	41	42.5&	40.422	N	125.913	W	1		4.1		18	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.4 (BRK).
	13	16	47	14.6*	18.141	N	61.465	W	10	G		0.7	19	LEEWARD ISLANDS. ML 3.9 (FDF).
	13	18	06	28.4	3.669	N	127.992	E	106	*	4.9	1.2	64	TALAUD ISLANDS
	13	18	35	22.9*	39.168	N	99.472	W	5	G		0.9	7	KANSAS. mbLg 3.4 (NEIS). Felt (V) at Zurich, (IV) at Polco and (III) at Damar.
	13	19	16	01.1*	20.000	S	168.296	E	33	N	4.2	1.4	22	VANUATU ISLANDS
	13	22	32	48.0?	24.38	S	179.72	E	539	?	4.6	1.4	15	SOUTH OF FIJI ISLANDS
	14	00	40	31.0&	66.690	N	149.649	W	0				8	ALASKA. <AGS-P>.
	14	00	56	02.1*	21.174	S	67.584	W	198	?		1.2	8	CHILE-BOLIVIA BORDER REGION
	14	01	34	35.2?	36.60	N	2.38	W	10	G		0.5	5	STRAIT OF GIBRALTAR. mbLg 3.0 (MDD).
	14	02	03	21.5*	38.691	N	21.053	E	10	G		0.9	6	GREECE. MD 3.0 (ATH).
	14	03	38	55.0&	63.613	N	149.830	W	130				14	CENTRAL ALASKA. <AGS-P>.
	14	04	40	58.8?	35.04	N	139.07	E	5	G		1.3	5	NEAR S. COAST OF HONSHU, JAPAN
	14	05	13	04.6?	51.08	N	177.52	W	33	N	3.9	1.4	15	ANDREANOF ISLANDS, ALEUTIAN IS.
	14	05	56	43.2*	49.358	N	5.849	E	10	G		1.5	8	FRANCE. MD 2.3 (STR).
	14	06	30	24.4	34.953	N	139.081	E	5	G	4.4	1.2	27	NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) at Ajiro; (II JMA) at Mishima and Yokohama; (I JMA) at Tateyama, Nagatsuro, Tokyo and on Oshima. An underseo volcano east of the Izu Peninsula erupted on July 13.
	14	06	52	08.9	41.935	N	20.020	E	30		4.7 4.4	1.3	225	ALBANIA. ML 4.8 (ATH), 4.6 (THE), 4.5 (TTG). Felt (V) in the Puke-Kukes area; (IV) at Bajrom Curri, Lac, Peshkopi, Rreshen and Shkoder; (III) at Tirana. Also felt (V) in the Skapje area and (IV) in the Titograd-Ulcinj area, Yugoslovio.
	14	07	45	16.8*	45.118	N	28.323	E	10	G		1.3	9	SOUTHWESTERN USSR
	14	07	54	18.1	41.950	N	20.108	E	10	G		1.1	36	ALBANIA. MD 3.0 (TTG).
	14	07	58	59.3%	44.270	N	7.528	E	10	G		0.6	7	NORTHERN ITALY. ML 2.0 (GEN).
	14	09	14	00.7*	38.495	N	26.188	E	10	G		1.0	7	AEGEAN SEA. MD 3.3 (ATH).
	14	10	39	43.9%	34.907	N	136.742	E	5	G		1.3	9	SOUTHERN HONSHU, JAPAN. MG 3.5 (JMA). Felt (III JMA) at Tsu.
	14	10	57	08.8*	31.184	N	84.685	E	33	N	4.3	1.3	12	TIBET
	14	11	06	23.6*	51.625	N	175.179	W	33	N		0.9	8	ANDREANOF ISLANDS, ALEUTIAN IS.
	14	11	39	48.9?	38.89	N	3.95	W	10	G		0.7	4	SPAIN. mbLg 2.5 (MDD).
	14	12	54	46.5*	4.819	N	94.661	E	33	N	4.3	1.5	8	OFF W COAST OF NORTHERN SUMATERA
	14	13	16	37.1%	60.721	N	5.551	E	10	G		0.6	8	SOUTHERN NORWAY. MD 1.9 (BER).
	14	15	20	27.1%	33.055	S	70.986	W	33	N		1.2	7	CHILE-ARGENTINA BORDER REGION
a	14	15	43	18.1	1.472	S	15.546	W	10	G	5.4 5.3	1.1	229	NORTH OF ASCENSION ISLAND
	14	16	32	15.5*	1.838	N	97.931	E	33	N	4.0	0.7	6	NORTHERN SUMATERA
	14	17	19	45.3*	23.012	N	121.888	E	33	N	4.3	1.2	11	TAIWAN
	14	18	35	19.8?	35.17	N	139.18	E	5	G		1.5	5	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro.
	14	18	35	37.0	37.731	N	14.728	E	10	G		1.0	7	SICILY
	14	20	12	41.3*	8.804	S	119.313	E	141	?		1.3	9	FLORES ISLAND REGION
	14	20	42	07.5?	35.17	N	139.18	E	5	G		1.4	6	NEAR S. COAST OF HONSHU, JAPAN
f	14	20	42	40.0	8.081	S	125.129	E	10	G	6.4 6.2	1.2	394	TIMOR. Mo=1.3*10**19 Nm (PPT). Seven people injured seriously and 38 buildings damaged on Alor. Depth from broadband displacement seismograms.
	14	22	02	18.3%	41.303	N	141.697	E	33	N		1.0	9	HOKKAIDO, JAPAN REGION
	14	22	38	39.7%	31.694	S	67.852	W	33	N		1.2	8	SAN JUAN PROVINCE, ARGENTINA
	15	00	08	02.6	38.607	N	83.569	W	10	G		0.7	15	KENTUCKY. mbLg 3.1 (BLA). Felt (V) at Vanceburg, Kentucky. Also felt (V) at Aberdeen, Manchester and Ripley, Ohio. Felt (IV) at Decotur and Bentonville, Ohio and Concord, Kentucky. Felt (III) at Camp Dix, Carlisle, Dover, Minervo and Tollesboro, Kentucky. Also felt (III) at Cherry Fork and Stout, Ohio.
o	15	00	09	16.1	22.809	N	94.560	E	108	D	5.4	0.9	341	BURMA. Felt at Shillong, India.
	15	01	30	40.4*	11.991	S	76.736	W	33	N		1.4	8	PERU

	15	02	12	43.3	43.223	N	0.405	W	10	G			1.2	8	PYRENEES. mbLg 3.3 (MDD). ML 3.2 (LDG). Felt (IV) in the Ossau Valley, France.
	15	03	06	05.5*	35.727	S	144.515	E	10	G			0.3	5	NEW SOUTH WALES, AUSTRALIA. ML 3.3 (BFD).
	15	03	45	15.9*	6.784	N	73.144	W	168		3.8		0.3	10	NORTHERN COLOMBIA
	15	03	45	36.6	33.804	S	71.143	W	33	N			6.7	10	NEAR COAST OF CENTRAL CHILE
	15	04	26	07.7?	18.25	N	61.87	W	10	G			0.4	7	LEEWARD ISLANDS. ML 3.5 (FDF).
	15	05	01	54.1*	0.122	S	79.100	W	33	N			1.1	6	ECUADOR
	15	06	04	45.5?	25.33	N	127.93	E	33	N	4.4		1.2	11	RYUKYU ISLANDS
	15	07	09	34.4*	31.619	S	69.003	W	33	N			1.6	5	SAN JUAN PROVINCE, ARGENTINA
	15	07	28	36.7*	8.143	S	125.155	E	33	N	4.3		1.4	21	TIMOR
	15	07	30	05.0*	32.517	S	71.699	W	33	N			1.2	17	NEAR COAST OF CENTRAL CHILE
	15	08	30	25.0?	8.55	S	125.63	E	81	?	4.1		1.6	8	TIMOR
	15	08	42	26.0%	37.813	N	4.615	W	10	G			1.2	5	SPAIN. mbLg 2.9 (MDD).
	15	09	08	43.3?	8.20	S	125.30	E	33	N	3.9		0.8	7	TIMOR
	15	09	55	01.5?	32.33	S	72.56	W	24	*			1.3	10	OFF COAST OF CENTRAL CHILE
	15	10	41	00.3	8.148	S	125.313	E	33	N	4.3		1.2	19	TIMOR
	15	11	06	08.8*	3.401	S	34.444	E	10	G	4.8	3.7	1.4	21	LAKE VICTORIA REGION
	15	11	42	53.0&	59.812	N	145.610	W	0					13	GULF OF ALASKA. <AGS-P>.
	15	11	49	23.1	35.981	N	30.793	E	59	*			1.0	22	EASTERN MEDITERRANEAN SEA. MD 4.0 (ATH).
	15	12	18	05.6?	30.39	S	177.44	W	33	N	4.8	4.5	1.6	12	KERMADEC ISLANDS
	15	13	44	11.6&	40.600	N	122.400	W	33	N				10	NORTHERN CALIFORNIA. <BRK>. ML 2.8 (BRK).
	15	14	08	31.2	15.181	S	72.315	W	151				0.5	14	SOUTHERN PERU
	15	15	14	17.2	40.583	N	122.327	W	21	*			0.7	7	NORTHERN CALIFORNIA. ML 2.5 (BRK).
	15	18	33	12.3?	3.87	S	136.81	E	33	N	4.5		1.3	8	WEST IRIAN
	15	18	48	57.8?	35.32	S	78.60	E	10	G	4.9		1.4	11	MID-INDIAN RISE
	15	18	58	28.8	34.448	N	87.339	W	10	G			0.9	6	ALABAMA. mbLg 2.8 (NEIS).
	15	22	05	10.0&	57.573	N	155.050	W	48					18	ALASKA PENINSULA. <AGS-P>.
	15	22	12	31.1%	35.102	N	139.140	E	5	G			1.2	6	NEAR S. COAST OF HONSHU, JAPAN. Felt (1 JMA) at Ajiro.
	15	22	27	24.1*	23.488	N	123.333	E	23	*	4.6		1.4	17	SOUTHWESTERN RYUKYU ISLANDS
	15	23	14	31.3	41.799	N	20.102	E	10	G			0.8	20	ALBANIA. MD 2.9 (TTG).
	15	23	17	38.4	40.682	N	30.488	E	10	G			1.3	9	TURKEY
	15	23	29	07.9?	38.41	N	142.69	E	10	G			1.3	8	NEAR EAST COAST OF HONSHU, JAPAN
	15	23	37	26.8*	37.722	N	14.969	E	10	G			0.1	5	SICILY
	16	00	11	12.4*	11.847	N	126.478	E	33	N	4.5		1.1	10	PHILIPPINE ISLANDS REGION
	16	02	27	46.8&	61.775	N	152.128	W	109					40	SOUTHERN ALASKA. <AGS-P>.
	16	03	27	44.4	39.060	N	26.543	E	10	G			0.9	32	TURKEY. ML 3.9 (THE), 3.7 (ATH).
	16	04	26	02.5	45.666	N	26.497	E	168		4.1		1.0	41	ROMANIA
	16	04	52	11.4*	52.626	N	174.732	W	218		4.1		0.7	21	ANDREANOF ISLANDS, ALEUTIAN IS.
	16	04	57	01.2&	58.207	N	152.875	W	46					14	KODIAK ISLAND REGION. <AGS-P>.
	16	06	54	13.7?	15.56	S	74.14	W	29	*			1.0	7	NEAR COAST OF PERU
	16	07	01	29.0?	3.09	N	124.08	E	334	*	4.6		1.1	17	CELEBES SEA
	16	08	01	17.0	17.113	N	62.398	W	10	G			0.4	7	LEEWARD ISLANDS. ML 2.8 (FDF).
a	16	09	37	37.1	2.559	N	101.361	W	10	G	5.0	4.8	0.9	50	EAST CENTRAL PACIFIC OCEAN
	16	09	39	57.1	46.283	N	7.251	E	10	G			1.2	26	SWITZERLAND. ML 2.7 (LDG).
	16	09	59	17.8	13.290	S	76.231	W	33	N			1.0	8	NEAR COAST OF PERU
	16	10	41	30.0*	41.334	S	85.388	W	10	G	4.9	4.7	1.1	26	WEST CHILE RISE
	16	14	09	12.2&	61.774	N	148.979	W	16		4.4			93	SOUTHERN ALASKA. <AGS-P>. ML 4.6 (PMR). Felt (IV) at Chickaloon, Kashwitna, Palmer, Willow and Wasilla. Also felt at Anchorage, Eagle River, Talkeetna and Trapper Creek.
	16	15	45	04.0&	63.180	N	150.627	W	124					14	CENTRAL ALASKA. <AGS-P>.
	16	15	57	03.2&	61.771	N	149.016	W	14					26	SOUTHERN ALASKA. <AGS-P>. ML 2.9 (PMR).
	16	16	48	24.9	39.125	N	26.593	E	10	G	3.6		1.1	45	TURKEY. ML 4.0 (ATH).
	16	17	01	59.5?	14.05	S	75.65	W	90	?			1.5	6	NEAR COAST OF PERU
	16	17	17	22.3	46.308	N	7.267	E	10	G			1.3	24	SWITZERLAND. ML 2.8 (LDG).
	16	17	19	26.6	44.533	N	7.330	E	14				1.1	16	NORTHERN ITALY. ML 2.2 (LDG), 2.1 (GEN).
	16	19	09	02.6	47.515	N	13.075	E	10	G			0.9	9	AUSTRIA
	16	21	43	02.8	46.556	N	9.038	E	10	G			0.9	22	SWITZERLAND. ML 2.8 (LDG).
	16	22	10	53.3	47.537	N	13.076	E	10	G			1.3	19	AUSTRIA. ML 3.3 (VKA), 3.1 (GRF).
	16	22	10	54.5	30.389	S	178.616	W	115		5.2		1.1	168	KERMADEC ISLANDS. Felt on Raoul.
	16	23	16	02.0	47.531	N	13.087	E	10	G			1.2	10	AUSTRIA. ML 3.0 (VKA), 2.7 (GRF).
	16	23	20	33.7*	40.112	N	20.600	E	10	G			1.1	6	GREECE-ALBANIA BORDER REGION
	17	02	26	39.3	53.439	N	169.271	W	112	D	4.6		0.8	120	FOX ISLANDS, ALEUTIAN ISLANDS
	17	03	06	54.2*	41.614	N	15.685	E	10	G			1.0	5	SOUTHERN ITALY
	17	04	53	32.3	31.768	S	68.293	W	18	*			0.5	8	SAN JUAN PROVINCE, ARGENTINA
	17	05	31	19.1%	15.626	N	60.320	W	10	G			0.4	6	LEEWARD ISLANDS. ML 2.7 (FDF).
	17	07	07	06.8?	4.09	S	154.47	E	33	N			0.8	6	SOLOMON ISLANDS
	17	07	52	06.2?	23.47	N	122.07	E	10	G			0.7	5	TAIWAN REGION
	17	08	00	20.2	37.069	N	21.653	E	57	*	4.5		1.2	54	SOUTHERN GREECE. MD 3.6 (ATH).
a	17	08	04	50.5*	14.486	S	173.478	W	33	N	4.9	4.7	1.5	58	SAMOA ISLANDS REGION
	17	08	25	15.7	43.374	N	11.229	E	10	G			0.8	10	CENTRAL ITALY
	17	09	33	56.6%	60.637	N	5.531	E	10	G			0.5	8	SOUTHERN NORWAY. ML 2.1 (BER).
	17	09	41	32.7	44.408	N	7.281	E	10	G			0.1	4	NORTHERN ITALY. ML 1.8 (GEN).
	17	10	34	14.8	17.079	N	62.009	W	109				0.5	15	LEEWARD ISLANDS
	17	10	42	29.7	44.482	N	6.991	E	10	G			0.3	9	FRANCE. ML 2.0 (GEN).
	17	13	27	21.4	43.373	N	11.294	E	10	G			0.7	10	CENTRAL ITALY
	17	14	15	04.1	44.562	N	6.840	E	10	G			0.3	16	FRANCE. ML 2.5 (GEN).
	17	14	16	28.9*	44.473	N	6.685	E	10	G			0.6	6	FRANCE. ML 2.0 (GEN).
	17	14	28	25.1	34.743	N	25.941	E	62	*	4.3		1.2	47	CRETE. MD 4.2 (ATH).
	17	14	36	00.5	44.555	N	6.827	E	10	G			0.3	6	FRANCE. ML 1.9 (GEN).
a	17	15	09	27.9*	55.695	S	26.535	W	33	N	5.1	5.2	1.1	32	SOUTH SANDWICH ISLANDS REGION
	17	15	09	43.9	47.496	N	13.077	E	10	G			1.3	10	AUSTRIA. ML 2.6 (FUR), 2.3 (KBA).
	17	15	19	50.1*	44.569	N	6.850	E	10	G			0.8	5	FRANCE. ML 1.7 (GEN).
	17	16	49	44.1?	18.29	N	100.62	W	33	N			1.3	7	GUERRERO, MEXICO
	17	17	33	01.0%	16.886	N	94.458	W	33	N			1.2	5	OAXACA, MEXICO
	17	19	47	01.8*	51.215	N	15.970	E	10	G			1.1	8	POLAND. ML 3.3 (VKA).
	17	20	10	22.2	34.038	N	110.946	W	5	G			0.6	7	EASTERN ARIZONA. ML 3.0 (NEIS). Felt (IV) at Forest Lakes and Young.
	17	20	31	48.9?	4.33	S	133.58	E	33	N	4.3		1.6	6	WEST IRIAN REGION
	17	20	56	32.3*	17.394	N	61.119	W	10	G			0.7	13	LEEWARD ISLANDS. ML 3.8 (FDF).
	17	20	59	27.1*	17.336	N	61.213	W	10	G			0.4	8	LEEWARD ISLANDS. ML 3.2 (FDF).
	17	21	02	55.0*	17.420	N	61.188	W	10	G			0.4	8	LEEWARD ISLANDS. ML 3.2 (FDF).
	17	21	38	05.8&	36.362	N	120.377	W	2					13	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).

	17	21	44	40.5	31.364	N	49.515	E	37		4.7		1.2	64	WESTERN IRAN
	17	21	53	54.0*	2.463	N	79.551	W	16		4.3	3.5	0.7	14	SOUTH OF PANAMA
	17	22	06	41.4?	61.13	N	3.88	E	10	G			1.2	6	NORWEGIAN SEA. MD 1.8 (BER).
	17	22	15	05.3*	39.917	N	22.414	E	10	G			0.9	6	GREECE. ML 2.4 (THE).
	17	22	46	19.4*	39.926	N	22.272	E	10	G			0.5	8	GREECE. ML 2.4 (THE).
	17	23	03	48.4?	22.25	S	170.13	E	162	?	4.8		1.4	24	LOYALTY ISLANDS REGION
	17	23	04	20.7*	39.885	N	22.288	E	10	G			0.4	8	GREECE
	17	23	35	58.2*	39.823	N	22.190	E	10	G			0.8	9	GREECE. ML 2.2 (THE).
	18	03	33	51.2*	39.161	S	176.060	E	10	G			0.9	7	NORTH ISLAND, NEW ZEALAND
	18	03	42	52.5	39.827	N	22.289	E	10	G			1.0	22	GREECE. MD 3.3 (ATH). ML 2.9 (THE).
	18	03	50	26.6	39.838	N	22.202	E	10	G			1.1	17	GREECE. MD 3.2 (ATH). ML 2.8 (THE).
	18	04	01	12.2*	39.860	N	22.251	E	10	G			0.8	9	GREECE. ML 2.6 (THE).
	18	04	10	41.0*	0.853	S	24.493	W	10	G			1.2	10	CENTRAL MID-ATLANTIC RIDGE
	18	04	12	33.5	39.840	N	22.263	E	10	G			1.1	22	GREECE. MD 3.4 (ATH). ML 3.0 (THE).
	18	05	03	50.3	39.827	N	22.301	E	10	G			0.8	18	GREECE. MD 3.3 (ATH).
	18	05	08	54.1	38.538	N	14.718	E	10				0.7	10	SICILY
	18	06	38	39.7?	2.43	N	79.73	W	10	G		3.4	1.4	13	SOUTH OF PANAMA
	18	07	24	28.3*	7.311	S	128.427	E	143	*	4.5		1.5	18	BANDA SEA
	18	09	05	35.3*	6.226	S	149.976	E	33	N	4.3		1.4	12	NEW BRITAIN REGION. ML 4.1 (PMG).
	18	09	27	37.4	76.850	N	12.972	E	10	G	4.7	4.5	1.0	76	SVALBARD REGION
	18	09	50	41.4*	36.803	N	27.413	E	10	G			0.5	5	DODECANESE ISLANDS
	18	09	52	45.1*	46.853	N	14.751	E	10	G			1.5	6	YUGOSLAVIA. ML 3.0 (GRF), 2.9 (FUR), 2.3 (KBA).
	18	10	22	44.0%	44.333	N	8.206	E	10	G			0.3	6	NORTHERN ITALY. ML 2.2 (GEN).
a	18	10	41	14.5	53.384	N	160.376	E	33	N	5.4	4.8	0.9	281	NEAR EAST COAST OF KAMCHATKA. Felt (IV) at Petropovlovsk-Kamchatskiy.
	18	11	06	02.0%	17.003	N	62.263	W	10	G			0.6	9	LEEWARD ISLANDS. ML 3.0 (FDF).
	18	11	07	22.1&	36.907	N	121.348	W	7					23	CENTRAL CALIFORNIA. <BRK>. ML 3.7 (BRK). Mo=8.9*10**14 Nm (BRK). Felt (IV) at Hollister and (III) at Gilroy.
	18	12	53	55.0	39.801	N	22.395	E	10	G			1.3	22	GREECE. MD 3.7 (ATH). ML 3.2 (THE).
	18	15	22	32.5*	39.599	N	22.114	E	10	G			0.8	9	GREECE. ML 2.8 (THE).
	18	15	35	36.0&	36.903	N	121.342	W	7					18	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK). Felt at Hollister.
	18	15	46	47.8	45.186	N	25.293	E	10	G			1.0	6	ROMANIA
	18	15	53	51.9&	37.375	N	121.760	W	6					16	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
	18	16	21	14.8	37.998	N	29.124	E	10	G			0.9	7	TURKEY
	18	16	44	05.7?	11.85	S	127.06	E	33	N	4.5		1.3	7	TIMOR SEA
	18	17	35	25.9?	9.03	S	125.38	E	107	?	3.8		1.4	9	TIMOR
	18	18	35	40.6	5.645	S	146.375	E	59	*	4.2	3.9	1.1	15	EAST PAPUA NEW GUINEA REGION
	18	19	20	16.2	51.109	N	176.675	W	33	N	4.8	4.7	1.1	101	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.7 (PMR). Felt (III) on Adak.
	18	19	56	07.8	47.606	N	13.056	E	10	G			1.2	61	AUSTRIA. ML 3.8 (LDG), 2.7 (KBA). Felt (IV) in the Werfen area.
	18	20	13	13.6?	51.35	N	177.24	W	33	N	4.5		1.4	12	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.0 (PMR).
	18	20	51	36.0%	15.710	N	61.614	W	10	G			0.6	5	LEEWARD ISLANDS. ML 1.5 (FDF).
	18	21	01	27.7*	51.065	N	176.514	W	33	N	4.6		1.3	29	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.6 (PMR). Felt on Adak.
	18	21	24	00.9	30.924	N	49.649	E	36	*	4.4	4.0	1.1	39	WESTERN IRAN
	18	22	28	00.7?	46.14	N	2.60	E	10	G			0.4	4	FRANCE. ML 1.8 (LDG).
	18	22	41	31.9	39.791	N	22.252	E	10	G			0.9	14	GREECE. ML 2.6 (THE).
	18	23	10	56.8	48.669	N	6.942	E	10	G			1.0	12	FRANCE. ML 2.5 (LDG).
	18	23	49	41.0?	51.54	N	19.60	E	10	G			1.5	7	POLAND. ML 3.1 (KRA).
	18	23	52	39.4*	17.569	S	168.683	E	41	*	5.2		1.1	25	VANUATU ISLANDS
	19	00	24	47.6&	41.714	N	112.384	W	9					5	UTAH. <SLC-P>. ML 3.2 (SLC).
	19	00	27	51.7?	40.92	S	74.96	W	33	N			1.1	10	OFF COAST OF SOUTHERN CHILE
	19	02	21	44.0&	31.250	N	115.960	W	6	G				11	BAJA CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
a	19	03	14	09.3	7.338	S	154.331	E	46		5.2	4.3	1.1	90	SOLOMON ISLANDS
	19	04	07	18.1%	44.290	N	7.389	E	10	G			0.2	6	NORTHERN ITALY. ML 2.0 (GEN).
	19	04	13	00.9	37.863	N	22.359	E	10	G			0.6	14	SOUTHERN GREECE. ML 3.1 (ATH).
	19	04	30	51.3%	37.099	N	3.565	W	10	G			0.3	8	SPAIN. mbLg 3.2 (MDD).
	19	04	44	55.7	6.985	S	130.040	E	33	N	4.8		1.1	28	BANDA SEA
	19	04	56	36.9	31.979	S	68.205	W	33	N			0.4	6	SAN JUAN PROVINCE, ARGENTINA
	19	05	03	08.1*	37.807	N	27.574	E	10	G			0.9	5	TURKEY
	19	05	28	20.6	65.700	N	11.267	W	10	G	4.4		1.3	32	ICELAND REGION
	19	06	50	47.9&	59.922	N	151.580	W	50					25	KENAI PENINSULA, ALASKA. <AGS-P>.
	19	06	59	12.0*	16.945	N	60.968	W	10	G			0.9	10	LEEWARD ISLANDS. ML 3.0 (FDF).
	19	08	49	22.4*	36.116	N	32.451	E	10	G			1.0	7	TURKEY
	19	09	12	51.4?	51.76	N	179.57	W	33	N	4.7		1.3	11	ANDREANOF ISLANDS, ALEUTIAN IS.
	19	10	07	34.9*	31.745	S	68.258	W	33	N			1.2	6	SAN JUAN PROVINCE, ARGENTINA
	19	10	08	47 8	36.124	N	27 187	E	56	*	4.0		1.5	32	DODECANESE ISLANDS. MD 4.0 (ATH).
	19	10	21	33.5%	40.758	N	29.100	E	10	G			0.8	6	TURKEY
	19	10	35	03.6%	40.770	N	29.070	E	10	G			1.3	6	TURKEY
	19	10	49	32.3%	36.557	N	4.420	W	105	?			0.4	11	STRAIT OF GIBRALTAR
	19	13	03	30.6?	28.81	S	66.63	W	33	N			0.4	5	CATAMARCA PROVINCE, ARGENTINA
	19	13	43	47.5	39.270	N	23.270	E	10	G			1.0	16	AEGEAN SEA. ML 3.0 (ATH).
	19	14	41	30.8%	44.386	N	7.424	E	10	G			0.6	7	NORTHERN ITALY
	19	15	14	55.2	39.180	N	24.513	E	10	G			0.9	21	AEGEAN SEA. ML 3.3 (ATH).
	19	15	35	51.9	45.636	N	13.614	E	10	G			1.3	10	NORTHERN ITALY. ML 2.7 (KBA). MD 3.4 (TRI). Possible explosion.
	19	20	25	04.2	40.777	N	27.873	E	10	G			0.5	9	TURKEY
	19	21	10	48.2*	29.494	N	105.625	E	10	G			1.3	6	SICHUAN PROVINCE, CHINA
	19	23	44	54.7	43.320	N	11.309	E	10	G			0.3	8	CENTRAL ITALY
	19	23	46	22.8&	33.970	N	116.670	W	11					9	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
	20	01	10	49.1	15.838	N	97.053	W	20		4.9	3.3	1.1	57	NEAR COAST OF OAXACA, MEXICO
	20	01	12	05.2?	7.06	S	81.19	W	33	N			1.4	6	OFF COAST OF NORTHERN PERU
	20	01	17	34.9*	39.426	N	20.433	E	10	G			1.2	7	GREECE-ALBANIA BORDER REGION. MD 3.1 (ATH).
	20	02	00	46.0&	63.123	N	147.847	W	1					25	CENTRAL ALASKA. <AGS-P>. ML 3.4 (PMR).
	20	02	49	48.5	36.405	N	98.981	W	5	G			1.0	10	OKLAHOMA. mbLg 2.7 (NEIS).
	20	04	16	48.7&	40.380	N	125.340	W	⌐5					9	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.4 (BRK).
	20	04	41	59.2	4.433	N	126.671	E	64		5.4		1.1	106	TALAUD ISLANDS
	20	04	53	20.5	2.845	N	99.127	E	187		5.2		0.9	165	NORTHERN SUMATERA
	20	05	41	38.7	36.462	N	34.768	E	61	*	3.9		1.0	29	TURKEY
	20	05	58	44.0&	36.898	N	121.343	W	7					16	CENTRAL CALIFORNIA. <BRK>. ML 3.1 (BRK). Felt at Hollister.

	20	06	07	50.4	36.434	N	98.876	W	5	G			0.8	16	OKLAHOMA. mbLg 3.1 (NEIS). Felt (III) at Cantan.
a	20	06	27	25.1	5.048	N	95.635	E	82	G	5.9		0.9	417	NORTHERN SUMATERA. Felt in the Banda Aceh area. Depth from broadband displacement seismograms.
	20	08	40	24.3	43.216	N	126.591	W	10	G	4.5		0.6	33	OFF COAST OF OREGON
	20	08	46	02.8	37.996	N	26.752	E	10	G			1.3	7	DODECANESE ISLANDS
	20	09	15	56.0	47.555	N	13.046	E	10	G			1.3	17	AUSTRIA. ML 3.5 (VKA).
	20	09	29	25.5?	33.73	S	114.96	E	10	G			1.4	7	WESTERN AUSTRALIA
	20	10	15	57.9*	37.065	N	23.082	E	10	G			1.5	7	SOUTHERN GREECE. ML 3.3 (ATH).
	20	10	34	59.8	39.098	N	24.451	E	10	G			1.0	17	AEGEAN SEA. ML 3.3 (ATH), 3.3 (THE).
a	20	12	09	53.3	18.870	S	175.528	W	241	D	5.4		1.0	245	TONGA ISLANDS
	20	12	23	14.4&	58.558	N	152.622	W	47					14	KODIAK ISLAND REGION. <AGS-P>.
	20	12	25	42.7?	37.11	S	52.35	E	10	G	4.6		0.8	7	SOUTH INDIAN OCEAN
	20	13	50	50.0	44.173	N	117.184	W	5	G			1.1	15	OREGON. ML 3.7 (NEIS). Felt in the Huntington and Vale areas. Also felt at Weiser, Idaho.
	20	14	08	31.6*	51.102	N	14.734	E	10	G			0.9	6	GERMANY. ML 3.7 (VKA).
	20	16	21	59.6?	4.26	S	142.39	E	137	?	4.0		0.7	8	PAPUA NEW GUINEA
	20	17	17	08.7%	43.984	N	7.542	E	10	G			0.2	5	NEAR SOUTH COAST OF FRANCE. MD 1.0 (STR).
a	20	17	22	21.2	17.410	S	167.829	E	33	N	5.1	4.9	1.4	90	VANUATU ISLANDS
	20	18	00	00.6	46.853	N	9.841	E	10	G			1.0	15	SWITZERLAND. ML 2.8 (LDG).
	20	19	29	38.0%	61.829	N	7.370	E	10	G			1.5	10	SOUTHERN NORWAY. MD 2.1 (BER).
	20	19	44	15.6*	1.939	N	126.792	E	33	N	4.5		1.0	10	MOLUCCA PASSAGE
	20	19	51	17.6	44.351	N	9.806	E	10	G			0.6	11	NORTHERN ITALY
	20	20	24	50.3%	37.107	N	3.812	W	10	G			1.4	7	SPAIN. mbLg 2.7 (MDD).
	20	22	12	22.0%	43.630	N	12.625	E	10	G			0.9	6	CENTRAL ITALY
	20	23	00	53.8	33.626	S	70.819	W	33	N			1.2	10	CHILE-ARGENTINA BORDER REGION
	20	23	15	18.1&	62.289	N	150.029	W	38					11	CENTRAL ALASKA. <AGS-P>.
	21	00	26	44.5?	38.91	N	23.23	E	10	G			0.5	7	GREECE
	21	00	46	33.5?	38.92	N	23.24	E	10	G			0.3	7	GREECE
	21	01	45	46.9*	15.609	S	73.387	W	137	*	4.7		1.1	14	SOUTHERN PERU
	21	02	22	59.0	16.897	S	167.665	E	33	N	4.9		1.2	69	VANUATU ISLANDS
	21	02	45	02.9	11.552	S	73.882	W	29	*	4.8	4.0	1.0	35	PERU
	21	02	52	58.6*	1.371	S	77.682	W	181		4.5		1.0	26	ECUADOR
a	21	03	09	16.3	30.029	N	99.455	E	36		5.5	5.3	1.0	260	SICHUAN PROVINCE, CHINA. Three houses damaged in Batang County.
	21	03	19	50.4	26.610	S	178.215	E	633	*	4.9		1.0	38	SOUTH OF FIJI ISLANDS
	21	03	27	08.9*	29.860	N	99.042	E	33	N	4.8		0.3	9	SICHUAN PROVINCE, CHINA
	21	03	31	43.5&	62.348	N	151.115	W	91					16	CENTRAL ALASKA. <AGS-P>.
	21	03	45	54.1*	24.468	S	67.341	W	198	*			1.0	13	CHILE-ARGENTINA BORDER REGION
	21	06	20	47.8	40.860	N	79.073	E	60	*	5.0		0.9	158	SOUTHERN XINJIANG, CHINA
	21	06	30	24.0*	21.386	S	67.296	W	136	?	4.3		0.2	6	CHILE-BOLIVIA BORDER REGION
	21	06	53	05.9&	66.986	N	156.172	W	10	G				11	ALASKA. <AGS-P>.
	21	09	34	09.3	10.811	N	61.983	W	79		4.3		0.7	30	TRINIDAD. MD 4.1 (TRN). Felt on Trinidad.
	21	09	59	19.1?	18.53	S	169.80	E	109	?	4.3		1.4	11	VANUATU ISLANDS
	21	10	14	12.1?	17.57	N	61.24	W	10	G			1.3	6	LEEWARD ISLANDS. MD 2.7 (TRN).
	21	10	40	58.9	34.364	S	70.376	W	5		4.5		1.4	28	CHILE-ARGENTINA BORDER REGION
	21	11	14	10.8&	46.545	N	121.810	W	4					45	WASHINGTON. <SEA>. CL 2.9 (SEA). Felt.
	21	11	43	48.6*	32.743	N	39.818	W	10	G	4.7	4.6	1.0	22	NORTH ATLANTIC RIDGE
	21	13	46	54.4?	18.13	N	101.75	W	33	N			1.1	6	GUERRERO, MEXICO
	21	14	03	25.0%	60.721	N	5.589	E	10	G			0.7	8	SOUTHERN NORWAY. MD 1.7 (BER).
	21	14	12	35.5%	40.461	N	23.084	E	10	G			0.3	6	GREECE
	21	16	29	29.6	0.202	S	125.066	E	72	*	4.6		0.7	9	MOLUCCA SEA
	21	18	10	09.9	40.007	N	19.848	E	10	G			0.9	22	ALBANIA. MD 3.6 (ATH). Felt at Barsh, Piqeros, Fterre and Çaraj.
	21	18	27	15.6*	12.375	N	121.432	E	33	N	4.8		0.6	8	MINDORO, PHILIPPINE ISLANDS
	21	20	06	49.7	40.645	N	22.623	E	10	G			0.7	12	GREECE. ML 3.1 (SKO). MD 3.1 (ATH).
	21	20	30	32.3*	2.091	N	99.163	E	11	*	3.8		1.4	8	NORTHERN SUMATERA
	21	20	48	00.2	44.399	N	7.246	E	10	G			0.2	7	NORTHERN ITALY. ML 2.2 (GEN).
	21	21	45	08.5*	35.059	N	33.170	E	66	*			0.8	9	CYPRUS
	21	22	57	41.8%	38.733	N	13.591	E	10	G			0.8	8	SICILY
	21	23	19	55.3&	61.434	N	151.755	W	76					33	SOUTHERN ALASKA. <AGS-P>.
	22	00	00	42.8	44.428	N	9.877	E	10	G			0.7	21	NORTHERN ITALY
	22	00	13	34.4?	39.58	N	26.41	E	10	G			0.6	4	TURKEY
	22	00	51	00.7%	41.003	N	15.020	E	10	G			0.3	5	SOUTHERN ITALY
	22	01	09	17.3?	53.04	N	163.73	W	33	N	4.4		1.1	11	UNIMAK ISLAND REGION
	22	01	38	00.2&	59.927	N	152.572	W	81					21	SOUTHERN ALASKA. <AGS-P>.
	22	02	17	31.6&	40.367	N	125.502	W	22					7	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.6 (BRK).
	22	02	41	41.1&	60.022	N	152.818	W	109					18	SOUTHERN ALASKA. <AGS-P>.
	22	03	10	48.7?	0.49	S	77.38	W	10	G			0.7	5	ECUADOR
	22	04	01	53.8%	37.844	N	29.137	E	10	G			1.3	6	TURKEY
	22	04	58	41.2	40.143	N	20.795	E	5	G			1.4	10	GREECE-ALBANIA BORDER REGION. MD 3.2 (ATH).
f	22	05	02	11.5	2.299	N	128.142	E	142	G	6.4		1.1	578	HALMAHERA. Mo=5.0*10**18 Nm (PPT). Felt (III) at Manado, Sulawesi. Depth from broadband displacement seismograms.
	22	05	23	07.3%	38.658	N	30.568	E	10	G			1.3	6	TURKEY
	22	05	27	29.2?	31.25	S	68.66	W	92	?			0.1	5	SAN JUAN PROVINCE, ARGENTINA
	22	05	37	13.0?	34.89	N	139.27	E	5	G			0.7	7	NEAR S. COAST OF HONSHU, JAPAN. MG 3.2 (JMA). Felt (I JMA) at Ajiro.
	22	06	20	26.9%	11.867	N	43.287	E	10	G			0.5	7	ETHIOPIA. ML 3.7 (ARO).
	22	07	00	46.5&	60.692	N	145.169	W	3					8	SOUTHERN ALASKA. <AGS-P>.
	22	07	23	11.5%	16.031	N	61.083	W	78	?			0.1	9	LEEWARD ISLANDS
	22	07	26	55.8&	62.480	N	150.952	W	85					8	CENTRAL ALASKA. <AGS-P>.
	22	07	40	58.2	37.410	N	29.153	E	10	G			1.1	11	TURKEY
	22	09	40	35.7%	41.152	N	28.529	E	10	G			0.3	5	TURKEY
	22	09	41	35.4	34.299	S	70.258	W	12		4.9		1.0	55	CHILE-ARGENTINA BORDER REGION
	22	10	17	37.7	39.850	N	22.220	E	10	G			0.9	15	GREECE. MD 3.7 (ATH).
	22	10	22	01.5%	41.400	N	14.653	E	10	G			1.0	5	SOUTHERN ITALY
	22	11	25	38.1?	42.90	N	8.47	W	10	G			0.3	4	SPAIN. mbLg 2.6 (MDD).
	22	11	40	05.1*	19.566	S	178.404	W	523	?	4.7		1.0	44	FIJI ISLANDS REGION
	22	12	38	09.3?	19.96	S	169.20	E	109	?	4.8		1.4	8	VANUATU ISLANDS
a	22	12	52	50.4*	54.412	S	132.680	W	10	G	5.3	5.6	1.2	39	SOUTH PACIFIC CORDILLERA
	22	13	04	57.4?	54.40	S	133.19	W	10	G	4.8		1.0	12	SOUTH PACIFIC CORDILLERA
	22	13	08	11.9?	42.70	N	19.11	E	10	G			0.3	4	YUGOSLAVIA. ML 2.0 (TTG).
	22	13	16	15.6?	38.61	N	20.65	E	10	G			1.0	4	GREECE. MD 3.4 (ATH).

	22	13	37	56.9&	61.944	N	152.018	W	109			18	SOUTHERN ALASKA. <AGS-P>.
	22	15	23	03.2	66.914	N	156.195	W	5	G	1.0	20	ALASKA. ML 4.0 (PMR).
	22	15	26	31.0?	39.12	N	27.48	E	10	G	0.8	4	TURKEY
	22	16	05	28.5&	62.155	N	149.420	W	26			24	CENTRAL ALASKA. <AGS-P>.
	22	17	52	45.6*	22.818	S	66.629	W	296	?	1.3	8	JUJUY PROVINCE, ARGENTINA
	22	18	29	42.7&	62.981	N	148.221	W	77			17	CENTRAL ALASKA. <AGS-P>.
	22	19	03	07.1	43.945	N	12.138	E	10	G	0.8	8	CENTRAL ITALY. MD 1.9 (TRI).
	22	19	09	30.0%	11.871	N	43.303	E	10	G	0.6	7	ETHIOPIA. ML 3.9 (ARO).
	22	19	15	11.3%	37.455	N	115.133	E	33	N	1.5	7	NORTHEASTERN CHINA
	22	21	25	02.1*	40.732	N	123.269	W	10	G	0.7	6	NORTHERN CALIFORNIA. ML 2.7 (BRK).
	22	21	34	04.4?	51.64	N	16.29	E	10	G	0.5	8	POLAND. ML 3.4 (GRF), 3.2 (VKA).
	22	21	35	53.6?	66.10	S	79.99	W	10	G	5.1 4.3	1.5	17	SOUTHERN PACIFIC OCEAN
	22	22	00	14.0&	61.582	N	150.992	W	54				27	SOUTHERN ALASKA. <AGS-P>.
	22	22	29	05.7*	11.159	S	111.563	E	84	?	4.7	0.8	10	SOUTH OF JAVA
	22	23	02	16.4%	31.975	S	69.046	W	113	?		0.2	7	SAN JUAN PROVINCE, ARGENTINA
	22	23	48	29.3	35.512	N	45.167	E	60		4.8	1.1	150	IRAN-IRAQ BORDER REGION
	23	00	15	29.2	32.883	S	71.100	W	37	*		0.8	19	NEAR COAST OF CENTRAL CHILE
	23	01	20	01.3%	33.289	S	118.589	E	10	G		1.3	7	WESTERN AUSTRALIA
	23	01	28	22.3?	41.38	N	14.51	E	10	G		0.1	4	SOUTHERN ITALY
	23	02	40	23.6*	33.222	S	71.754	W	10	G		1.2	15	NEAR COAST OF CENTRAL CHILE
	23	03	23	04.8	33.164	S	70.284	W	102		4.7	0.9	24	CHILE-ARGENTINA BORDER REGION
	23	03	50	11.6	33.201	S	71.784	W	10	G		0.9	11	NEAR COAST OF CENTRAL CHILE
	23	03	50	37.4	47.496	N	13.012	E	10	G		1.0	12	AUSTRIA. ML 3.3 (VKA), 2.9 (GRF), 2.7 (FUR).
	23	03	58	21.7	47.526	N	13.114	E	10	G		1.1	7	AUSTRIA. ML 2.6 (GRF), 2.5 (FUR).
	23	05	21	56.7*	33.205	S	71.790	W	10	G		1.1	11	NEAR COAST OF CENTRAL CHILE
	23	06	44	33.7?	33.13	S	72.08	W	10	G		0.2	10	OFF COAST OF CENTRAL CHILE
	23	07	57	21.4	45.539	N	15.294	E	10	G		0.8	10	YUGOSLAVIA. MD 3.2 (LJU), 2.7 (TRI).
	23	08	04	21.3%	38.014	N	29.249	E	10	G		0.9	5	TURKEY
	23	08	21	30.5*	17.318	N	61.217	W	10	G		0.4	8	LEEWARD ISLANDS. ML 2.8 (FDF).
	23	08	30	10.1?	40.38	N	21.68	E	10	G		0.7	4	GREECE. MD 3.6 (ATH).
	23	09	01	15.7?	10.89	N	60.47	W	33	N		0.2	5	TRINIDAD. MD 2.8 (TRN).
	23	09	52	44.4&	59.875	N	153.607	W	135				19	SOUTHERN ALASKA. <AGS-P>.
	23	09	53	37.6*	8.163	S	74.959	W	100	?	4.3	0.6	12	PERU-BRAZIL BORDER REGION
	23	10	08	07.4	45.576	N	15.300	E	10	G		1.1	10	YUGOSLAVIA. MD 2.9 (LJU).
	23	10	39	43.9&	38.738	N	112.184	W	11				24	UTAH. <SLC-P>. ML 3.7 (SLC). Felt (IV) at Annabella and Glenwood. Felt (III) at Kaasharem, Meadow, Monroe and Redmond.
	23	10	42	26.6?	39.13	N	27.61	E	10	G		0.6	4	TURKEY
	23	11	24	52.6*	3.836	N	95.361	E	74	?	4.1	1.6	13	OFF W COAST OF NORTHERN SUMATERA
	23	11	26	39.0	7.444	S	126.204	E	33	N	4.8	1.0	33	BANDA SEA
	23	11	30	41.9&	63.149	N	149.555	W	87				16	CENTRAL ALASKA. <AGS-P>.
	23	11	50	37.3	23.737	S	179.927	W	573	?	4.8	0.9	44	SOUTH OF FIJI ISLANDS
	23	12	01	29.7	54.418	N	125.426	E	10	G	4.7 4.6	1.3	40	EASTERN USSR
	23	12	29	04.6%	39.790	N	23.469	E	10	G		0.5	6	AEGEAN SEA
	23	12	49	59.5	46.306	N	13.383	E	10	G		1.1	9	AUSTRIA. MD 3.1 (LJU).
	23	13	44	43.6?	8.84	S	128.24	E	195	?	4.1	0.7	7	TIMOR SEA
	23	15	06	01.6%	44.591	N	7.245	E	10	G		0.1	6	NORTHERN ITALY. ML 2.0 (GEN).
	23	15	33	37.0*	7.296	N	77.164	W	33	N	4.2	0.7	8	PANAMA-COLOMBIA BORDER REGION
	23	15	59	40.2?	18.48	N	65.94	W	33	N		0.3	4	PUERTO RICO REGION
	23	16	34	21.6*	31.626	S	69.124	W	122	*		0.7	10	SAN JUAN PROVINCE, ARGENTINA
	23	16	38	41.2*	33.222	S	71.738	W	7			1.2	16	NEAR COAST OF CENTRAL CHILE
	23	17	27	13.3	39.916	N	29.177	E	10	G		0.7	10	TURKEY
	23	17	27	19.3*	33.760	N	117.966	W	5	G		1.0	6	SOUTHERN CALIFORNIA. ML 2.7 (PAS). Felt at Huntington Beach.
	23	17	28	44.7	31.302	S	68.888	W	115		4.5	1.0	21	SAN JUAN PROVINCE, ARGENTINA
	23	18	39	16.0?	44.15	N	10.82	E	5	G		1.4	4	NORTHERN ITALY
	23	19	11	09.9*	14.761	N	92.795	W	109		4.8	1.4	54	NEAR COAST OF CHIAPAS, MEXICO
	23	19	19	41.3*	0.371	N	80.459	W	33	N	4.8	1.1	10	NEAR COAST OF ECUADOR
	23	19	43	42.0*	14.974	S	167.338	E	143	*	4.8	0.9	27	VANUATU ISLANDS
	23	20	41	15.6*	13.060	S	130.385	E	10	G	3.9	1.0	8	NORTHERN TERRITORY, AUSTRALIA
	23	20	56	23.0&	60.791	N	151.323	W	62		3.8		59	KENAI PENINSULA, ALASKA. <AGS-P>.
	23	22	42	01.2	13.601	N	120.508	E	33	N	4.9 4.2	1.0	35	MINDORO, PHILIPPINE ISLANDS
	23	23	02	08.2*	30.236	N	50.787	E	33	N		1.5	5	IRAN
	24	00	18	11.2	44.859	N	7.201	E	10	G		1.1	23	NORTHERN ITALY. ML 2.3 (GEN), 2.7 (LDG).
	24	00	22	20.5?	15.50	N	60.98	W	33	N		0.7	5	LEEWARD ISLANDS. ML 3.0 (FDF).
	24	01	19	30.6?	45.22	N	151.51	E	10	G		1.7	5	KURIL ISLANDS
	24	01	36	40.6	7.524	S	76.320	W	140	D	4.8	1.0	88	NORTHERN PERU
	24	02	37	50.2&	36.805	N	121.552	W	6				22	CENTRAL CALIFORNIA. <BRK>. ML 3.1 (BRK).
	24	03	08	00.3&	36.807	N	121.555	W	6				22	CENTRAL CALIFORNIA. <BRK>. ML 3.1 (BRK). Felt (III) at San Juan Bautista.
	24	03	14	30.2?	21.92	S	69.22	W	33	N		0.5	5	NORTHERN CHILE
f	24	03	27	48.7	36.085	N	71.069	E	95	G	5.8	1.0	444	AFGHANISTAN-USSR BORDER REGION. Felt (IV) at Ishkashim and Gissar; (III) at Kharag, Kulyab, Dushanbe, Nurek, Ragun, Obigarm and Leninabad; (II) at Tashkent and Samarkand, USSR. Also felt at Chitral, Peshawar and Rawalpindi, Pakistan. Depth from broadband displacement seismograms.
	24	03	54	26.0*	39.245	N	23.404	E	10	G		0.5	10	AEGEAN SEA
	24	04	18	29.0?	6.14	S	146.63	E	111	*	4.3	0.7	8	EAST PAPUA NEW GUINEA REGION
	24	04	45	41.1?	39.26	N	23.38	E	10	G		0.9	7	AEGEAN SEA
	24	05	10	07.2	43.852	N	13.189	E	10	G		0.7	9	CENTRAL ITALY
	24	05	17	51.7*	31.027	S	68.142	W	33	N		1.3	7	SAN JUAN PROVINCE, ARGENTINA
	24	05	40	35.3	12.676	N	88.091	W	56	D	5.1	1.2	36	OFF COAST OF CENTRAL AMERICA
	24	07	50	21.5	49.097	N	6.805	E	10	G		0.8	9	GERMANY. MD 2.3 (STR), 2.2 (UCC).
	24	09	36	32.7	38.599	N	0.127	E	10	G		1.4	11	SPAIN. mbLg 3.0 (MDD).
o	24	10	03	45.8	18.874	S	176.789	E	31	D	5.6 5.4	1.3	149	FIJI ISLANDS REGION. Ms 5.7 (BRK).
o	24	10	11	24.2	18.823	S	176.674	E	33	N	5.3 5.5	1.2	124	FIJI ISLANDS REGION. Ms 5.6 (BRK).
	24	10	44	10.0%	43.443	N	5.423	E	10	G		0.7	13	NEAR SOUTH COAST OF FRANCE. MD 2.6 (STR).
o	24	10	53	10.5	18.880	S	176.811	E	20	D	5.5 5.4	1.1	160	FIJI ISLANDS REGION. Ms 5.6 (BRK).
	24	11	35	12.9	18.853	N	64.306	W	57	*	4.4	1.0	35	VIRGIN ISLANDS. Felt on St. Thomas and Puerto Rico.
	24	11	51	12.8%	32.001	S	69.166	W	112	?		0.1	6	MENDOZA PROVINCE, ARGENTINA
	24	11	58	35.9	45.222	S	166.936	E	33	N	4.8 4.2	1.3	25	OFF W. COAST OF S. ISLAND, N.Z. Felt near Invercargill.
	24	12	06	04.5?	19.15	S	169.20	E	259	*		1.3	9	VANUATU ISLANDS

	24	13	06	06.5?	15.38	N	147.46	E	33	N	4.6		0.2	8	MARIANA ISLANDS REGION
	24	13	31	37.3?	34.94	N	139.16	E	5	G			1.1	5	NEAR S. COAST OF HONSHU, JAPAN. MG 2.6 (JMA). Felt (I JMA) at Ajiro.
	24	13	34	28.2*	36.118	N	71.121	E	84	?	4.4		1.5	12	AFGHANISTAN-USSR BORDER REGION
	24	13	56	02.4%	60.722	N	5.584	E	10	G			0.5	7	SOUTHERN NORWAY. MD 1.7 (BER).
	24	14	02	48.2	40.417	N	27.455	E	10	G			0.9	29	TURKEY
	24	14	14	57.5	31.863	S	69.929	W	130	?			0.7	15	SAN JUAN PROVINCE, ARGENTINA
	24	15	59	28.5?	32.81	S	72.41	W	10	G			0.4	10	OFF COAST OF CENTRAL CHILE
	24	16	49	53.8%	38.366	N	22.163	E	10	G			0.6	5	GREECE. ML 3.0 (ATH).
	24	16	51	11.9	26.065	N	142.633	E	33	N	4.8		1.0	23	BONIN ISLANDS REGION
	24	17	17	42.2*	5.723	S	152.304	E	10	G	4.5		0.8	8	NEW BRITAIN REGION
	24	17	36	45.8*	5.671	S	152.526	E	48	?	4.3		1.3	11	NEW BRITAIN REGION
	24	17	58	58.9*	10.149	S	154.404	E	10	G	4.3		0.9	5	DENTRECASTEAUX ISLANDS REGION
	24	19	39	37.4	40.418	N	27.472	E	12				0.6	9	TURKEY. MD 3.3 (ATH).
a	24	19	46	30.7*	18.699	S	176.760	E	33	N	4.8	4.7	1.4	56	FIJI ISLANDS REGION
	24	19	50	11.4	40.976	N	142.020	E	72	*	4.6		1.1	13	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Hachinahe.
	24	21	54	29.4?	43.29	N	3.59	E	10	G			0.4	4	NEAR SOUTH COAST OF FRANCE. ML 2.9 (LDG).
	24	21	56	45.0?	0.30	N	79.05	W	10	G			0.8	5	NEAR COAST OF ECUADOR
	24	22	25	22.9?	37.52	N	2.77	W	10	G			0.0	4	SPAIN. mbLg 2.4 (MDD).
	24	22	57	13.4*	39.794	N	22.306	E	10	G			0.8	5	GREECE. MD 2.9 (ATH).
	24	23	49	29.9?	16.01	N	62.03	W	10	G			0.8	5	LEEWARD ISLANDS. ML 1.6 (FDF).
	25	03	07	41.0	39.033	N	25.924	E	9				1.1	35	AEGEAN SEA. ML 3.5 (ATH).
	25	03	13	06.3*	28.301	S	68.490	W	199	?			1.2	17	LA RIOJA PROVINCE, ARGENTINA
	25	03	18	18.3	0.065	S	123.912	E	168		5.1		1.2	36	MINAHASSA PENINSULA
	25	03	39	49.9?	35.90	N	28.12	E	10	G			0.1	4	EASTERN MEDITERRANEAN SEA
	25	04	19	40.0?	3.68	N	126.46	E	94	?	4.6		1.5	9	TALAUD ISLANDS
	25	04	43	01.9?	11.83	N	43.41	E	10	G			0.4	4	ETHIOPIA
	25	07	57	40.5*	27.466	N	130.384	E	33	N	4.6		1.2	12	RYUKYU ISLANDS
	25	08	08	31.5	39.782	N	22.208	E	10	G			1.0	19	GREECE. MD 3.4 (ATH).
	25	08	36	02.8?	39.90	N	22.33	E	10	G			1.1	4	GREECE
	25	09	07	24.7*	27.455	N	130.161	E	33	N	4.7		1.1	19	RYUKYU ISLANDS
	25	10	44	53.7	62.801	N	18.579	E	10	G			0.8	7	SWEDEN. MD 3.4 (BER).
	25	11	47	43.4*	7.622	S	143.456	E	33	N	4.2		0.9	5	NEAR S COAST OF PAPUA NEW GUINEA
	25	11	54	17.9?	6.89	S	147.64	E	58	*	4.5		1.1	11	EAST PAPUA NEW GUINEA REGION
	25	13	32	15.5?	34.50	S	179.69	E	197	?	4.3		0.9	15	SOUTH OF KERMADEC ISLANDS
	25	14	02	38.3&	61.930	N	149.551	W	28					14	SOUTHERN ALASKA. <AGS-P>.
	25	15	31	13.6	38.148	N	22.167	E	10	G			0.9	11	GREECE. ML 3.2 (ATH).
	25	15	40	46.5	36.145	N	29.481	E	52	*			1.1	25	TURKEY. MD 4.1 (ATH).
	25	17	05	39.8%	44.810	N	6.842	E	10	G			0.0	5	FRANCE. ML 2.1 (GEN).
	25	17	32	02.0*	18.912	S	67.992	W	77	*			1.0	7	BOLIVIA
	25	18	01	38.5?	41.49	N	14.80	E	10	G			0.5	4	SOUTHERN ITALY
	25	19	45	23.4*	51.611	N	6.870	E	10	G			0.7	5	GERMANY. MD 2.6 (UCC).
	25	20	14	39.0?	19.01	N	66.30	W	33	N			0.1	5	PUERTO RICO REGION. Felt (I) on St. Thomas, Virgin Islands and ot Son Juon, Puerto Rico.
	25	20	43	32.8*	6.252	S	145.537	E	127	*	4.4		1.4	13	PAPUA NEW GUINEA
	25	21	39	36.3*	4.507	N	126.028	E	186	*	5.1		0.7	21	TALAUD ISLANDS
o	25	21	54	23.1	7.191	S	122.715	E	620	G	5.6		0.9	225	FLORES SEA. Depth from broodbond displacement seismogroms.
a	25	22	16	12.8	32.099	S	178.134	W	33	N	5.3	4.9	1.0	51	SOUTH OF KERMADEC ISLANDS
	25	22	16	19.0&	66.366	N	146.879	W	57					10	ALASKA. <AGS-P>.
	25	22	35	50.7%	37.119	N	3.951	W	10	G			0.6	5	SPAIN. mbLg 2.6 (MDD).
	25	22	51	10.2?	43.36	N	18.67	E	10	G			1.4	5	YUGOSLAVIA. ML 2.4 (TTG).
	25	23	26	15.8	46.905	N	153.993	E	33	N	4.9	4.3	1.0	49	KURIL ISLANDS
	26	00	25	16.8	38.137	N	23.276	E	20				1.1	29	GREECE. ML 3.4 (ATH).
	26	02	57	29.7?	31.39	S	68.64	W	85	?			0.1	5	SAN JUAN PROVINCE, ARGENTINA
	26	02	59	39.5&	63.431	N	151.252	W	18					24	CENTRAL ALASKA. <AGS-P>. ML 2.8 (PMR).
	26	04	00	36.5	17.854	S	69.584	W	158		4.4		0.9	24	PERU-BOLIVIA BORDER REGION
	26	06	29	36.5*	3.098	S	130.794	E	33	N	4.2		1.2	9	CERAM
	26	07	55	52.2%	27.347	S	117.708	E	10	G			1.2	7	WESTERN AUSTRALIA
	26	09	12	28.7%	34.967	N	136.962	E	33	N			0.7	5	SOUTHERN HONSHU, JAPAN. MG 3.4 (JMA). Felt (I JMA) at Gifu.
	26	09	14	38.4%	33.268	S	118.570	E	10	G			1.0	6	WESTERN AUSTRALIA
	26	09	22	12.3%	33.265	S	118.592	E	10	G			1.3	5	WESTERN AUSTRALIA
	26	09	40	51.3%	33.233	S	118.559	E	10	G			1.5	5	WESTERN AUSTRALIA
	26	10	18	22.6%	43.348	N	12.523	E	10	G			0.6	6	CENTRAL ITALY
	26	10	24	58.8*	38.222	S	73.027	W	40	*	4.5	3.8	1.1	28	NEAR COAST OF CENTRAL CHILE
	26	12	25	27.7?	43.97	N	7.54	E	10	G			0.1	4	NEAR SOUTH COAST OF FRANCE. ML 1.9 (GEN).
	26	12	26	11.2	33.713	N	141.312	E	60	?	5.2		1.0	25	OFF EAST COAST OF HONSHU, JAPAN. Felt (I JMA) on Hachijo-jima.
	26	12	41	26.8%	41.100	N	29.014	E	10	G			0.2	5	TURKEY
	26	13	17	53.4?	18.56	N	66.07	W	33	N			0.7	5	PUERTO RICO REGION
a	26	13	59	49.0*	20.715	S	169.219	E	30	D	4.9	4.9	1.4	73	VANUATU ISLANDS
	26	14	03	03.9%	36.426	N	4.502	W	84	?			0.8	10	STRAIT OF GIBRALTAR
	26	14	05	03.8	14.788	N	91.942	W	78	D	4.8		1.4	92	GUATEMALA. Felt in much of Guatemala.
	26	15	45	13.8%	18.474	N	65.978	W	10	G			0.2	5	PUERTO RICO REGION
a	26	16	08	45.3	14.427	N	91.416	W	62	D	4.8		1.3	96	GUATEMALA. Felt in much of Guatemala.
	26	16	13	10.8	14.239	N	91.747	W	62	D	4.8		1.2	67	GUATEMALA
	26	17	26	26.6?	52.98	N	164.04	W	33	N	4.1		0.6	11	SOUTH OF ALASKA
	26	17	26	34.5*	14.178	N	91.893	W	67		4.5		1.0	28	GUATEMALA
	26	17	29	56.7*	14.160	N	91.720	W	61	?			0.9	16	GUATEMALA
	26	17	49	07.1?	2.13	N	126.90	E	33	N	4.3		0.5	6	MOLUCCA PASSAGE
	26	18	30	47.5*	44.559	N	6.795	E	10	G			0.2	5	FRANCE. ML 1.5 (GEN).
	26	19	15	13.7?	11.73	S	115.75	E	33	N			1.5	6	SOUTH OF BALI ISLAND
	26	20	52	41.0&	58.397	N	154.413	W	89					12	ALASKA PENINSULA. <AGS-P>.
	26	22	10	57.0%	61.791	N	7.274	E	10	G			0.6	7	SOUTHERN NORWAY. MD 1.9 (BER).
	26	22	38	08.2	44.754	N	111.063	W	5	G			0.8	18	HEBGEN LAKE REGION. ML 3.9 (NEIS), 4.1 (BUT). Felt (IV) ot West Yellowstone, Montana.
	26	23	43	01.9&	56.931	N	146.805	W	10	G				16	GULF OF ALASKA. <AGS-P>.
	26	23	49	10.1*	29.029	S	139.888	E	10	G			1.5	6	SOUTH AUSTRALIA. ML 3.6 (STK).
	27	01	26	25.1	44.495	N	6.880	E	10	G			0.2	7	FRANCE. ML 1.7 (GEN).
	27	01	34	50.7	32.336	N	48.823	E	33	N	4.7		1.1	69	WESTERN IRAN
	27	01	39	47.0?	40.84	N	21.46	E	10	G			0.7	5	GREECE

	27	02	22	15.3•	40.758	N	30.083	E	10	G			1.4	9	TURKEY
	27	03	00	16.7?	54.83	N	164.75	W	200	•	4.1		0.2	14	UNIMAK ISLAND REGION
	27	03	04	29.2	40.671	N	20.885	E	10	G			1.1	9	GREECE-ALBANIA BORDER REGION
	27	03	43	09.1?	5.93	S	131.07	E	118	?	4.4		1.7	8	BANDA SEA
	27	03	49	58.7?	0.34	N	79.01	W	10	G			0.6	5	NEAR COAST OF ECUADOR
	27	05	41	10.7?	31.21	S	68.59	W	91	?			0.3	6	SAN JUAN PROVINCE, ARGENTINA
	27	05	44	44.8?	4.15	S	141.36	E	63	?	4.0		1.4	8	PAPUA NEW GUINEA
	27	05	48	47.1&	63.428	N	151.366	W	19					21	CENTRAL ALASKA. <AGS-P>. ML 3.0 (PMR).
	27	06	08	47.8•	7.108	S	150.830	E	33	N	4.6		1.0	6	NEW BRITAIN REGION
	27	07	44	55.3	41.711	N	19.487	E	10	G			1.2	9	ALBANIA. ML 2.5 (TTG).
	27	09	07	45.7?	15.06	N	61.19	W	176	?			0.5	13	LEEWARD ISLANDS
	27	09	56	25.6?	14.91	N	92.23	W	68	•			1.4	10	NEAR COAST OF CHIAPAS, MEXICO
	27	10	24	54.6?	31.85	S	71.51	W	10	G			0.9	8	NEAR COAST OF CENTRAL CHILE
	27	10	32	54.9•	22.097	S	170.069	E	33	N	4.5	4.4	1.3	17	LOYALTY ISLANDS REGION
	27	10	51	36.3•	28.886	N	68.238	E	31	•	4.7	4.2	1.2	19	PAKISTAN
	27	11	47	04.1•	7.035	S	144.730	E	33	N	3.7		1.4	5	NEAR S COAST OF PAPUA NEW GUINEA
	27	12	17	25.4•	30.222	N	32.567	E	10	G			1.1	7	ARAB REPUBLIC OF EGYPT. ML 3.3 (JER).
	27	12	39	52.3?	8.36	S	160.74	E	74	•	4.6		0.9	14	SOLOMON ISLANDS
	27	12	53	27.2%	34.184	S	70.378	W	10	G			0.5	9	CHILE-ARGENTINA BORDER REGION
	27	13	58	40.8	36.109	N	120.071	W	5	G			1.0	11	CENTRAL CALIFORNIA. ML 2.6 (BRK).
	27	14	33	01.5•	6.278	N	126.860	E	209	?	4.4		1.0	22	MINDANAO, PHILIPPINE ISLANDS
	27	14	42	53.2?	37.69	N	15.16	E	10	G			1.4	4	SICILY
	27	15	08	52.4	37.755	N	15.166	E	25		3.9		1.2	25	SICILY
	27	15	09	15.4%	43.402	N	5.418	E	10	G			0.7	11	NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).
	27	15	14	03.8%	37.855	N	15.104	E	10	G			0.4	5	SICILY
	27	15	14	38.9•	31.705	S	69.120	W	127	•			0.4	9	SAN JUAN PROVINCE, ARGENTINA
	27	15	28	47.2%	37.790	N	15.116	E	10	G			0.8	6	SICILY
	27	16	16	38.8?	41.26	S	85.41	W	10	G	4.8	3.9	1.2	20	WEST CHILE RISE
	27	16	26	07.9	5.112	N	123.283	E	570	•	5.0		0.9	39	MINDANAO, PHILIPPINE ISLANDS
	27	16	56	34.2&	63.277	N	150.433	W	129					39	CENTRAL ALASKA. <AGS-P>. Felt at Denali National Park.
	27	18	21	05.8•	44.148	N	7.433	E	10	G			0.5	9	NORTHERN ITALY. ML 2.6 (LDG).
	27	19	48	21.4&	59.500	N	152.563	W	76					23	SOUTHERN ALASKA. <AGS-P>.
	27	21	44	35.6?	32.30	S	177.93	W	33	N	4.6		1.6	12	SOUTH OF KERMADEC ISLANDS
	27	23	20	04.4•	11.334	N	57.577	E	10	G	4.6		1.0	10	ARABIAN SEA
	27	23	53	47.0%	61.154	N	5.224	E	10	G			1.1	8	SOUTHERN NORWAY. MD 1.8 (BER).
	27	23	53	50.5?	42.70	N	144.99	E	50	?			0.6	6	HOKKAIDO, JAPAN REGION. MG 3.9 (JMA). Felt (II JMA) at Kushiro.
	28	00	01	05.1•	34.562	N	36.632	W	10	G	4.7		0.7	14	NORTH ATLANTIC RIDGE
	28	00	50	27.4?	26.02	N	111.74	W	10	G			1.7	10	GULF OF CALIFORNIA
	28	01	11	56.4%	38.784	N	13.828	E	33	N			0.6	5	SICILY
	28	02	12	27.1&	60.349	N	152.258	W	90					15	SOUTHERN ALASKA. <AGS-P>.
	28	02	18	32.8&	59.607	N	139.037	W	11					14	SOUTHEASTERN ALASKA. <AGS-P>.
	28	04	57	27.4	35.705	N	31.253	E	73	?	3.8		1.3	17	CYPRUS
	28	05	48	20.1&	64.147	N	151.709	W	10		4.1			52	CENTRAL ALASKA. <AGS-P>. ML 4.5 (PMR).
	28	06	58	54.7	64.114	N	151.738	W	10	G			0.8	20	CENTRAL ALASKA. ML 3.1 (PMR).
	28	07	19	21.5%	18.545	N	66.418	W	33	N			0.4	5	PUERTO RICO REGION
	28	07	44	37.6%	40.247	N	23.303	E	10	G			0.9	7	GREECE
	28	08	10	04.7•	19.426	S	70.194	W	33	N			1.5	5	NEAR COAST OF NORTHERN CHILE
	28	08	18	54.9?	14.08	N	90.86	W	33	N	4.6		1.4	6	GUATEMALA
	28	08	51	07.8&	36.908	N	121.348	W	7					21	CENTRAL CALIFORNIA. <BRK>. ML 3.0 (BRK).
	28	08	55	09.3•	47.231	N	2.922	E	10				1.2	13	FRANCE. ML 2.6 (LDG).
	28	10	14	59.2?	34.58	N	23.85	E	10	G	4.4		1.3	11	CRETE. MD 4.2 (ATH).
	28	11	25	02.9•	19.938	S	69.337	W	123	?			1.5	7	NORTHERN CHILE
	28	11	42	36.1&	40.343	N	124.495	W	22					13	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.0 (BRK).
	28	11	49	27.0&	58.005	N	152.318	W	19					9	KODIAK ISLAND REGION. <AGS-P>.
	28	11	51	14.6%	36.850	N	5.112	W	10	G			0.2	7	STRAIT OF GIBRALTAR. mbLg 2.8 (MDD).
	28	13	11	45.2%	38.139	N	5.083	W	10	G			1.4	6	SPAIN. mbLg 2.8 (MDD).
	28	13	22	18.6%	39.768	N	141.941	E	120	•			0.7	11	HONSHU, JAPAN. MG 3.8 (JMA). Felt (I JMA) at Morioka.
	28	13	39	18.9•	43.288	N	19.064	E	10	G			1.1	5	YUGOSLAVIA. ML 2.3 (TTG).
	28	13	58	13.3?	52.97	N	4.23	W	10	G			0.2	6	UNITED KINGDOM
	28	14	07	02.7•	37.443	N	143.064	E	39	•	4.5		1.4	26	OFF EAST COAST OF HONSHU, JAPAN
	28	14	39	48.2%	46.186	N	7.726	E	10	G			0.7	5	SWITZERLAND
	28	15	10	57.5	38.705	N	142.294	E	64		4.3		0.7	23	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Ofunato; (II JMA) at Miyako and Moriaka; (I JMA) at Sendoi.
	28	15	35	17.6%	47.214	N	9.657	E	10	G			1.5	6	GERMANY
	28	15	54	33.8?	35.29	N	45.53	E	33	N	4.2		0.9	6	IRAN-IRAQ BORDER REGION
	28	16	18	15.8•	23.489	N	121.758	E	37	•	4.2		1.3	20	TAIWAN
	28	16	34	29.2%	42.167	N	106.255	E	33	N			1.2	7	MONGOLIA
	28	17	18	28.0&	63.250	N	150.655	W	138					44	CENTRAL ALASKA. <AGS-P>.
	28	17	25	27.1	38.336	N	22.224	E	65	?			0.6	15	GREECE. ML 3.3 (ATH).
	28	18	38	53.9	46.503	N	9.464	E	10	G			0.7	9	SWITZERLAND
	28	21	27	09.6?	32.45	S	71.83	W	10	G			0.3	9	NEAR COAST OF CENTRAL CHILE
	28	23	20	23.9•	29.280	S	71.095	W	66	•	4.6		1.1	19	NEAR COAST OF CENTRAL CHILE
	29	00	10	31.4•	5.284	S	148.611	E	47	?	4.8		1.1	14	NEW BRITAIN REGION
	29	01	21	26.6	48.044	N	6.698	E	10	G			0.4	8	FRANCE. ML 2.0 (LDG).
	29	01	33	52.5?	25.88	S	179.39	E	555	?			0.8	14	SOUTH OF FIJI ISLANDS
	29	01	50	37.5	40.618	N	19.100	E	10	G			0.7	18	ALBANIA. MG 3.2 (TIR).
	29	03	05	01.1	1.139	N	121.574	E	43	•	4.7	3.9	1.0	26	MINAHASSA PENINSULA
	29	03	12	26.5	40.662	N	21.584	E	10	G			1.1	26	GREECE. MD 3.6 (ATH).
	29	03	15	44.7?	8.85	N	85.33	W	31	•			0.4	8	OFF COAST OF COSTA RICA
	29	03	40	04.9%	32.187	S	69.061	W	33	N			0.7	6	MENDOZA PROVINCE, ARGENTINA
	29	05	31	32.9%	18.229	N	66.317	W	33	N			1.5	6	PUERTO RICO REGION
a	29	05	48	14.3•	20.722	S	173.714	W	36	D	5.1	4.9	1.4	40	TONGA ISLANDS
	29	06	31	41.6?	5.96	S	147.76	E	114	•	4.5		1.1	9	EAST PAPUA NEW GUINEA REGION
	29	07	02	16.4•	24.179	S	69.355	W	102	•	4.3		0.6	6	NORTHERN CHILE
	29	07	26	33.2?	0.49	N	125.46	E	46	?	4.6		1.1	12	MOLUCCA PASSAGE
	29	07	47	34.0?	17.22	N	62.38	W	10	G			0.5	6	LEEWARD ISLANDS. ML 3.0 (FDF).
	29	07	54	28.8&	62.484	N	151.186	W	90					12	CENTRAL ALASKA. <AGS-P>.
	29	08	00	20.1	43.104	N	10.782	E	10	G			1.3	22	CENTRAL ITALY
	29	08	31	12.4?	36.48	N	70.58	E	122	?	4.7		0.7	6	HINDU KUSH REGION
	29	10	38	08.2	40.373	N	21.499	E	17				0.8	19	GREECE. MD 3.9 (ATH).
	29	11	28	30.5•	1.565	N	79.693	W	44	•	4.8	3.8	0.7	11	NEAR COAST OF ECUADOR

	29	11	44	06.4	5.877	S	142.195	E	60	?	4.4	1.2	11	PAPUA NEW GUINEA
	29	14	06	05.4&	66.977	N	148.822	W	75				8	ALASKA. <AGS-P>.
	29	14	25	45.6?	32.56	S	71.96	W	19			0.6	8	NEAR COAST OF CENTRAL CHILE
	29	14	30	46.8&	63.214	N	149.546	W	100				29	CENTRAL ALASKA. <AGS-P>.
	29	14	55	48.9?	22.55	S	66.02	W	250	?	4.6	1.2	20	JUJUY PROVINCE, ARGENTINA
	29	16	09	20.8	41.135	N	142.463	E	63		4.7	1.1	56	HOKKAIDO, JAPAN REGION. Felt (II JMA) at Hachinohe, Miyako and Morioka, Honshu.
a	29	16	57	05.3	4.441	S	144.027	E	106	D	5.4	1.0	81	NEAR N COAST OF PAPUA NEW GUINEA
	29	17	07	11.3?	50.39	N	18.95	E	10	G		0.4	4	POLAND. ML 3.1 (KRA).
	29	17	30	02.3*	48.761	N	153.680	E	114	?	4.4	1.0	37	KURIL ISLANDS
	29	17	43	09.0	40.645	N	21.260	E	10	G		0.9	9	GREECE
	29	18	00	34.1*	39.458	N	73.024	E	38	?	4.6	1.1	14	TAJIK-XINJIANG BORDER REGION
	29	19	15	56.4?	11.10	N	61.71	W	10	G		1.2	5	WINDWARD ISLANDS. MD 3.4 (TRN).
	29	20	33	36.5	48.044	N	6.697	E	10	G		0.4	9	FRANCE. ML 2.4 (LDG).
	29	22	21	02.2	41.719	N	19.867	E	10	G		1.6	6	ALBANIA
	29	23	36	52.1%	32.703	S	68.865	W	22	•		0.2	6	MENDOZA PROVINCE, ARGENTINA
	30	00	45	03.8&	66.596	N	147.162	W	3				7	ALASKA. <AGS-P>.
	30	00	56	14.9?	45.55	N	14.30	E	10	G		1.5	4	YUGOSLAVIA. MD 2.0 (TRI).
	30	03	04	10.9	45.930	N	15.732	E	10	G		1.1	6	YUGOSLAVIA. MD 2.8 (LJU).
a	30	04	38	24.4	33.236	N	140.764	E	61		5.3	0.9	235	SOUTH OF HONSHU, JAPAN. Felt (III JMA) on Hachija-jima; (I JMA) at Tateyama, Tokyo, Yokohama and Kofu.
	30	04	41	44.4	33.360	N	141.236	E	33	N	4.9	1.3	15	OFF EAST COAST OF HONSHU, JAPAN
	30	04	41	53.8%	59.993	N	5.655	E	10	G		1.4	8	SOUTHERN NORWAY. MD 1.9 (BER).
	30	06	17	57.6&	57.303	N	143.284	W	10	G			17	GULF OF ALASKA. <AGS-P>.
	30	07	09	16.2	42.778	N	18.236	E	10	G		0.8	6	YUGOSLAVIA. ML 2.2 (TTG).
	30	07	11	11.8&	65.205	N	154.712	W	10	G			22	ALASKA. <AGS-P>. ML 4.1 (PMR).
	30	07	46	06.1?	40.34	N	20.58	E	10	G		1.2	4	GREECE-ALBANIA BORDER REGION
	30	08	31	10.3	33.250	N	140.778	E	61		5.1	0.9	109	SOUTH OF HONSHU, JAPAN
	30	09	22	31.3	7.923	S	121.230	E	33	N	5.0 4.5	1.1	22	FLORES SEA
a	30	09	29	16.0	52.602	S	12.927	E	10	G	5.6 5.7	1.3	128	SOUTHWEST OF AFRICA
	30	10	15	36.3?	39.12	N	27.69	E	10	G		0.1	4	TURKEY
	30	10	41	53.8*	6.874	N	127.126	E	33	N	4.6	1.0	10	PHILIPPINE ISLANDS REGION
	30	10	55	37.0*	7.322	S	107.081	E	33	N	4.9	1.3	13	JAVA
	30	10	59	34.2?	31.26	S	68.63	W	106	?		0.5	7	SAN JUAN PROVINCE, ARGENTINA
	30	11	33	27.6	40.191	N	20.703	E	10	G		0.7	6	GREECE-ALBANIA BORDER REGION
	30	13	17	25.4*	24.456	N	94.033	E	33	N	4.5	0.7	6	BURMA-INDIA BORDER REGION
	30	13	17	43.8?	10.42	N	60.72	W	33	N		0.3	5	TRINIDAD. MD 3.4 (TRN).
	30	13	33	35.5?	11.06	S	165.90	E	33	N	4.3	0.8	7	SANTA CRUZ ISLANDS
	30	14	04	48.9*	8.624	S	121.377	E	141	•	4.3	1.0	16	FLORES ISLAND REGION
	30	15	19	33.0?	21.38	S	68.76	W	33	N		0.9	5	CHILE-BOLIVIA BORDER REGION
	30	15	45	18.4%	31.136	S	68.607	W	97	?		0.2	7	SAN JUAN PROVINCE, ARGENTINA
	30	16	42	34.0	13.181	N	144.079	E	118		4.8	0.8	65	MARIANA ISLANDS
	30	17	50	53.6	13.479	S	150.553	E	33	N	4.5	1.1	15	CORAL SEA
	30	18	20	21.5%	59.865	N	6.974	E	10	G		0.6	7	SOUTHERN NORWAY. MD 1.5 (BER).
a	30	19	14	37.3	4.695	N	95.907	E	23	D	5.2 4.8	1.1	144	NORTHERN SUMATERA
	30	19	21	10.7&	59.980	N	152.773	W	98				20	SOUTHERN ALASKA. <AGS-P>.
a	30	19	36	18.1	5.006	S	130.943	E	57	•	5.3 4.9	1.0	72	BANDA SEA
	30	20	28	54.4?	31.66	S	69.33	W	97	?		0.3	6	SAN JUAN PROVINCE, ARGENTINA
a	30	20	29	05.3	7.663	S	130.711	E	33	N	5.0 4.6	1.2	47	TANIMBAR ISLANDS REGION
	30	21	02	46.3?	5.64	S	144.70	E	109	•	4.1	1.1	6	PAPUA NEW GUINEA
	30	21	06	21.9?	31.56	S	69.42	W	88	?		0.0	6	SAN JUAN PROVINCE, ARGENTINA
a	30	21	09	45.8	7.661	S	130.652	E	33	N	4.8	1.0	48	TANIMBAR ISLANDS REGION
	30	22	56	20.3?	0.64	S	150.22	E	33	N	4.2	0.5	8	NEW IRELAND REGION
	30	23	44	54.0*	43.280	N	19.905	E	10	G		1.3	9	YUGOSLAVIA
	31	00	29	23.6?	9.16	N	84.05	W	10	G		0.7	5	COSTA RICA. MD 3.1 (SJR).
	31	01	14	40.4*	54.774	N	163.929	W	148		3.9	0.2	14	UNIMAK ISLAND REGION
	31	01	24	13.9?	37.04	N	27.93	E	10	G		1.4	4	TURKEY
	31	03	03	53.1%	37.707	N	29.182	E	10	G		1.0	6	TURKEY
	31	04	37	53.0*	36.685	N	27.040	E	148	?		0.1	8	DODECANESE ISLANDS. MD 3.6 (ATH).
	31	04	48	32.8	8.802	S	119.160	E	105	•	4.7	1.4	28	FLORES ISLAND REGION
	31	05	08	04.8?	14.92	N	60.67	W	63	?		0.1	5	WINDWARD ISLANDS
	31	05	12	15.3&	37.200	N	122.000	W	6				9	CENTRAL CALIFORNIA. <BRK>. ML 3.0 (BRK). Felt (IV) at Haly City and Redwood Estates. Felt (III) at Mount Herman.
	31	05	16	15.0?	31.56	S	68.92	W	93	?		0.1	6	SAN JUAN PROVINCE, ARGENTINA
	31	06	40	29.7*	50.985	N	15.913	E	10	G		1.5	5	CZECHOSLOVAKIA
	31	07	00	19.9	54.046	N	164.124	W	58		4.8	0.9	66	UNIMAK ISLAND REGION. Felt (III) at False Pass.
	31	07	12	31.1?	4.75	S	139.23	E	33	N	4.0	0.9	6	WEST IRIAN
	31	07	45	39.9%	37.923	N	29.381	E	10	G		1.4	6	TURKEY
	31	08	20	12.3%	10.909	N	61.523	W	33	N		1.3	7	TRINIDAD. MD 3.1 (TRN).
	31	09	41	39.4%	47.249	N	0.164	E	10	G		0.8	17	FRANCE. ML 3.4 (LDG).
	31	09	43	23.4	3.554	N	126.653	E	95	?	4.5	1.1	22	TALAUD ISLANDS
	31	09	51	12.9%	47.240	N	0.144	E	10	G		0.5	15	FRANCE. ML 3.1 (LDG).
	31	10	25	28.1&	37.465	N	121.777	W	5				15	CENTRAL CALIFORNIA. <BRK>. ML 3.0 (BRK). Mo=2.5*10**14 Nm (BRK). Felt in the southern San Francisco Bay area.
	31	10	33	59.6	33.496	S	70.401	W	87	•		0.6	16	CHILE-ARGENTINA BORDER REGION
	31	10	41	25.7?	23.35	N	121.66	E	24	•		0.4	7	TAIWAN
	31	10	49	08.6	40.617	N	20.901	E	10	G		1.2	14	GREECE-ALBANIA BORDER REGION. MD 3.4 (ATH).
	31	12	01	31.6%	47.189	N	0.028	W	10	G		1.4	8	FRANCE. ML 2.6 (LDG).
	31	12	24	46.1	35.644	N	22.634	E	45	•	4.4	1.3	49	MEDITERRANEAN SEA. MD 4.0 (ATH).
	31	12	31	50.2%	47.198	N	0.168	E	10	G		0.9	8	FRANCE. ML 2.5 (LDG).
	31	12	32	41.2?	39.12	N	27.60	E	10	G		0.5	4	TURKEY
	31	12	52	36.3*	7.193	S	125.290	E	480	•	5.0	1.2	17	BANDA SEA
	31	12	56	45.2	40.372	N	144.801	E	6		5.0	0.8	59	OFF EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Morioka.
	31	13	22	29.7	40.617	N	20.950	E	13			1.5	13	GREECE-ALBANIA BORDER REGION. MD 3.4 (ATH).
	31	13	40	35.1*	20.819	S	174.195	W	33	N	5.0	1.4	38	TONGA ISLANDS
	31	14	17	14.6?	41.54	N	12.54	E	10	G		0.5	6	SOUTHERN ITALY
	31	14	40	47.8%	43.448	N	5.429	E	10	G		0.6	14	NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).
	31	15	34	24.6	40.627	N	20.889	E	10	G		1.1	11	GREECE-ALBANIA BORDER REGION. MD 3.2 (ATH).
	31	16	15	07.9&	60.379	N	151.294	W	46				19	KENAI PENINSULA, ALASKA. <AGS-P>.
	31	16	21	11.8?	40.29	N	126.36	W	10	G		0.5	8	OFF COAST OF NORTHERN CALIFORNIA. ML 3.7 (BRK).
f	31	17	07	27.8	8.048	S	121.384	E	14	G	6.3 6.2	1.3	229	FLORES ISLAND REGION. Ms 6.4 (BRK), 6.4 (PAS).

												Mo=1.3•10••19 Nm (PPT). Slight damage (V) at Maumere. Felt at Paga. Twa events about 5.5 seconds apart. Depth from broadband displacement seismograms, based on second event.
31	17	55	00.8%	47.175	N	0.129	W	10	G		0.1	5 FRANCE. ML 2.5 (LDG).
31	18	26	48.8?	39.22	N	16.09	E	10	G		0.2	4 SOUTHERN ITALY
31	19	54	53.7?	17.43	S	178.94	W	550	?	5.0	0.6	16 FIJI ISLANDS REGION
31	20	29	45.6?	10.99	N	62.01	W	80	?		0.4	8 NEAR COAST OF VENEZUELA. MD 3.7 (TRN).
31	21	08	14.1%	34.261	N	132.605	E	10	G		0.8	6 SOUTHERN HONSHU, JAPAN. MG 3.6 (JMA). Felt (I JMA) at Hiroshima.
31	21	29	12.4	15.797	S	167.618	E	138	•	5.1	1.1	103 VANUATU ISLANDS
31	21	38	42.9%	37.529	N	29.784	E	10	G		0.3	5 TURKEY
31	22	06	15.3	4.679	N	95.987	E	33	N	4.7	1.2	26 NORTHERN SUMATERA
31	22	07	21.5•	45.465	N	3.737	E	10	G		0.6	8 FRANCE. ML 1.9 (LDG).
31	23	06	37.3%	36.648	N	3.074	W	10	G		1.0	6 STRAIT OF GIBRALTAR. mbLg 3.2 (MDD).
31	23	56	07.5	40.708	N	20.878	E	10	G		0.7	6 GREECE-ALBANIA BORDER REGION

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

01 03 59 14.42 6.447S 147.861E 44km
5.3mb (22 obs.) 5.0Msz (11 obs.)
EAST PAPUA NEW GUINEA REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 31C
Centroid Location:
Origin Time 03:59:18.4 0.4
Lat 6.79S 0.06 Lon 147.82E 0.06
Dep 17.9 4.9 Half-duration 1.7
Principal Axes:
Scale 10••16 Nm

	Val=	Plg=	Azm=
T	11.41	19	291
N	1.03	14	196
P	-12.45	66	71

Best Double Couple:Mo=1.2•10••17
NP1:Strike= 44 Dip=29 Slip= -59
NP2: 189 66 -106

03 17 09 55.84 51.617N 175.208W 33km
5.7mb (73 obs.) 5.7Msz (32 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 34C
Centroid Location:
Origin Time 17:09:57.2 0.2
Lat 51.68N 0.02 Lon 174.82W 0.04
Dep 31.2 1.7 Half-duration 3.7
Principal Axes:
Scale 10••17 Nm

	Val=	Plg=	Azm=
T	13.71	68	327
N	0.63	2	63
P	-14.34	22	154

Best Double Couple:Mo=1.4•10••18
NP1:Strike=249 Dip=23 Slip= 96
NP2: 62 67 87

04 19 42 41.43 5.877N 125.621E 80km
4.9mb (19 obs.)
MINDANAO, PHILIPPINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 21C
Centroid Location:
Origin Time 19:42:41.0 0.7
Lat 5.65N 0.07 Lon 125.48E 0.09
Dep 77.1 6.0 Half-duration 1.5
Principal Axes:
Scale 10••16 Nm

	Val=	Plg=	Azm=
T	7.81	39	334
N	-0.13	50	138
P	-7.68	8	237

Best Double Couple:Mo=7.7•10••16
NP1:Strike= 8 Dip=57 Slip= 156
NP2: 112 70 36

05 16 16 31.85 4.057N 126.625E 94km
4.9mb (12 obs.)
TALAUD ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 27C
Centroid Location:
Origin Time 16:16:32.7 0.6
Lat 4.31N 0.05 Lon 126.73E 0.09
Dep 88.6 4.7 Half-duration 1.5
Principal Axes:
Scale 10••16 Nm

	Val=	Plg=	Azm=
T	6.70	5	354
N	-2.24	41	259
P	-4.46	49	90

Best Double Couple:Mo=5.6•10••16
NP1:Strike=119 Dip=53 Slip= -35
NP2: 232 62 -138

06 17 25 29.43 16.632S 177.365W 23km
5.3mb (16 obs.) 5.5Msz (18 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 37C
Centroid Location:
Origin Time 17:25:35.0 0.5
Lat 16.15S 0.04 Lon 177.64W 0.04
Dep 15.0 FIX Half-duration 3.5
Principal Axes:
Scale 10••17 Nm

	Val=	Plg=	Azm=
T	8.14	1	279
N	0.95	74	12
P	-9.09	16	189

Best Double Couple:Mo=8.6•10••17
NP1:Strike=325 Dip=78 Slip=-169
NP2: 233 80 -12

06 20 22 53.23 8.014N 126.786E 60km
5.3mb (21 obs.) 4.5Msz (9 obs.)
MINDANAO, PHILIPPINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 24C
Centroid Location:
Origin Time 20:22:52.7 0.4
Lat 7.69N 0.05 Lon 126.92E 0.07
Dep 46.8 4.5 Half-duration 1.9
Principal Axes:
Scale 10••17 Nm

	Val=	Plg=	Azm=
T	1.42	42	214
N	-0.03	46	54
P	-1.39	10	314

Best Double Couple:Mo=1.4•10••17
NP1:Strike= 3 Dip=53 Slip= 26
NP2: 257 69 140

07 12 27 51.08 36.265S 99.250W 10km
5.2mb (13 obs.) 5.0Msz (8 obs.)
SOUTHERN PACIFIC OCEAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 33C
Centroid Location:
Origin Time 12:27:52.4 0.2
Lat 36.54S 0.03 Lon 98.59W 0.04
Dep 15.0 FIX Half-duration 3.1
Principal Axes:
Scale 10••17 Nm

	Val=	Plg=	Azm=
T	6.32	0	229
N	-0.38	76	137
P	-5.93	14	319

Best Double Couple:Mo=6.1•10••17
NP1:Strike= 3 Dip=80 Slip= -10
NP2: 95 80 -170

07 19 41 18.84 4.823S 128.973E 34km
5.5mb (32 obs.) 4.8Msz (9 obs.)
BANDA SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 28C
Centroid Location:
Origin Time 19:41:19.6 0.3
Lat 4.82S 0.03 Lon 128.93E 0.04
Dep 46.0 3.4 Half-duration 2.6
Principal Axes:
Scale 10••17 Nm

	Val=	Plg=	Azm=
T	4.12	7	116
N	-0.10	79	346
P	-4.03	9	207

Best Double Couple:Mo=4.1•10••17
NP1:Strike=251 Dip=79 Slip= -1
NP2: 341 89 -169

08 00 48 09.78 17.720S 172.945W 41km
5.1mb (34 obs.) 5.0Msz (5 obs.)
TONGA ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 25C
Centroid Location:
Origin Time 00:48:13.8 1.3
Lat 17.84S 0.07 Lon 172.82W 0.10
Dep 18.1 3.7 Half-duration 1.7
Principal Axes:
Scale 10••16 Nm

	Val=	Plg=	Azm=
T	8.10	76	341
N	2.73	10	208
P	-10.83	10	116

Best Double Couple:Mo=9.5•10••16
NP1:Strike=194 Dip=36 Slip= 73
NP2: 34 56 102

08 10 33 07.87 1.162N 121.476E 41km
5.5mb (37 obs.) 5.1Msz (17 obs.)
MINAHASSA PENINSULA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 32C
Centroid Location:
Origin Time 10:33:10.0 0.2
Lat 1.31N 0.04 Lon 121.77E 0.04
Dep 39.7 2.3 Half-duration 2.9
Principal Axes:
Scale 10••17 Nm

	Val=	Plg=	Azm=
T	5.04	4	289
N	-0.05	6	199
P	-4.99	83	56

Best Double Couple:Mo=5.0•10••17
NP1:Strike= 25 Dip=41 Slip= -81
NP2: 194 50 -98

09 02 09 09.18 34.942N 139.193E 5km
5.1mb (33 obs.) 5.0Msz (8 obs.)
NEAR S. COAST OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 23C
Centroid Location:
Origin Time 02:09:10.8 0.7
Lat 34.78N 0.05 Lon 138.90E 0.08
Dep 15.0 FIX Half-duration 1.7
Principal Axes:
Scale 10••16 Nm

	Val=	Plg=	Azm=
T	7.59	0	227
N	0.88	90	180
P	-8.47	0	137

Best Double Couple:Mo=8.0•10••16
NP1:Strike=272 Dip=90 Slip= 180
NP2: 2 90 0

09 09 46 39.62 1.577S 15.548W 10km
5.4mb (57 obs.) 5.4Msz (10 obs.)
NORTH OF ASCENSION ISLAND
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 35C
Centroid Location:
Origin Time 09:46:47.5 0.2
Lat 1.02S 0.03 Lon 15.11W 0.03
Dep 15.0 FIX Half-duration 2.8

Principal Axes:
Scale 10**17 Nm
T Val= 4.51 Plg=19 Azm=212
N -0.34 67 353
P -4.17 14 117
Best Double Couple:Mo=4.3*10**17
NP1:Strike=254 Dip=67 Slip= 176
NP2: 345 87 23

09 17 46 27.14 57.078S 23.965W 33km
5.2mb (8 obs.) 4.7Msz (3 obs.)
SOUTH SANDWICH ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 20C
Centroid Location:
Origin Time 17:46:29.8 0.9
Lat 57.14S 0.09 Lan 23.45W 0.17
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 7.18 Plg=14 Azm=243
N 0.51 18 149
P -7.69 67 8
Best Double Couple:Mo=7.4*10**16
NP1:Strike=356 Dip=35 Slip= -57
NP2: 138 61 -111

10 23 59 15.09 46.050N 151.316E 75km
5.5mb (69 obs.)
KURIL ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 28C
Centroid Location:
Origin Time 23:59:17.3 0.4
Lat 46.04N 0.04 Lon 150.85E 0.05
Dep 54.3 5.2 Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.69 Plg=50 Azm=131
N 0.27 24 9
P -1.96 30 265
Best Double Couple:Mo=1.8*10**17
NP1:Strike=307 Dip=27 Slip= 25
NP2: 194 79 114

12 02 41 39.25 8.129S 68.355E 10km
4.7mb (15 obs.) 5.0Msz (8 obs.)
CHAGOS ARCHIPELAGO REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 30C
Centroid Location:
Origin Time 02:41:38.5 0.4
Lat 8.81S 0.04 Lon 67.41E 0.03
Dep 15.0 FIX Half-duration 2.9
Principal Axes:
Scale 10**17 Nm
T Val= 5.72 Plg= 0 Azm= 92
N -0.72 90 180
P -5.00 0 2
Best Double Couple:Mo=5.4*10**17
NP1:Strike=137 Dip=90 Slip= 180
NP2: 227 90 0

13 02 02 22.97 13.259S 167.110E 202km
5.3mb (29 obs.)
VANUATU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 27C
Centroid Location:
Origin Time 02:02:27.4 0.7
Lat 13.24S 0.06 Lon 166.73E 0.06
Dep 187.1 1.8 Half-duration 1.8
Principal Axes:
Scale 10**17 Nm
T Val= 1.15 Plg=65 Azm=168
N 0.17 24 358
P -1.32 4 267
Best Double Couple:Mo=1.2*10**17
NP1:Strike=333 Dip=46 Slip= 55
NP2: 198 54 121

14 15 43 18.13 1.472S 15.546W 10km
5.4mb (62 obs.) 5.3Msz (13 obs.)
NORTH OF ASCENSION ISLAND
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 40C
Centroid Location:
Origin Time 15:43:26.7 0.2
Lat 1.18S 0.02 Lan 15.12W 0.02
Dep 15.0 FIX Half-duration 3.2
Principal Axes:
Scale 10**17 Nm
T Val= 6.30 Plg= 0 Azm=211
N -0.38 90 180
P -5.92 0 121
Best Double Couple:Mo=6.1*10**17
NP1:Strike=256 Dip=90 Slip= 180
NP2: 346 90 0

14 20 42 40.06 8.081S 125.129E 10km
6.4mb (53 obs.) 6.2Msz (17 obs.)
TIMOR
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=240 Dip=54 Slip= 70
NP2: 92 41 115
Principal Axes:
T Plg=72 Azm= 97
P 7 344
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting with a moderate strike-slip component. The preferred fault plane is not determined.
RADIATED ENERGY
No. of sta: 10 Focal mech. F
Energy 0.6±0.1*10**15 Nm
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 41C M.W.: 12S, 22C
Centroid Location:
Origin Time 20:42:48.4 0.1
Lat 7.86S 0.01 Lon 125.41E 0.02
Dep 36.4 0.9 Half-duration 7.8
Principal Axes:
Scale 10**18 Nm
T Val= 9.93 Plg=75 Azm=118
N 1.63 7 236
P -11.56 13 328
Best Double Couple:Mo=1.1*10**19
NP1:Strike= 67 Dip=33 Slip= 103
NP2: 232 58 82

15 00 09 16.12 22.809N 94.560E 108km
5.4mb (79 obs.)
BURMA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 12C
Centroid Location:
Origin Time 00:09:24.9 1.7
Lat 22.91N 0.17 Lon 93.94E 0.19
Dep 139.4 6.4 Half-duration 2.1
Principal Axes:
Scale 10**17 Nm
T Val= 2.98 Plg=43 Azm= 86
N -0.87 40 230
P -2.11 19 337
Best Double Couple:Mo=2.5*10**17
NP1:Strike=111 Dip=44 Slip= 159
NP2: 217 75 48

16 09 37 37.12 2.559N 101.361W 10km
5.0mb (13 obs.) 4.8Msz (2 obs.)
EAST CENTRAL PACIFIC OCEAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 22C
Centroid Location:
Origin Time 09:37:42.4 0.7
Lat 2.45N 0.06 Lon 101.83W 0.08
Dep 15.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Val= 10.11 Plg= 0 Azm=208
N -0.65 90 180
P -9.45 0 118
Best Double Couple:Mo=9.8*10**16
NP1:Strike=253 Dip=90 Slip= 180
NP2: 343 90 0

17 08 04 50.58 14.486S 173.478W 33km
4.9mb (12 obs.) 4.7Msz (2 obs.)
SAMOA ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 24C
Centroid Location:
Origin Time 08:04:55.8 1.1
Lat 14.65S 0.12 Lon 173.82W 0.10
Dep 24.5 8.4 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 6.00 Plg= 5 Azm=306
N -0.58 65 46
P -5.42 25 213
Best Double Couple:Mo=5.7*10**16
NP1:Strike=352 Dip=69 Slip=-165
NP2: 257 76 -21

17 15 09 27.92 55.695S 26.535W 33km
5.1mb (6 obs.) 5.2Msz (2 obs.)
SOUTH SANDWICH ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 29C
Centroid Location:
Origin Time 15:09:33.6 1.0
Lat 55.51S 0.07 Lan 26.41W 0.18
Dep 27.3 5.3 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 8.34 Plg=62 Azm=290
N 0.50 22 149
P -8.84 16 53
Best Double Couple:Mo=8.6*10**16
NP1:Strike=113 Dip=35 Slip= 48
NP2: 341 65 115

18 10 41 14.59 53.384N 160.376E 33km
5.4mb (70 obs.) 4.8Msz (11 obs.)
NEAR EAST COAST OF KAMCHATKA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 28C
Centroid Location:
Origin Time 10:41:19.0 0.8
Lat 53.12N 0.07 Lan 161.05E 0.09
Dep 53.6 3.9 Half-duration 1.9
Principal Axes:
Scale 10**17 Nm
T Val= 1.09 Plg=59 Azm=221
N 0.68 27 7
P -1.78 15 105
Best Double Couple:Mo=1.4*10**17
NP1:Strike=227 Dip=38 Slip= 137
NP2: 353 65 60

19 03 14 09.39 7.338S 154.331E 46km
5.2mb (18 obs.) 4.3Msz (3 obs.)
SOLOMON ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 25C
Centroid Location:
Origin Time 03:14:10.8 0.7
Lat 7.53S 0.10 Lan 154.24E 0.08
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 6.47 Plg= 6 Azm=204
N -0.87 16 295
P -5.60 73 95
Best Double Couple:Mo=6.0*10**16
NP1:Strike=277 Dip=42 Slip=-115
NP2: 128 53 -70

20 06 27 25.13 5.048N 95.635E 82km
5.9mb (81 obs.)
NORTHERN SUMATERA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=165 Dip=55 Slip= 40
NP2: 49 58 138
Principal Axes:
T Plg=51 Azm= 15
P 2 108
Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting with a large normal component. The preferred fault plane is not determined.
RADIATED ENERGY
No. of sta: 7 Focal mech. M
Energy 0.4±0.1*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 92 No. of sta: 10
Principal Axes:
Scale 10**17 Nm
T Val= 3.21 Plg=52 Azm= 8
N -0.03 36 208
P -3.17 10 111
Best Double Couple:Mo=3.2*10**17

NP1:Strike=165 Dip=48 Slip= 37
NP2: 49 64 131
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 33C
Centroid Locotion:
Origin Time 06:27:29.4 0.3
Lat 5.13N 0.03 Lon 95.80E 0.04
Dep 100.8 2.2 Half-duratian 2.4
Principal Axes:
Scale 10**17 Nm
T Val= 2.90 Plg=43 Azm= 20
N 0.09 46 216
P -2.99 8 118
Best Double Couple:Mo=2.9*10**17
NP1:Strike=169 Dip=54 Slip= 28
NP2: 62 68 141

20 12 09 53.30 18.870S 175.528W 241km
5.4mb (44 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 24C
Centroid Location:
Origin Time 12:10: 0.3 0.9
Lot 18.87S 0.07 Lan 175.6BW 0.07
Dep 266.8 2.7 Half-duration 1.9
Principal Axes:
Scale 10**17 Nm
T Val= 1.39 Plg=25 Azm=128
N 0.32 19 29
P -1.71 57 265
Best Double Couple:Mo=1.6*10**17
NP1:Strike=254 Dip=26 Slip= -42
NP2: 22 73 -110

20 17 22 21.24 17.410S 167.829E 33km
5.1mb (5 obs.) 4.9Msz (3 obs.)
VANUATU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 21C
Centroid Location:
Origin Time 17:22:24.7 0.6
Lat 17.40S 0.07 Lon 167.61E 0.07
Dep 19.3 3.2 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 9.40 Plg=66 Azm= 34
N -0.60 17 165
P -8.80 17 261
Best Double Couple:Mo=9.1*10**16
NP1:Strike= 15 Dip=31 Slip= 124
NP2: 157 64 71

21 03 09 16.39 30.029N 99.455E 36km
5.5mb (75 obs.) 5.3Msz (8 obs.)
SICHUAN PROVINCE, CHINA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 23C
Centroid Location:
Origin Time 03:09:22.5 0.3
Lat 29.79N 0.04 Lon 99.54E 0.08
Dep 15.0 FIX Half-duration 2.6
Principal Axes:
Scale 10**17 Nm
T Val= 3.99 Plg=12 Azm=355
N -1 43 22 89
P -2.55 65 238
Best Double Couple:Mo=3.3*10**17
NP1:Strike= 59 Dip=38 Slip=-127
NP2: 283 60 -64

22 05 02 11.51 2.299N 128.142E 142km
6.4mb (82 obs.)
HALMAHERA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=242 Dip=50 Slip= 80
NP2: 77 41 102
Principal Axes:
T Plg=81 Azm= 99
P 5 339
Comment: The focal mechanism is poorly cantralled and corresponds to reverse foulting with a small left-lateral strike-slip component. The preferred fault plane is NP1.
RADIATED ENERGY
No. of sta: 4 Focal mech. F
Energy 0.7±0.3*10**15 Nm
MOMENT TENSOR SOLUTION
Dep 141 No. of sta: 13
Principal Axes:
Scale 10**18 Nm
T Val= 6.45 Plg=77 Azm=248
N 1.54 13 59
P -7.99 2 150
Best Double Couple:Mo=7.2*10**18
NP1:Strike=253 Dip=45 Slip= 109
NP2: 47 4B 72
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 41C M.W.: 15S, 22C
Centroid Locatian:
Origin Time 05:02:15.2 0.2
Lat 2.39N 0.02 Lan 127.94E 0.02
Dep 144.6 0.5 Half-duration 6.0
Principal Axes:
Scale 10**18 Nm
T Val= 4.93 Plg=82 Azm=215
N 0.29 7 62
P -5.21 4 332
Best Double Couple:Mo=5.1*10**18
NP1:Strike= 54 Dip=42 Slip= 79
NP2: 248 49 100

22 12 52 50.41 54.412S 132.680W 10km
5.3mb (7 obs.) 5.6Msz (3 obs.)
SOUTH PACIFIC CORDILLERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 29C
Centroid Locatian:
Origin Time 12:52:57.8 0.4
Lat 54.40S 0.05 Lon 132.77W 0.07
Dep 15.0 FIX Half-duration 2.7
Principal Axes:
Scale 10**17 Nm
T Val= 2.80 Plg= 0 Azm=159
N -0.17 90 180
P -2.64 0 69
Best Double Couple:Mo=2.7*10**17
NP1:Strike=204 Dip=90 Slip= 180
NP2: 294 90 0

24 03 27 48.77 36.085N 71.069E 95km
5.8mb (85 obs.)
AFGHANISTAN-USSR BORDER REGIDN
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 30 Dip=72 Slip= 63
NP2: 269 32 144
Principal Axes:
T Plg=55 Azm=266
P 22 140
Comment: The focal mechanism is poorly controlled and correspands to reverse faulting with a moderate right-lateral strike-slip companent. The preferred fault plane is NP2.
RADIATED ENERGY
Na. af sta: 9 Facal mech. C
Energy 0.8±0.3*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 78 No. af sta: 14
Principal Axes:
Scale 10**17 Nm
T Val= 8.36 Plg=37 Azm=252
N 0.09 48 40
P -8.45 17 149
Best Double Couple:Mo=8.4*10**17
NP1:Strike=284 Dip=51 Slip= 164
NP2: 25 77 40
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 41C
Centroid Locatian:
Origin Time 03:27:52.5 0.2
Lat 35.78N 0.03 Lan 71.28E 0.03
Dep 105.0 1.6 Half-duration 3.7
Principal Axes:
Scale 10**17 Nm
T Val= 9.86 Plg=66 Azm=247
N 0.53 19 29
P -10.39 14 124
Best Double Couple:Mo=1.0*10**18
NP1:Strike=238 Dip=36 Slip= 124
NP2: 18 61 68

24 10 03 45.85 18.874S 176.789E 31km
5.6mb (21 abs.) 5.4Msz (12 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 16S, 41C
Centroid Locatian:
Origin Time 10:03:51.1 0.4
Lat 18.90S 0.04 Lan 176.73E 0.03
Dep 15.0 FIX Half-duratian 3.6
Principal Axes:
Scale 10**17 Nm
T Val= 10.11 Plg= 3 Azm=104
N -0.82 82 352
P -9.29 7 195
Best Double Couple:Ma=9.7*10**17
NP1:Strike=239 Dip=83 Slip= -3
NP2: 330 87 -173

24 10 11 24.23 18.823S 176.674E 33km
5.3mb (15 abs.) 5.5Msz (7 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 13C
Centraid Locatian:
Origin Time 10:11:26.5 1.4
Lat 18.75S 0.14 Lan 176.47E 0.11
Dep 15.0 FIX Half-duratian 3.3
Principal Axes:
Scale 10**17 Nm
T Val= 7.18 Plg= 0 Azm=103
N -2.03 90 180
P -5.15 0 13
Best Double Couple:Ma=6.2*10**17
NP1:Strike=148 Dip=90 Slip= 180
NP2: 238 90 0

24 10 53 10.56 18.880S 176.811E 20km
5.5mb (24 abs.) 5.4Msz (11 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 12S, 31C
Centroid Locatian:
Drigin Time 10:53:20.8 0.5
Lat 18.89S 0.05 Lan 176.56E 0.04
Dep 15.0 FIX Half-duratian 3.4
Principal Axes:
Scale 10**17 Nm
T Val= 8.14 Plg= 0 Azm=106
N -0.92 86 197
P -7.22 4 16
Best Double Couple:Mo=7.7*10**17
NP1:Strike=151 Dip=87 Slip=-177
NP2: 61 87 -3

24 19 46 30.70 18.699S 176.760E 33km
4.8mb (5 obs.) 4.7Msz (4 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 27C
Centroid Locatian:
Origin Time 19:46:35.4 0.7
Lat 18.91S 0.06 Lan 176.41E 0.08
Dep 15.0 FIX Half-duration 1.9
Principal Axes:
Scale 10**17 Nm
T Val= 1.33 Plg=11 Azm= 92
N -0.23 68 212
P -1.10 18 358
Best Double Couple:Mo=1.2*10**17
NP1:Strike=136 Dip=69 Slip=-175
NP2: 44 85 -21

25 21 54 23.11 7.191S 122.715E 620km
5.6mb (39 abs.)
FLORES SEA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=224 Dip=55 Slip=-165
NP2: 125 78 -36
Principal Axes:
T Plg=15 Azm=179
P 34 79
Comment: The facal mechanism is moderately well cantralled and corresponds ta strike-slip faulting with a large narmal component. The preferred fault plane is not determined.
RADIATED ENERGY
No. af sta: 6 Facal mech. F
Energy 0.5±0.2*10**14 Nm
MOMENT TENSOR SOLUTION

Dep 629 No. of sta: 10
Principal Axes:
Scale 10**17 Nm
T Val= 4.60 Plg=17 Azm=181
N 0.01 64 308
P -4.61 20 84
Best Double Couple:Mo=4.6*10**17
NP1:Strike=223 Dip=64 Slip=-178
NP2: 132 88 -26
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 27C
Centroid Location:
Origin Time 21:54:24.2 0.4
Lat 7.47S 0.04 Lon 122.32E 0.05
Dep 637.9 2.5 Half-duration 3.0
Principal Axes:
Scale 10**17 Nm
T Val= 5.60 Plg=13 Azm=184
N 0.91 47 289
P -6.52 40 83
Best Double Couple:Mo=6.1*10**17
NP1:Strike=232 Dip=52 Slip=-158
NP2: 128 73 -41

25 22 16 12.84 32.099S 178.134W 33km
5.3mb (7 obs.) 4.9Msz (1 obs.)
SOUTH OF KERMADEC ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 20C
Centroid Location:
Origin Time 22:16: 5.8 2.3
Lat 32.42S 0.18 Lon 177.27W 0.22
Dep 15.0 FIX Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 11.90 Plg=54 Azm=291
N -0.77 3 25
P -11.13 36 117
Best Double Couple:Mo=1.2*10**17
NP1:Strike=224 Dip=10 Slip= 110
NP2: 25 81 87

26 13 59 49.05 20.715S 169.219E 30km
4.9mb (5 obs.) 4.9Msz (4 obs.)
VANUATU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 19C
Centroid Location:
Origin Time 13:59:57.5 0.5
Lat 20.93S 0.10 Lon 168.58E 0.08
Dep 35.0 4.9 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 8.49 Plg=76 Azm= 5
N 1.16 11 146
P -9.65 9 238
Best Double Couple:Mo=9.1*10**16
NP1:Strike=341 Dip=38 Slip= 108
NP2: 138 54 76

26 16 08 45.39 14.427N 91.416W 62km
4.8mb (21 obs.)
GUATEMALA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 25C
Centroid Location
Origin Time 16:08:49.0 0.8
Lat 14.66N 0.07 Lon 90.78W 0.07
Dep 62.3 5.7 Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Val= 12.48 Plg=35 Azm= 33
N -1.97 51 242
P -10.51 14 134
Best Double Couple:Mo=1.2*10**17
NP1:Strike=179 Dip=54 Slip= 17
NP2: 79 77 143

29 05 48 14.38 20.722S 173.714W 36km
5.1mb (11 obs.) 4.9Msz (7 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 23C
Centroid Location:
Origin Time 05:48:17.5 1.8
Lat 20.75S 0.12 Lon 173.35W 0.15
Dep 15.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Val= 5.12 Plg=72 Azm=286
N 0.59 3 25
P -5.71 18 116
Best Double Couple:Mo=5.4*10**16
NP1:Strike=210 Dip=27 Slip= 96
NP2: 23 63 87

29 16 57 05.30 4.441S 144.027E 106km
5.4mb (15 obs.)
NEAR N COAST OF PAPUA NEW GUINEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 18S, 35C
Centroid Location:
Origin Time 16:57: 9.3 0.5
Lat 4.45S 0.04 Lon 143.99E 0.05
Dep 112.8 2.6 Half-duration 1.8
Principal Axes:
Scale 10**17 Nm
T Val= 1.46 Plg=50 Azm= 45
N -0.01 21 287
P -1.44 32 183
Best Double Couple:Mo=1.4*10**17
NP1:Strike=224 Dip=23 Slip= 25
NP2: 111 80 111

30 04 38 24.46 33.236N 140.764E 61km
5.3mb (56 obs.)
SOUTH OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 26C
Centroid Location:
Origin Time 04:38:24.7 0.4
Lat 33.27N 0.04 Lon 140.68E 0.05
Dep 62.3 4.0 Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Val= 10.59 Plg=12 Azm=169
N 0.06 70 44
P -10.65 15 263
Best Double Couple:Mo=1.1*10**17
NP1:Strike=306 Dip=71 Slip= -3
NP2: 36 87 -161

30 09 29 16.01 52.602S 12.927E 10km
5.6mb (21 obs.) 5.7Msz (15 obs.)
SOUTHWEST OF AFRICA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 37C
Centroid Location:
Origin Time 09:29:19.6 0.3
Lat 52.41S 0.03 Lon 12.87E 0.09
Dep 15.0 FIX Half-duration 3.1
Principal Axes:
Scale 10**17 Nm
T Val= 7.30 Plg= 2 Azm= 13
N -1.00 4 103
P -6.31 85 256
Best Double Couple:Mo=6.8*10**17
NP1:Strike= 99 Dip=43 Slip= -96
NP2: 287 47 -84

30 19 14 37.31 4.695N 95.907E 23km
5.2mb (35 obs.) 4.8Msz (10 obs.)
NORTHERN SUMATERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 17C
Centroid Location:
Origin Time 19:14:42.0 0.8
Lat 4.99N 0.08 Lon 96.22E 0.09
Dep 30.7 8.8 Half-duration 1.8
Principal Axes:
Scale 10**16 Nm
T Val= 9.72 Plg=21 Azm=268
N -0.94 62 45
P -8.78 17 171
Best Double Couple:Mo=9.3*10**16
NP1:Strike=309 Dip=62 Slip= 177
NP2: 40 88 28

30 19 36 18.17 5.006S 130.943E 57km
5.3mb (17 obs.) 4.9Msz (1 obs.)
BANDA SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 28C
Centroid Location:
Origin Time 19:36:17.3 0.8
Lat 4.59S 0.09 Lon 131.32E 0.10
Dep 62.7 8.5 Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Val= 6.65 Plg=36 Azm=232
N 2.94 52 31
P -9.60 10 134
Best Double Couple:Mo=8.1*10**16
NP1:Strike=267 Dip=57 Slip= 160
NP2: 8 73 35

30 20 29 05.31 7.663S 130.711E 33km
5.0mb (9 obs.) 4.6Msz (2 obs.)
TANIMBAR ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 27C
Centroid Location:
Origin Time 20:29:10.0 0.4
Lat 7.43S 0.06 Lon 130.54E 0.07
Dep 36.3 5.8 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 7.68 Plg=58 Azm= 12
N 2.80 24 238
P -10.48 21 138
Best Double Couple:Mo=9.1*10**16
NP1:Strike=193 Dip=32 Slip= 41
NP2: 67 70 116

30 21 09 45.89 7.661S 130.652E 33km
4.8mb (12 obs.)
TANIMBAR ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 25C
Centroid Location:
Origin Time 21:09:51.3 0.6
Lat 7.38S 0.08 Lon 130.59E 0.09
Dep 52.3 9.1 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 4.76 Plg=67 Azm=298
N 1.51 7 44
P -6.28 22 137
Best Double Couple:Mo=5.5*10**16
NP1:Strike=240 Dip=24 Slip= 107
NP2: 41 67 83

31 17 07 27.87 8.048S 121.384E 14km
6.3mb (51 obs.) 6.2Msz (30 obs.)
FLORES ISLAND REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 66 Dip=70 Slip= 90
NP2: 246 20 90
Principal Axes:
T Plg=65 Azm=336
P 25 156
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
RADIATED ENERGY
No. of sta: 13 Focal mech. C
Energy 0.4±0.1*10**15 Nm
MOMENT TENSOR SOLUTION
Dep 27 No. of sta: 16
Principal Axes:
Scale 10**19 Nm
T Val= 1.65 Plg=22 Azm=278
N 0.00 67 93
P -1.65 2 187
Best Double Couple:Mo=1.6*10**19
NP1:Strike=321 Dip=73 Slip= 165
NP2: 55 76 17
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 45C M.W.: 15S, 28C
Centroid Location:
Origin Time 17:07:38.9 0.1
Lat 7.94S 0.01 Lon 121.18E 0.02
Dep 30.4 0.8 Half-duration 7.8
Principal Axes:
Scale 10**18 Nm
T Val= 9.72 Plg=56 Azm= 65
N 2.02 32 224
P -11.74 10 320
Best Double Couple:Mo=1.1*10**19
NP1:Strike= 83 Dip=45 Slip= 139
NP2: 205 62 53

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

Corrections to Previous Monthly Listings

1. Comments for the Southern Iran event of 09:13:24.2 UTC on May 03, 1989 should read: Four people injured and seven villages severely damaged in the Mamasani area.

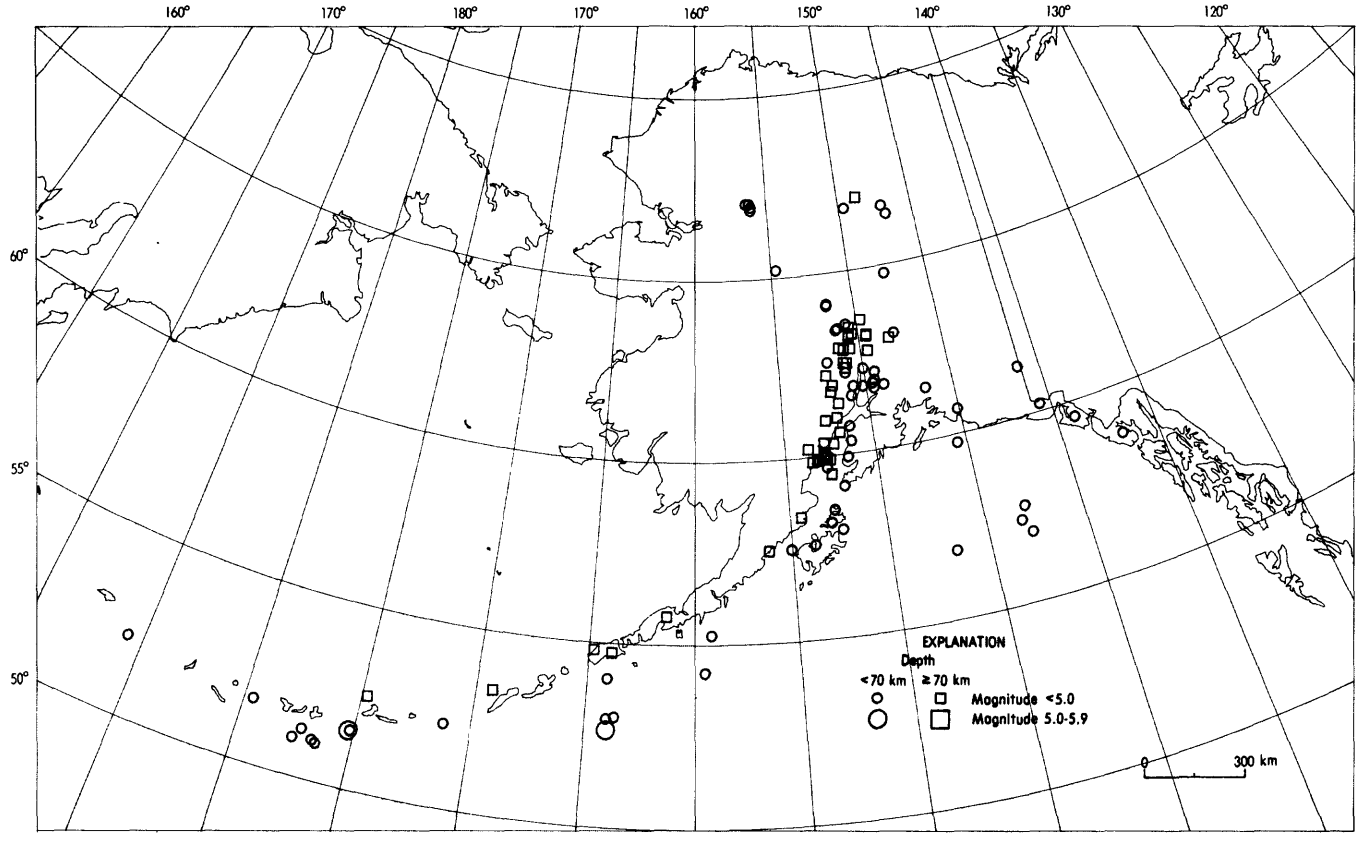
2. The P and T axes were reversed in the P-wave Fault Plane Solution for the event of 10:38:39.4 UTC on June 26, 1989. The correct solution should be:

NP1:	Strike=187	Dip=83	Slip= -5
NP2:	278	85	-173
Principal axes:			
T		Plg= 1	Azm= 52
P		8	142

ANNOUNCEMENT

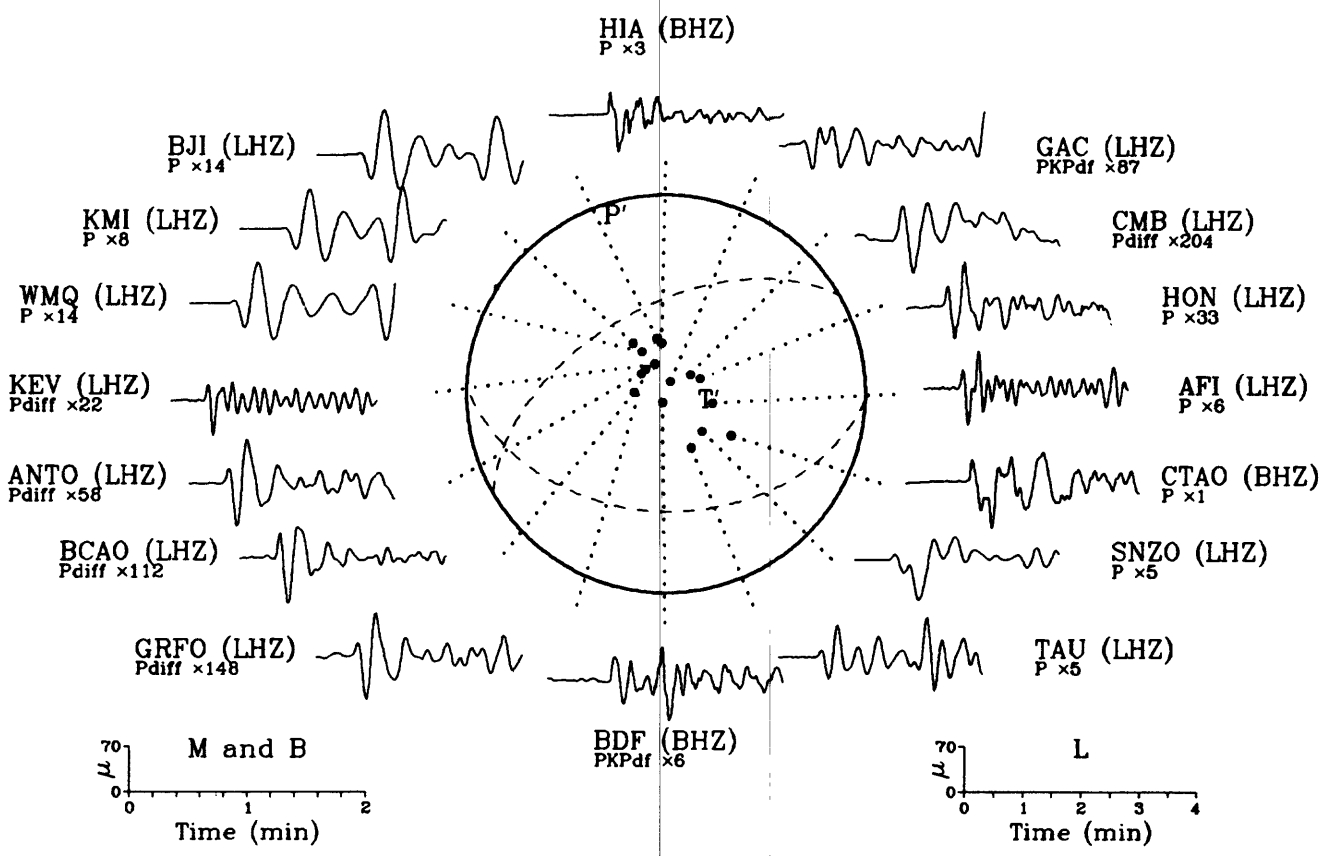
A machine-readable version of the Earthquake Data Report (EDR) is now available on floppy disk from the U.S. Geological Survey's Books and Open-File Reports Section, beginning with the EDR for January 1989. The disks are 1.2 megabyte, 5 1/4-inch diskettes and most months use 3 disks. The current price is $18.00 for a normal (3-disk) month. The EDR is a listing of all data which are used to compute the hypocenters printed in the Preliminary Determination of Epicenters, Monthly Listing.

For more information about this new service, call Jan Jacobs (NEIC) at 303-236-1500, or call Books and Open-File Reports Section at 303-236-7476.

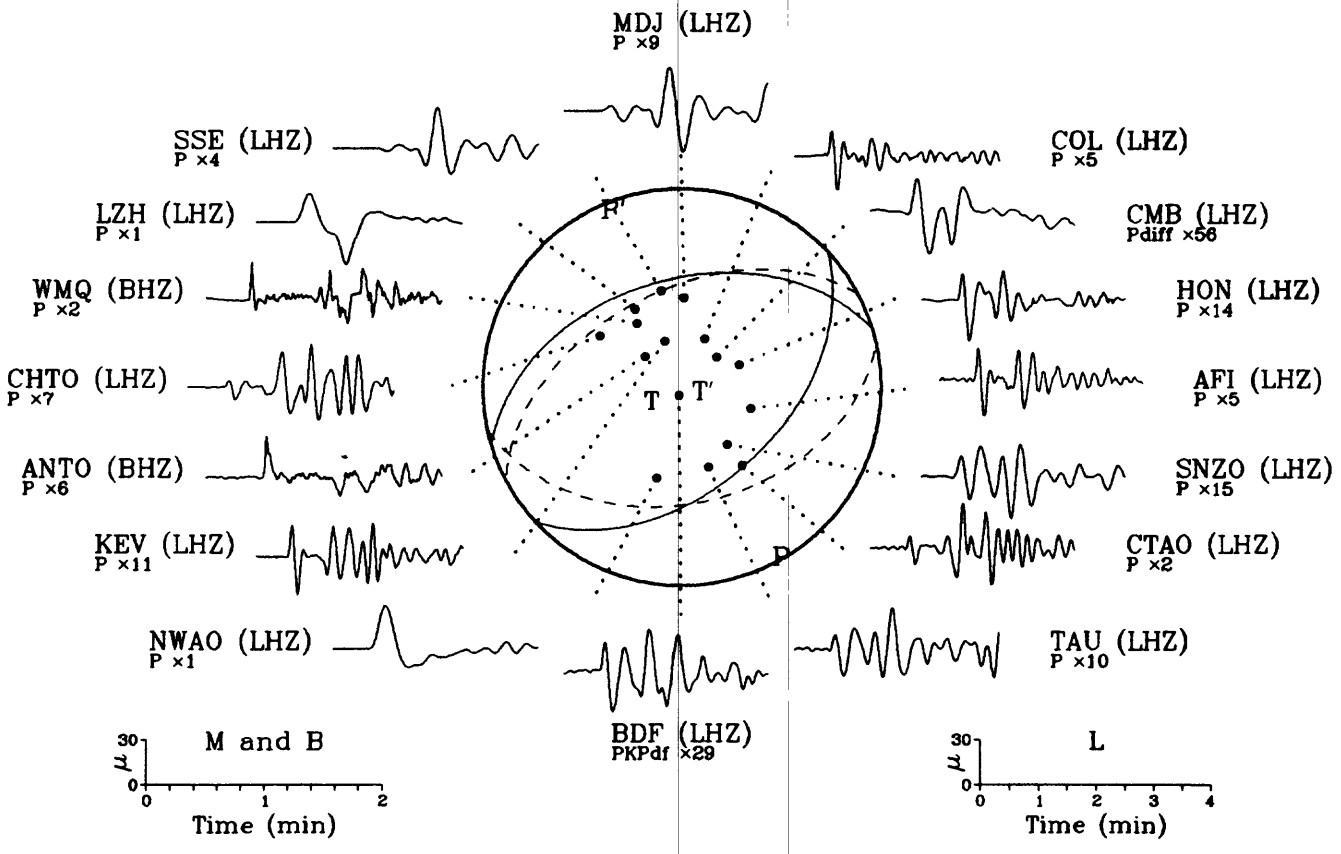


Earthquake epicenters in Alaska and adjacent regions for July, 1989 (C. Stover).

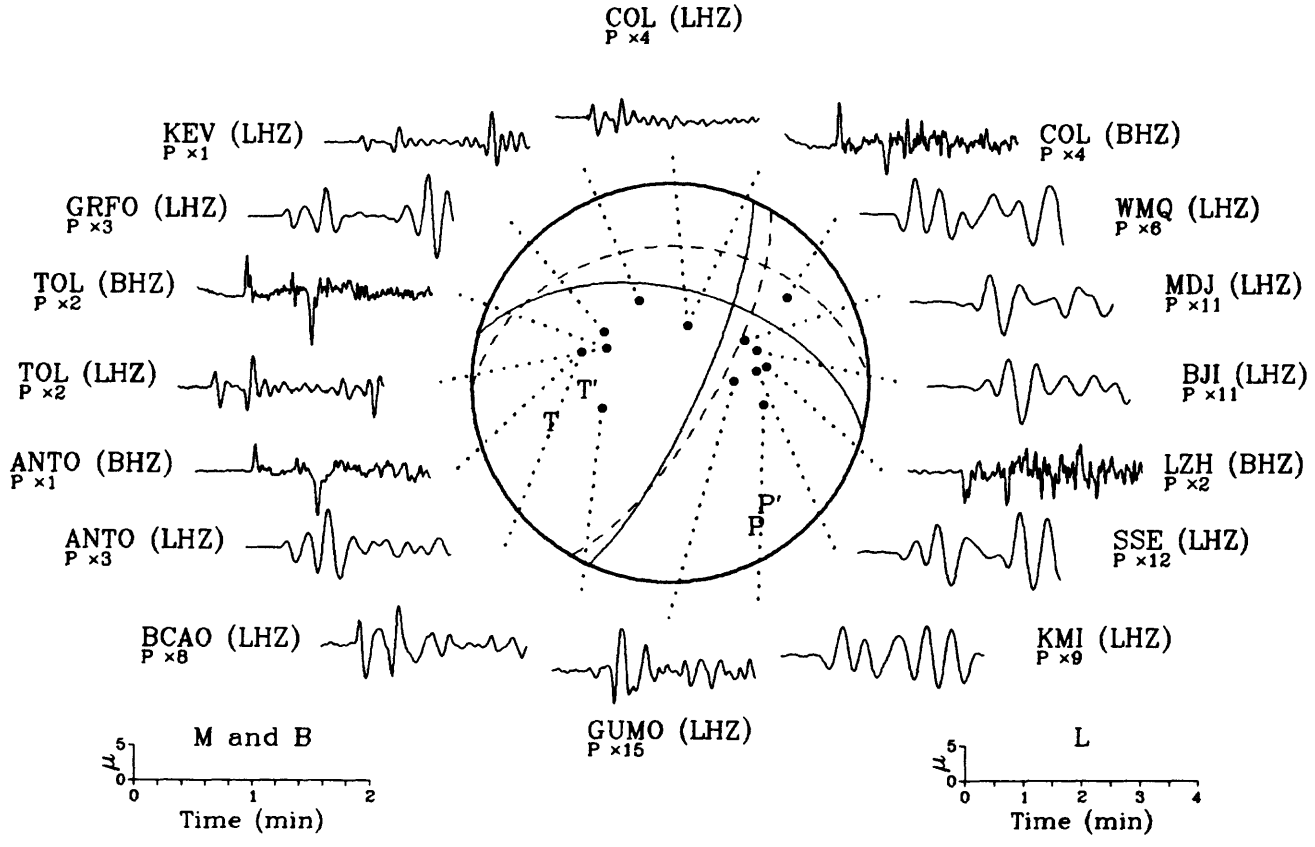
14 July 1989 20:42:40.06
Timor



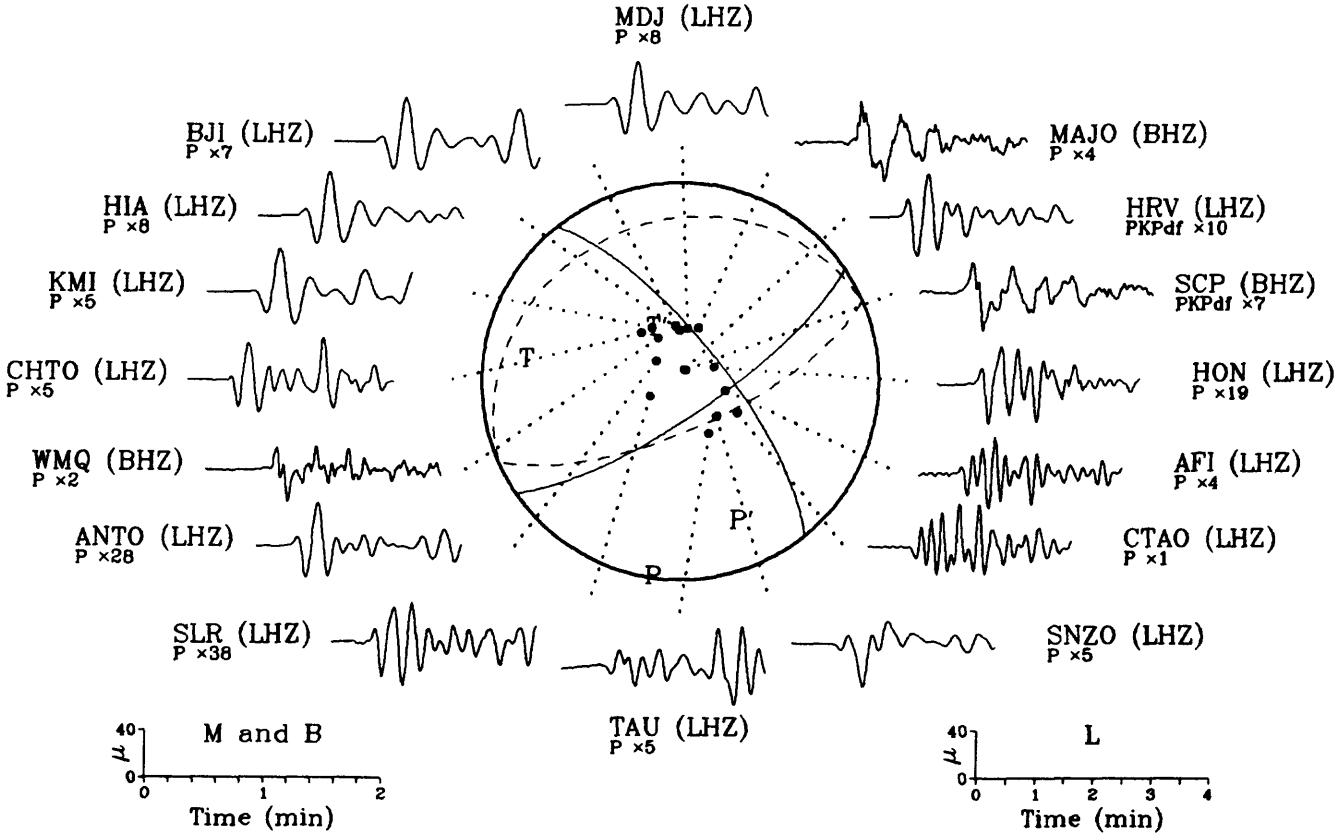
22 July 1989 05:02:11.51
Halmahera



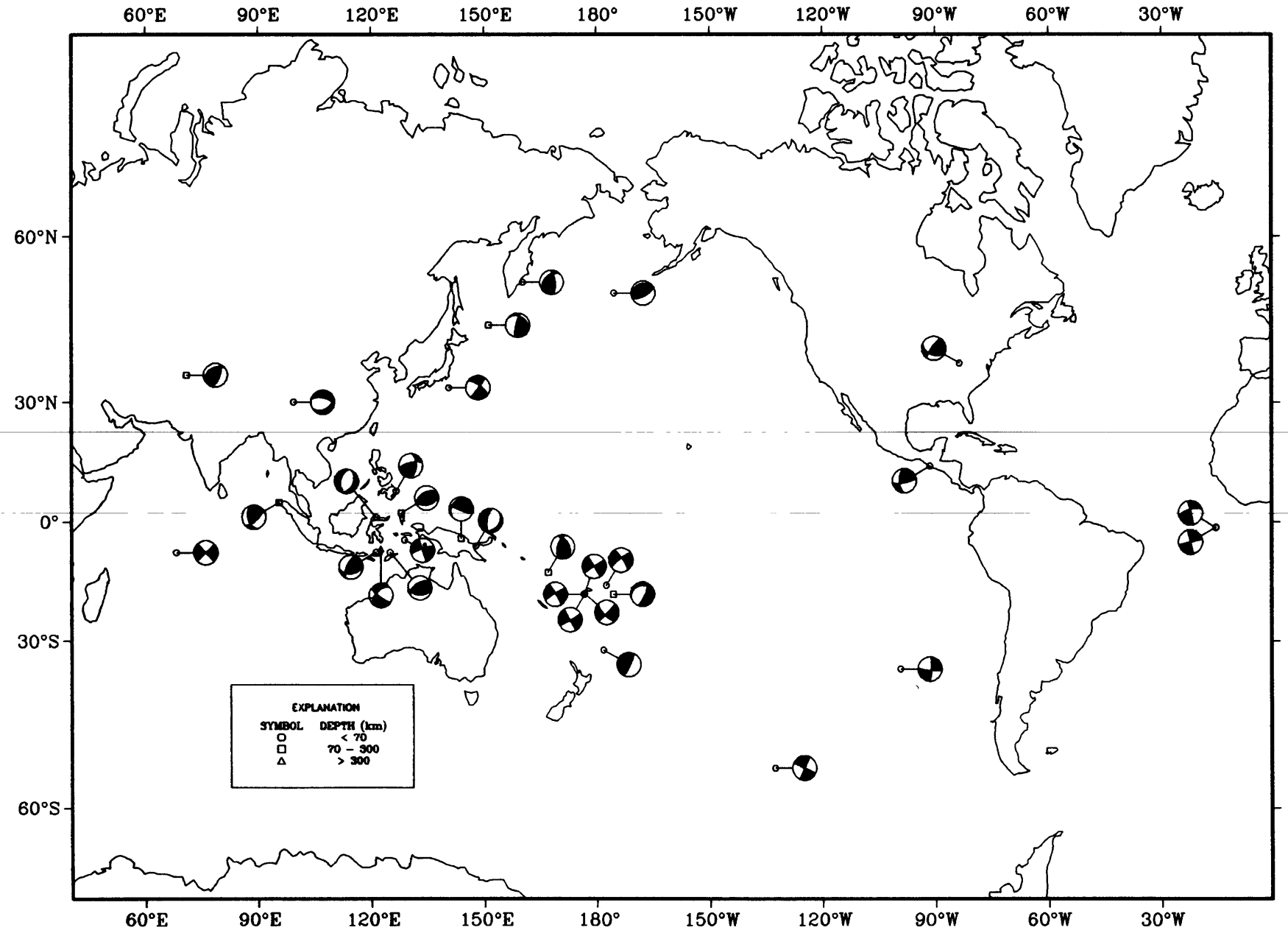
24 July 1989 03:27:48.77
Afghanistan–USSR Border Region

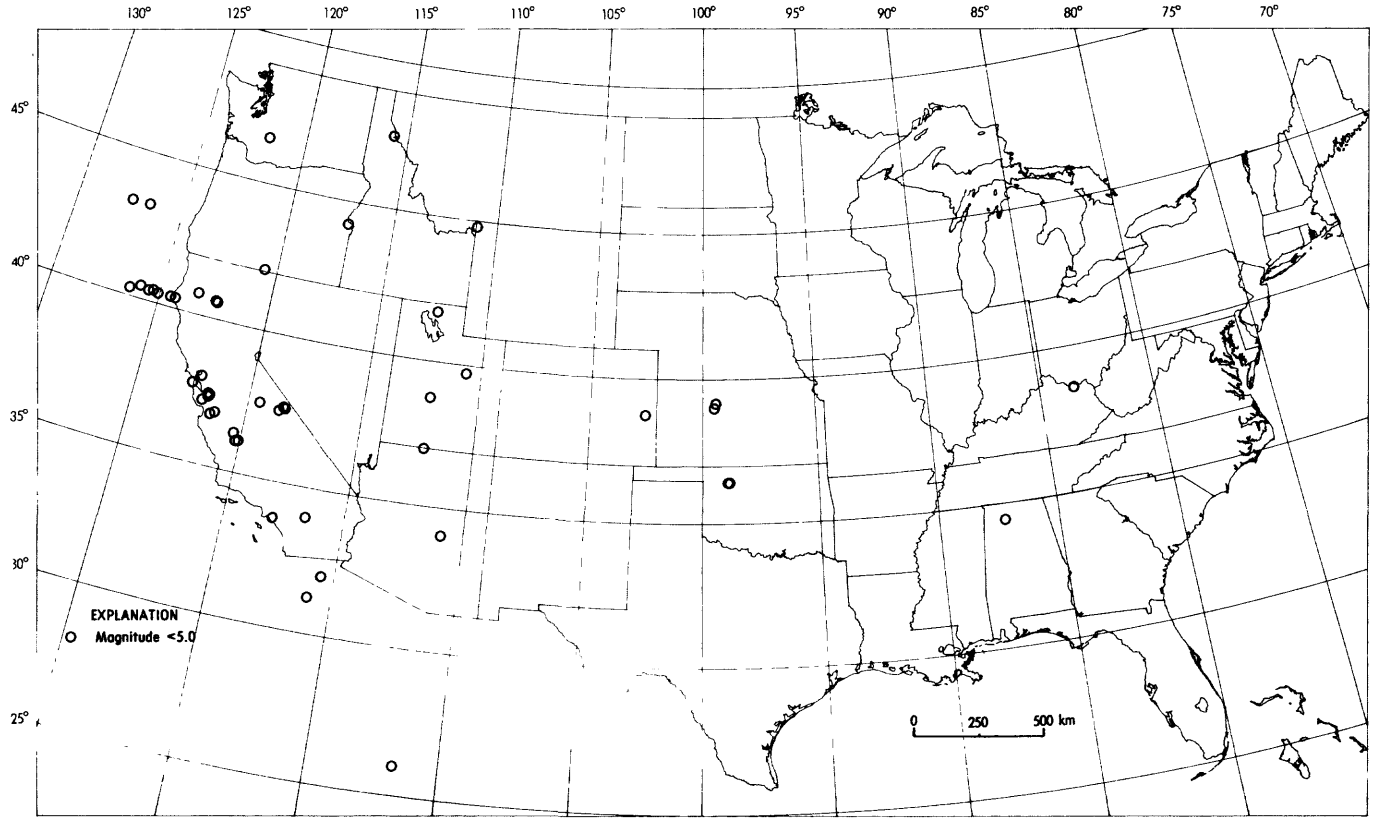


31 July 1989 17:07:27.87
Flores Island Region

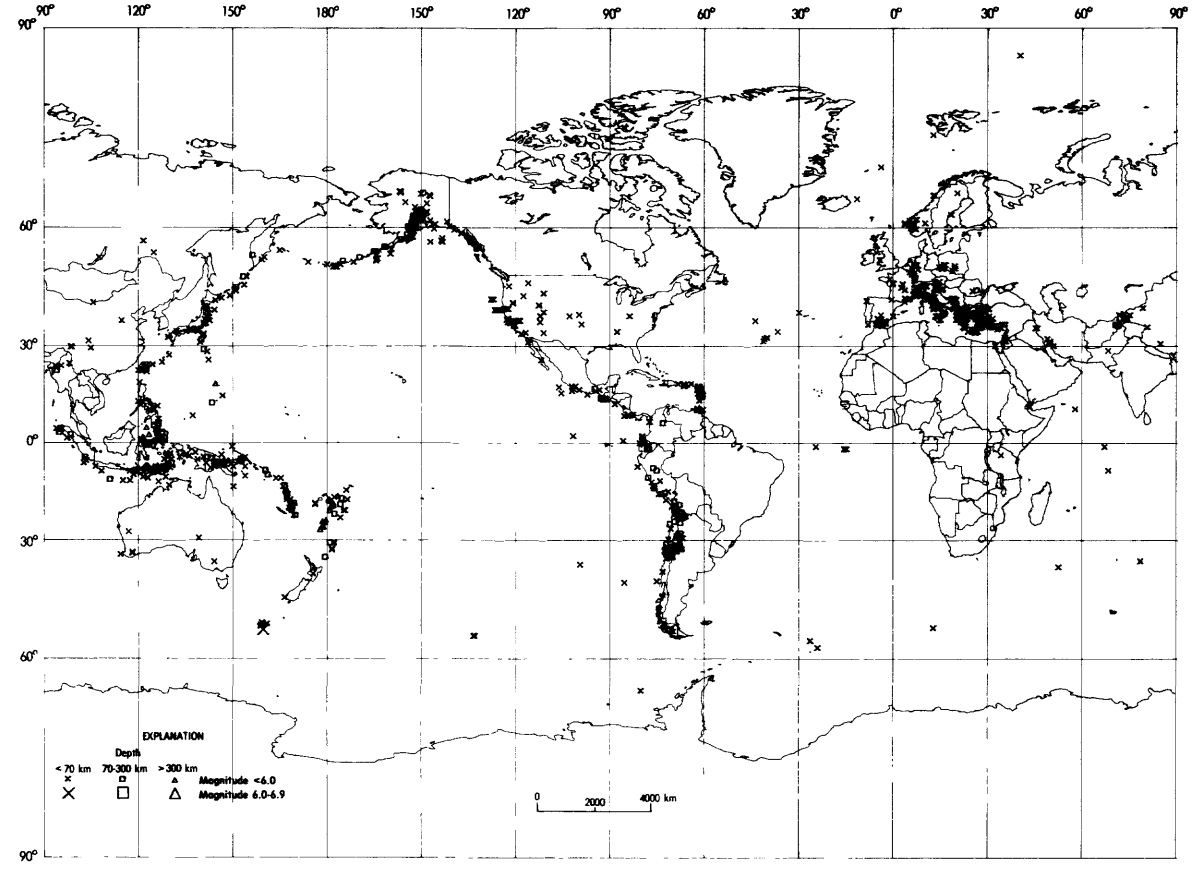


Earthquake Focal Mechanisms for July 1989





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



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

EXPLANATION OF ABBREVIATIONS AND SYMBOLS APPEARING IN THIS PUBLICATION

Abbreviations in Heading

MB - Body wave magnitudes.
Msz - Vertical surface wave magnitudes.
UTC - Coordinated Universal Time. HR MN SEC - Hour, minute, second.
SD - Standard Deviation from the orithmetic 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

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

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 Open File Report 85-714, Seismograph Station Codes and Coordinates (1985). Addendo to OF 85-714 are printed at the end of the Earthquake Data Report for this month.

Symbols Following Depth

N Indicates the depth was restrained at 33 km for earthquakes whose character on seismograms indicates a shallow focus but whose depth is not satisfactorily determined by the data.

D Indicates the depth was restrained by the computer program based on 2 or more compatible pP phases and/or unidentified secondary arrivals used as pP.

G Indicates the depth was restrained by a geophysicist.

* Indicates a less well-constrained free depth. The 90% marginal confidence interval on depth is greater than 8.5 km and less than or equal to 16.0 km.

? Indicates a poorly-constrained free depth. The 90% marginal confidence interval on depth is greater than 16.0 km.

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

Symbols Following Origin Time

& Indicates that parameters of the hypocenter were supplied or determined by a computational procedure not normally used by the National Earthquake Information Service (NEIS). The source or nature of the determination is indicated by a 2 to 5 letter code enclosed by angle brackets and appearing in the first line of comments. A "-P" appended to the code indicates that the computation is preliminary. These codes are included with the list of abbreviations above.

% Indicates a single network solution. A non-furnished hypocenter has been computed using data reported by a single network of stations for which the date and/or origin time cannot be confirmed from seismograms available to a NEIS analyst. The geometric mean of the semi-major and semi-minor axes of the horizontal 90% confidence ellipse is less than or equal to 16.0 km.

* Indicates a less reliable solution. In general, the geometric mean of the semi-major and semi-minor axes of the horizontal 90% confidence ellipse is greater than 8.5 km and less than or equal to 16.0 km.

? Indicates a poor solution, published for completeness of the catalog. In general, the geometric mean of the semi-major and semi-minor axes of the horizontal 90% confidence ellipse is greater than 16.0 km. This includes a poor solution computed using data reported by a single network.

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

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

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

TRAVEL-TIME TABLES

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

MACROSEISMIC INFORMATION

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

GEOGRAPHIC REGIONS

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

DEPTHS FROM BROADBAND DISPLACEMENT SEISMOGRAMS

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

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

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

FAULT PLANE SOLUTIONS

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

NEIS MAGNITUDES

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

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

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

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 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.

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

REFERENCES

Gutenberg, B., and Richter, C. F., 1956, Magnitude and energy of earthquakes: Annali di Geofisica, v. 9, no. 1, p. 1-15.

Nuttli, O. W., 1973, Seismic wave attenuation and magnitude relations for eastern North America: Journal of Geophysical Research, v. 78, no. 5, p. 876-885.

Richter, C. F., 1935, An instrumental earthquake scale: Bulletin of the Seismological Society of America, v. 25, p. 1-32.

FOCAL MECHANISM MAPS

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

WAVEFORM PLOTS

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

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

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

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

USGS RADIATED ENERGY

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

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

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

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

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

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

1. NUMBER OF STATIONS: Number of GDSN stations with distances between approximately 30 and 95 degrees found to have suitable P waveforms. Only unfiltered long-period vertical components are used.

2. DEPTH: The source depth which gives the smallest normalized mean-squared-error. This is the only hypocentral parameter determined since the inversion procedure is insensitive to small errors in both epicenter and origin time.

3. SCALE)
)
4. PRINCIPAL AXES) See "Centroid, Moment Tensor (MRV)"
)
5. BEST DOUBLE COUPLE)

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

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

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

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

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

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

Romanowicz, B. and Monfret, T., 1986, Source process times and depths of large earthquakes by moment tensor inversion of mantle wave data and the effect of lateral heterogeneity: Annales de Geophysique, v. 84, no. 3, p. 271-282.

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

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

1. DATA USED; currently both GDSN and IDA data are used. The numbers following the entries L. P. BODY WAVES and MANTLE WAVES indicate the number of stations (S), total number of records (C) and T is the cut-off period of the low pass filter for each of the subsets of data. Mantle waves are routinely used in inversion for sources with moments greater than 10**19 Newton-meters (Nm).

2. CENTROID LOCATION; hypocentral parameters obtained by adding perturbations resulting from inversion to the parameters reported in the PDE; standard errors follow the individual entries. If a given parameter is not perturbed in inversion, this is indicated by the letters FIX. If the depth is fixed to be consistent with waveform matching of reconstructed broad-band body waves, this is indicated by the letters BDY. The default depth for shallow earthquakes is increased to 15 km. in order to improve the stability of solutions; it was 10 km. in 1981-1985.

3. MOMENT TENSOR. The scale factor (e.g., 10**20 Nm) is the number by which all subsequent entries related to values of the moment should be multiplied. For the moment tensor the components are given in a spherical coordinate system: MRR = Mrr; MTT = $M_{\theta\theta}$; MFF = $M_{\phi\phi}$; MRT = $Mr\theta$; MRF = $Mr\phi$; 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, J. Durek, G. Ekstrom, J. H. Woodhouse and G. Zwart, Department of Geological Sciences, Harvard University, Cambridge, MA 02138

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

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

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

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

OTHER SEISMIC MOMENTS

1. 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. Seismic moments quoted in "Preliminary Determination of Epicenters" are converted to Newton-meters (1 Newton-meter = 10**-7 dyne-cm).

   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.

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

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

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PRELIMINARY DETERMINATION OF EPICENTERS

MONTHLY LISTING

U.S. DEPARTMENT OF THE INTERIOR / GEOLOGICAL SURVEY

National Earthquake Information Center

AUGUST 1989

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	18	04.8	4.511	S	139.022	E	14	G	6.0	5.8	1.3	235	WEST IRIAN. Ms 5.7 (BRK). About 120 people killed and 125 injured by landslides which buried two villages in the Kurima district. Landslides also blocked the Boliem River. Felt at Wamena. Depth from broadband displacement seismograms.
	01	00	23	35.0*	35.922	N	31.706	E	139	?			0.9	8	CYPRUS. MD 4.0 (HLW).
	01	00	43	35.7	37.818	N	26.410	E	10	G			1.2	7	DODECANESE ISLANDS. MD 3.2 (ATH).
	01	01	09	55.2	4.556	S	138.746	E	33	N	4.6		1.2	18	WEST IRIAN
	01	01	24	06.7?	31.40	S	68.55	W	89	?			0.1	6	SAN JUAN PROVINCE, ARGENTINA
	01	01	42	04.6?	5.73	S	138.48	E	33	N	4.4		0.5	6	NEAR S. COAST OF WEST IRIAN
	01	01	54	50.0?	5.36	S	138.72	E	33	N	4.1		1.2	6	NEAR S. COAST OF WEST IRIAN
	01	02	23	30.8	39.221	N	23.663	E	21		4.4		1.3	121	AEGEAN SEA. ML 4.5 (ATH), 4.4 (TTG). Felt on Skopelos and at Volos, Greece.
	01	02	38	07.6	39.212	N	23.433	E	10	G			1.2	12	AEGEAN SEA. ML 3.2 (ATH).
	01	02	42	06.4?	27.79	N	139.75	E	504	?	4.2		0.1	8	BONIN ISLANDS REGION
	01	03	06	23.6	38.364	N	26.428	E	10	G			0.5	9	AEGEAN SEA. MD 3.4 (ATH).
	01	03	07	01.1?	5.58	S	138.42	E	33	N	4.4		1.1	6	NEAR S. COAST OF WEST IRIAN
	01	03	21	37.3	38.290	N	22.249	E	10	G	3.7		1.2	45	GREECE. ML 3.5 (ATH).
	01	04	11	31.8?	37.35	N	30.76	E	10	G			1.4	5	TURKEY
	01	04	19	04.1&	60.835	N	151.175	W	54					28	KENAI PENINSULA, ALASKA. <AGS-P>.
a	01	05	24	51.7	11.618	S	164.686	E	33	N	5.6	5.3	1.0	194	SANTA CRUZ ISLANDS REGION. Ms 5.5 (BRK). Mo=1.3*10**18 Nm (PPT).
	01	05	44	06.8?	39.64	N	21.05	E	10	G			1.0	5	GREECE
	01	07	57	14.7	39.243	N	23.557	E	10	G			1.0	16	AEGEAN SEA. ML 3.0 (ATH).
	01	07	57	51.3?	39.19	N	22.25	E	10	G			0.9	4	GREECE. ML 3.2 (ATH).
	01	08	31	03.6	44.137	N	10.831	E	10	G			1.2	7	NORTHERN ITALY
	01	08	43	29.7*	36.783	N	69.610	E	33	N	4.4		0.3	7	HINDU KUSH REGION
	01	09	16	26.4	39.269	N	23.514	E	10	G			1.1	17	AEGEAN SEA. ML 3.0 (ATH).
	01	09	20	45.2*	14.249	S	72.862	W	97	?			1.2	10	PERU
	01	09	38	06.2*	36.505	N	70.747	E	190	?	4.2		0.6	9	HINDU KUSH REGION
	01	09	51	50.9?	38.78	N	23.81	E	10	G			0.4	5	GREECE
	01	11	25	39.7	31.304	N	138.206	E	391		4.9		0.8	82	SOUTH OF HONSHU, JAPAN
	01	11	59	17.9?	31.27	S	68.49	W	100	?			0.6	6	SAN JUAN PROVINCE, ARGENTINA
	01	12	44	02.8?	31.46	S	177.52	W	104	?	5.4		1.1	18	KERMADEC ISLANDS REGION
	01	12	56	08.9%	16.489	N	61.187	W	10	G			0.7	5	LEEWARD ISLANDS. ML 2.6 (FDF).
	01	14	22	47.9?	37.19	S	177.55	E	33	N			0.7	10	OFF E. COAST OF N. ISLAND, N.Z.
	01	14	33	48.8?	44.14	N	12.08	E	10	G			0.6	5	NORTHERN ITALY
a	01	15	03	53.4	21.952	S	170.568	E	61	D	5.3		1.1	89	LOYALTY ISLANDS REGION
	01	15	23	32.2	66.883	N	156.103	W	5	G			0.5	13	ALASKA. ML 3.3 (PMR).
	01	16	49	38.1*	39.795	N	22.101	E	10	G			1.2	5	GREECE
	01	17	20	30.1%	60.636	N	6.253	E	10	G			0.6	7	SOUTHERN NORWAY. MD 2.2 (BER).
	01	17	34	49.9?	45.58	N	2.41	E	10	G			0.7	4	FRANCE. MD 2.1 (STR).
	01	18	07	01.0	12.120	N	140.588	E	33	N	4.7	4.5	1.1	16	WEST CAROLINE ISLANDS
	01	18	20	32.5*	39.760	N	22.145	E	10	G			1.3	6	GREECE. MD 3.2 (ATH).
	01	18	34	28.4*	12.447	N	47.464	E	10	G	4.2		1.3	17	EASTERN GULF OF ADEN
	01	20	10	07.9*	39.753	N	22.067	E	10	G			1.3	5	GREECE. MD 3.0 (ATH).
	01	21	00	29.9*	19.007	S	69.446	W	33	N			0.7	5	NORTHERN CHILE
	01	21	39	29.4*	39.740	N	22.100	E	10	G			0.9	12	GREECE. MD 3.2 (ATH).
	01	21	45	38.1%	35.383	N	24.466	E	10	G			1.3	5	CRETE. MD 3.6 (ATH).
	01	22	24	08.3?	33.49	S	179.54	W	66	?	4.8		1.7	12	SOUTH OF KERMADEC ISLANDS
	01	22	32	45.1%	13.659	S	75.777	W	10	G			0.5	5	PERU
	01	23	10	07.8?	16.27	S	75.78	W	33	N			1.4	12	OFF COAST OF PERU
	01	23	25	17.5&	45.609	N	122.457	W	14					47	WASHINGTON-OREGON BORDER REGION. <SEA-P>. ML 3.9 (SEA). Felt (V) at Corbett, Gresham, Milwaukie and Portland, Oregon. Also felt (V) at Brush Prairie and Camas, Washington. Felt in Clackamas, Marion, Multnomah and Washington Counties, Oregon and in Clark, Cowlitz and Skamania Counties, Washington.

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a	01	23	27	52.3	3.660	S	150.695	E	10	G	5.2 5.5	1.4	85	NEW IRELAND REGION
	02	00	14	03.6	42.247	N	13.525	E	10	G		1.0	9	CENTRAL ITALY. MD 2.6 (SSO).
	02	01	13	26.6	37.065	N	27.765	E	10	G		1.1	10	TURKEY. MD 3.5 (ATH).
	02	02	27	41.3*	13.639	S	76.638	W	56	?		1.2	10	NEAR COAST OF PERU
	02	03	17	07.4	13.831	N	90.556	W	90		4.5	1.1	36	NEAR COAST OF GUATEMALA. Felt (III) at San Salvador, El Salvador.
a	02	03	37	28.0	2.686	S	127.312	E	29	D	5.6 5.0	1.1	111	CERAM SEA
	02	03	52	03.2?	32.08	S	71.27	W	117	?		1.6	6	NEAR COAST OF CENTRAL CHILE
	02	05	01	56.4	44.025	N	7.206	E	10	G		0.4	13	NORTHERN ITALY. ML 2.4 (GEN). MD 1.3 (STR).
	02	07	41	10.8	36.056	N	27.521	E	10	G		1.0	6	DODECANESE ISLANDS. MD 3.6 (ATH).
	02	08	29	10.7*	40.873	N	23.033	E	10	G		0.1	5	GREECE. ML 1.4 (SKO).
	02	09	38	47.5%	38.093	N	23.213	E	10	G		1.2	7	GREECE. ML 2.8 (ATH).
	02	09	47	43.1*	40.332	N	21.780	E	10	G		1.5	5	GREECE. MD 3.8 (ATH).
a	02	10	24	21.2	2.774	N	96.143	E	29	D	5.1 4.9	1.0	124	NORTHERN SUMATERA
	02	10	48	06.6	2.706	N	96.101	E	22	D	5.1 5.4	0.9	98	NORTHERN SUMATERA
	02	11	11	47.7?	33.63	S	179.44	W	79	?	4.8	1.2	15	SOUTH OF KERMADEC ISLANDS
	02	11	48	27.8?	38.10	N	6.44	W	10	G		1.3	4	SPAIN. mbLg 2.7 (MDD).
	02	12	21	11.0&	64.209	N	139.039	W	18	G	4.0		20	SOUTHERN YUKON TERRITORY, CANADA. <PGC-P>. ML 4.2 (PGC).
	02	12	24	42.9?	33.55	S	179.12	W	62	?	4.8	1.2	13	SOUTH OF KERMADEC ISLANDS
	02	12	27	18.0%	37.735	N	14.980	E	10	G		0.4	5	SICILY
	02	13	25	36.0&	37.163	N	121.555	W	0				11	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).
	02	14	21	54.0%	60.649	N	6.277	E	10	G		0.7	7	SOUTHERN NORWAY. MD 2.1 (BER).
	02	15	06	32.6?	44.41	N	7.29	E	10	G		0.0	4	NORTHERN ITALY. ML 1.7 (GEN).
	02	15	11	05.6?	32.00	S	179.47	E	360	?	3.9	1.2	21	SOUTH OF KERMADEC ISLANDS
	02	15	49	59.8?	66.52	N	6.89	E	10	G		0.9	11	NORWEGIAN SEA. MD 3.4 (BER).
	02	16	17	45.2%	46.952	N	1.487	E	10	G		0.4	8	FRANCE. ML 2.3 (LDG).
	02	16	29	05.7	39.151	N	23.516	E	10	G		1.0	11	AEGEAN SEA. ML 3.0 (ATH).
	02	16	42	23.0*	36.082	N	27.665	E	10	G		1.2	6	DODECANESE ISLANDS. MD 3.6 (ATH).
	02	16	58	38.7&	51.075	N	166.543	W	18				25	ALEUTIAN ISLANDS REGION. <PAL>.
	02	18	45	35.6%	59.945	N	6.400	E	10	G		0.8	6	SOUTHERN NORWAY. MD 1.7 (BER).
	02	18	48	43.4?	40.75	N	122.29	W	5	G		0.8	4	NORTHERN CALIFORNIA. ML 2.5 (BRK).
	02	19	20	10.1*	38.026	N	118.538	W	5	G		1.4	7	CALIFORNIA-NEVADA BORDER REGION. ML 2.7 (BRK).
	02	19	33	42.5?	4.49	S	154.41	E	290	?		1.0	6	SOLOMON ISLANDS
	02	20	14	07.7%	31.365	S	67.914	W	10	G		0.4	6	SAN JUAN PROVINCE, ARGENTINA
	02	20	50	41.4*	66.307	N	150.066	W	33	N		1.7	7	ALASKA. ML 4.0 (PMR).
	02	21	20	11.5?	34.28	S	178.23	E	279	?	4.1	1.0	14	SOUTH OF KERMADEC ISLANDS
	02	21	26	17.7*	23.302	N	123.463	E	31	D	4.4 4.9	1.5	19	SOUTHWESTERN RYUKYU ISLANDS
	02	21	35	53.4&	32.470	N	115.240	W	6	G			5	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.3 (PAS).
	02	22	58	24.4%	31.999	N	35.759	E	10	G		0.3	6	DEAD SEA REGION
	02	23	19	27.4	40.809	N	20.106	E	27		3.9	1.2	121	GREECE-ALBANIA BORDER REGION. ML 4.3 (ATH), 4.1 (ROM). MD 3.8 (TTG). Felt (V) at Dobranj, Gjerbes, Zaloshnje and Greve; (IV) in the Gramsh and Korce areas, Albania.
	02	23	44	25.9	34.639	N	24.099	E	38	*	4.1	1.4	51	CRETE. ML 3.9 (ATH).
	03	00	05	07.7?	7.57	S	128.81	E	33	N	4.1	1.0	5	BANDA SEA
	03	00	11	18.7%	14.156	N	61.132	W	33	N		0.1	5	WINDWARD ISLANDS. ML 2.2 (FDF).
a	03	02	24	20.4	1.009	N	126.100	E	66		5.3	1.2	108	MOLUCCA PASSAGE
	03	03	32	42.0%	31.653	S	67.926	W	10	G		0.7	7	SAN JUAN PROVINCE, ARGENTINA
a	03	04	09	48.0	32.456	N	137.346	E	418	D	5.2	1.0	224	SOUTH OF HONSHU, JAPAN. Felt (II JMA) at Utsunomiyo; (I JMA) at Toteyama and Tokyo.
	03	05	04	55.3*	18.899	S	168.590	E	51	*	4.9	1.3	20	VANUATU ISLANDS
	03	05	48	47.1?	41.29	N	20.03	E	10	G		1.2	4	ALBANIA
	03	07	06	45.6	44.331	N	7.312	E	10	G		0.4	11	NORTHERN ITALY. ML 2.2 (GEN).
	03	07	40	30.5	13.428	N	120.864	E	22		5 0 4 5	0 9	32	MINDORO, PHILIPPINE ISLANDS
a	03	07	42	40.8	43.522	N	45.362	E	18	D	5 0 5 0	1 2	190	EASTERN CAUCASUS. One person killed and damage (VI) in the Groznyy area. Felt (IV) at Buynaksk and (III) at Makhachkala.
	03	07	43	25.4&	11.517	N	86.078	W	169				5	NEAR COAST OF NICARAGUA. <HDC>.
	03	08	29	56.9%	37.776	N	14.987	E	10	G		1.1	11	SICILY
	03	08	34	07.3	33.814	N	134.921	E	33	N		0.8	11	SHIKOKU, JAPAN. MG 3.8 (JMA). Felt (I JMA) at Sumoto, Awaji-shima.
	03	08	35	00.9%	37.735	N	14.981	E	10	G		0.6	5	SICILY
	03	08	35	44.3%	37.733	N	14.953	E	10	G		0.9	5	SICILY
	03	08	45	37.8?	38.35	N	26.63	E	10	G		0.9	4	AEGEAN SEA. MD 3.2 (ATH).
	03	08	54	16.7%	37.691	N	14.980	E	10	G		0.7	5	SICILY
	03	08	58	00.1%	37.743	N	14.990	E	10	G		0.4	6	SICILY
	03	09	40	38.8?	66.92	N	156.46	W	5	G		0.6	7	ALASKA
	03	09	49	31.9%	37.788	N	14.978	E	10	G		0.3	5	SICILY
	03	09	50	17.8?	37.77	N	14.98	E	10	G		0.3	4	SICILY
	03	09	53	00.4	15.032	N	60.127	W	29			1.0	22	LEEWARD ISLANDS. ML 3.6 (FDF). Felt (II) on Martinique.
	03	10	05	55.9%	37.751	N	14.997	E	10	G		1.0	9	SICILY
	03	10	11	22.1?	9.34	S	161.11	E	70	?	4.3	0.9	6	SOLOMON ISLANDS
	03	10	18	31.9%	37.777	N	14.914	E	10	G		1.4	5	SICILY
	03	10	21	08.3?	30.49	S	69.22	W	33	N		0.3	6	CHILE-ARGENTINA BORDER REGION
a	03	11	07	17.9	59.994	S	26.680	W	33	D	5.7 5.7	1.0	70	SOUTH SANDWICH ISLANDS REGION
	03	11	12	52.1	45.087	N	7.383	E	10	G		0.5	9	NORTHERN ITALY. ML 2.4 (GEN).
f	03	11	31	20.4	23.043	N	121.965	E	11	G	5.9 6.4	1.3	352	TAIWAN. Ms 6.1 (BRK). Felt strongly on Taiwan. Also felt at Fuzhou, China and (I JMA) on Ishigaki-shima, Ryukyu Islands. Depth from broadband displacement seismograms.
	03	11	36	48.4	22.979	N	122.004	E	10	G	4.8	0.8	9	TAIWAN REGION
	03	11	40	18.2*	23.083	N	121.957	E	10	G	4.6	0.8	5	TAIWAN
	03	11	45	07.5*	23.099	N	121.998	E	10	G	4.5	0.5	6	TAIWAN
	03	11	45	20.2%	37.743	N	14.975	E	10	G		0.4	5	SICILY
	03	11	55	09.4?	23.09	N	121.88	E	10	G	4.2	0.4	4	TAIWAN
	03	13	07	42.4%	37.769	N	14.992	E	12			1.1	11	SICILY
	03	13	22	41.6?	44.09	N	7.51	E	10	G		0.2	4	NORTHERN ITALY. ML 1.6 (GEN).
	03	14	19	53.2	43.638	N	4.809	E	10	G		0.4	14	NEAR SOUTH COAST OF FRANCE. ML 2.9 (LDG). MD 2.4 (STR).
	03	14	35	29.6%	60.653	N	6.287	E	10	G		0.7	7	SOUTHERN NORWAY. MD 2.0 (BER).
	03	14	38	05.4*	28.366	S	178.334	W	33	N	4.8	1.3	21	KERMADEC ISLANDS REGION
	03	14	49	31.7*	23.063	N	121.918	E	10	G	4.2	0.4	6	TAIWAN
	03	14	56	27.2	25.087	S	87.755	E	10	G	5.1	0.9	39	SOUTH INDIAN OCEAN
	03	15	08	34.6%	38.562	N	21.851	E	10	G		0.4	5	GREECE. MD 3.0 (ATH).

	03	16	35	16.4&	61.823	N	150.551	W	45			29	SOUTHERN ALASKA. <AGS-P>.
	03	16	38	28.0	2.225	N	126.779	E	88 *	5.0	1.1	57	MOLUCCA PASSAGE
	03	16	43	15.4*	44.999	N	6.740	E	10 G		0.6	5	FRANCE. ML 2.2 (GEN).
	03	16	57	08.7	44.999	N	6.766	E	10 G		0.3	6	FRANCE. ML 2.3 (GEN).
	03	17	05	45.4*	35.192	N	27.088	E	10 G		1.2	6	DODECANESE ISLANDS. MD 3.7 (ATH).
	03	17	53	16.5	16.994	N	62.271	W	10 G		0.7	10	LEEWARD ISLANDS. ML 2.9 (FDF).
	03	17	57	24.2%	37.762	N	14.983	E	10 G		1.0	8	SICILY
	03	19	21	41.5	33.578	N	141.213	E	49 *	5.0	0.8	35	OFF EAST COAST OF HONSHU, JAPAN
	03	19	29	05.6*	36.367	N	141.014	E	33 N		1.1	11	NEAR EAST COAST OF HONSHU, JAPAN. MG 3.6 (JMA). Felt (I JMA) at Mito.
	03	20	10	26.8?	16.28	N	60.59	W	33 N		0.5	5	LEEWARD ISLANDS. ML 2.7 (FDF).
	03	20	49	23.9?	34.90	N	139.18	E	5 G		0.9	6	NEAR S. COAST OF HONSHU, JAPAN. MG 2.9 (JMA). Felt (I JMA) at Ajiro.
	03	21	06	52.9?	35.01	N	139.10	E	5 G		0.6	5	NEAR S. COAST OF HONSHU, JAPAN. MG 3.0 (JMA). Felt (II JMA) at Ajiro.
	03	21	28	25.4?	20.18	S	176.75	W	381 ?	4.4	0.7	17	FIJI ISLANDS REGION
	03	22	05	50.4&	41.711	N	112.379	W	9			5	UTAH. <SLC-P>. ML 2.3 (SLC).
	03	22	21	42.9?	34.18	N	135.15	E	10 G		0.4	4	NEAR S. COAST OF SOUTHERN HONSHU. MG 2.9 (JMA). Felt (I JMA) at Wakayama.
a	03	22	25	55.4	22.531	S	179.129	E	592 D	5.5	1.0	266	SOUTH OF FIJI ISLANDS
	03	22	42	24.3&	65.341	N	148.215	W	18			13	ALASKA. <AGS-P>.
	04	00	47	43.8	51.425	N	7.586	E	10 G		1.4	28	GERMANY. ML 3.4 (LDG), 3.2 (GSH).
	04	01	05	34.0&	41.847	N	112.328	W	9			5	UTAH. <SLC-P>. ML 2.3 (SLC).
	04	01	54	49.2	38.288	N	26.608	E	10 G		0.5	7	AEGEAN SEA
	04	02	42	22.2?	17.19	S	179.10	W	578 ?	4.9	0.7	12	FIJI ISLANDS REGION
	04	03	07	56.2?	21.59	S	67.73	W	33 N		1.0	5	CHILE-BOLIVIA BORDER REGION
a	04	04	28	43.7	12.103	N	120.847	E	33 N	5.0 4.9	1.3	78	MINDORO, PHILIPPINE ISLANDS
	04	04	44	35.7%	31.679	S	67.952	W	10 G		1.1	7	SAN JUAN PROVINCE, ARGENTINA
	04	05	10	12.0	31.106	N	131.478	E	48 *	4.7 4.3	1.4	38	KYUSHU, JAPAN. Felt (II JMA) at Kagoshima.
	04	05	38	06.8	6.839	S	106.128	E	33 N	5.0 5.2	1.2	66	JAVA
	04	05	42	52.4	42.919	N	17.845	E	10 G		1.2	14	ADRIATIC SEA. ML 3.0 (TTG).
	04	06	22	10.6?	14.71	S	171.36	E	642 ?	4.5	0.8	18	VANUATU ISLANDS REGION
	04	06	46	56.9%	23.096	N	121.916	E	10 G		0.4	5	TAIWAN
	04	06	55	07.5%	31.610	S	67.754	W	10 G		0.9	7	SAN JUAN PROVINCE, ARGENTINA
	04	08	19	23.6	27.050	N	140.063	E	475 D	5.0	0.9	174	BONIN ISLANDS REGION
	04	09	14	34.7%	41.966	N	19.894	E	5 G		1.6	5	ALBANIA
	04	09	22	57.7*	43.574	N	45.413	E	33 N	4.2	1.4	16	EASTERN CAUCASUS. Felt (IV) at Groznyy.
	04	09	45	18.8	45.722	N	15.847	E	10 G		1.2	9	YUGOSLAVIA. MD 3.4 (LJU), 2.5 (TRI). ML 2.1 (ZAG). Felt (IV) at Samobar and (III) at Zagreb.
	04	09	52	58.4?	31.40	S	69.33	W	33 N		1.4	6	SAN JUAN PROVINCE, ARGENTINA
	04	10	23	14 5?	22.60	S	179.55	W	600 G	4.9	1 2	14	SOUTH OF FIJI ISLANDS
	04	11	39	10.8	42.125	N	26.431	E	10 G		1.2	12	BULGARIA
	04	12	04	28.6	30.028	N	36.079	E	10 G		0.5	9	DEAD SEA REGION
	04	12	14	24.3	29.576	S	68.741	W	60 ?	4.7	1.3	16	SAN JUAN PROVINCE, ARGENTINA
	04	12	20	55.1&	39.698	N	110.753	W	3			3	UTAH. <SLC-P>. CL 3.0 (SLC).
	04	13	21	54.9	39.442	N	23.536	E	5 G		1.1	19	AEGEAN SEA. ML 3.2 (ATH).
	04	14	19	54.6%	60.659	N	6.330	E	10 G		0.7	7	SOUTHERN NORWAY. MD 2.0 (BER).
	04	14	34	48.8?	39.35	N	142.81	E	33 N		0.7	8	NEAR EAST COAST OF HONSHU, JAPAN. MG 3.4 (JMA). Felt (I JMA) at Miyako and Ofunato.
	04	15	32	34.9*	23.053	N	121.901	E	10 G	4.4	1.4	18	TAIWAN
	04	16	11	54.1	35.591	N	22.674	E	44 *	4.3 4.3	1.1	57	MEDITERRANEAN SEA MD 4.3 (ATH).
	04	17	59	56.8	4.594	S	139.187	E	33 N	4.8	1.2	24	WEST IRIAN
	04	18	15	25.3	7.493	S	127.878	E	145 *	4.8	1.0	35	BANDA SEA
	04	20	01	50.9	39.237	N	23.501	E	10 G		0.9	12	AEGEAN SEA. ML 3 0 (ATH).
	04	20	06	43.2?	35.76	N	24.20	E	10 G		0.5	4	CRETE
	04	20	35	27.2*	23.825	S	69.003	W	157 ?		1.1	7	NORTHERN CHILE
	04	20	37	47.5	35.300	N	3.794	W	10 G		1.0	6	STRAIT OF GIBRALTAR
	04	20	39	30.5	41.794	N	22.588	E	10 G		0.8	11	YUGOSLAVIA. ML 1.8 (SKO).
	04	20	47	50.3%	39.328	N	28.986	E	10 G		1 1	5	TURKEY
	04	21	03	21.0	27.838	S	66.793	W	180 *	4.3	0.8	16	CATAMARCA PROVINCE, ARGENTINA
	04	22	45	06.9&	12.445	N	87.172	W	51			5	NEAR COAST OF NICARAGUA. <HDC>. MD 4.4 (HDC).
	04	23	05	45.3	28.788	S	67.153	W	154 ?		0.5	11	LA RIOJA PROVINCE, ARGENTINA
	05	00	32	57.8&	37.965	N	122.357	W	3			11	CENTRAL CALIFORNIA. <BRK>. ML 2.2 (BRK). Ma=1.2*10**13 Nm (BRK).
	05	00	36	47.0&	59.144	N	153.552	W	120	4.3		72	SOUTHERN ALASKA. <AGS-P>. Felt (II) at Homer.
	05	01	14	59.9	44.450	N	7.256	E	10 G		0.6	9	NORTHERN ITALY. ML 2.3 (GEN).
	05	02	09	13.2*	37.807	N	26.389	E	10 G		1.5	5	DODECANESE ISLANDS. MD 3.1 (ATH).
	05	02	24	11.0?	46.11	N	2.22	E	10 G		0.5	4	FRANCE. ML 1.8 (LDG).
	05	02	47	02.3%	31.510	S	69.256	W	100 G		0.2	6	SAN JUAN PROVINCE, ARGENTINA
	05	03	50	55.9%	38.802	N	14.183	E	10 G		1.1	6	SICILY
	05	04	48	52.7?	35.04	S	16.15	W	10 G	4.6 4.7	1.6	10	SOUTH ATLANTIC RIDGE
	05	05	22	26.5*	32.045	S	64.824	W	33 N		1.3	17	CORDOBA PROVINCE, ARGENTINA
	05	05	32	49.5*	23.114	N	121.904	E	10 G		0.3	5	TAIWAN
	05	05	41	52.6	30.269	N	138.457	E	436	4.7	0.7	85	SOUTH OF HONSHU, JAPAN
	05	06	08	30.2?	17.02	N	66.62	W	10 G		0.3	5	PUERTO RICO REGION
	05	06	19	34.1&	62.595	N	151.443	W	99			41	CENTRAL ALASKA. <AGS-P>. Felt (II) at Trapper Creek.
a	05	06	55	50.9	76.118	N	134.578	E	10 G	5.3 5.0	0.9	237	LAPTEV SEA
	05	07	41	10.3	34.034	N	37.463	W	10 G	4.7	0.6	42	NORTH ATLANTIC RIDGE
	05	08	33	23.2	42.955	N	0.647	W	5 G		1.2	17	PYRENEES. MD 1.7 (STR).
	05	08	43	22.1*	18.239	S	178.186	W	600 G	4.8	0.8	11	FIJI ISLANDS REGION
	05	08	47	27.7	40.906	N	22.840	E	10 G		1.3	12	GREECE. ML 2.1 (SKO).
	05	08	50	58.9?	15.75	N	60.07	W	33 N		1.1	7	LEEWARD ISLANDS. ML 2.7 (FDF).
	05	09	11	48.0*	39.301	N	28.964	E	10 G		0.6	5	TURKEY
	05	09	14	38.0?	39.05	N	26.30	E	33 N		2.0	6	TURKEY. MD 3.2 (ATH).
	05	09	15	58.9	38.567	N	73.877	E	33 N	4.6	1.3	22	TAJIK-XINJIANG BORDER REGION
	05	09	26	34.0	44.516	N	7.346	E	10 G		0.7	7	NORTHERN ITALY. ML 2.3 (GEN).
	05	09	45	09.5%	31.254	S	68.825	W	89 ?		0.3	6	SAN JUAN PROVINCE, ARGENTINA
	05	09	48	00.0?	51.70	N	16.51	E	10 G		0.4	7	POLAND ML 3.3 (VKA).
	05	09	54	13.1*	29.949	S	177.680	W	49 *	5.1	1.2	36	KERMADEC ISLANDS. Felt (IV) on Raoul Island.
	05	10	02	41.0&	62.081	N	149.547	W	45			31	CENTRAL ALASKA. <AGS-P>.
	05	10	19	18.4*	31.295	S	68.852	W	111 *		0.5	9	SAN JUAN PROVINCE, ARGENTINA
	05	10	26	03.1	34.850	N	5.525	W	10 G		1.3	14	MOROCCO MD 3.4 (RBA).
	05	10	36	21.4	42.722	N	13.213	E	10 G		1.2	6	CENTRAL ITALY. MD 2.6 (SSO).

	05	10	49	23.3	76.166	N	134.346	E	13	D	4.6		1.1	33	LAPTEV SEA
	05	11	12	27.5?	18.80	S	178.34	W	595	?	4.9		0.4	13	FIJI ISLANDS REGION
	05	12	25	15.3?	39.08	N	24.22	E	10	G			1.9	7	AEGEAN SEA. ML 2.9 (ATH).
	05	12	29	22.5%	30.037	N	99.435	E	33	N			0.3	5	SICHUAN PROVINCE, CHINA. ML 3.7 (BJI).
	05	12	29	37.5?	34.44	S	72.28	W	33	N			0.5	9	NEAR COAST OF CENTRAL CHILE
	05	12	57	16.5%	39.017	N	28.017	E	10	G			1.3	5	TURKEY
	05	13	33	49.4	30.087	N	99.658	E	33	N	4.9		0.9	113	SICHUAN PROVINCE, CHINA
	05	13	43	42.9?	38.87	N	28.25	E	10	G			1.3	4	TURKEY
	05	14	45	54.5?	39.00	N	28.13	E	10	G			0.3	4	TURKEY
	05	15	11	33.7%	38.828	N	20.373	E	10	G			1.1	6	GREECE. MD 3.1 (ATH).
	05	15	25	29.9?	11.79	N	87.67	W	112	?	4.2		1.4	26	NEAR COAST OF NICARAGUA. MD 4.5 (HDC).
	05	16	24	53.8*	51.443	N	6.271	E	10	G			0.1	6	GERMANY. MD 2.1 (UCC). ML 2.0 (GSH).
	05	16	38	16.5%	23.054	N	121.934	E	10	G			0.4	5	TAIWAN
	05	18	15	47.0%	23.086	N	121.950	E	10	G			0.7	6	TAIWAN
	05	18	29	57.4*	39.291	N	28.914	E	10	G			0.7	6	TURKEY
	05	18	35	42.3*	23.075	N	121.904	E	10	G			0.5	5	TAIWAN
	05	18	43	46.2	27.445	N	103.163	E	33	N	4.1		1.1	16	YUNNAN PROVINCE, CHINA. ML 4.3 (BJI).
	05	18	53	19.1	39.342	N	25.563	E	12				1.0	29	AEGEAN SEA. ML 3.8 (ATH).
	05	19	01	25.8?	23.07	N	121.85	E	10	G			1.4	6	TAIWAN
	05	19	08	42.6&	61.397	N	147.867	W	29					23	SOUTHERN ALASKA. <AGS-P>.
	05	19	38	18.7&	60.079	N	153.234	W	119					24	SOUTHERN ALASKA. <AGS-P>.
	05	19	38	34.7*	9.806	S	28.187	E	10	G			1.2	9	ZAIRE REPUBLIC. MG 4.1 (BUL).
	05	20	09	34.2?	31.18	S	68.31	W	85	?			0.2	5	SAN JUAN PROVINCE, ARGENTINA
	05	20	58	53.5?	7.84	N	127.05	E	33	N	4.8		0.7	6	PHILIPPINE ISLANDS REGION
	05	21	07	59.1&	43.210	N	79.530	W	18	G				4	SOUTHERN ONTARIO. <OTT-P>. mbLg 3.3 (OTT). Felt at *Burlington, Hamilton and Mississauga.*
	05	21	33	27.5%	18.635	N	66.468	W	33	N			0.2	6	PUERTO RICO REGION
	05	21	38	27.9%	9.677	N	84.159	W	33	N			0.5	11	COSTA RICA. MD 3.2 (HDC). Felt (III) at Bijagual and Jaco; (II) at Oratina and San Jose.
	05	22	13	03.4%	23.074	N	121.862	E	10	G			0.6	6	TAIWAN
a	05	23	30	31.9	33.221	N	140.794	E	56		5.2		1.1	159	SOUTH OF HONSHU, JAPAN. Felt (I JMA) at Tateyama and an Hachijo-jima.
	05	23	53	48.4	41.204	N	23.124	E	10	G			0.6	8	GREECE-BULGARIA BORDER REGION. ML 1.3 (SKO).
	05	23	54	17.9	41.216	N	23.167	E	10	G			1.2	34	GREECE-BULGARIA BORDER REGION. ML 4.0 (ATH), 3.3 (SKO).
	05	23	56	41.7*	40.092	N	19.964	E	10	G			1.6	5	ALBANIA. MD 3.2 (ATH).
	06	00	00	48.9%	40.629	N	22.381	E	10	G			0.6	5	GREECE
	06	00	57	28.2	38.882	N	25.827	E	10	G			1.4	9	AEGEAN SEA
	06	01	23	22.9	21.669	N	143.012	E	279	D	4.7		1.0	83	MARIANA ISLANDS REGION
	06	01	51	05.4*	2.836	S	138.849	E	10	G	4.5	4.0	1.0	12	WEST IRIAN
	06	02	48	28.0*	17.465	N	61 918	W	33	N			0.4	7	LEEWARD ISLANDS. ML 2.7 (FDF).
	06	02	55	57.8	57.769	N	154 021	W	103	*	4.1		0.7	52	KODIAK ISLAND REGION
	06	03	12	39.6	2.843	S	138.930	E	10	G	4.9	4.5	1.1	36	WEST IRIAN
	06	03	22	22.6	55.738	N	158.449	W	33	N			0.6	14	ALASKA PENINSULA
	06	03	23	04.9?	29.98	S	67.48	W	33	N			0.7	5	LA RIOJA PROVINCE, ARGENTINA
	06	04	32	57.8	35.064	N	3.528	W	10	G	3.7		1.3	22	STRAIT OF GIBRALTAR. MD 3.7 (RBA). mbLg 3.3 (MDD).
	06	04	36	40.9?	40.24	N	28.85	E	5	G			1.9	4	TURKEY
	06	04	38	15.7	46.177	N	7.721	E	5	G			0.9	55	SWITZERLAND. ML 3.8 (GRF), 3.2 (LDG). MD 2.8 (STR).
	06	05	03	08.9	46.160	N	7 717	E	5	G			1.1	28	SWITZERLAND. ML 2.7 (LDG). MD 2.7 (STR).
	06	05	04	10.5	15.189	N	60 901	W	14				0.9	12	LEEWARD ISLANDS. ML 2.9 (FDF).
	06	05	21	21.3	37.177	N	22.984	E	33	N	3.5		0.7	7	SOUTHERN GREECE. ML 3.1 (ATH).
a	06	06	36	29.1	1.883	N	128.251	E	114	D	5.7		1.1	252	HALMAHERA
a	06	07	43	39.1	1.093	N	126 307	E	50	G	5.3	5.0	1.0	94	MOLUCCA PASSAGE
	06	08	19	56.1	23.157	S	68 321	W	115	D	5.3		1.2	117	NORTHERN CHILE
	06	08	20	52.8?	31.46	S	69.18	W	94	?			0.3	6	SAN JUAN PROVINCE, ARGENTINA
	06	09	07	38.4&	62.103	N	147 405	W	56					52	CENTRAL ALASKA. <AGS-P>.
	06	10	41	22.0?	19.37	N	66.62	W	10	G			0.4	5	PUERTO RICO REGION
	06	11	53	07.6	37.161	N	23.135	E	33	N	4.1		1.3	100	SOUTHERN GREECE. ML 4.1 (ATH).
	06	12	13	35.0%	32.349	S	69.278	W	85	?			1.5	7	MENDOZA PROVINCE, ARGENTINA
	06	12	52	16.7*	51.024	N	177.216	W	33	N	4.4		0.8	16	ANDREANOF ISLANDS, ALEUTIAN IS.
a	06	13	17	43.3&	59.939	N	140.475	W	10	G	5.3	5.2		225	SOUTHEASTERN ALASKA. <AGS-P>.
	06	14	44	36.3&	59.980	N	140.694	W	14					11	SOUTHEASTERN ALASKA. <AGS-P>.
	06	15	14	46.4&	59.931	N	140.593	W	0		4.8			70	SOUTHEASTERN ALASKA. <AGS-P>.
	06	16	45	05.0*	16.670	S	174.144	W	132	D	4.9		1.3	66	TONGA ISLANDS
	06	18	53	42.8%	15.652	N	60.483	W	33	N			0.4	8	LEEWARD ISLANDS. ML 2.9 (FDF).
	06	19	01	53.7&	53.046	N	164.040	W	3					6	UNIMAK ISLAND REGION. <PAL>.
	06	19	36	51.3	39.321	N	28.926	E	10	G			1.4	10	TURKEY
	06	19	43	18.2	31.684	S	70.891	W	101		5.0		0.9	29	CHILE-ARGENTINA BORDER REGION
	06	19	43	27.5	32.820	N	141.770	E	35	*	4.9	4.3	1.2	49	SOUTH OF HONSHU, JAPAN
	06	20	10	57.6&	62.984	N	143.192	W	3					21	CENTRAL ALASKA. <AGS-P>.
	06	22	08	38.7	32.721	N	141.664	E	33	N	4.7		1.1	23	SOUTH OF HONSHU, JAPAN
	06	22	33	56.3	40.634	N	22.337	E	10	G			1.0	16	GREECE. MD 3.1 (ATH). ML 2.3 (SKO).
	06	22	48	29.6?	39.18	N	21.50	E	10	G			0.4	4	GREECE. MD 3.3 (ATH).
a	06	22	53	56.5	42.797	N	145.117	E	44	D	5.7	5.1	0.9	372	HOKKAIDO, JAPAN REGION. Felt (III JMA) at Kushiro and Nemuro; (II JMA) at Hiroo, Obihiro, Tomakamai and Urakawo.
	06	23	20	10.4?	38.93	N	21 02	E	10	G			1.7	4	GREECE. MD 3.0 (ATH).
	06	23	43	39.1?	39.01	N	20.81	E	10	G			0.4	4	GREECE-ALBANIA BORDER REGION. MD 3.2 (ATH).
	06	23	45	19.4	40.617	N	22.369	E	10	G			0.7	11	GREECE. MD 2.8 (ATH). ML 1.8 (SKO).
	06	23	46	02.2?	38.87	N	21.12	E	10	G			1.4	4	GREECE. MD 3.0 (ATH).
	06	23	48	22.1*	38.924	N	21.007	E	10	G			1.5	10	GREECE. MD 3.4 (ATH).
	07	00	03	25.8*	23.132	N	121.829	E	10	G			1.4	6	TAIWAN
	07	00	10	48.2?	23.27	N	121.76	E	10	G			1.1	5	TAIWAN
	07	00	11	51.8?	38.86	N	21.06	E	10	G			1.0	4	GREECE
	07	00	35	55.1	38.936	N	21.101	E	10	G			1.1	32	GREECE. ML 3.6 (ATH).
	07	00	38	11.9	38.988	N	20.978	E	10	G	4.1		1.4	56	GREECE. ML 3.9 (ATH), 3.5 (TTG).
	07	00	42	32 6	38.967	N	21.030	E	10	G			1.3	15	GREECE. MD 3.6 (ATH).
	07	00	44	46.7	38.885	N	21.085	E	10	G			1.1	21	GREECE. ML 3.6 (ATH).
	07	01	00	46.3?	39.01	N	20.92	E	10	G			0.1	4	GREECE-ALBANIA BORDER REGION
	07	01	00	52.2	38.995	N	20.969	E	10	G	4.2		1.4	76	GREECE. ML 3.5 (ATH), 3.5 (TTG). Felt in Prevezo and Levkadhos Provinces.
	07	01	52	10.4&	62.792	N	156.609	W	23		4.3			32	CENTRAL ALASKA. <AGS-P>. ML 4.7 (PMR). Felt (III) at McGrath.
	07	02	27	27.5*	38.858	N	21.186	E	10	G			1.2	7	GREECE. MD 3.0 (ATH).

	07	03 11 27.9*	44.738	N	6.367	E	10	G			0.4	7	FRANCE. ML 2.5 (GEN).
	07	03 26 03 9	39 810	N	22.180	E	10	G			1.4	11	GREECE. MD 3.3 (ATH).
	07	03 53 51.5%	41.221	N	23.094	E	10	G			0.7	6	GREECE-BULGARIA BORDER REGION
	07	04 02 05.6	32.593	S	70.567	W	110	*			0.9	20	CHILE-ARGENTINA BORDER REGION
	07	04 25 39.6	45.192	N	7.499	E	10	G			0.9	53	NORTHERN ITALY. ML 3.2 (GEN), 3.1 (LDG). MD 2.7 (STR).
	07	05 29 52 4	13.631	N	90.759	W	54	D	4.5		1.1	53	NEAR COAST OF GUATEMALA. Felt (III) at San Salvador, El Salvador.
	07	05 31 41.9	43.649	N	12.214	E	9				1.1	41	CENTRAL ITALY. MD 3.5 (FIR). ML 3.3 (PRO), 3.3 (LDG), 2.6 (LJU). Felt in the Badia Tedalda-Pennabilli-Sestino area.
	07	05 34 12.4?	34.18	N	135.19	E	10	G			0.8	4	NEAR S. COAST OF SOUTHERN HONSHU. MG 2.5 (JMA). Felt (I JMA) at Wakayama.
	07	05 42 35.1	9.542	S	158.047	E	33	N	4.9	4.6	1.1	27	SOLOMON ISLANDS
	07	06 14 36.7	43.406	N	5.439	E	10	G			0.9	11	NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).
	07	07 13 40.0&	57 730	N	143.027	W	10	G				25	GULF OF ALASKA. <AGS-P>. ML 4.1 (PMR).
	07	07 24 29.3*	48.277	N	9.041	E	10	G			0.5	5	GERMANY
	07	07 50 34.5	20.909	S	178.919	W	586	*	4.9		0.8	43	FIJI ISLANDS REGION
	07	07 59 21.3*	48.213	N	8.935	E	10	G			1.1	7	GERMANY. MD 1.0 (STR).
	07	08 36 59.8	24.442	S	66.978	W	174		4.8		1.3	34	SALTA PROVINCE, ARGENTINA
	07	08 40 43.6*	43.690	N	12.183	E	10	G			1.0	5	CENTRAL ITALY
	07	09 16 17.5?	42.71	N	1.22	E	10	G			0.7	4	PYRENEES. ML 2.3 (LDG).
	07	09 32 03.6?	12.11	S	76.90	W	33	N			0.8	7	NEAR COAST OF PERU
	07	10 33 09.5?	39.48	N	2.89	W	10	G			0.8	4	SPAIN. mbLg 2.4 (MDD).
	07	11 03 45.2?	38.42	N	22.11	E	10	G			0.4	4	GREECE. ML 3.1 (ATH).
	07	12 11 00.9	14.340	N	90.524	W	139		4.4		0.9	33	GUATEMALA
	07	13 29 24.4%	37.679	N	15.063	E	10	G			1.0	5	SICILY
	07	13 30 50.8&	45.898	N	111.288	W	0		4.0			64	MONTANA. <BUT>. CL 4.3 (BUT). Felt (V) at Manhattan; (IV) at Belgrade, Bozeman, Gallotin Gateway, Harrison, Radersburg and Three Forks; (III) at Helena, Toston and Wilsall.
	07	13 50 22.1?	4.01	S	151.99	E	195	?	5.0		0.9	18	NEW BRITAIN REGION
	07	13 57 10.9*	36.390	N	21.084	E	10	G			1.2	8	SOUTHERN GREECE. MD 3.6 (ATH).
	07	14 32 26.3%	45.637	N	27.758	E	33	N			1.4	8	ROMANIA
	07	14 36 38.1%	60.689	N	6.374	E	10	G			1.3	7	SOUTHERN NORWAY. MD 1.8 (BER).
a	07	14 49 28 4	5.417	S	152.022	E	37		5.1	5.0	0.9	86	NEW BRITAIN REGION
	07	14 53 44.0*	5.432	S	152.177	E	33	N	4.8		1.0	13	NEW BRITAIN REGION
	07	14 55 33 3	5.493	S	152.042	E	33	N	4.9		0.9	24	NEW BRITAIN REGION
	07	14 56 30.7?	5.59	S	151.99	E	33	N	5.2		0.9	8	NEW BRITAIN REGION
	07	15 14 32.4	5.434	S	152.160	E	33	N	4.8		1.0	23	NEW BRITAIN REGION
	07	15 44 34.9?	5 63	S	152.31	E	33	N	4.6		1.2	7	NEW BRITAIN REGION
	07	16 17 45 9*	4 816	S	153.631	E	95	*	4 8		0.9	15	NEW IRELAND REGION
	07	16 47 05.9%	35.336	N	136.855	E	10	G			0.6	7	SOUTHERN HONSHU, JAPAN. MG 3.5 (JMA). Felt (I JMA) at Gifu.
	07	17 30 55.6?	8.40	S	128.71	E	152	?	4.0		1.4	8	TIMOR SEA
	07	17 40 14.5	39.407	N	21.360	E	10	G	3.8		1.2	24	GREECE. ML 3.6 (ATH).
	07	17 47 09.7?	23.12	N	121.91	E	10	G			0.0	4	TAIWAN
	07	17 49 46.7*	39.445	N	21.344	E	10	G			1.4	7	GREECE. MD 3.0 (ATH).
	07	17 58 22.7&	60.088	N	152.501	W	94					63	SOUTHERN ALASKA. <AGS-P>.
	07	18 44 45.7?	5.55	S	152.29	E	33	N	4.2		1.2	5	NEW BRITAIN REGION
	07	19 12 25.8*	3.890	S	12.363	W	10	G	4.7		1.2	37	NORTH OF ASCENSION ISLAND
	07	19 25 44.1%	43.072	N	0.634	W	10	G			0.1	5	PYRENEES. MD 1.0 (STR).
	07	20 09 48.5?	17.32	N	101.35	W	33	N			1 6	6	NEAR COAST OF GUERRERO, MEXICO
	07	21 17 05.8%	37.683	N	15.071	E	10	G			0.8	6	SICILY
	07	21 22 48.5?	5.08	S	103.58	E	98	?	4 5		1.2	10	SOUTHERN SUMATERA
	07	22 27 43.7&	61.612	N	146.374	W	0					5	SOUTHERN ALASKA. <AGS-P>
	07	22 42 56 8	10.714	N	62.207	W	90	*	3.8		0.7	18	NEAR COAST OF VENEZUELA. MD 3.8 (TRN).
	07	23 07 39 1?	29.43	S	178.57	W	205	?	4.9		1.7	11	KERMADEC ISLANDS
	07	23 32 14.8?	26.56	N	54.79	E	10	G	3.9		1.7	6	SOUTHERN IRAN. ML 3.4 (BMU).
a	07	23 34 54 5*	4.440	S	104.876	W	10	G	5.0	5.4	1.2	48	NORTHERN EASTER I. CORDILLERA. Ms 5.7 (BRK).
	08	00 07 41.8*	33.085	N	137.823	E	360		4.2		0.9	28	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Utsunomiya.
	08	00 25 03.4?	32.24	N	35.92	E	10	G			0.6	5	DEAD SEA REGION
	08	02 06 42.1?	32.45	S	72.94	W	10	G			0.2	9	OFF COAST OF CENTRAL CHILE
	08	03 18 37.4	44.700	N	6.614	E	10	G			0.4	35	FRANCE. ML 3.0 (GEN), 2.8 (LDG).
	08	04 24 54.4?	31.33	S	68.77	W	91	?			0.2	6	SAN JUAN PROVINCE, ARGENTINA
	08	04 25 22.4?	31.40	S	68.94	W	85	?			0.4	5	SAN JUAN PROVINCE, ARGENTINA
	08	04 29 50.5	39.392	N	21.642	E	10	G			1.0	7	GREECE. ML 3.1 (ATH).
	08	05 36 22.8?	32.10	S	71.91	W	33	N			0.7	10	NEAR COAST OF CENTRAL CHILE
	08	06 54 21.3*	27.771	S	141.314	E	10	G			1.3	6	QUEENSLAND, AUSTRALIA. ML 3.6 (CMS), 3.0 (STK).
a	08	07 59 06.1	40.121	S	174.330	E	122	D	5.5		1.1	138	COOK STRAIT, NEW ZEALAND. Minor damage on North and South Islands. Felt ot Auckland, Gisborne, Napier, New Plymouth, Wanganui ond Wellington, North Island and as far south as Christchurch, South Island.
	08	08 13 27.5&	37.130	N	121.952	W	15		4.9	4.5		60	CENTRAL CALIFORNIA. <BRK>. ML 5.4 (BRK). Mo=2.6*10**16 Nm (BRK). One person killed, some minor injuries ond damage (VI) in the Los Gatos, Campbell and Saratoga areas. Also slight damage (VI) at Ben Lomond, Brookdale, Cupertina, Holy City, Redwood Estates and Santa Cruz. Felt (V) throughaut much of the San Francisco Bay area. Felt from San Luis Obispo to Sonama and east as far as Tracy.
	08	08 44 10.0&	37.135	N	121.945	W	13		4.3			29	CENTRAL CALIFORNIA. <BRK>. ML 4.3 (BRK). Felt throughout the San Francisco Bay area.
	08	09 52 36.9	32.014	S	70.146	W	128	?			0.6	14	CHILE-ARGENTINA BORDER REGION
	08	11 33 36.6*	42.836	N	24.036	E	10	G			0.7	5	BULGARIA
	08	11 36 27.6*	51.250	N	15.721	E	5	G			1.2	11	POLAND. ML 3.7 (GRF).
	08	12 39 46.3*	20 352	S	173.886	W	33	N	4.9	4.8	1.0	27	TONGA ISLANDS
	08	14 08 26.5?	45.58	N	26.48	E	107	?			1.1	6	ROMANIA
	08	14 22 26.2?	29.56	S	178.12	W	225	?			1.4	8	KERMADEC ISLANDS
	08	15 53 28 4&	37.150	N	121.973	W	15		4.2			23	CENTRAL CALIFORNIA. <BRK>. ML 4.5 (BRK). Mo=5.0*10**15 Nm (BRK). Felt (V) ot Castro Valley, Millbrae, Palo Alto, Pescodero, Santo Cruz and San Mateo. Felt (IV) at Aptos, Berkeley, Boulder Creek, Brookdale, Costoville,

													Fremont, Gilroy, Half Moon Bay, La Hondo, Livermore, Los Altos, Los Gatos, Menlo Park, San Anselmo, San Bruno, San Carlos, San Francisco, San Jose, Santa Claro and South San Francisco. Felt throughout the San Francisca Bay area.
	08	16	12	20.9%	39.061	N	29.445	E	10	G		1.1	6 TURKEY
	08	17	47	23.2	13.808	N	89.446	W	186		4.0	0.7	31 EL SALVADOR
	08	18	11	40.2%	15.213	N	60.776	W	10	G		0.7	7 LEEWARD ISLANDS. ML 2.2 (FDF).
	08	18	13	09.2%	39.061	N	28.034	E	10	G		0.7	5 TURKEY
	08	18	19	27.5	33.764	S	71.311	W	33	N		0.5	12 NEAR COAST OF CENTRAL CHILE
	08	18	34	35.1*	37.638	N	70.801	E	33	N	4.2	1.3	7 AFGHANISTAN-USSR BORDER REGION
	08	18	52	36.7	39.112	N	28.007	E	10	G		1.1	9 TURKEY. MD 3.3 (ATH).
	08	19	13	06.8	39.086	N	27.997	E	10	G		1.2	21 TURKEY. MD 3.6 (ATH).
	08	19	35	28.7?	48.64	S	123.96	E	10	G	5.0	1.6	16 SOUTH OF AUSTRALIA
	08	20	08	45.9*	11.598	S	14.175	W	10	G	4.9 5.2	1.2	32 ASCENSION ISLAND REGION
a	08	20	17	57.5	11.592	S	14.214	W	10	G	5.0 5.0	1.1	80 ASCENSION ISLAND REGION
	08	20	33	27.6?	11.43	S	14.20	W	10	G	4.6	1.4	12 ASCENSION ISLAND REGION
	08	20	38	43.4	42.767	N	13.113	E	10	G		1.5	9 CENTRAL ITALY. MD 2.8 (SSO).
	08	20	47	19.4	25.614	N	141.092	E	165	D	4.5	1.1	36 VOLCANO ISLANDS REGION
	08	20	54	41.5%	31.446	S	68.751	W	10	G		0.8	6 SAN JUAN PROVINCE, ARGENTINA
	08	21	44	18.5*	15.121	N	60.374	W	33	N		0.5	12 LEEWARD ISLANDS. ML 2.9 (FDF).
	08	21	44	40.3?	34.95	N	139.21	E	5	G		1.3	5 NEAR S. COAST OF HONSHU, JAPAN. MG 2.6 (JMA). Felt (I JMA) at Ajira.
	08	22	04	17.1?	12.82	S	119.07	E	33	N	4.3	1.6	9 SOUTH OF SUMBA ISLAND
	08	22	33	07.6?	6.42	S	129.37	E	203	?		1.0	8 BANDA SEA
	08	22	41	38.6	41.629	N	12.620	E	10	G		1.0	11 SOUTHERN ITALY. MD 3.0 (SSO).
	08	22	58	49.8%	39.105	N	28.023	E	10	G		1.6	5 TURKEY
	08	23	01	06.0*	31.533	S	68.488	W	10	G		0.8	5 SAN JUAN PROVINCE, ARGENTINA. Felt (III) in San Juan Province.
	08	23	15	06.1&	39.482	N	122.928	W	11		4.3		28 NORTHERN CALIFORNIA. <BRK>. ML 4.1 (BRK). Felt (IV) at Willits. Also felt at Ukiah.
	08	23	28	32.9&	39.500	N	122.900	W	13				5 NORTHERN CALIFORNIA. <BRK>. ML 2.6 (BRK).
a	08	23	44	04.4	22.723	S	68.478	W	102	D	5.3	1.1	176 NORTHERN CHILE. Felt (VI) at Calamo and Chuquicamata; (IV) at Peine; (III) at Antofagasta, Iquique, Maria Elena, Pedro de Valdivia and San Pedro de Atacama; (II) at Mejillones.
a	09	00	40	36.1	20.644	S	173.617	W	38	D	5.3 5.0	1.3	96 TONGA ISLANDS
	09	00	55	05.7&	39.500	N	122.900	W	11				5 NORTHERN CALIFORNIA <BRK>. ML 2 5 (BRK).
	09	01	10	52.0	39.498	N	29.029	E	5	G		1.3	16 TURKEY
	09	01	16	19.3	39.494	N	29.039	E	5	G		0.9	8 TURKEY
	09	01	49	07 4	39.093	N	28.001	E	10	G		0.8	11 TURKEY. MD 3.2 (ATH)
	09	03	03	51.3*	20.599	S	173.675	W	37	D	5.0 4.7	1.2	44 TONGA ISLANDS
	09	03	24	36.5	39.038	N	15.154	E	312		3.8	0.9	33 SOUTHERN ITALY
	09	03	48	30.8*	25.337	S	177.398	W	214	?	4.6	1.0	27 SOUTH OF FIJI ISLANDS
	09	03	49	21.1*	38.328	N	26.509	E	10	G		1.5	9 AEGEAN SEA. ML 3.7 (ATH).
	09	04	20	55.9*	15.486	N	147.065	E	33	N	4.5	1.1	32 MARIANA ISLANDS REGION
	09	05	04	42.5?	0.29	N	123.65	E	191	?	4.6	1.5	9 MINAHASSA PENINSULA
	09	05	25	06.3?	23.07	S	178.30	W	579	?	4.4	1.0	12 SOUTH OF FIJI ISLANDS
	09	05	25	10.1	44 516	N	140.857	E	248	*	4.5	1.0	71 EASTERN SEA OF JAPAN
	09	05	51	02.2	9.777	S	118.093	E	33	N	4.9	1.1	44 SUMBAWA ISLAND REGION
	09	07	12	03.3*	44.688	N	6.793	E	10	G		0.8	5 FRANCE. ML 2.2 (GEN).
	09	08	24	08.6?	24 73	S	70.71	W	33	N	4.3	1 8	8 NEAR COAST OF NORTHERN CHILE
	09	08	59	19.1&	59.612	N	152.096	W	64				13 SOUTHERN ALASKA. <AGS-P>.
	09	09	24	41.8?	1.37	S	78.06	W	10	G		1.4	6 ECUADOR
	09	09	28	15 9	38.235	N	26.569	E	10	G		1 1	7 AEGEAN SEA. MD 3.1 (ATH).
	09	09	43	27.3*	18.171	N	105.273	W	44	*	4.4	1.2	25 OFF COAST OF JALISCO, MEXICO
	09	10	44	08.1?	8.14	N	82.84	W	33	N		0 9	13 PANAMA-COSTA RICA BORDER REGION. MD 4.6 (SJR), 4.3 (HDC).
	09	12	22	19.5*	42.568	N	24.136	E	10	G		0.2	5 BULGARIA
	09	13	41	53.6%	31.800	S	69.249	W	10	G		0.8	6 SAN JUAN PROVINCE, ARGENTINA
	09	13	42	11.2&	33.400	N	116.520	W	7				11 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS). Felt (IV) at Anzo and (III) at North Palm Springs. Also felt at Rancho Mirage.
	09	13	45	06.0	43.390	N	5.464	E	5	G		0.5	14 NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).
	09	14	01	58 7?	29.75	S	68.25	W	10	G		0.4	7 SAN JUAN PROVINCE, ARGENTINA
	09	14	27	51 0?	26.37	S	179.60	W	400	G	4.2	0.9	11 SOUTH OF FIJI ISLANDS
	09	14	38	22.5	42.826	N	146.935	E	30	D	5.0 4.2	1.1	50 OFF COAST OF HOKKAIDO, JAPAN
	09	14	40	10.2?	52.95	N	171.62	E	33	N	4.7	1.4	8 NEAR ISLANDS, ALEUTIAN ISLANDS
	09	15	26	07.8&	38.176	N	112.590	W	0				4 UTAH. <SLC-P>. CL 2.8 (SLC).
	09	15	28	33.3&	38.188	N	112.589	W	3				9 UTAH. <SLC>. CL 3.3 (SLC). Felt at Beaver.
	09	16	01	25 4	24.559	N	94.707	E	86		5.2	1.1	56 BURMA-INDIA BORDER REGION
	09	19	06	33.2*	16.746	N	62.292	W	33	N		1.1	6 LEEWARD ISLANDS. ML 2.6 (FDF).
	09	19	14	59.3&	60.120	N	152.239	W	68				26 SOUTHERN ALASKA. <AGS-P>.
	09	20	08	52 1*	38.238	N	26.526	E	10	G		1.4	8 AEGEAN SEA. MD 3.3 (ATH).
	09	21	11	52.6*	5.546	S	152.010	E	33	N	4.8	1.1	10 NEW BRITAIN REGION
	09	22	07	25.6	14 312	N	60.749	W	20	*		0.4	11 WINDWARD ISLANDS. ML 3.1 (FDF).
	09	23	00	42.5*	10.621	S	162.133	E	33	N	4.5	1.0	7 SOLOMON ISLANDS
	09	23	47	54.4&	61.245	N	146.837	W	1				22 SOUTHERN ALASKA. <AGS-P>.
	09	23	53	23.5*	22.419	S	12.799	W	10	G	4.7 4.8	1.5	29 SOUTH ATLANTIC RIDGE
	10	00	01	20.2*	50.385	N	18.812	E	10	G		0.5	5 POLAND. ML 3.0 (KRA).
	10	00	35	49.3?	16.59	N	59.63	W	33	N		0.3	9 LEEWARD ISLANDS. ML 3.3 (FDF).
	10	00	36	50.7?	17.93	N	65.76	W	10	G		0.3	4 PUERTO RICO REGION
	10	01	11	33.6	42.128	N	142.494	E	41	*	3.9	0.9	11 HOKKAIDO, JAPAN REGION. Felt (I JMA) at Urakawa.
a	10	01	55	57.2	5.898	N	124.424	E	56		5.4 5.7	1.3	173 MINDANAO, PHILIPPINE ISLANDS
	10	02	12	27.1*	5.964	N	124.457	E	33	N	4.6	1.0	16 MINDANAO, PHILIPPINE ISLANDS
	10	02	29	30.4*	36.656	N	26.931	E	148	?		0.4	7 DODECANESE ISLANDS
	10	02	43	34 4&	63.209	N	150.463	W	116				26 CENTRAL ALASKA. <AGS-P>
	10	02	59	33.1*	10.015	N	56.882	E	10	G	4.7	1.4	17 CARLSBERG RIDGE
	10	03	19	03.3*	5 785	N	124.174	E	33	N	4.5	1.5	10 MINDANAO, PHILIPPINE ISLANDS
	10	03	58	41 1	5.816	N	124.286	E	39	D	4.9 4.0	1.3	26 MINDANAO, PHILIPPINE ISLANDS
	10	05	51	20.2?	19.53	S	69.20	W	33	N		0.8	5 NORTHERN CHILE
	10	07	53	00.9*	59.716	S	26.160	W	33	N	4.9	1.1	22 SOUTH SANDWICH ISLANDS REGION
	10	08	16	22.8?	23.39	N	142.32	E	33	N	4.6	1.4	13 VOLCANO ISLANDS REGION

	10	08	19	01.7?	6.85	S	151.91	E	33	N	4.7		1.4	9	NEW BRITAIN REGION
a	10	08	23	45.0	5 875	N	124.431	E	43	D	5.0	4.7	1.5	44	MINDANAO, PHILIPPINE ISLANDS
	10	08	27	25.4	37.323	N	143.490	E	28		4.6		0.7	22	OFF EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Ofunata.
	10	08	27	26.0&	59 742	N	152.775	W	94					27	SOUTHERN ALASKA. <AGS-P>.
	10	08	35	00.6?	1.53	S	78.19	W	33	N			0.3	6	ECUADOR
	10	08	53	10.7?	24.52	S	66.95	W	200	G			1.2	5	SALTA PROVINCE, ARGENTINA
	10	08	58	14.9?	37.10	N	71.49	E	33	N	4.3	4.2	0.6	7	AFGHANISTAN-USSR BORDER REGION
	10	09	18	54.5*	5.928	S	151.006	E	33	N			1.4	6	NEW BRITAIN REGION
	10	09	37	51.9%	60.710	N	6.415	E	10	G			1.5	7	SOUTHERN NORWAY. MD 1.8 (BER).
	10	09	47	55.1*	53.552	N	164.605	W	33	N	4.5		1.4	28	UNIMAK ISLAND REGION
	10	10	10	42.9	39.086	N	27.948	E	10	G			0.5	6	TURKEY
	10	10	39	08.9	5 845	N	124.418	E	40	D	5.0	4.2	1.3	61	MINDANAO, PHILIPPINE ISLANDS
a	10	10	44	36.8*	61 895	S	154.623	E	10	G	5.2	5.6	1.2	53	BALLENY ISLANDS REGION
a	10	11	46	28.7	5.977	N	124.379	E	44		5.4	5.2	1.1	131	MINDANAO, PHILIPPINE ISLANDS
	10	12	24	57.4*	30.205	N	50.831	E	33	N			1 1	5	IRAN. ML 3 4 (BMU).
	10	12	36	12.1%	39.101	N	27.952	E	10	G			1.1	6	TURKEY
	10	12	36	22.6	37.981	N	20.152	E	10	G	4.1		1.1	58	IONIAN SEA. ML 4.0 (ATH), 4.0 (TTG).
	10	12	53	48.2?	51.28	N	15.92	E	10	G			1.3	4	POLAND
	10	13	17	33.5	39.955	N	23.754	E	10	G			1.0	17	AEGEAN SEA. MD 3.1 (ATH).
	10	13	42	43.9	34.155	N	135.674	E	72		4.1		0.9	31	NEAR S. COAST OF SOUTHERN HONSHU. Felt (II JMA) at Kyoto and (I JMA) at Kobe, Nara, Owase and Tsu.
	10	13	47	33.0	39 246	N	23.680	E	10	G			1.2	20	AEGEAN SEA. ML 3.1 (ATH).
	10	14	37	32.9	36.127	N	71.186	E	121	D	4.8		1.4	43	AFGHANISTAN-USSR BORDER REGION. Felt (III) at Ishkashim and (II) at Dushanbe and Kharag, USSR.
	10	14	56	19.4	5.787	N	124.172	E	33	N	4.6	4.2	1.3	24	MINDANAO, PHILIPPINE ISLANDS
	10	15	14	53.9?	23 11	S	170.15	E	33	N	4.7		1.6	10	LOYALTY ISLANDS REGION
	10	15	41	07.5%	39.566	N	28.483	E	10	G			0.5	5	TURKEY
	10	15	45	26.6%	29 997	S	124.625	E	10	G			1.4	6	WESTERN AUSTRALIA
	10	16	49	52.2*	27.679	N	97.188	E	33	N	4.2		0 7	7	BURMA-INDIA BORDER REGION
	10	16	50	41.9	38.280	N	26.606	E	10	G			1 4	16	AEGEAN SEA. ML 3.8 (ATH).
	10	17	47	37.4?	38.17	N	20.67	E	10	G			0.2	4	GREECE
	10	19	25	20.6*	19.036	S	176.707	E	33	N	5.2	4.4	1.2	46	SOUTH OF FIJI ISLANDS
	10	21	04	24.9*	24.136	N	121.763	E	10	G			0.4	5	TAIWAN
	10	21	17	43.5&	46.650	N	65.820	W	18	G				8	NEW BRUNSWICK. <OTT-P>. mbLg 3.5 (OTT).
	10	21	24	09.5	37.574	N	21.446	E	10	G	4.1		1.2	38	SOUTHERN GREECE. ML 3.6 (ATH).
	10	21	31	42.9*	40 617	N	122.281	W	5	G			1.1	5	NORTHERN CALIFORNIA. ML 3.0 (BRK).
	10	21	34	43.6*	46.351	N	13.095	E	5	G			1.5	5	AUSTRIA. MD 2 9 (LJU). ML 1.9 (KBA).
	10	22	54	36.0?	37.30	N	20.68	E	10	G			1.2	6	IONIAN SEA. MD 3.4 (ATH).
	11	00	32	03.5*	4.182	S	146.086	E	33	N	4.4		1.7	13	EAST PAPUA NEW GUINEA REGION
	11	00	39	15.6*	51 261	N	15.646	E	5	G			1.3	10	POLAND. ML 3.6 (GRF), 3.5 (VKA)
	11	01	12	19.9*	18.710	S	168.299	E	43	*	5.0	4.2	1.5	56	VANUATU ISLANDS
	11	01	56	42.9?	46.15	N	152.62	E	33	N	4.3		1.4	8	KURIL ISLANDS
	11	02	30	39.9*	31.581	S	69.291	W	125	?			0.9	12	SAN JUAN PROVINCE, ARGENTINA
	11	02	47	14.0%	59.879	N	6.502	E	20	G			1.2	7	SOUTHERN NORWAY. MD 1.6 (BER).
	11	03	27	00.6	19.043	S	176.743	E	20	D	5.1	4.3	1 1	54	SOUTH OF FIJI ISLANDS
	11	04	05	50.8?	16.08	S	167.84	E	183	?	4.5		1 3	7	VANUATU ISLANDS
	11	04	21	23.4	45.833	N	150.690	E	85	*	5.2		0 8	151	KURIL ISLANDS
	11	05	27	45.7%	32.783	S	71.660	W	10	G			0 6	9	NEAR COAST OF CENTRAL CHILE
	11	05	49	00.5%	38.466	N	26.783	E	10	G			0.4	5	AEGEAN SEA
	11	06	45	19.7*	44.512	N	6.966	E	10	G			0.6	5	FRANCE. ML 2.3 (GEN).
	11	06	55	54.3?	18.92	S	176.88	E	33	N	5.2		1 3	11	FIJI ISLANDS REGION
	11	07	39	47.7	13.105	N	121.445	E	28	D	5.0	5 0	1 4	82	MINDORO, PHILIPPINE ISLANDS
	11	08	26	24.6	28.229	S	67.207	W	172	?			0.8	17	LA RIOJA PROVINCE, ARGENTINA
	11	09	00	54.1%	60.716	N	5.575	E	10	G			0.6	6	SOUTHERN NORWAY. MD 1.8 (BER).
	11	09	14	55.5	44.046	N	7.521	E	10	G			0.3	10	NORTHERN ITALY. ML 2.3 (GEN). MD 1.5 (STR).
	11	09	40	24.2%	38.838	N	27.567	E	10	G			1.3	6	TURKEY
	11	09	45	12.6	44.593	N	7.358	E	10	G			0.6	9	NORTHERN ITALY. ML 2.5 (GEN).
	11	10	47	24.8	36.574	N	1.647	E	10	G			0.9	26	ALGERIA. mbLg 3.4 (MDD).
	11	11	51	12.4?	51 95	N	156.23	E	33	N	4.6		1.4	20	KAMCHATKA
	11	13	12	10.1*	14 549	N	92.835	W	68		4.3		1.1	31	NEAR COAST OF CHIAPAS, MEXICO
	11	14	09	12.3?	31.66	S	69.38	W	92	?			0.4	6	SAN JUAN PROVINCE, ARGENTINA
	11	14	10	54.1?	27.12	N	141.15	E	487	*	3.7		0.4	9	BONIN ISLANDS REGION
	11	14	50	55.7	13.156	N	121.665	E	54	?	4.9	4.4	1.4	41	MINDORO, PHILIPPINE ISLANDS
	11	15	09	11.8*	32.097	S	69.444	W	80	?			1.6	11	MENDOZA PROVINCE, ARGENTINA
	11	16	45	04.2?	29.36	S	67.24	W	33	N			0.9	6	LA RIOJA PROVINCE, ARGENTINA
	11	17	59	43.8?	32.35	S	179.42	E	509	?			0.9	12	SOUTH OF KERMADEC ISLANDS
	11	18	48	42.7	41.957	N	19.175	E	10	G			0.7	9	ALBANIA. ML 2.2 (TTG).
	11	19	58	46.5?	31.34	S	69.20	W	94	?			0.2	6	SAN JUAN PROVINCE, ARGENTINA
	11	20	58	42.4	7.237	S	122.689	E	632	*	5.4		1.0	44	FLORES SEA
	11	21	26	18.3%	30 696	S	68.332	W	101	?			1.0	7	SAN JUAN PROVINCE, ARGENTINA
	11	22	44	50 3&	57.798	N	156.280	W	149					20	ALASKA PENINSULA. <AGS-P>.
	11	23	43	58.1	39 224	N	23.717	E	10	G			0.9	31	AEGEAN SEA. ML 3.4 (ATH).
a	12	00	40	10.7	0 800	N	126.817	E	51	D	5.7		1.3	213	MOLUCCA PASSAGE. Felt (IV) an Ternate.
	12	01	12	06.9*	31 237	S	179.144	E	495	?	4.4		1.1	18	KERMADEC ISLANDS REGION
	12	01	41	48.0&	40 985	N	126.638	W	5		4.0			22	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.7 (BRK).
	12	01	56	09 7*	62.016	N	26.478	W	10	G	4.4		1.1	22	ICELAND REGION
	12	02	24	41.7?	15 07	N	61.29	W	154	?			0.4	9	LEEWARD ISLANDS
	12	03	36	19.0&	38 228	N	122.47	W	10					8	NORTHERN CALIFORNIA. <BRK>. ML 2.5 (BRK).
	12	03	55	43.4*	1 413	S	77.824	W	170		4.5		0.8	18	ECUADOR
	12	04	12	52.3	35.260	N	3.789	W	10	G			1.4	15	STRAIT OF GIBRALTAR. MD 3.6 (RBA). mbLg 3.3 (MDD).
	12	04	15	08.3?	31.56	S	69.11	W	96	?			1.3	6	SAN JUAN PROVINCE, ARGENTINA
	12	04	30	28.2&	41 623	N	128.090	W	5		4.0			17	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.9 (BRK).
	12	04	32	13.8	43 551	N	8.046	E	10	G			0.9	22	CORSICA. ML 3.0 (GEN), 2.8 (MDD).
	12	05	02	27.0*	23.735	S	179.869	E	550	G	4.3		0.4	15	SOUTH OF FIJI ISLANDS
	12	05	43	18.3*	8 172	S	120.299	E	33	N	4.5		1.4	15	FLORES ISLAND REGION
	12	05	55	28.8*	32.859	S	71.519	W	33	N			1 1	16	NEAR COAST OF CENTRAL CHILE
	12	06	02	21.5	31.917	S	69.097	W	116				1 0	26	SAN JUAN PROVINCE, ARGENTINA
	12	06	29	55.6?	15.92	S	173.51	W	33	N	4 7		1.3	11	TONGA ISLANDS
	12	06	56	46.8*	3.021	S	123.047	E	33	N	4.0		1.0	5	SULAWESI
	12	07	13	30.5*	2 762	S	138.569	E	58	*	4.6	4.3	1.5	27	WEST IRIAN
	12	09	18	05.4	12 797	N	143.616	E	123	*	4.4		0.8	22	SOUTH OF MARIANA ISLANDS
	12	09	35	12.1&	38.812	N	122.795	W	4					13	NORTHERN CALIFORNIA. <BRK>. ML 3.0 (BRK).

	12	10	28	49.7?	31.01	S	69.13	W	33	N			0.9	5	SAN JUAN PROVINCE, ARGENTINA
	12	10	39	19.4?	10.60	N	62.45	W	128	?			1.2	14	NEAR COAST OF VENEZUELA
	12	11	23	45.7?	58.00	S	25.06	W	33	N	4.7		1.4	11	SOUTH SANDWICH ISLANDS REGION
	12	13	50	18.3&	59.721	N	153.048	W	107					23	SOUTHERN ALASKA. <AGS-P>.
	12	14	19	08.8	47.791	N	7.679	E	10	G			0.4	7	SWITZERLAND. ML 2.5 (LDG).
	12	14	50	27.9*	3.268	S	130.374	E	72	?	4.4		1.5	14	CERAM
a	12	15	31	49.2	18.288	N	100.974	W	69		5.3		1.2	198	GUERRERO, MEXICO. Ms 4.6 (BRK).
a	12	16	46	43.3	8.682	N	125.718	E	55	G	5.9		1.1	276	MINDANAO, PHILIPPINE ISLANDS. Ms 5.5 (BRK). Felt at Bislig. Depth from broadband displacement seismagrams.
a	12	17	18	36.9	7.259	S	12.700	W	10	G	4.9	4.7	1.2	56	ASCENSION ISLAND REGION
	12	18	01	21.2	36.473	N	70.258	E	222	*	4.5		1.0	33	HINDU KUSH REGION
	12	19	22	16.8*	22.227	S	179.570	W	560	?	4.7		1.2	33	SOUTH OF FIJI ISLANDS
	12	19	29	29.2	44.581	N	22.368	E	33	N			1.1	17	ROMANIA
	12	20	19	10.0&	34.270	N	117.490	W	12					11	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
	12	20	30	35.7*	11.684	S	166.880	E	218	?	4.5		1.2	23	SANTA CRUZ ISLANDS
a	12	20	46	40.6	20.502	S	173.929	W	38	D	5.3	5.3	1.3	103	TONGA ISLANDS. Ms 5.3 (BRK).
	12	21	08	41.6?	6.04	S	130.71	E	115	?	4.2		1.3	10	BANDA SEA
	12	21	49	37.1?	15.91	N	97.90	W	33	N	3.6		1.4	8	NEAR COAST OF OAXACA, MEXICO
	12	22	34	53.8	51.785	N	176.229	W	63		4.5		0.8	32	ANDREANOF ISLANDS, ALEUTIAN IS. Felt on Adak.
	12	22	58	33.6	47.041	N	6.029	E	10	G			1.2	11	FRANCE. ML 2.4 (LDG).
	12	23	02	43.1	30.950	S	71.609	W	45	D	4.9		1.4	36	NEAR COAST OF CENTRAL CHILE
	12	23	23	40.7	46.337	N	13.239	E	10	G			1.1	11	AUSTRIA. MD 3.2 (LJU), 2.5 (TRI). ML 2.5 (KBA).
	12	23	30	45.0?	9.47	S	123.92	E	33	N	4.6		1.4	8	TIMOR
	13	00	09	33.8?	15.98	N	97.86	W	33	N			0.6	5	NEAR COAST OF OAXACA, MEXICO
	13	00	15	51.5?	51.76	S	161.20	E	10	G	5.1	4.6	1.3	15	NORTH OF MACQUARIE ISLAND
	13	01	31	21.4	22.866	N	120.488	E	24		4.6		1.3	26	TAIWAN
	13	04	03	28.4*	23.127	S	66.579	W	231	*			0.7	9	JUJUY PROVINCE, ARGENTINA
	13	04	48	02.2?	5.08	S	146.34	E	47	?	4.4		1.3	8	EAST PAPUA NEW GUINEA REGION
	13	05	18	55.4?	34.67	S	72.39	W	33	N			0.9	16	NEAR COAST OF CENTRAL CHILE
	13	06	57	08.7&	57.570	N	142.967	W	10	G				18	GULF OF ALASKA <AGS-P>.
	13	07	10	13.2&	59.109	N	154.533	W	109					11	SOUTHERN ALASKA. <AGS-P>.
	13	08	34	12.7	46.035	N	153.064	E	36	D	5.1	4.6	0.8	127	KURIL ISLANDS
	13	09	34	08.1	18.471	S	70.306	W	97	*	4.4		1.0	11	NEAR COAST OF NORTHERN CHILE
	13	10	25	28.3?	31.73	S	69.67	W	81	?			0.2	6	SAN JUAN PROVINCE, ARGENTINA
	13	11	51	27.7?	13.90	N	145.48	E	102	?	4.8		0.4	10	MARIANA ISLANDS
	13	12	45	04.2*	45.118	N	14.480	E	5	G			0.6	7	YUGOSLAVIA. MD 2.9 (LJU), 2.3 (TRI).
	13	13	08	55.7?	20.78	S	178.99	W	621	?	4.3		0.6	12	FIJI ISLANDS REGION
	13	17	41	01.3	21.350	N	106.590	W	10	G	4.7		1.4	38	OFF COAST OF CENTRAL MEXICO
	13	18	01	55.1*	52.965	N	4.748	W	10	G			0.4	5	UNITED KINGDOM
	13	18	02	56.7*	32.777	S	68.693	W	193	*			0.9	15	MENDOZA PROVINCE, ARGENTINA
	13	18	44	11 1?	31.60	S	70 34	W	10	G			1.6	6	CHILE-ARGENTINA BORDER REGION
	13	18	56	02.1*	44.008	N	16.310	E	10	G			0.5	5	YUGOSLAVIA
	13	18	58	55.5*	32.080	S	71.638	W	67	*			1.1	17	NEAR COAST OF CENTRAL CHILE
	13	19	05	58.9*	43.103	N	45.672	E	33	N	4.4		0.3	6	EASTERN CAUCASUS
	13	19	13	47.0?	7.77	S	128.14	E	179	?	4.2		1.3	10	BANDA SEA
	13	20	02	14.2%	43.071	N	0.477	W	10	G			0.4	6	PYRENEES. MD 1.0 (STR).
	13	20	16	02.9	33.632	N	87.086	W	0	G			1.0	11	ALABAMA. mbLg 3.4 (NEIS). Mine collapse.
	13	20	47	52.0*	25.073	S	71.323	W	33	N	4.6		1.3	16	OFF COAST OF NORTHERN CHILE
	13	21	12	04.1?	9.99	S	161.24	E	86	?	4.3		0.9	7	SOLOMON ISLANDS
	13	22	13	34.6&	59.986	N	153.390	W	126					18	SOUTHERN ALASKA. <AGS-P>.
	13	23	36	15.0?	12.13	N	87.00	W	33	N	4.0		1.1	16	NICARAGUA. MD 4.0 (SJR).
	14	00	10	02.5&	61.132	N	149.503	W	40					49	SOUTHERN ALASKA. <AGS-P>. ML 3.3 (PMR).
	14	00	50	36.9*	16.922	S	71.427	W	122	*	4.3		1.1	10	SOUTHERN PERU. Felt (II) at Arequipa.
	14	02	13	22.2	16.774	N	61.978	W	10	G			0.6	9	LEEWARD ISLANDS. ML 2.9 (FDF).
	14	02	51	02.1	46.233	N	153.296	E	33	N	5.0	4.4	0.8	137	KURIL ISLANDS
	14	03	04	56.8	44.433	N	6.306	E	10	G			0.6	45	FRANCE. ML 2.9 (GEN), 2.8 (LDG). MD 2.4 (STR).
	14	03	26	45.8	44.438	N	6.313	E	10	G			0.7	40	FRANCE. ML 2.8 (GEN), 2.6 (LDG). MD 2.6 (STR).
	14	04	01	18.1?	38.81	N	23.69	E	10	G			0.4	7	GREECE
	14	04	05	58.4	46.005	N	13.626	E	10	G			0.8	15	AUSTRIA. MD 3.1 (LJU). ML 2.9 (KBA).
	14	04	09	04 1&	11.552	N	86.145	W	124					7	NEAR COAST OF NICARAGUA. <HDC>.
	14	04	11	56.1	46.023	N	13.636	E	10	G			1.1	7	AUSTRIA. ML 2.3 (KBA). MD 2.2 (TRI).
	14	04	13	00.9	46.028	N	13.623	E	10	G			1.0	7	AUSTRIA. ML 2.2 (KBA), 1.6 (LJU). MD 2.2 (TRI).
	14	04	16	24.2	46.016	N	13.647	E	10	G			1.0	16	AUSTRIA. ML 3.2 (KBA), 3.0 (VKA). MD 3.2 (LJU), 2.7 (TRI).
	14	04	26	25.8	46.024	N	13.622	E	10	G			1.0	13	AUSTRIA. MD 3.1 (LJU), 2.5 (TRI). ML 2.9 (KBA).
	14	05	13	03.1%	1.092	S	78.396	W	10	G			1.5	5	ECUADOR
	14	06	34	06.1	46.000	N	13.694	E	10	G			1.3	17	NORTHERN ITALY. MD 3.2 (LJU). ML 3.1 (KBA).
	14	06	47	40.8	46.020	N	13.694	E	10	G			1.4	22	AUSTRIA. MD 3.1 (LJU). ML 3.0 (KBA).
	14	07	01	26.4	46.036	N	13.646	E	10	G			1 1	6	AUSTRIA. MD 2.4 (TRI).
	14	08	28	23.8&	58.361	N	155.410	W	130					11	ALASKA PENINSULA. <AGS-P>.
	14	09	29	50 1*	46.028	N	13.684	E	10	G			1.6	5	AUSTRIA. ML 1.5 (LJU).
	14	09	52	16.1*	38.270	N	20.788	E	10	G			1.0	5	GREECE. MD 3.4 (ATH).
	14	10	50	54.4*	46.040	N	13.680	E	10	G			1.3	5	AUSTRIA. MD 1.9 (TRI). ML 1.7 (LJU).
	14	10	51	18.2	46.025	N	13.671	E	10	G			1.1	13	AUSTRIA. ML 3.0 (KBA). MD 2.9 (LJU), 2.8 (TRI).
	14	11	38	03 8?	5.53	S	145.54	E	145	*			0.7	6	EAST PAPUA NEW GUINEA REGION
	14	11	49	37.0	40.715	N	23.470	E	10	G			0.6	8	GREECE
	14	12	14	04.8	41.160	N	20.037	E	10	G			1.1	12	ALBANIA. ML 2.4 (TTG), 2.3 (SKO).
	14	12	43	05.0	46.005	N	13.703	E	10	G			1.4	16	AUSTRIA. ML 2.9 (KBA). MD 2.9 (TRI), 2.9 (LJU).
	14	12	46	55 5?	41.64	N	12.60	E	10	G			1.0	9	SOUTHERN ITALY
	14	14	55	34.5&	63.937	N	150.362	W	10					23	CENTRAL ALASKA. <AGS-P>. ML 3.3 (PMR).
	14	15	21	57.4%	31.377	S	68.901	W	98	?			0.3	6	SAN JUAN PROVINCE, ARGENTINA
	14	16	42	46.2&	62.953	N	149.613	W	80					22	CENTRAL ALASKA. <AGS-P>.
	14	17	07	05.1?	34.13	S	71.07	W	33	N			0.6	8	NEAR COAST OF CENTRAL CHILE
	14	17	22	43.7?	19.83	S	176.04	W	33	N	5.0		0.5	6	FIJI ISLANDS REGION
f	14	17	51	08.7	19.016	S	176.652	E	33	N	5.8	5.9	1.1	413	SOUTH OF FIJI ISLANDS Ms 6.0 (BRK), 5.7 (PAS).
	14	18	12	40.7	19.010	S	176.662	E	33	N	5.4		1.1	87	SOUTH OF FIJI ISLANDS
	14	18	15	53 8	18 957	S	176.674	E	33	N	5.5		1.0	44	FIJI ISLANDS REGION
	14	19	02	33 4*	19 032	S	176.862	E	33	N	5.3		1.2	41	SOUTH OF FIJI ISLANDS
	14	19	57	29.7*	31.364	N	49.400	E	51	?	4.2		1.4	11	WESTERN IRAN. Felt in the Haft Gel area.
	14	20	07	20.1&	56.917	N	142.698	W	10	G				53	GULF OF ALASKA. <AGS-P>. ML 3.8 (PMR).
	14	20	29	11.8	46.008	N	13.642	E	10	G			1.2	6	AUSTRIA. ML 1.8 (KBA).
	14	21	26	34.2%	31.220	S	68.686	W	105	?			0.4	6	SAN JUAN PROVINCE, ARGENTINA
	14	22	26	59.6	43.163	N	18.822	E	10	G			1.3	10	YUGOSLAVIA. ML 2.3 (TTG).

	14	22 49 36 8?	22.14	S	170.95	E	113 ?	4.6		1.4	16	LOYALTY ISLANDS REGION
	14	23 15 24.4?	11.15	N	85.87	W	133 ?			0.7	19	NICARAGUA. MD 4.4 (SJR).
	14	23 30 06.6*	21.022	S	70.440	W	33 N			1.1	6	NEAR COAST OF NORTHERN CHILE
	15	00 02 26.0	45.979	N	13.710	E	10 G			1.4	11	NORTHERN ITALY. ML 2.8 (KBA). MD 2.8 (TRI).
	15	00 46 22.4?	21.88	S	175.15	W	39 D	5.0	5.1	1.6	31	TONGA ISLANDS
	15	01 46 15.5*	34.870	N	139.243	E	10 G			1.1	8	NEAR S. COAST OF HONSHU, JAPAN. MG 3.2 (JMA). Felt (I JMA) on Oshima.
	15	02 10 45.4*	36.676	N	71.388	E	33 N	4.6		1.1	10	AFGHANISTAN-USSR BORDER REGION
	15	02 56 13.5*	0.063	S	77.819	W	10 G			0.9	7	ECUADOR
	15	04 15 05.5	45.668	N	26.795	E	115	4.4		1.2	100	ROMANIA. Felt (III) at Bucharest.
	15	04 32 45.7*	20.006	N	70.951	W	33 N	4.2		1.0	11	DOMINICAN REPUBLIC REGION
	15	05 13 23.4?	72.24	N	0.14	W	10 G			0.4	4	JAN MAYEN ISLAND REGION. MD 3.2 (BER).
	15	06 37 27.6?	35.32	N	22.17	E	10 G			1.4	5	MEDITERRANEAN SEA
	15	07 02 58.6&	11.602	N	86.856	W	146				8	NEAR COAST OF NICARAGUA. <HDC>.
	15	07 53 57.9*	21.974	S	175.042	W	33 N	5.1	4.9	1.2	57	TONGA ISLANDS
	15	09 31 44.6	48.320	N	7.670	E	10 G			0.9	10	FRANCE. ML 2.4 (LDG). MD 1.7 (STR).
a	15	10 04 22.3	38.307	S	93.822	W	10 G	5.4	5.3	1.1	94	WEST CHILE RISE. Ms 5.3 (BRK).
	15	10 12 28.7?	22.69	S	179.18	E	681 ?	3.9		1.8	12	SOUTH OF FIJI ISLANDS
	15	10 18 12.3%	31.502	S	68.455	W	98 ?			0.2	7	SAN JUAN PROVINCE, ARGENTINA
	15	11 17 30.6	40.666	N	23.324	E	10 G			1.3	14	GREECE. MD 2.8 (ATH). ML 2.5 (SKO).
	15	12 12 17.5?	13.49	N	123.32	E	33 N			1.1	5	LUZON, PHILIPPINE ISLANDS
	15	14 30 31.6	7.284	S	128.665	E	86 *	4.8		1.2	42	BANDA SEA
	15	14 35 31.2*	41.132	N	48.672	E	33 N	4.7		1.2	9	EASTERN CAUCASUS
	15	16 08 07.7	39.168	N	26.333	E	5	4.2		1.2	100	TURKEY. ML 4.3 (ATH).
	15	16 27 12.7?	36.01	N	140.32	E	33 N			1.1	7	NEAR EAST COAST OF HONSHU, JAPAN
	15	16 47 33.7	10.359	N	72.964	W	91 *	5.1		1.2	21	VENEZUELA
	15	17 03 29.6	39.177	N	26.293	E	10 G	4.6	4.6	1.4	181	TURKEY. ML 4.8 (ATH). Felt in the Izmir area.
	15	17 55 39.8*	31.742	S	67.156	W	144 ?			0.9	10	SAN JUAN PROVINCE, ARGENTINA
	15	18 22 04.0	39.216	N	26.097	E	10 G			1.0	9	TURKEY. MD 3.2 (ATH).
	15	18 38 12.7	16.280	S	176.555	W	364 ?	4.7		0.9	85	FIJI ISLANDS REGION
	15	18 47 41.1*	14.879	N	94.411	W	33 N	4.5	3.7	1.3	17	OFF COAST OF CHIAPAS, MEXICO
	15	19 17 31.4*	37.881	N	26.776	E	10 G			0.7	5	DODECANESE ISLANDS. MD 3.1 (ATH).
	15	19 31 32.5?	2.51	N	126.87	E	33 N			1.5	9	MOLUCCA PASSAGE
	15	20 36 02.6	40.012	N	142.001	E	33 N			1.1	14	NEAR EAST COAST OF HONSHU, JAPAN. MG 3.7 (JMA). Felt (II JMA) at Miyako and (I JMA) at Hachinahe.
	15	20 43 33.7%	46.807	N	5.518	E	10 G			0.8	8	FRANCE. ML 2.4 (LDG).
	15	20 46 55.3*	38.348	N	21.844	E	33 N			1.4	8	GREECE. ML 3.4 (ATH).
	15	21 23 53.8	5.109	N	125.331	E	193 *	5.1		1.2	66	MINDANAO, PHILIPPINE ISLANDS
	15	21 24 06.6?	30.80	S	68.93	W	100 G			0.4	5	SAN JUAN PROVINCE, ARGENTINA
	15	21 27 55.0*	41.242	N	20.057	E	5 G			1.2	6	ALBANIA. ML 2.1 (SKO).
	15	22 19 38.8	49.071	N	128.852	W	10 G	4.5		1.2	46	VANCOUVER ISLAND REGION
	15	23 41 17.2*	17.830	N	61.436	W	10 G			0.6	13	LEEWARD ISLANDS. ML 3.6 (FDF).
	16	00 17 21.7	2.268	S	77.606	W	42	4.9		1.1	39	PERU-ECUADOR BORDER REGION
	16	00 49 32 4*	37.292	N	21.037	E	10 G			1.1	13	SOUTHERN GREECE. MD 3.6 (ATH).
	16	01 42 45.0?	17.69	S	175.44	W	264 ?	4.2		1.3	16	TONGA ISLANDS
	16	02 31 49.6&	62.928	N	148.281	W	63				40	CENTRAL ALASKA. <AGS-P>.
	16	04 30 03.7%	18.294	N	66.220	W	10 G			0.8	5	PUERTO RICO REGION
	16	05 41 18.9*	24.086	S	66.704	W	212 *			0.6	10	SALTA PROVINCE, ARGENTINA
	16	05 53 09 6*	14.795	N	94.124	W	25 D	4.6	3.9	1.4	28	OFF COAST OF CHIAPAS, MEXICO
	16	08 31 48 9?	23.07	S	67.55	W	33 N			0.8	6	CHILE-ARGENTINA BORDER REGION
	16	09 07 57 1*	18.503	S	173.256	W	33 N	4.9	4.9	1 6	34	TONGA ISLANDS
	16	10 37 14 6*	39.851	N	24.080	E	10 G			0.9	8	AEGEAN SEA
	16	11 22 35 4	36.077	N	28.828	E	67	4.2		0.9	18	DODECANESE ISLANDS. MD 4.0 (HLW).
	16	11 28 46 1&	40.583	N	124.427	W	22				12	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.3 (BRK). Felt (V) at Ria Dell; (II) at Ferndale and Honeydew.
	16	11 56 25.8*	18.835	S	177.731	W	644 ?	4.9		1.1	30	FIJI ISLANDS REGION
	16	11 58 32.7*	40.372	N	21.713	E	10 G			1.7	9	GREECE
	16	13 16 29.8?	58.19	N	6.41	E	5 G			0.8	6	SOUTHERN NORWAY. MD 2.4 (BER).
	16	13 46 22.3	4.597	S	125.442	E	448 *	5.0		1.0	32	BANDA SEA
	16	14 12 26.9*	32.585	S	69.767	W	133 ?			0.5	10	MENDOZA PROVINCE, ARGENTINA
	16	14 47 47 8?	31.67	S	68.69	W	10 G			1.5	5	SAN JUAN PROVINCE, ARGENTINA
	16	15 48 39.9	38.849	N	26.333	E	10 G			1.1	9	AEGEAN SEA. MD 3.4 (ATH).
	16	17 02 00.2?	18.66	S	177.25	W	656 ?	4.7		0.9	14	FIJI ISLANDS REGION
	16	17 22 09.8%	33.026	S	71.393	W	33 N			1.2	9	NEAR COAST OF CENTRAL CHILE
	16	18 09 12.2%	38.587	N	27.435	E	10 G			1.1	5	TURKEY
	16	19 09 00.2	44.463	N	6.422	E	10 G			0.6	13	FRANCE. ML 2.2 (LDG).
	16	19 27 23.8&	39.502	N	123.375	W	1				10	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.0 (BRK). Felt (V) at Willits.
	16	20 31 27.2*	40.835	N	27.743	E	10 G			0.6	6	TURKEY
	16	20 45 48.1*	0.808	N	127.888	E	33 N	4.7		1.5	6	HALMAHERA
	16	21 07 53.2*	14.481	N	60.932	W	140 *			0.4	15	WINDWARD ISLANDS
	16	23 28 09.8	42.271	N	1.319	E	10 G			0.6	6	PYRENEES
	17	00 04 33.8?	47.00	N	6.19	E	10 G			0.0	5	FRANCE
	17	00 13 46.2*	31.562	S	68.804	W	223 ?			0.5	9	SAN JUAN PROVINCE, ARGENTINA
	17	00 24 58.1	40.858	N	21.519	E	10 G			1.3	10	GREECE. ML 2.6 (SKO).
	17	00 32 19.7?	39.40	N	20.58	E	5 G			1.4	9	GREECE-ALBANIA BORDER REGION
	17	00 54 03.1*	17 134	N	99.867	W	56 *	4.9		1.4	33	GUERRERO, MEXICO
	17	01 54 57.5%	39.932	N	15.362	E	10 G			0.5	5	SOUTHERN ITALY
	17	02 37 00.4?	76.51	N	134.34	E	10 G	3.9		1.5	11	LAPTEV SEA
	17	02 53 37.4&	59.938	N	153.141	W	120				35	SOUTHERN ALASKA. <AGS-P>.
	17	03 51 02.1*	46.662	N	150.964	E	33 N	4.5		0.6	7	KURIL ISLANDS
	17	05 00 34.7*	14.395	N	60.591	W	95 *			0.2	12	WINDWARD ISLANDS
	17	05 10 28.0	5.314	S	102.779	E	42 D	4.9	4.7	1.2	61	SOUTHERN SUMATERA
	17	06 17 43.4*	29.542	N	129.407	E	33 N	4.8		0.8	12	RYUKYU ISLANDS
	17	06 53 48.5	43.407	N	5.441	E	10 G			0.6	14	NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).
	17	07 05 45.0*	4.222	S	102.254	E	85 *	4.6		0.9	26	SOUTHERN SUMATERA
	17	09 10 51.4?	48.16	N	8.85	E	10 G			0.6	5	GERMANY MD 1.0 (STR).
	17	09 34 37.7*	32.914	S	70.172	W	114 ?			0.4	11	CHILE-ARGENTINA BORDER REGION
	17	10 26 32.4	45.810	N	14.853	E	10 G			0.5	10	YUGOSLAVIA. MD 3.1 (LJU), 2.8 (TRI). ML 3.0 (KBA). Felt (IV) in the Ljubljana area.
a	17	11 03 10.6	17.701	S	167.187	E	10 G	5.2	4.8	1.1	149	VANUATU ISLANDS
	17	12 07 53.6?	6.40	S	130.47	E	33 N	4.2		1.2	8	BANDA SEA
	17	12 13 41.6*	42.719	N	19.139	E	10 G			1.4	5	YUGOSLAVIA. ML 2.2 (TTG).

	17	12	46	01.1	40 837	N	28.168	E	10	G		0.9	8 TURKEY
	17	13	18	57.1*	35.178	N	9.185	W	10	G		0.9	12 WEST OF GIBRALTAR. mbLg 3.5 (MDD). MD 3.2 (RBA).
	17	13	41	50.0	36.600	N	26.789	E	171	*		1.0	20 DODECANESE ISLANDS. MD 4.4 (HLW), 2.9 (ATH).
	17	13	57	17.0%	37.752	N	14.987	E	10	G		0.7	9 SICILY
	17	15	01	22.2	4.371	S	153.002	E	108		5.3	1.0	44 NEW IRELAND REGION
	17	16	36	30.0?	7.22	S	128.33	E	33	N		1.0	6 BANDA SEA
	17	17	08	56.8?	7.43	S	128.73	E	228	?		0.8	6 BANDA SEA
	17	17	10	51.7*	38.239	N	21.902	E	10	G		1.5	8 GREECE. MD 3.2 (ATH).
	17	18	11	02.3?	34.38	S	71.97	W	10	G		0.3	8 NEAR COAST OF CENTRAL CHILE
	17	18	33	37.8?	40.74	N	123.46	W	5	G		0.2	4 NORTHERN CALIFORNIA. ML 2.7 (BRK).
	17	18	46	28.5?	37.87	N	141.04	E	33	N	4.4	1.2	11 NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Fukushima, Onahama, Sendai and Utsunomiya.
	17	22	08	20.4*	12.508	N	95.757	E	27	D	4.8	1.5	18 ANDAMAN ISLANDS REGION
	17	22	15	39.7?	44.27	N	114.89	W	5	G		0.4	7 WESTERN IDAHO. ML 3.0 (BUT).
	17	22	32	20.7?	16.57	S	175.97	W	302	?	4.3	1.6	10 TONGA ISLANDS
	17	23	37	13.6?	31.83	S	69 56	W	100	G		0.9	5 SAN JUAN PROVINCE, ARGENTINA
	18	00	14	32.5	0.709	N	126.221	E	59	*	5.0	1.0	42 MOLUCCA PASSAGE
	18	02	37	33.7*	17.785	N	95.130	W	122	*	3.5	1.2	15 OAXACA, MEXICO
	18	03	29	45.8&	59.767	N	152.341	W	91				31 SOUTHERN ALASKA. <AGS-P>.
a	18	03	46	26.0	55.053	S	27.846	W	33	N	5.6 5.5	1.2	45 SOUTH SANDWICH ISLANDS REGION
	18	04	28	30.3*	38.214	N	21.804	E	10	G		1.1	8 GREECE. ML 3.2 (ATH).
	18	04	53	42.1*	20.166	S	71.914	W	33	N		1.3	5 OFF COAST OF NORTHERN CHILE
	18	05	46	11.9*	7.441	S	129.118	E	136	*	4.5	1.4	15 BANDA SEA
	18	07	43	23.4	36.319	N	71.026	E	105	*	4.6	0.8	18 AFGHANISTAN-USSR BORDER REGION
	18	08	21	24.9&	58.991	N	154.067	W	114		4.0		43 ALASKA PENINSULA. <AGS-P>.
	18	08	23	41.3	41.947	N	20.125	E	10	G		1.3	17 ALBANIA. ML 3.3 (SKO), 2.9 (TTG).
	18	09	04	09.7?	31.63	S	71.54	W	100	?		1.0	11 NEAR COAST OF CENTRAL CHILE
	18	09	23	01.2	41.180	N	23.149	E	10	G		1.1	30 GREECE-BULGARIA BORDER REGION. MD 3.4 (ATH). ML 3.0 (SKO).
	18	09	29	17.3*	44.446	N	147.120	E	33	N	4.8	0.8	17 KURIL ISLANDS
	18	10	56	43.3%	60.893	N	6.728	E	10	G		0.2	7 SOUTHERN NORWAY. MD 2.2 (BER).
	18	11	06	22.8?	35.60	N	3.89	W	10	G		1.7	4 STRAIT OF GIBRALTAR. MD 3.1 (RBA).
	18	11	47	54.3*	38.803	N	27.814	E	10	G		1.2	6 TURKEY
	18	11	50	42.8?	36.71	N	21.27	E	5	G		1.8	4 SOUTHERN GREECE. MD 3.3 (ATH).
	18	14	23	00.6?	31.51	S	69.21	W	100	G		1.0	6 SAN JUAN PROVINCE, ARGENTINA
	18	15	41	37.3	19.486	S	69.317	W	132			1.2	24 NORTHERN CHILE
	18	15	56	11.4%	31.533	S	66.913	W	33	N		0.9	6 LA RIOJA PROVINCE, ARGENTINA
	18	16	15	53.7&	60.120	N	152.676	W	98				20 SOUTHERN ALASKA <AGS-P>.
	18	17	01	47.8?	16.34	N	60.80	W	33	N		0.0	5 LEEWARD ISLANDS. ML 2.4 (FDF).
	18	17	43	21.5*	48.101	N	154.618	E	33	N	4.6	1.0	19 KURIL ISLANDS
	18	18	20	06.1?	47.04	N	14.16	E	10	G		2.1	4 AUSTRIA ML 2.4 (KBA). Felt near Murau.
	18	18	43	40.6&	57.701	N	139.021	W	10	G			4 OFF COAST OF SOUTHEASTERN ALASKA. <AGS-P>.
	18	18	49	59.5*	12.727	N	144.491	E	66	*	4.5	1.1	30 SOUTH OF MARIANA ISLANDS
	18	20	00	51.1	51.380	N	175.649	E	33	N	4.9 4.2	1.0	76 RAT ISLANDS, ALEUTIAN ISLANDS
	18	20	20	15.8*	36.166	N	25.578	E	33	N	3.8	1.7	6 DODECANESE ISLANDS. MD 3.9 (ATH).
	18	20	53	03.0*	0.603	S	124.378	E	88	*	4.4	1.3	15 MOLUCCA SEA
	18	21	59	34.3?	19.26	N	109.41	W	33	N	3.6	0.8	8 REVILLA GIGEDO ISLANDS REGION
	18	22	09	44.0?	34.73	N	30.61	E	33	N		1.4	4 EASTERN MEDITERRANEAN SEA. MD 3.9 (HLW).
	18	23	26	42.3?	48.19	N	146.56	E	452	?	4.2	1.3	13 SEA OF OKHOTSK
	19	00	20	52.1	46.170	N	7.713	E	10	G		0.8	32 SWITZERLAND. ML 2.9 (LDG), 2.8 (GEN).
	19	00	28	38.3	33.979	S	70.724	W	10	G		0.6	11 CHILE-ARGENTINA BORDER REGION
	19	01	35	47 7*	6.772	S	146.738	E	33	N	4.2	1.1	7 EAST PAPUA NEW GUINEA REGION. ML 4.4 (PMG).
	19	02	17	23 9	28.893	S	70.430	W	33	N		1.2	15 CENTRAL CHILE
	19	04	09	45 8&	39 334	N	111.146	W	13				9 UTAH. <SLC-P>. CL 2.9 (SLC).
	19	04	45	14 9	34.977	N	138 197	E	15			0 7	11 NEAR S. COAST OF HONSHU, JAPAN. MG 3.7 (JMA). Felt (II JMA) at Shizuoka.
	19	04	49	12.5%	37.739	N	15.004	E	10	G		0.7	9 SICILY
	19	06	37	57.4*	31.195	S	177.520	W	33	N	5.0	1.5	13 KERMADEC ISLANDS REGION
	19	06	55	55.0*	5.309	S	102.925	E	56	*	4 7 4.9	1.2	35 SOUTHERN SUMATERA
	19	07	59	40.2?	34.01	N	23.21	E	10	G	4 1	0.8	5 CRETE. MD 3.9 (ATH).
	19	08	14	59.1	2.170	S	138.182	E	33	N	4.4 4.5	1.0	22 WEST IRIAN
	19	10	16	14.9%	37.741	S	176.057	E	33	N		0.7	14 NORTH ISLAND, NEW ZEALAND. Felt in the Bay of Plenty region.
	19	10	29	00.4	44.787	N	6.713	E	10	G		0.1	4 FRANCE. ML 2.4 (GEN).
	19	10	34	19.3	37.441	N	22.698	E	77	*	3.8	0.9	25 SOUTHERN GREECE
	19	11	33	35.7*	33.138	S	179.579	W	33	N	4.6	0.9	13 SOUTH OF KERMADEC ISLANDS
	19	12	15	39.3?	39.85	N	20.15	E	10	G		1.5	7 GREECE-ALBANIA BORDER REGION
	19	12	27	55.6*	62.692	S	158.732	W	10	G	5.1	1.0	10 SOUTH PACIFIC CORDILLERA
a	19	13	19	20.2	6.507	S	130.028	E	165	G	5.7	0.9	133 BANDA SEA. Depth from broadband displacement seismograms.
	19	14	13	36.9	40.746	N	27.632	E	10	G		1.3	16 TURKEY
	19	15	06	10.4?	7.80	S	130 13	E	124	?	4.6	1.0	9 TANIMBAR ISLANDS REGION
	19	16	25	39.0	40.731	N	27.625	E	10	G		1.4	13 TURKEY
	19	17	04	13.0%	40.806	N	27.521	E	10	G		0.8	8 TURKEY
	19	17	29	55.9	27.641	S	67.486	W	161	*	4.8	1.3	28 CATAMARCA PROVINCE, ARGENTINA
	19	17	46	30.0%	43.086	N	0.654	W	10	G		0.2	7 PYRENEES. MD 1.9 (STR).
	19	18	08	50.4%	40.817	N	27.573	E	10	G		0.1	5 TURKEY
	19	18	19	34.2	37.079	N	116.002	W	5	G		0.7	17 SOUTHERN NEVADA. ML 2.9 (NEIS).
	19	19	03	06.5?	34.43	S	71.88	W	10	G		0.5	9 NEAR COAST OF CENTRAL CHILE
	19	19	04	26.0?	37.30	N	29.43	E	10	G		0.2	4 TURKEY
	19	20	19	23.5	33.195	N	141.067	E	33	N	4.3	1.0	18 OFF EAST COAST OF HONSHU, JAPAN
	19	20	59	06.7*	14.754	S	167.071	E	218	*	4.9	1.1	40 VANUATU ISLANDS
	19	22	07	50.0?	17.32	S	69.48	W	150	G		1.3	5 PERU-BOLIVIA BORDER REGION
	19	22	22	41.2?	48.90	S	10.21	W	10	G	4.6	1.4	13 SOUTH ATLANTIC RIDGE
	19	23	38	06.1*	23.152	S	66.570	W	225	*	4.0	1.0	12 JUJUY PROVINCE, ARGENTINA
	20	00	03	17.8	34.736	N	87.645	W	10	G	3.4	1.0	17 ALABAMA. mbLg 3.9 (NEIS). Minor damage (VI) reparted south of Florence. Felt (V) at Danville, Florence, Rogersville and Tuscumbia; (IV) at Courtland, Killen, Sheffield and Town Creek; (III) at Cherokee and Waterloo. Also felt (III) at Iron City, Lawrenceburg, Saint Joseph and Westpoint, Tennessee.
	20	00	07	39.6*	38.402	N	72.580	E	33	N	4.4	0.9	10 TAJIK SSR. Felt (III) at Vanch.
	20	00	30	08.4?	31.14	S	68.50	W	92	?		0.4	5 SAN JUAN PROVINCE, ARGENTINA

	20	01 01 50.0	17.878	N	64.560	W	157		4.5		0.7	59	VIRGIN ISLANDS
a	20	01 31 54.6*	15.147	S	173.611	W	45	D	4.9	4.7	1.1	57	TONGA ISLANDS
	20	01 42 17.0%	40.147	N	27.608	E	10	G			0.4	6	TURKEY
	20	02 47 24.9&	61.587	N	151.402	W	75					22	SOUTHERN ALASKA. <AGS-P>.
	20	02 50 17.7?	57.32	N	7.18	E	10	G			0.8	7	NORTH SEA. MD 2.7 (BER).
	20	03 22 15.2	49.125	N	129.304	W	10	G	4.5		1.0	46	VANCOUVER ISLAND REGION
	20	04 36 59.0*	20.263	N	99.163	E	33	N	4.3		1.1	8	BURMA. Felt in Chiang Mai and Chiang Rai Provinces, Thailand.
	20	04 42 35.8*	20.273	N	99.322	E	33	N	4.6		0.9	12	BURMA. Felt in Chiang Mai and Chiang Rai Provinces, Thailand.
	20	05 06 03.4?	31.52	S	68.72	W	85	?			0.1	5	SAN JUAN PROVINCE, ARGENTINA
	20	05 43 33.0%	40.802	N	27.570	E	10	G			0.4	5	TURKEY
	20	06 21 45.8*	23.372	S	70.967	W	60	*	4.7		1.2	13	NEAR COAST OF NORTHERN CHILE. Felt (III) in the Antofagasta area.
	20	07 27 45.6%	43.997	N	7.963	E	10	G			0.4	6	NEAR SOUTH COAST OF FRANCE. ML 2.5 (GEN).
	20	08 07 00.7*	1.360	N	121.547	E	68	*	4.9		0.8	11	MINAHASSA PENINSULA
	20	09 10 15.9	9.255	N	123.697	E	54	*	5.3	4.1	1.0	56	NEGROS, PHILIPPINE ISLANDS
	20	09 15 39.6*	9.239	N	123.676	E	38	D	4.3		1.0	17	NEGROS, PHILIPPINE ISLANDS
	20	10 36 50.9*	38.318	N	72.947	E	69	?	4.6		1.1	19	TAJIK SSR. Felt (III) at Chuyangaron, Dushanbe and Isfaro.
	20	10 58 25.2	6.987	S	155.325	E	94	*	4.6		1.0	21	SOLOMON ISLANDS
f	20	11 16 56.5	11.766	N	41.942	E	12	G	5.8	6.3	1.0	449	ETHIOPIA. Ms 6.1 (BRK), 5.5 (PAS). ML 5.8 (ARO). Two people killed, 2 injured and damage and rockslides coused in the Galafi-Yoboki area, Djibouti. Ground cracks were observed at Golafi and 4 springs were destroyed in the area. Felt strongly throughout Djibouti. Damage and landslides accurred in northeostern Ethiopia, particularly along the Aseb-Adis Abeba highway. Felt at Aseb. Depth from broadband displacement seismograms.
	20	11 17 55.2	11.919	N	41.963	E	10	G	5.6		1.2	59	ETHIOPIA. Depth from broadbond displacement seismograms.
	20	11 28 00.5?	61.19	N	4.18	E	10	G			0.9	5	SOUTHERN NORWAY. MD 1.7 (BER).
a	20	11 46 28.0	11.884	N	41.812	E	10	G	6.1	5.6	1.0	369	ETHIOPIA. Ms 6.1 (BRK).
	20	11 56 17.8	11.764	N	41.964	E	10	G	5.3		1.3	153	ETHIOPIA
	20	12 01 49.0%	39.143	N	27 629	E	10	G			1.3	5	TURKEY
	20	12 13 36.7?	11.47	N	41.71	E	10	G	4.8		0.8	28	ETHIOPIA
	20	13 25 26.0	11.898	N	41.884	E	10	G	5.2		1.2	176	ETHIOPIA. ML 5.1 (ARO).
	20	13 26 19.4	11.880	N	41.880	E	10	G	5.3	6.1	1.3	111	ETHIOPIA
	20	14 08 31.2*	28.114	N	139.795	E	493	*	3.9		0.7	16	BONIN ISLANDS REGION
	20	14 15 43.0*	12.044	N	41 626	E	10	G	4.6		1.1	24	ETHIOPIA
	20	14 36 36.7*	24.234	N	109.295	W	10	G	5.0		1.4	20	GULF OF CALIFORNIA
	20	15 01 00.4?	0.34	S	80.06	W	33	N			1.2	9	NEAR COAST OF ECUADOR
	20	15 39 43.0&	62.049	N	148.104	W	39					27	CENTRAL ALASKA. <AGS-P>.
	20	15 55 26.8?	11.64	N	42.28	E	10	G	4.4		1.4	18	ETHIOPIA
	20	16 15 56.0	45.395	N	14.425	E	10	G			0.6	11	YUGOSLAVIA. MD 3.0 (LJU), 2.5 (TRI). ML 2.6 (ZAG), 2.5 (KBA). Felt in the Rijeka area.
	20	17 29 39.3	44.556	N	7.280	E	10	G			0.5	22	NORTHERN ITALY. ML 2.6 (GEN), 2.5 (LDG). MD 2.0 (STR).
	20	17 30 04.7*	20.056	S	69.390	W	33	N			1.5	6	NORTHERN CHILE
	20	18 25 13.3	11.807	N	41.813	E	10	G	4.6		0.5	26	ETHIOPIA. ML 4.3 (ARO).
	20	18 27 33.6	11.825	N	41.583	E	10	G	5.1		1.4	55	ETHIOPIA
	20	18 27 58 3*	43.622	N	12.800	E	10	G			1.2	7	CENTRAL ITALY
a	20	18 32 29.9	37.278	N	21.203	E	11	D	5.4	5.6	1.4	326	SOUTHERN GREECE. ML 5.4 (ATH). MD 5.4 (TTG) Felt thraughout most of Peloponnisos.
a	20	18 39 48.8	11.985	N	41.870	E	10	G	5.4		1 0	158	ETHIOPIA
	20	18 48 23 6*	37.333	N	21.128	E	33	N	3.6		0.9	11	SOUTHERN GREECE. ML 3.3 (ATH).
	20	18 54 05.3	11.896	N	41.764	E	10	G	5.2		1 1	143	ETHIOPIA
a	20	19 25 56.5	11.904	N	41.824	E	12	G	6.2	5.7	1.0	426	ETHIOPIA. Ms 5.8 (BRK). Depth from broadband displocement seismograms.
	20	19 39 26.5*	37.451	N	21.065	E	10	G			1.4	8	SOUTHERN GREECE
	20	20 03 09.0?	37.66	N	21.03	E	10	G			1.3	7	SOUTHERN GREECE. ML 3.3 (ATH).
	20	20 03 38.6?	23.52	S	179.71	W	572	?	4.6		0.7	17	SOUTH OF FIJI ISLANDS
	20	20 25 59.2*	45.376	N	14.514	E	10	G			1.4	10	YUGOSLAVIA. MD 2.7 (LJU), 2.1 (TRI). ML 2.2 (KBA). Felt in the Rijeka area.
	20	20 34 40.7*	34.068	N	135.070	E	5	G			1.1	6	NEAR S. COAST OF SOUTHERN HONSHU. MG 3.3 (JMA). Felt (I JMA) at Wokayama.
	20	20 45 12.2*	12.164	N	41.611	E	10	G	4.7		1.2	39	ETHIOPIA
	20	20 57 20.8	39.949	N	23.956	E	10	G	4.0		1.3	86	AEGEAN SEA. ML 4.0 (ATH).
	20	21 09 42.4	39.847	N	24.057	E	10	G			0.7	16	AEGEAN SEA
	20	21 23 15.6&	41.714	N	112.395	W	7					8	UTAH. <SLC-P>. ML 3.0 (SLC). Felt (III) at Howell, Plymouth and Riverside. Alsa felt ot Garland and at the Morton Thiokal Plant.
	20	21 35 42.7?	20.81	N	122.38	E	33	N	4.4		0.5	9	PHILIPPINE ISLANDS REGION
	20	22 05 45.8*	4.836	N	82.858	W	10	G			0.2	8	SOUTH OF PANAMA. MD 4.8 (HDC).
	20	22 17 15.8*	37.492	N	21.052	E	10	G			1.4	10	SOUTHERN GREECE. ML 3.3 (ATH).
	20	22 36 36.6*	37.122	N	21.748	E	10	G	4.1		1.3	12	SOUTHERN GREECE
	21	00 06 47.6*	37.435	N	20.859	E	10	G			1.5	7	IONIAN SEA. ML 3.2 (ATH).
	21	00 55 55.0?	37.91	N	21.15	E	10	G			0.4	4	SOUTHERN GREECE. ML 3.2 (ATH).
	21	01 03 38.0%	31.482	N	36.217	E	10	G			0.9	8	DEAD SEA REGION
f	21	01 09 06.6	11.874	N	41.870	E	16	G	6.3	6.2	1.0	484	ETHIOPIA. Ms 6.2 (BRK), 5.9 (PAS). ML 6.0 (ARO). Felt in northeostern Ethiopio and throughout Djibouti. Depth from broadband displacement seismograms.
	21	01 34 07.3*	11.992	N	41.891	E	10	G	4.9		1.1	80	ETHIOPIA
	21	04 48 43.5?	27.52	N	54.40	E	33	N	3.7		1.1	6	SOUTHERN IRAN. Felt in the Lar area.
	21	04 48 55.0?	15.72	N	60.72	W	33	N			0.8	7	LEEWARD ISLANDS. ML 2.7 (FDF).
f	21	05 03 05.6	11.942	N	41.769	E	10	G	5.8	5.7	1.1	339	ETHIOPIA. Ms 5.8 (BRK). Felt strongly in northeastern Ethiopia. Depth from broadbond displacement seismograms.
a	21	05 05 45.3*	11.821	N	41 732	E	10	G	5.3		1.2	20	ETHIOPIA
	21	05 06 00.2*	31.587	S	68.643	W	110	*			1.1	10	SAN JUAN PROVINCE, ARGENTINA
	21	06 11 53 1?	40.01	N	23.81	E	10	G			0.7	4	GREECE
	21	06 19 53.2	43.185	N	18 100	E	5	G			0.9	44	YUGOSLAVIA. MD 3.4 (TTG). ML 2.9 (LJU).
	21	06 46 40.2?	11.53	N	42.48	E	10	G	4.4		0.5	5	ETHIOPIA

	21	06	49	39.0*	51.681	N	179.729	W	111	*	4.4		1.2	16	ANDREANOF ISLANDS, ALEUTIAN IS.
	21	06	52	58.5	48.074	N	5.380	W	33	N			1.1	65	NORTH ATLANTIC OCEAN. MD 4.5 (STR). mbLg 4.2 (MDD). Felt (IV) on Sein Island and in the western part of Bretagne, Fronce.
	21	07	04	34.9?	37.16	N	21.14	E	10	G			1.9	6	SOUTHERN GREECE. ML 3.4 (ATH).
a	21	07	07	38.4	11.800	N	41.721	E	10	G	5.0	4.7	1.1	84	ETHIOPIA
	21	07	12	59.5	37.151	N	21.135	E	10	G			0.7	13	SOUTHERN GREECE. ML 3.3 (ATH).
	21	08	52	38.6&	60.626	N	151.456	W	58					31	KENAI PENINSULA, ALASKA. <AGS-P>.
	21	08	57	50.7%	37.813	N	15.024	E	10	G			0.9	9	SICILY
	21	09	04	11.1?	12.30	N	41.25	E	10	G	4.2		1.3	5	ETHIOPIA
	21	09	24	53.6*	44.663	N	12.049	E	10	G			0.2	5	NORTHERN ITALY. MD 2.8 (TRI).
	21	09	33	41.1	17.055	N	99.405	W	47		3.9		1.1	20	GUERRERO, MEXICO
	21	10	18	20.9	43.398	N	5.425	E	10	G			0.8	13	NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).
	21	10	52	16.9%	37.777	N	14.937	E	10	G			0.7	6	SICILY
	21	10	54	12.6%	37.844	N	14.951	E	10	G			0.8	5	SICILY
	21	10	58	45 7%	62.547	N	7.688	E	10	G			0.6	5	SOUTHERN NORWAY. MD 2.1 (BER).
	21	12	24	37.7%	60.113	N	4.498	E	10	G			0.2	6	SOUTHERN NORWAY. MD 2.0 (BER).
	21	12	38	00.4&	61.672	N	149.818	W	36					20	SOUTHERN ALASKA. <AGS-P>.
	21	13	06	00.6?	51.28	N	16.05	E	10	G			0.8	5	POLAND
	21	13	12	21.2%	37.768	N	15.063	E	10	G			1.5	5	SICILY
	21	13	13	57.6%	37.726	N	15.124	E	10	G			0.1	5	SICILY
	21	13	16	52.0%	40.561	N	106.055	E	33	N			1.5	6	NORTHERN CHINA. ML 4.1 (BJI).
	21	13	23	44.5	4.853	S	146.792	E	33	N	4.4	4.0	1.4	24	EAST PAPUA NEW GUINEA REGION
	21	14	13	47.2	39.801	N	30.393	E	10	G			1.3	13	TURKEY. Felt at Eskisehir.
	21	14	30	14.7*	41.354	N	23.382	E	10	G			1.1	6	GREECE-BULGARIA BORDER REGION
	21	14	47	19.5	5.587	N	124.566	E	63	*	4.6		1.1	31	MINDANAO, PHILIPPINE ISLANDS
	21	15	23	07.3	40.414	N	142.266	E	59	*	4.3		0.9	16	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) ot Hochinahe and Morioka.
	21	16	24	54.4?	37.24	N	21.00	E	10	G			0.5	5	SOUTHERN GREECE. ML 3.4 (ATH).
	21	16	43	48.7*	31.708	S	68.921	W	104	*			0.4	9	SAN JUAN PROVINCE, ARGENTINA
	21	18	10	38.9*	12.072	N	41.680	E	10	G	4.6		0.7	11	ETHIOPIA
f	21	18	25	41.0	4.104	S	154.459	E	494	G	5.8		0.9	363	SOLOMON ISLANDS. mb 5.8 (8RK). Twa events abaut 3.5 secands apart. Oepth from broadband displacement seismograms, based an secand event.
	21	18	35	38.0	4.143	S	154.782	E	542	*	5.1		0.8	47	SOLOMON ISLANDS
	21	19	29	31.8*	17.648	S	73.653	W	33	N			1.4	11	OFF COAST OF PERU. Felt (II) at Arequipa.
	21	19	46	43.5	41.820	N	22.853	E	10	G			0.6	6	YUGOSLAVIA. ML 2.1 (SKO).
	21	19	57	52.2*	29.472	S	30.581	E	10	G			1.7	10	REPUBLIC OF SOUTH AFRICA ML 3.9 (PRE).
	21	20	26	27.9*	37.176	N	21.152	E	10	G			1.2	14	SOUTHERN GREECE. ML 3.4 (ATH).
	21	20	53	08.0*	32.399	S	14.081	W	10	G	4.6	4.4	1.3	10	SOUTH ATLANTIC RIDGE
	21	21	21	35.4?	12.10	N	41.65	E	10	G	4.6		1 7	6	ETHIOPIA
	21	21	54	31.4	35.731	N	26.930	E	10	G			1.3	18	CRETE. ML 4.1 (ATH).
	21	21	54	44.7&	11.278	N	87.046	W	0					11	NEAR COAST OF NICARAGUA. <HDC>. MD 4.2 (HDC)
o	21	23	12	41.4	24.094	N	122.478	E	43	D	5.6	6.3	1.2	358	TAIWAN REGION. Ms 5.8 (BRK). Felt thaughout Taiwon. Also felt (II JMA) an Yanaguni-jima and (I JMA) on Ishigaki-shima, Ryukyu Islonds.
	22	00	35	00.8?	23.91	N	122.35	E	10	G			1.3	5	TAIWAN REGION
	22	00	42	02.8	6.762	N	72.967	W	157	D	4.9		1.0	173	NORTHERN COLOMBIA Felt at Bagota, Bucaramanga, Cucuto and (III) at Manizales Also felt in Boyaca and Tolimo Deportments.
	22	01	35	21.0*	28.790	S	70.831	W	91	?			1.2	15	CENTRAL CHILE
	22	01	49	28.3?	23.89	N	122.43	E	10	G			1.1	5	TAIWAN REGION
	22	02	09	59.1%	43.087	N	0.646	W	10	G			0 3	6	PYRENEES. MD 1.0 (STR)
	22	02	18	03.2%	38.090	N	0.055	E	10	G			0 3	5	SPAIN. mbLg 3.2 (MDD).
	22	02	23	34.6	6.662	N	73.259	W	189		5 0		1.3	52	NORTHERN COLOMBIA Felt in the area sauthwest of Bucaramonga.
	22	02	53	24.7*	0.892	S	15.915	W	10	G	4.7		0.6	7	NORTH OF ASCENSION ISLAND
	22	03	01	48.1*	12.193	N	41.532	E	10	G	4.8		1.4	19	ETHIOPIA
	22	03	54	00.6*	37.525	N	21.379	E	10	G			1.2	7	SOUTHERN GREECE. ML 3.8 (ATH).
	22	04	09	00.3	37.312	N	20.988	E	10	G	4.4		1.0	36	IONIAN SEA
	22	04	28	55.1?	40.04	N	126.52	W	10	G			0.3	12	OFF COAST OF NORTHERN CALIFORNIA. ML 3.6 (BRK)
	22	05	04	41.3*	39.201	N	23.648	E	9				1.1	10	AEGEAN SEA. ML 3.0 (ATH).
	22	05	24	02.3&	53.284	N	164.141	W	48					13	UNIMAK ISLAND REGION. <PAL>.
	22	05	34	19.0?	2.98	S	140.12	E	33	N	4.4	3.7	1.1	6	NEAR N. COAST OF WEST IRIAN
	22	06	07	32.1&	40.555	N	123.748	W	42					7	NORTHERN CALIFORNIA. <BRK>. ML 3.2 (BRK).
a	22	06	27	02.7	5.030	S	151.386	E	133		5.2		0.9	82	NEW BRITAIN REGION
	22	07	06	36.6	35.186	N	3.829	W	10	G			1.1	18	STRAIT OF GIBRALTAR. MD 3.8 (RBA). mbLg 3.4 (MDD).
	22	07	28	53.6?	43.21	N	18.27	E	10	G			0.7	5	YUGOSLAVIA. ML 2.5 (TTG).
	22	07	29	40.0&	60.035	N	152.686	W	106					26	SOUTHERN ALASKA. <AGS-P>.
a	22	07	56	09.6	41.463	N	142.066	E	66	D	5.3		0.9	249	HOKKAIDO, JAPAN REGION. Felt (III JMA) at Hochinahe and (II JMA) at Aamari, Miyako and Mariaka, Hanshu. Felt (IV) at Misawa, Hanshu. Felt (II JMA) at Tamakomai and Urakawa; (I JMA) at Hakadate, Hirao and Muraran, Hokkaida.
	22	09	30	08.5?	39.47	N	28.01	E	10	G			0.9	4	TURKEY
	22	10	26	19.6	32.062	S	70.194	W	134	*			1.0	15	CHILE-ARGENTINA BORDER REGION
	22	10	44	57.3	8.463	N	125.704	E	52	*	4.6		1.1	16	MINDANAO, PHILIPPINE ISLANDS
	22	10	51	52.1?	21.44	S	173.53	E	33	N	4.6		1.7	20	VANUATU ISLANDS REGION
	22	11	44	01.6*	24.020	N	122.507	E	33	N	4.0		1.7	6	TAIWAN REGION
	22	13	02	51.7*	45.460	N	14.193	E	10	G			1.0	8	YUGOSLAVIA. MD 2.8 (LJU), 2.4 (TRI). ML 2.3 (ZAG).
	22	13	20	19.7	44.811	N	11.955	E	10	G			1.0	26	NORTHERN ITALY. ML 3.1 (LDG). MD 3.1 (FIR), 3.1 (STR), 3.0 (TRI).
	22	14	20	35.1*	8.391	S	158.511	E	33	N	4.3		1.1	9	SOLOMON ISLANDS
	22	14	28	55.1	42.217	N	15.540	E	10	G			1.2	64	ADRIATIC SEA. ML 4.1 (LDG), 3.7 (ROM). MD 4.0 (FIR).
	22	14	49	54.8	37.370	N	9.566	E	10	G			0.9	31	TUNISIA
	22	18	00	55.8?	43.92	N	7.53	E	10	G			1.5	5	NEAR SOUTH COAST OF FRANCE
	22	18	07	28 5*	2.355	S	79.893	W	33	N	4.3		0.8	6	NEAR COAST OF ECUADOR
	22	18	12	41 6	42.142	N	15.561	E	10	G			0.7	6	ADRIATIC SEA
	22	18	51	01 3?	41.46	N	138.24	E	33	N			0.9	4	EASTERN SEA OF JAPAN
	22	19	19	00.3&	60.050	N	153.372	W	148					51	SOUTHERN ALASKA. <AGS-P>.
	22	19	32	20.2*	17.497	N	61.868	W	33	N			0.5	9	LEEWARD ISLANDS. ML 2.8 (FDF).
	22	19	53	49.6*	37.106	N	21.086	E	10	G			0.7	8	SOUTHERN GREECE. MD 3.7 (ATH).
	22	19	59	41.0	24.003	N	122.647	E	35	*	4.3		1.4	29	TAIWAN REGION

	22	20 02 38.1	23.957	N	122.610	E	38	•	4.9 5.0	1.0	45	TAIWAN REGION
	22	20 41 39.2?	24.06	S	179.47	E	635	?	4.3	1.7	8	SOUTH OF FIJI ISLANDS
	22	21 03 58.0•	0.317	N	98.603	E	60	•	4.4	1.4	26	NORTHERN SUMATERA
	22	21 18 42.7%	44.240	N	11.892	E	10	G		0.2	5	NORTHERN ITALY
	22	21 26 16.9	44.311	N	12.004	E	10	G		1.5	11	NORTHERN ITALY. ML 2.7 (KBA).
	22	22 22 29.5	6.452	S	148.935	E	57	•	4.7	0.8	15	NEW BRITAIN REGION
	22	23 24 25.6	24.360	N	123.126	E	43	•	4.3 3.9	1.2	26	SOUTHWESTERN RYUKYU ISLANDS. Felt (I JMA) on Yonaguni-jima.
	23	00 15 39.5%	39.521	N	29.120	E	10	G		0.8	5	TURKEY
	23	01 17 04.3	42.711	N	13.171	E	10	G		0.7	6	CENTRAL ITALY. MD 2.2 (SSO).
	23	01 46 02.0?	43.09	N	1.16	W	5	G		0.3	4	PYRENEES. MD 1.0 (STR).
	23	02 21 15.0&	41.708	N	112.399	W	8				5	UTAH. <SLC-P>. ML 2.4 (SLC).
	23	02 25 03.5?	8.46	S	113.63	E	33	N	4.2	1.2	11	JAVA
	23	03 06 37.6%	39.525	N	26.459	E	10	G		0.4	6	TURKEY
	23	03 59 41.6?	8.30	S	128.76	E	165	?	3.7	0.8	5	TIMOR SEA
	23	04 01 49 2•	37 250	N	28.230	E	5	G		0.6	5	TURKEY
	23	05 30 57.2	34.521	N	5.199	W	10	G		1.5	18	MOROCCO. MD 3.7 (RBA). mbLg 3.0 (MDD).
	23	05 50 40.3•	31.830	S	72.353	W	33	N		1.1	16	OFF COAST OF CENTRAL CHILE
	23	05 59 54.8?	34.55	S	70.30	W	5	G		0.4	6	CHILE-ARGENTINA BORDER REGION
	23	06 28 09.4	27.374	N	129.763	E	8	D	5.4	1.2	152	RYUKYU ISLANDS. Felt (I JMA) at Naze.
	23	06 28 52.9?	34.50	N	5.35	W	10	G		0.0	4	MOROCCO. MD 3.8 (RBA).
	23	06 45 50.7%	34.509	N	5.435	W	10	G		1.4	5	MOROCCO. MD 3.3 (RBA).
	23	07 07 17.8•	27.394	N	129.907	E	33	N	4.9	1.3	20	RYUKYU ISLANDS
	23	07 11 46.2	27.481	N	129.824	E	28	D	5.3 4.7	1.2	87	RYUKYU ISLANDS
	23	07 21 19.9&	41.711	N	112.396	W	8				13	UTAH. <SLC-P>. ML 3.2 (SLC). Felt (III) at Garland and Howell.
	23	08 09 39.2	34.510	N	5.506	W	10	G		1.0	13	MOROCCO. MD 3.5 (RBA).
	23	08 22 14.4•	24.332	S	66.066	W	33	N		0.7	5	SALTA PROVINCE, ARGENTINA
	23	09 21 35.0•	0.127	S	99.039	E	33	N	4.3	0.6	6	SOUTHERN SUMATERA
	23	10 50 46.1&	62.660	N	151.154	W	101				17	CENTRAL ALASKA. <AGS-P>.
	23	10 54 15.5?	10.31	N	60.59	W	33	N		0.3	6	TRINIDAD. MD 3.4 (TRN).
	23	11 03 38.2•	34.857	N	25.854	E	10	G		1.0	9	CRETE. MD 4.0 (ATH).
	23	11 41 20.6&	60.423	N	148.414	W	0				6	KENAI PENINSULA, ALASKA. <AGS-P>.
	23	11 54 32.8?	40.93	N	0.60	W	10	G		0.6	4	SPAIN
	23	13 06 16.1%	42.900	N	19.886	E	10	G		0 3	5	YUGOSLAVIA. MD 2 0 (TTG).
	23	13 15 41.2?	58.10	N	6.23	E	10	G		1 0	6	SOUTHERN NORWAY. MD 2.4 (BER).
	23	13 49 41.4?	27.26	N	129.81	E	33	N	4.2	1.7	5	RYUKYU ISLANDS
	23	13 56 30.2•	36.473	N	70.186	E	178	?	4.6	1.2	14	HINDU KUSH REGION
	23	13 58 43.2?	31.99	S	69.80	W	120	G		0.1	5	SAN JUAN PROVINCE, ARGENTINA
	23	14 51 54.8•	31.089	N	131.725	E	33	N		0.5	10	KYUSHU, JAPAN
a	23	15 20 43.7	52.517	N	168 095	W	33	N	5 1 5 0	1 1	197	FOX ISLANDS, ALEUTIAN ISLANDS
	23	15 41 23.5	34.459	N	138.969	E	210		4.7	0.9	34	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Utsunamiya.
	23	15 55 06.9	8.261	S	156.448	E	33	N	4.8	1.0	29	SOLOMON ISLANDS
	23	16 37 19.5&	60.005	N	152.442	W	66				16	SOUTHERN ALASKA. <AGS-P>.
	23	17 36 53.0•	52.446	N	168.127	W	33	N	4.7	1.1	59	FOX ISLANDS, ALEUTIAN ISLANDS
	23	17 50 13.3?	35.11	S	71.78	W	33	N		0.5	6	CENTRAL CHILE
	23	17 55 19.0	36.611	N	28.181	E	10	G		1 3	14	DODECANESE ISLANDS. MD 3 9 (ATH).
	23	18 05 52 4%	37.725	N	14.968	E	5	G		0.8	5	SICILY
	23	18 28 55.7?	6 72	S	105.76	E	127	?	4 3	1.1	11	SUNDA STRAIT
	23	19 43 32 8•	22 279	N	121.967	E	20		4 1	1.1	19	TAIWAN REGION
	23	19 57 27 2&	62 907	N	150.388	W	92				25	CENTRAL ALASKA. <AGS-P>.
	23	20 09 54 0?	51.53	N	167.31	W	33	N	4 6	0 9	10	FOX ISLANDS, ALEUTIAN ISLANDS
	23	20 25 22 4	52.350	N	168 025	W	33	N	5 3 4.7	1 0	218	FOX ISLANDS, ALEUTIAN ISLANDS
	23	20 27 17 6?	16 96	N	61 10	W	33	N		0.1	4	LEEWARD ISLANDS. ML 2.7 (FDF)
	23	20 31 02 6&	37.863	N	122 235	W	2				9	CENTRAL CALIFORNIA <BRK>. ML 2.5 (BRK). Mo=4 1•10••11 Nm (BRK). Felt in the northern part of Oakland near the Caldecatt Tunnel
	23	21 08 44 4?	32.28	S	71.21	W	33	N		0.6	7	NEAR COAST OF CENTRAL CHILE
	23	21 21 21.1•	52.445	N	168.077	W	33	N	4.9	1.2	41	FOX ISLANDS, ALEUTIAN ISLANDS
	23	21 36 05.9•	1.510	N	90.353	W	10	G	4.8	1.2	18	GALAPAGOS ISLANDS REGION
	23	22 08 00.6•	19.777	S	133.751	E	5	G	3.3	1.6	5	NORTHERN TERRITORY, AUSTRALIA
	23	22 14 41.5•	36.926	N	20.954	E	10	G		1.1	6	MEDITERRANEAN SEA. ML 3.2 (ATH).
	24	00 12 02.6%	39.233	N	27.918	E	10	G		1.4	6	TURKEY
	24	00 31 10.5	49.605	N	129.917	W	10	G	4.6 4.5	0.8	60	VANCOUVER ISLAND REGION
	24	00 56 57.4	11.353	N	140 574	E	56	•	4.5 4.6	1.2	46	WEST CAROLINE ISLANDS
	24	01 35 58.4?	16.33	N	101.56	W	33	N	4.0	1.7	9	NEAR COAST OF GUERRERO, MEXICO
	24	01 53 15.4?	39.33	N	27.98	E	10	G		1.3	4	TURKEY
	24	01 56 33.6&	63.091	N	150.863	W	128				14	CENTRAL ALASKA. <AGS-P>.
a	24	02 13 15.1	37.995	N	20.183	E	27		5.1 4.9	1.3	334	IONIAN SEA. ML 5.2 (ATH), 4.9 (ROM). MD 5.2 (TTG).
	24	02 17 22.8?	17.99	N	76.96	W	10	G		1.6	4	JAMAICA REGION. Felt in eastern Jamaica.
	24	02 38 16.1	37.949	N	20.104	E	41	•	4.7	1.1	79	IONIAN SEA. ML 4.1 (ATH), 4.1 (ROM), 4.0 (TTG).
	24	03 18 51.0•	38.114	N	20.792	E	10	G		0.5	5	GREECE. MD 3.2 (ATH).
	24	03 28 37.0	40.581	N	28.207	E	10	G		1.0	11	TURKEY
	24	06 56 23.8	37.978	N	20.130	E	10	G	3 9	0.8	26	IONIAN SEA. ML 3.9 (ATH).
	24	07 20 54.1?	32.59	S	71.28	W	33	N		0.5	8	NEAR COAST OF CENTRAL CHILE
	24	08 40 29.8•	36.658	N	141.531	E	5	G		1.0	9	NEAR EAST COAST OF HONSHU, JAPAN
	24	10 07 23.6	41.447	N	20.158	E	10	G		1.2	14	ALBANIA. ML 2.7 (SKO), 2.5 (TTG).
	24	10 14 22.4%	39.677	N	29.371	E	10	G		0.5	5	TURKEY
	24	11 25 46.8	5.692	S	102.680	E	33	N	4.8 4.9	1.2	42	SOUTHERN SUMATERA
	24	11 56 18.9	44.369	N	11.972	E	10	G		0.8	17	NORTHERN ITALY. MD 3.2 (FIR), 3.1 (TRI).
	24	12 29 33.3•	20.196	S	68.974	W	133	•	4.2	1.1	16	CHILE-BOLIVIA BORDER REGION
	24	12 39 59.0	44.220	N	149.221	E	38	•	5.0 3.9	0.9	78	KURIL ISLANDS
	24	12 46 28.7&	37.878	N	122.218	W	5				11	CENTRAL CALIFORNIA. <BRK>. ML 2.4 (BRK). Mo=1.4•10••12 Nm (BRK). Felt at Orindo.
	24	13 14 30.7•	14.752	N	146.055	E	33	N	4.4	0.9	13	MARIANA ISLANDS
	24	14 04 47.0	41.687	N	20.002	E	10	G		0.9	6	ALBANIA
	24	15 40 19 1%	60.564	N	5 063	E	10	G		0.3	9	SOUTHERN NORWAY. MD 1.8 (BER)
	24	15 56 59.3	41.614	N	70.899	W	5	G		0.8	14	SOUTHERN NEW ENGLAND mbLg 3.0 (NEIS). CL 3.0 (WES). Felt (V) at Fairhaven and South Dartmouth, Massachusetts. Felt (IV) at Dartmouth and New Bedford, Massachusetts. Also felt in parts of southeastern Rhode Island.

	24	16 42 57.6?	27 00	N	140.04	E	443 ?	4.3		0.6	9	BONIN ISLANDS REGION
	24	16 58 29.9*	2 551	S	22 704	E	10 G	4.5		1.0	15	ZAIRE REPUBLIC
	24	17 00 52.4*	8 541	N	94 742	E	33 N	4.1		0.3	6	NICOBAR ISLANDS REGION
	24	17 25 34.1*	6.930	N	94.775	E	33 N	4.5		1.9	8	NICOBAR ISLANDS REGION
	24	17 38 27.9	40 811	N	20.728	E	10 G	3.2		1.4	37	GREECE-ALBANIA BORDER REGION. MD 3.6 (ATH). ML 3.5 (SKO), 3.2 (TTG).
	24	18 01 49.6*	7.685	N	94.233	E	33 N	4.3		0.8	7	NICOBAR ISLANDS REGION
	24	18 11 46.5&	58.040	N	152.461	W	44				11	KODIAK ISLAND REGION. <AGS-P>.
	24	18 43 28.4?	31.60	S	69.86	W	33 N			1.5	8	SAN JUAN PROVINCE, ARGENTINA
	24	18 55 21.1	41 687	N	49.273	E	33 N	5.2		1.1	40	CASPIAN SEA. Slight damage to buildings in southern Dagestan, USSR. Felt (III) at Makhachkala, USSR.
	24	19 27 39.3	38.069	N	20.039	E	10 G	4.2		1.2	54	GREECE. ML 3.7 (ATH).
	24	19 54 19.1?	38 47	N	26.81	E	10 G			0.3	4	AEGEAN SEA
	24	20 06 41.1*	36.785	N	70.769	E	73 ?	4.5		1.2	13	HINDU KUSH REGION
	24	23 21 57.8*	51 195	N	15.845	E	10 G			1.0	8	POLAND. ML 3.6 (GRF), 3.5 (VKA).
	25	00 48 10.7&	61.729	N	151.928	W	111				27	SOUTHERN ALASKA. <AGS-P>.
	25	01 17 30.9	43.060	N	17.727	E	10 G			1.1	10	YUGOSLAVIA. ML 2.6 (TTG).
	25	01 36 15.9*	37.149	N	21.098	E	10 G			0.7	11	SOUTHERN GREECE. ML 3.4 (ATH).
	25	01 39 45.6*	24.030	N	122.524	E	45 *	4.2		1.1	20	TAIWAN REGION. ML 4.1 (BJI).
	25	02 26 01.3?	19.22	N	67.39	W	10 G			0.8	4	MONA PASSAGE
	25	02 56 17.3*	37.110	N	27.916	E	5 G			1.3	7	TURKEY
	25	03 22 03.3*	43.398	N	8.033	E	10 G			0.2	7	CORSICA. MD 1.7 (STR).
	25	03 47 27.8?	35.50	N	136.61	E	33 N			1.3	4	SOUTHERN HONSHU, JAPAN. MG 3.4 (JMA). Felt (I JMA) at Gifu.
	25	07 03 58.6?	36.68	N	70.84	E	33 N	3.9		0.4	5	HINDU KUSH REGION
	25	07 42 12.2*	16.280	N	97.578	W	33 N	4.4		1.4	23	OAXACA, MEXICO
	25	08 24 41.7*	31.674	S	72.234	W	33 N			1.3	17	OFF COAST OF CENTRAL CHILE
	25	09 02 45.1?	32.40	N	104.67	E	33 N			1.5	4	SICHUAN PROVINCE, CHINA. ML 4.0 (BJI).
	25	09 06 06.0	37.403	N	141.288	E	48 D	4.4		1.1	17	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Fukushima, Mito and Shirakawa.
	25	09 18 22.5*	16.845	N	61.049	W	33 N			0.4	9	LEEWARD ISLANDS ML 3.1 (FDF).
	25	09 19 30.3?	18.58	N	67.32	W	10 G			0.4	5	MONA PASSAGE
	25	09 30 00.9%	44.246	N	7.438	E	10 G			0.6	7	NORTHERN ITALY. ML 2.0 (GEN).
	25	09 47 44.5?	39.17	N	27.62	E	10 G			0.5	4	TURKEY
	25	10 52 10.6*	43.589	N	127.263	W	10 G	4.2		0.5	28	OFF COAST OF OREGON
	25	11 02 42.1	40.035	N	142.227	E	58 *			0.8	13	NEAR EAST COAST OF HONSHU, JAPAN. MG 3.8 (JMA). Felt (II JMA) at Miyoko.
	25	11 29 56.1?	43 98	N	7 32	E	10 G			0.3	6	NEAR SOUTH COAST OF FRANCE ML 1.8 (GEN).
	25	12 50 33.8	43.830	N	11.490	E	10 G			1.1	9	CENTRAL ITALY. MD 3.3 (FIR).
	25	14 04 58.0?	32.27	N	132.06	E	10 G			0.3	4	SHIKOKU, JAPAN
	25	14 29 08.6	43 419	N	5.421	E	10 G			1.0	16	NEAR SOUTH COAST OF FRANCE MD 2.6 (STR).
	25	14 32 55.8?	31.66	S	72.21	W	33 N			0.6	13	OFF COAST OF CENTRAL CHILE
	25	14 36 06.2&	51.568	N	159.715	W	6				10	SOUTH OF ALASKA. <PAL>.
	25	14 43 23.6	43.102	N	0.477	W	10 G			0.2	8	PYRENEES. MD 1.0 (STR).
	25	14 45 54.6*	43.189	N	0.358	W	10 G			1.1	5	PYRENEES. ML 3.4 (LDG).
	25	15 09 17.0*	36.134	S	144.526	E	10 G			1.6	5	VICTORIA, AUSTRALIA. ML 3.1 (CMS), 3.0 (TOO).
	25	15 20 14.0&	36.585	N	121.202	W	4				18	CENTRAL CALIFORNIA. <BRK>. ML 2.7 (BRK). Felt in the San Benito area.
	25	15 37 53.8	0 501	S	123.593	E	95 *	4.5		1.0	20	MINAHASSA PENINSULA
	25	16 13 35.0?	12 36	S	117.43	E	33 N	4.1		1.3	9	SOUTH OF SUMBAWA ISLAND
	25	16 16 52.5	41 898	N	19.231	E	10 G			0.5	9	ALBANIA. ML 2.2 (TTG).
	25	16 17 03.2?	46 22	N	16.03	E	10 G			0.2	4	YUGOSLAVIA
	25	16 34 53.0*	20.575	S	173.781	W	33 N	4.9		1.2	20	TONGA ISLANDS
	25	16 49 39.8&	61 315	N	150.382	W	41				32	SOUTHERN ALASKA. <AGS-P>. ML 3.2 (PMR).
	25	18 51 32.3%	43 097	N	0.461	W	10 G			0.1	6	PYRENEES. MD 1.0 (STR).
	25	19 07 44.5*	18 915	S	169.135	E	216 *	4.7		1.4	16	VANUATU ISLANDS
	25	19 17 32.7*	8.212	S	119.985	E	182 ?	4.5		1.1	9	FLORES ISLAND REGION
	25	19 29 53.8*	9.343	N	92.841	E	66 ?	4.0		1.0	6	NICOBAR ISLANDS REGION
	25	19 40 49.4	42.888	N	12.955	E	10 G			0.2	6	CENTRAL ITALY. MD 2.4 (SSO).
	25	20 06 37.9&	45.910	N	111.290	W	10				17	MONTANA. <BUT>. ML 3.6 (BUT). Felt (IV) at Townsend and (III) at Manhattan. Also felt at Belgrade.
	25	20 25 22.6	15.164	N	120.354	E	35 *	4.5		0.9	31	LUZON, PHILIPPINE ISLANDS
	25	20 40 06.4*	36.020	N	140.040	E	59 *			1.0	10	NEAR EAST COAST OF HONSHU, JAPAN. MG 3.6 (JMA). Felt (II JMA) at Utsunomiya.
	25	20 47 46.9*	31.546	N	140.018	E	123 ?	4.6		0.8	21	SOUTH OF HONSHU, JAPAN
	25	21 31 52.6%	43.107	N	0.980	W	10 G			0.4	5	PYRENEES. MD 1.0 (STR).
	25	21 56 20.8?	31.56	S	68 71	W	100 G			0.2	5	SAN JUAN PROVINCE, ARGENTINA
	25	22 04 56.6*	4.497	S	134.650	E	33 N	4.6	3.6	1.6	13	WEST IRIAN REGION
	25	23 01 20.0?	34.13	S	72.06	W	10 G			1.0	7	NEAR COAST OF CENTRAL CHILE
	25	23 58 14.9%	39.819	N	15 559	E	10 G			0.8	5	SOUTHERN ITALY
	26	00 02 48.4?	37.29	N	20 66	E	10 G			1.3	5	IONIAN SEA. MD 3.2 (ATH).
	26	00 05 11.0	40.784	N	27.751	E	10 G			1.4	25	TURKEY. MD 3.3 (ATH).
a	26	00 11 43.2	36.210	N	140.919	E	53		5.4	4.7	1.0	241	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Mito; (II JMA) at Chashi, Fukushima, Moebashi, Onohama, Shirokawa, Tokyo, Utsunamiyo and Yokohama; (I JMA) at Kumagaya.
	26	00 33 57.7	37.795	N	26 481	E	10 G				1.2	23	DODECANESE ISLANDS. ML 3.5 (ATH).
	26	00 43 30.0?	17.77	S	178 65	W	502 ?	4.5			0.7	14	FIJI ISLANDS REGION
	26	02 59 54.0*	4.295	N	76.610	W	114 *	4.6			1.3	12	COLOMBIA. MD 4.6 (UPA).
	26	03 21 36.8*	36.119	N	141.199	E	33 N	4.5			1.3	11	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Mito.
	26	04 18 54.7?	55.88	S	27.40	W	33 N	4.9			0.9	9	SOUTH SANDWICH ISLANDS REGION
	26	05 10 08.8*	50.228	N	12.511	E	10 G				0.9	5	GERMANY. ML 2.6 (FUR), 2.1 (GRF). Felt at Selb.
	26	05 12 30.7&	10.920	N	86.012	W	150					4	OFF COAST OF COSTA RICA. <HDC>. MD 4.0 (HDC).
	26	06 42 39.2	38.886	N	141.503	E	121		3.8		1.1	17	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Ishinomaki, Ofunato and Miyoko; (I JMA) at Morioka.
	26	07 56 09.9	38.006	N	20 097	E	10 G	4.3			1.2	89	GREECE. ML 4.2 (TTG), 4.2 (SKO), 4.1 (ATH).
	26	09 33 35.8?	13.64	S	167 80	E	33 N	4.4			1.0	12	VANUATU ISLANDS
	26	09 51 45.5?	45 31	N	151.13	E	33 N	4.0			1.7	7	KURIL ISLANDS
	26	10 10 00.2*	35.503	N	141.050	E	10 G				1.3	10	NEAR EAST COAST OF HONSHU, JAPAN
	26	10 59 53.2?	48.10	N	8.63	E	10 G				0.1	4	GERMANY. MD 1.0 (STR)
	26	11 11 56.2%	39.555	N	29.398	E	10 G				0.7	5	TURKEY
	26	11 18 52.3	45.629	N	14.826	E	10 G				0.9	8	YUGOSLAVIA MD 2.7 (LJU), 2.4 (TRI). ML 2.5 (ZAG). Slight damage (V) in the Klinjo Vas-Kocevje area.

	26	11 35 54.5	39.026	N	23.417	E	10	G			0.6	16	AEGEAN SEA. ML 3.2 (ATH).
	26	11 54 02 1?	27.29	S	176 43	W	33	N	4 6		1.5	9	KERMADEC ISLANDS REGION
	26	12 36 44.8?	17.40	N	61.57	W	33	N			0.3	6	LEEWARD ISLANDS. ML 2.9 (FDF).
	26	13 00 59.6	51.271	N	178.057	W	33	N	4.8		0.9	63	ANDREANOF ISLANDS, ALEUTIAN IS
	26	14 20 32 6	17.102	N	94.944	W	94	*	4.2		1.3	16	CHIAPAS, MEXICO
	26	14 24 09.3*	37.964	N	27.004	E	5	G			1.3	5	TURKEY
	26	14 40 17.6	44.320	N	11.981	E	10	G			1.2	15	NORTHERN ITALY. MD 3.2 (FIR).
	26	15 39 06.0?	5.25	S	131.98	E	33	N	4.1		1.2	11	BANDA SEA
	26	15 43 42.9*	22.794	S	68.199	W	148	*	4 7		1.8	9	NORTHERN CHILE
	26	15 53 38.4*	6.151	S	128.647	E	334	*	4.4		1.2	12	BANDA SEA
	26	16 00 51.2*	6.737	N	127.451	E	33	N	4.3		0.8	7	PHILIPPINE ISLANDS REGION
	26	16 05 41 0&	4.730	S	37.950	W	10	G				3	BRAZIL. <MACRO>. Felt at Palhano.
	26	16 37 57.7*	9.899	S	120.702	E	61	?	4.7		1.8	12	SUMBA ISLAND REGION
	26	18 16 44.5?	2.48	S	138.84	E	33	N	3.9		1.2	7	WEST IRIAN
	26	18 25 41.4&	63.166	N	149.754	W	99					24	CENTRAL ALASKA. <AGS-P>.
	26	19 23 26 1*	19.483	N	98.068	E	10	G			0.5	5	SOUTHEAST ASIA
	26	20 05 47.0	35.566	N	22.317	E	33	N	4.1		1.3	35	MEDITERRANEAN SEA. ML 3.8 (ATH).
	26	20 10 36.1	21.960	S	68.423	W	114	D	5.1		1.0	60	CHILE-BOLIVIA BORDER REGION
	26	20 11 11.3*	21.340	S	170.253	E	94	*	4 4		1.2	38	LOYALTY ISLANDS REGION
	26	21 23 19.2&	53.792	N	163.746	W	3					8	UNIMAK ISLAND REGION. <PAL>.
	26	21 25 24.0&	60.045	N	152.821	W	92					17	SOUTHERN ALASKA. <AGS-P>.
	26	21 55 58.1?	40.34	N	24.04	E	10	G			0.9	5	AEGEAN SEA
	26	23 04 27.4*	37.129	N	28.290	E	10	G			1.0	5	TURKEY
	26	23 08 00.8*	2.523	N	99.473	E	109	*	4.1		1.2	11	NORTHERN SUMATERA
	27	00 26 09.4?	31.28	S	68.70	W	101	?			0.4	6	SAN JUAN PROVINCE, ARGENTINA
	27	01 05 09.3%	41.848	N	12.774	E	10	G			0.4	5	SOUTHERN ITALY
a	27	01 21 17.9	34.921	N	26.240	E	61	D	5.0		1.2	312	CRETE
	27	01 49 35 0*	19.730	S	133.984	E	5	G			0.9	5	NORTHERN TERRITORY, AUSTRALIA
	27	02 35 55 1&	60.039	N	151.928	W	77					20	KENAI PENINSULA, ALASKA. <AGS-P>.
	27	02 37 38 0%	37.135	N	28.277	E	10	G			1 4	5	TURKEY
	27	03 00 42.2	5.892	S	150.768	E	67		5.1		0.8	42	NEW BRITAIN REGION
	27	03 52 53.9	37.642	N	20.839	E	10	G	4.5	3.9	1.3	81	IONIAN SEA. ML 4.2 (SKO), 4.1 (ATH), 3 7 (TTG).
	27	03 58 42.5	67.019	N	156.332	W	5	G			0.4	14	ALASKA. ML 3.5 (PMR).
	27	04 56 04.0	54.039	N	165.143	W	55	D	4.5		1.0	96	FOX ISLANDS, ALEUTIAN ISLANDS. Felt (III) at Unalaska.
	27	05 09 32.1&	60.083	N	152.006	W	64					22	SOUTHERN ALASKA. <AGS-P>.
	27	05 10 40.0	37.103	N	28.273	E	10	G			0.8	9	TURKEY. MD 3.4 (ATH).
	27	05 24 18.0	37.873	N	26 457	E	10	G	3.5		1.0	27	DODECANESE ISLANDS. ML 3.5 (ATH).
	27	06 47 32.7	21.853	S	179.369	W	616	*	4.6		1.0	39	FIJI ISLANDS REGION
	27	07 01 09.7	41.744	N	20.142	E	10	G			1.0	6	ALBANIA. ML 1.8 (SKO).
	27	07 07 44.4?	17.99	S	69.81	W	33	N			1.1	5	PERU-BOLIVIA BORDER REGION
	27	07 34 30.5?	18.16	N	67.06	W	33	N			0.7	5	MONA PASSAGE
	27	07 44 08.1%	37.837	N	15.064	E	10	G			0.8	8	SICILY
	27	08 00 33.5*	39 624	N	19.408	E	10	G			1.2	5	GREECE-ALBANIA BORDER REGION. MD 2.9 (ATH).
	27	08 08 56.2%	32.924	S	68.941	W	10	G			0.5	6	MENDOZA PROVINCE, ARGENTINA
	27	08 16 44.8?	31.23	S	68.42	W	90	?			0.3	5	SAN JUAN PROVINCE, ARGENTINA
	27	09 17 06.9	44.026	N	11.645	E	10	G			0.3	8	NORTHERN ITALY. MD 3.1 (FIR).
	27	09 27 54.1	36 049	N	139.638	E	33	N			0.5	9	HONSHU, JAPAN. MG 3.6 (JMA). Felt (I JMA) at Utsunomiya.
	27	09 34 18.8	40.014	N	23 790	E	10	G			1.0	9	GREECE
	27	09 53 57.4	26.320	S	27 204	E	5	G			1.3	8	REPUBLIC OF SOUTH AFRICA. ML 3.1 (PRE).
	27	10 14 46.2	40.656	N	22.413	E	10	G			0.8	20	GREECE. MD 3.2 (ATH). ML 2.8 (SKO).
	27	10 22 22 1?	31.07	S	68.76	W	100	G			0 8	5	SAN JUAN PROVINCE, ARGENTINA
	27	10 30 50 1*	41.626	N	19.464	E	10	G			1.2	6	ALBANIA. ML 2.2 (TTG).
	27	10 53 20 9	46.390	N	12 966	E	10	G			0.9	12	NORTHERN ITALY. MO 3 1 (LJU) ML 2.6 (KBA).
	27	11 07 10 3?	48 98	S	123.78	E	10	G	4 6	4 0	1 5	13	SOUTH OF AUSTRALIA
	27	11 10 59 3?	39 66	N	29.35	E	10	G			0.2	4	TURKEY
	27	11 11 07 7&	62 802	N	149.131	W	68					18	CENTRAL ALASKA. <AGS-P>.
	27	11 31 23 7?	39 71	N	29.22	E	10	G			1.8	4	TURKEY
	27	12 41 29 5*	17.616	S	70.453	W	119	*	4.9		1.5	23	NEAR COAST OF PERU. Felt (II) at Arequipa.
	27	13 01 32 0%	31.609	S	69.375	W	124	?			0.7	7	SAN JUAN PROVINCE, ARGENTINA
	27	14 35 25.8?	31.37	S	68.62	W	87	?			0.0	5	SAN JUAN PROVINCE, ARGENTINA
	27	15 20 45.7	20.357	N	98.813	E	9		4.5	4.3	0.9	26	BURMA. Felt in Chiang Mai and Chiang Rai Provinces, Thailand.
	27	16 40 01.9?	39.10	N	27.71	E	10	G			0.5	4	TURKEY
	27	16 42 26.8?	15.81	N	60.73	W	33	N			0.3	5	LEEWARD ISLANDS. ML 2.3 (FDF).
	27	18 08 05.9%	37.840	N	14.956	E	10	G			0.8	6	SICILY
	27	18 34 28.9	33.891	N	135.779	E	33	N			0.7	12	NEAR S. COAST OF SOUTHERN HONSHU. MG 3.6 (JMA). Felt (I JMA) at Owase.
	27	20 08 08.6%	39.637	N	27.818	E	5	G			1.2	7	TURKEY
	27	20 30 14.1*	34.911	N	139.282	E	5	G			0.9	6	NEAR S. COAST OF HONSHU, JAPAN. MG 3.1 (JMA). Felt (I JMA) on Oshima.
	27	20 58 13.1?	31 40	S	68.67	W	100	?			0.6	5	SAN JUAN PROVINCE, ARGENTINA
	27	21 16 56.2?	31.42	S	69.05	W	98	?			0.3	5	SAN JUAN PROVINCE, ARGENTINA
	27	21 20 01.0?	16.10	N	100.16	W	33	N			0.3	5	NEAR COAST OF GUERRERO, MEXICO
	28	00 02 43.2&	11.102	N	85.687	W	159					6	NICARAGUA. <HDC>. MD 4.2 (HDC).
	28	00 55 22.4	3.197	S	130.446	E	35	*	4.8	4.3	1.2	43	CERAM
	28	01 25 26.0?	27.15	N	128.65	E	52	?	5.0		1.3	20	RYUKYU ISLANDS. Felt (I JMA) at Naze.
	28	03 10 14.6?	31.08	S	69.70	W	120	G			0.3	6	SAN JUAN PROVINCE, ARGENTINA
	28	03 56 11.9%	38.729	N	5.778	W	10	G			0.3	5	SPAIN. mbLg 3.1 (MDD).
	28	04 14 06.4&	62.502	N	149.316	W	62					27	CENTRAL ALASKA. <AGS-P>.
	28	04 27 58.0%	43.940	N	7.974	E	10	G			0.6	6	NEAR SOUTH COAST OF FRANCE. ML 1.5 (GEN).
	28	04 35 34.2	39 067	N	20.392	E	13				1.1	16	GREECE-ALBANIA BORDER REGION. MD 3.3 (ATH).
	28	04 41 37.8%	0.054	N	78.396	W	33	N			1.0	5	COLOMBIA-ECUADOR BORDER REGION
	28	05 13 35.3*	37.061	N	28.237	E	10	G			1.3	5	TURKEY
	28	06 35 16 5%	40.456	N	23.115	E	10	G			0.8	6	GREECE
	28	07 56 20 4	40.774	N	29 045	E	10	G			0.8	6	TURKEY
	28	08 06 18 4?	4 51	S	38.32	W	10	G			0.4	4	BRAZIL Slight damage in the Palhano-Chorozinho-Sao Joao do Jaguaribe area.
	28	08 06 28.3?	39.05	N	27.59	E	10	G			1.3	4	TURKEY
	28	08 11 48.6&	59.903	N	153 273	W	127		4.2			56	SOUTHERN ALASKA. <AGS-P>.
	28	08 14 11.9	41.926	N	20.347	E	10	G			1.1	14	ALBANIA. ML 2.7 (TTG).
	28	08 14 30.0*	17.854	S	69.823	W	140	*	4.2		0.5	7	PERU-BOLIVIA BORDER REGION
	28	08 43 51.7	2.904	N	128.551	E	33	N	4.7		0.9	23	HALMAHERA

	28	09	44	45.4*	40.417	N	21.681	E	10	G		1.0	6	GREECE. MD 3.4 (ATH).
	28	10	30	53.6?	16.83	N	100.09	W	33	N		1.6	4	NEAR COAST OF GUERRERO, MEXICO
	28	10	32	53.1*	11.096	N	62.048	W	104	?		0.2	16	WINDWARD ISLANDS. MD 3.8 (TRN). Felt on Trinidod.
	28	10	40	33.4	40.405	N	21.850	E	10	G		0.6	7	GREECE. MD 3.6 (ATH).
	28	12	55	04.7%	32.041	N	35.274	E	10	G		0.2	7	DEAD SEA REGION
	28	13	30	05.4%	42.628	N	0.312	W	10	G		0.3	8	PYRENEES. MD 1.5 (STR).
	28	13	35	59.8&	37.383	N	118.563	W	12				18	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.2 (BRK).
	28	14	17	20.9?	63.35	N	10.26	E	10	G		0.6	4	SOUTHERN NORWAY. MD 1.3 (BER).
	28	14	20	00.1%	60.643	N	6.247	E	10	G		0.8	8	SOUTHERN NORWAY. MD 1.6 (BER).
	28	14	57	17.6*	24.049	S	179.697	W	561	?	4.7	1.1	34	SOUTH OF FIJI ISLANDS
	28	15	14	28 7?	50.02	N	5.78	E	10	G		1 7	4	BELGIUM
	28	16	06	19.6?	10.58	N	62.54	W	33	N		1 0	14	NEAR COAST OF VENEZUELA. MD 3.5 (TRN).
	28	18	52	37.3	42.094	N	20.661	E	5	G		1.2	22	YUGOSLAVIA. ML 3.3 (SKO), 2.7 (TTG).
	28	19	08	37.9%	60.432	N	5.349	E	10	G		0.8	8	SOUTHERN NORWAY. MD 1.5 (BER).
	28	19	08	55.9*	29.160	N	80.787	E	33	N	3.9	1.6	8	NEPAL-INDIA BORDER REGION. Felt in western Nepal.
	28	22	37	57.2%	31.453	S	69.466	W	100	G		0.3	6	SAN JUAN PROVINCE, ARGENTINA
	28	23	22	48.9	41.739	N	12.703	E	18			0.8	47	SOUTHERN ITALY. MD 4.1 (TRI).
	29	00	34	39.1?	7.81	S	128.63	E	154	?	4.6	0.7	6	BANDA SEA
	29	01	19	33.5*	43.940	N	11.826	E	10	G		0.3	5	CENTRAL ITALY. MD 2.9 (FIR).
	29	02	13	59.7*	36.179	S	72.374	W	33	N		0.9	19	NEAR COAST OF CENTRAL CHILE
	29	02	57	10.0*	13.587	S	76.383	W	33	N		1.1	12	NEAR COAST OF PERU. Felt (IV) at Chincha, Ica and Nono.
	29	04	02	44.4*	54.081	N	163.232	W	33	N	4.3	1.4	18	UNIMAK ISLAND REGION
a	29	04	16	23.0	18.039	N	105.667	W	21	G	5.7 6.6	1.2	214	OFF COAST OF JALISCO, MEXICO. Ms 6.7 (BRK), 6.4 (PAS). Mo=1.3*10**19 Nm (PPT). Felt along the coast of Jolisco. Also felt at Guodolajaro and in the southern port of the Mexico City areo. Depth from broodbond displacement seismograms.
	29	04	25	27 8&	60.081	N	152.084	W	60				17	SOUTHERN ALASKA. <AGS-P>.
	29	04	31	30 0?	42.08	N	7.52	W	10	G		0.0	4	SPAIN. mbLg 2.8 (MDD).
	29	05	22	20.4*	5.623	S	149.650	E	142	*	4.5	1.2	14	NEW BRITAIN REGION
	29	05	23	01 3?	18.27	S	178 41	W	631	?	4.5	0.8	27	FIJI ISLANDS REGION
	29	06	10	12.3*	40.881	S	71.500	W	138	*	4.6	1.2	34	S. CHILE-ARGENTINA BORDER REGION
	29	06	59	09.0&	38.812	N	122.777	W	6				25	NORTHERN CALIFORNIA. <BRK>. ML 3.9 (BRK). Mo=2.9*10**14 Nm (BRK). Felt (V) at Loch Lomond and (IV) at Cobb and Middletown. Also felt at Cleor Lake Pork.
	29	10	06	59.5*	21.918	S	67.502	W	182	?		1.5	7	CHILE-BOLIVIA BORDER REGION
	29	10	33	22.1*	43.843	N	126.092	W	10	G		0.5	28	OFF COAST OF OREGON. CL 3.0 (SEA).
	29	12	17	48.7	17.986	N	105.665	W	33	N	4.8 4.3	1.2	45	OFF COAST OF JALISCO, MEXICO. Ms 4.4 (BRK).
	29	12	29	30.1%	61.167	N	10.134	E	10	G		1.4	7	SOUTHERN NORWAY. MD 2.0 (BER).
	29	13	03	32.2?	40.28	N	125.46	W	10	G		0.4	5	OFF COAST OF NORTHERN CALIFORNIA. ML 3.3 (BRK).
	29	13	49	41 3%	60 638	N	6.209	E	10	G		0 8	8	SOUTHERN NORWAY. MD 1.8 (BER).
	29	13	56	00.4?	15.07	N	98.57	W	33	N		1.2	4	OFF COAST OF GUERRERO, MEXICO
	29	14	18	09.8*	40.318	N	33.287	E	10	G		0.9	6	TURKEY
	29	14	34	57.5?	39.10	N	27.69	E	10	G		0.1	4	TURKEY
	29	14	50	38.3?	16.06	N	98.61	W	33	N	3.8	1.4	6	NEAR COAST OF GUERRERO, MEXICO
a	29	15	30	38.6	48.172	N	147.578	E	408	D	4.8	0.8	137	SEA OF OKHOTSK
	29	16	12	39.4	32.986	N	141.286	E	53	*	5.3 4.0	1.3	44	SOUTH OF HONSHU, JAPAN
	29	16	30	26.1?	58.80	N	5.93	E	10	G		1.6	4	SOUTHERN NORWAY. MD 1.7 (BER).
	29	17	06	52 9%	39.122	N	27 602	E	10	G		0.4	5	TURKEY
	29	18	01	45.2*	29 219	S	177.374	W	157	?	4.6	0.8	20	KERMADEC ISLANDS
	29	19	57	20.1	61.714	N	150.711	W	78	?		0 7	8	SOUTHERN ALASKA
	29	21	46	19.6*	23 895	S	66 604	W	220		4.3	0 6	8	JUJUY PROVINCE, ARGENTINA
	30	02	24	18.7%	9 721	N	84.045	W	10			0 4	13	COSTA RICA. MD 2.9 (HDC). Felt (III) at Lucha and Cedrol and (II) at Tobosi.
o	30	03	06	55 1	54 597	N	162 793	E	31	D	5.5 5.2	1 0	230	NEAR EAST COAST OF KAMCHATKA
	30	03	30	38 1?	5.33	N	125.59	E	132	?	4.1	1.6	7	MINDANAO, PHILIPPINE ISLANDS
	30	03	55	06.4&	60.474	N	151.389	W	46				22	KENAI PENINSULA, ALASKA. <AGS-P>.
	30	04	22	45.6?	30.76	S	178.13	W	165	?	4.4	1.4	11	KERMADEC ISLANDS
	30	05	37	01.3	51.804	N	178.800	W	33	N	4 9	0 9	46	ANDREANOF ISLANDS, ALEUTIAN IS. Felt (IV) on Adok.
	30	05	49	46.7*	36.810	N	141.527	E	49	*	4.5	1.0	21	NEAR EAST COAST OF HONSHU, JAPAN
	30	06	05	06.8	51.355	N	157.960	E	52	D	5.0	0.9	145	NEAR EAST COAST OF KAMCHATKA
	30	06	09	52.7?	35.50	N	26.86	E	5	G		1.6	4	CRETE. MD 3.7 (ATH).
	30	06	31	50.3?	30 65	S	178.22	W	154	?	4.8	1.3	12	KERMADEC ISLANDS
	30	06	59	36.2	6.177	S	128.054	E	379	*	4.8	1.2	36	BANDA SEA
	30	07	34	27.1%	37.720	N	15.000	E	10	G		0.6	5	SICILY
	30	07	59	03.2%	39.030	N	28.647	E	10	G		1.2	6	TURKEY
	30	08	02	03.8?	31.03	S	177.53	W	83	?	4.9	1.5	20	KERMADEC ISLANDS REGION
	30	08	52	11.5	35 192	N	3.791	W	15			1.2	16	STRAIT OF GIBRALTAR. MD 3.8 (RBA). mbLg 3.4 (MDD).
	30	08	56	25.0?	8.22	S	129.23	E	193	?	4.3	1.3	7	TIMOR SEA
	30	09	07	01.1*	6.740	N	73.563	W	188		4.4	1.0	11	NORTHERN COLOMBIA
	30	09	09	54 1	41.979	N	20.312	E	10	G		1.2	54	ALBANIA. ML 3.7 (SKO). MD 3.6 (TTG). Felt slightly at Kukes and Puke.
	30	09	25	21.3*	29.372	N	128.758	E	33	N		1.0	10	EAST CHINA SEA
	30	09	30	16.6%	60.715	N	5 558	E	10	G		0.6	7	SOUTHERN NORWAY. MD 2.0 (BER).
	30	10	32	09.0*	17.391	N	61.857	W	49	*		0.5	12	LEEWARD ISLANDS. ML 3.6 (FDF). MD 3.4 (TRN).
	30	11	16	20.4*	15.160	S	167.526	E	125	*	4.4	1.3	32	VANUATU ISLANDS
	30	11	19	03.4?	18.58	S	178.01	W	609	?	4.6	0.8	19	FIJI ISLANDS REGION
	30	11	28	19.2?	10.27	N	62.04	W	10	G		0.6	4	NEAR COAST OF VENEZUELA
a	30	11	38	12 7	55 609	N	161.358	E	73	G	5.8	1.0	412	NEAR EAST COAST OF KAMCHATKA. Depth from broodbond displacement seismograms.
	30	11	43	24 2	42 063	N	7.454	W	10	G		1.0	14	SPAIN. mbLg 3.8 (MDD). Felt (III) in the Loza areo.
	30	12	10	56.4*	1.518	N	125.933	E	75	*	4.9	1.2	16	MOLUCCA PASSAGE
	30	12	12	07.7?	32.23	S	178.96	W	33	N	4.4	1.0	11	SOUTH OF KERMADEC ISLANDS
	30	13	43	34 6%	60.612	N	6.197	E	10	G		0.7	7	SOUTHERN NORWAY. MD 1.7 (BER).
	30	13	46	50.2	40.263	N	25.811	E	10	G		0.8	8	AEGEAN SEA
	30	16	10	56.3?	43.34	N	6.38	E	10	G		0.3	8	NEAR SOUTH COAST OF FRANCE
o	30	16	25	29 7	5.625	N	127.186	E	93		5 1	1.1	119	PHILIPPINE ISLANDS REGION
	30	17	04	26.3*	42 740	N	13 906	E	10	G		0.5	6	CENTRAL ITALY. MD 2 8 (SSO).
	30	18	16	49 7?	43.39	N	5.66	E	10	G		0.4	9	NEAR SOUTH COAST OF FRANCE
	30	18	39	08 0&	33.930	N	116.600	W	13				14	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS). Felt (IV) at Cobazon and (III) at North Palm Springs. Also felt at Palm Springs.
	30	19	06	44.2&	59.810	N	152.958	W	105				27	SOUTHERN ALASKA. <AGS-P>.

	30	19 12 38.1?	2.60	S	79.95	W	33 N		0.9	7	NEAR COAST OF ECUADOR
	30	19 19 40.9	4.703	S	133.884	E	33 N	4.6	1.3	17	WEST IRIAN REGION
	30	19 22 33.4?	30.28	N	68.67	E	33 N	4.2	1.5	5	PAKISTAN
	30	19 36 39.4%	47.222	N	0.051	E	10 G		1.4	9	FRANCE. ML 2.5 (LDG).
	30	20 03 26.4?	45.15	N	0.25	W	5 G		1.2	5	FRANCE. ML 2.3 (LDG).
	30	20 40 26.9?	30.89	N	140.38	E	120 G	4.9	1.0	9	SOUTH OF HONSHU, JAPAN
	30	21 30 11.0%	37.716	N	15.051	E	10 G		1.0	7	SICILY
	30	21 43 22.4*	2.255	N	78.587	W	10 G		0.4	9	NEAR WEST COAST OF COLOMBIA
	30	23 31 39.4?	33.75	S	71.52	W	10 G		1.1	8	NEAR COAST OF CENTRAL CHILE
	30	23 53 57.6?	7.10	S	154.86	E	51 ?	4.3	1.6	7	SOLOMON ISLANDS
	31	00 31 56.9	37.932	N	20.164	E	10 G	3.3	1.3	16	IONIAN SEA. ML 3.5 (ATH).
	31	01 00 49.9&	37.482	N	121.820	W	7			7	CENTRAL CALIFORNIA. <BRK>. ML 3.0 (BRK). Mo=1.1*10**14 Nm (BRK).
	31	02 10 58.9	24.127	S	66.981	W	190	4.6	1.4	19	SALTA PROVINCE, ARGENTINA
	31	02 30 16.9%	45.030	N	0.146	W	10 G		1 6	9	FRANCE. ML 2.7 (LDG).
	31	03 47 28.9	18.337	N	120.482	E	71 *	4.6	1.1	26	LUZON, PHILIPPINE ISLANDS
	31	04 02 38.3&	47.547	N	108.948	W	5 G			9	MONTANA. <BUT>. ML 3.0 (BUT).
	31	05 58 25.1	43.881	N	7.778	E	10 G		0.2	10	NEAR SOUTH COAST OF FRANCE. ML 2.0 (GEN). MD 1.3 (STR).
	31	08 17 22.5	41.850	S	71.678	W	154 D	5.4	1.2	84	S. CHILE-ARGENTINA BORDER REGION
	31	09 21 42.7?	58.14	N	6.20	E	10 G		0.5	7	SOUTHERN NORWAY. MD 2.1 (BER).
	31	09 45 20.6%	31.932	S	68.969	W	115 ?		0.3	7	SAN JUAN PROVINCE, ARGENTINA
a	31	11 04 58.6	0.174	S	17.801	W	10 G	5.4 4.7	0.9	134	NORTH OF ASCENSION ISLAND
	31	11 54 57.8&	60.144	N	150.809	W	82			9	KENAI PENINSULA, ALASKA. <AGS-P>.
	31	13 45 56.3%	43.815	N	7.232	E	10 G		0.2	7	NEAR SOUTH COAST OF FRANCE. ML 2.0 (GEN).
	31	13 48 36.2	7.495	S	128.193	E	144 *	4.5	1.4	34	BANDA SEA
	31	14 42 13.4%	60.438	N	5.317	E	5 G		0.3	5	SOUTHERN NORWAY. MD 1.0 (BER).
	31	15 47 14.9*	41.939	N	20.643	E	5 G		1.5	6	ALBANIA. ML 2.7 (SKO).
	31	16 02 10.2	3.879	N	76.059	W	131	4.6	0.6	20	COLOMBIA. Felt in Valle del Cauca Department.
	31	17 30 55.0&	35.750	N	118.030	W	5			10	CENTRAL CALIFORNIA. <PAS-P>. ML 3.1 (PAS), 3.3 (BRK).
	31	18 43 37.1	37.591	N	20.842	E	10 G	3.9	1.3	46	IONIAN SEA. ML 3.7 (ATH).
	31	19 39 46.3*	62.722	N	151.377	W	33 N		1.2	6	CENTRAL ALASKA
	31	19 54 41.6	28.767	N	99.721	E	33 N	4.3	1.3	17	YUNNAN PROVINCE, CHINA. ML 4.1 (BJI).
	31	21 29 31.1	38.087	N	21.737	E	33 N	4.4 3.7	1.3	133	GREECE. MD 4.5 (ATH). ML 4.4 (TTG), 4.3 (ROM).
	31	22 19 57.1?	37.42	N	20.79	E	10 G		1.1	12	IONIAN SEA. MD 3.3 (ATH).

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 18 04.89 4.511S 139.022E 14km
6.0mb (39 abs.) 5.8Msz (21 abs.)
WEST IRIAN
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=142 Dip=77 Slip= 90
NP2: 322 13 90
Principal Axes:
T Plg=58 Azm= 52
P 32 232
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
RADIATED ENERGY
No. of sto: 11 Focal mech. F
Energy 0.5±0.1*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 3 No. of sto: 14
Principal Axes:
Scale 10**18 Nm
T Val= 3.22 Plg=46 Azm= 79
N 0.06 19 328
P -3.28 38 223
Best Double Couple:Mo=3.3*10**18
NP1:Strike=252 Dip=19 Slip= 13
NP2: 149 86 109
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 32C
Centroid Location:
Origin Time 00:18:11.8 0.4
Lat 4 67S 0.04 Lon 138.89E 0.04
Dep 50.2 3.4 Half-duration 3.5
Principal Axes:
Scale 10**18 Nm
T Val= 1.30 Plg=15 Azm=324
N 0.88 74 123
P -2.18 5 232
Best Double Couple:Mo=1.7*10**18
NP1:Strike= 7 Dip=76 Slip= 173
NP2. 99 83 14

01 05 24 51.75 11.618S 164.686E 33km
5.6mb (26 obs.) 5.3Msz (15 obs.)
SANTA CRUZ ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used. GDSN
L.P.B. 17S, 36C
Centroid Location:
Origin Time 05:24:56.1 0.2
Lat 11.86S 0.03 Lon 164.56E 0.03
Dep 17.2 1.6 Half-duration 3.3
Principal Axes:
Scale 10**17 Nm
T Val= 9.37 Plg= 8 Azm=257
N -1.36 12 166
P -8.01 75 19
Best Double Couple:Mo=8.7*10**17
NP1:Strike= 1 Dip=39 Slip= -70
NP2: 157 54 -105

01 15 03 53.41 21.952S 170.568E 61km
5.3mb (21 obs)
LOYALTY ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B 13S, 26C
Centroid Location
Origin Time 15 04: 4.4 0.6
Lat 21.85S 0.06 Lon 169.64E 0.04
Dep 65 9 3.8 Half-duration 1.7
Principal Axes.
Scale 10**16 Nm
T Val= 11.30 Plg=20 Azm=320
N -1.59 57 85
P -9.72 25 221
Best Double Couple:Mo=1.1*10**17
NP1:Strike= 2 Dip=57 Slip=-176
NP2: 270 87 -33

01 23 27 52.39 3.660S 150.695E 10km
5.2mb (18 abs.) 5.5Msz (15 obs.)
NEW IRELAND REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 32C
Centroid Location:
Origin Time 23:27:58.0 0.3
Lat 3.61S 0.04 Lon 150.70E 0.03
Dep 15.0 FIX Half-duration 2.8
Principal Axes:
Scale 10**17 Nm
T Val= 4.32 Plg= 7 Azm=312
N 0.50 82 157
P -4.82 3 43
Best Double Couple:Mo=4.6*10**17
NP1:Strike= 88 Dip=83 Slip= 3
NP2: 357 87 173

02 03 37 28.07 2.686S 127.312E 29km
5.6mb (30 abs.) 5.0Msz (12 obs.)
CERAM SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 30C
Centroid Location:
Origin Time 03:37:31.3 0.3
Lat 2.49S 0.04 Lon 126.93E 0.04
Dep 60 8 3.8 Half-durotion 2.6
Principal Axes:
Scale 10**17 Nm
T Val= 4.36 Plg=14 Azm=320
N -0.10 76 155
P -4.26 4 51
Best Double Couple:Mo=4.3*10**17
NP1:Strike= 96 Dip=78 Slip= 7
NP2: 5 83 167

02 10 24 21.29 2.774N 96.143E 29km
5.1mb (38 obs.) 4.9Msz (8 obs.)
NORTHERN SUMATERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 18C
Centroid Location:
Origin Time 10:24:29.0 0.8
Lat 2.66N 0.07 Lon 95.92E 0.08
Dep 50.8 4.1 Half-duration 1.8
Principal Axes:
Scale 10**16 Nm
T Val= 10.10 Plg=63 Azm= 7
N 3.12 16 132
P -13.23 21 229
Best Double Couple:Mo=1.2*10**17
NP1:Strike=345 Dip=28 Slip= 126
NP2: 125 67 72

03 02 24 20.48 1.009N 126.100E 66km
5.3mb (25 abs.)
MOLUCCA PASSAGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 30C
Centroid Location:
Origin Time 02:24:22.3 0.5
Lat 1.01N 0.05 Lon 126.01E 0.04
Dep 42.4 3.2 Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.95 Plg=71 Azm=346
N -0.05 17 194
P -1.90 9 102
Best Double Couple:Mo=1.9*10**17
NP1:Strike=173 Dip=39 Slip= 63
NP2: 26 56 110

03 04 09 48.06 32.456N 137.346E 418km
5.2mb (64 obs.)
SOUTH OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 22C
Centroid Location:
Origin Time 04:09:46.0 0.8

Lat 32.43N 0.08 Lon 137.69E 0.09
Dep 403.7 5.0 Holf-duration 1.9
Principol Axes:
Scole 10**17 Nm
T Vol= 1.27 Plg=33 Azm= 46
N 0.20 56 208
P -1.47 9 310
Best Double Couple:Mo=1.4*10**17
NP1:Strike= 83 Dip=61 Slip= 162
NP2: 182 74 30

03 07 42 40.84 43.522N 45.362E 18km
5.0mb (57 obs.) 5.0Msz (5 obs.)
EASTERN CAUCASUS
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 13S, 20C
Centroid Locotion:
Origin Time 07:42:43.5 0.7
Lot 43.43N 0.08 Lon 45.26E 0.12
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scole 10**16 Nm
T Vol= 6.04 Plg=83 Azm= 75
N 0.41 6 285
P -6.45 3 194
Best Double Couple:Mo=6.3*10**16
NP1:Strike=278 Dip=42 Slip= 81
NP2: 110 49 98

03 11 07 17.97 59.994S 26.680W 33km
5.7mb (14 obs.) 5.7Msz (5 obs.)
SOUTH SANDWICH ISLANDS REGION
FAULT PLANE SOLUTION: P-Woves
NP1:Strike=306 Dip=70 Slip= 22
NP2: 208 69 159
Principol Axes:
T Plg=29 Azm=167
P 0 77
Comment: The focol mechonism is poorly controlled and corresponds to strike-slip foulting with o moderate reverse component. The preferred foult plane is not determined.
MOMENT TENSOR SOLUTION
Dep 6 No. of sto: 5
Principol Axes:
Scole 10**18 Nm
T Vol= 1.17 Plg=36 Azm=177
N -0 15 47 320
P -1.02 19 72
Best Double Couple:Mo=1.1*10**18
NP1 Strike=208 Dip=49 Slip= 166
NP2. 308 79 42
CENTROID, MOMENT TENSOR (HRV)
Dato Used: GDSN
L.P.B : 11S, 21C
Centroid Location:
Origin Time 11:07:23.2 0.7
Lot 60.53S 0.08 Lon 26.04W 0.22
Dep 15.0 FIX Half-duration 2.9
Principal Axes:
Scole 10**17 Nm
T Vol= 6.13 Plg=42 Azm=173
N 0.38 29 292
P -6.51 35 44
Best Double Couple:Mo=6.3*10**17
NP1:Strike=193 Dip=29 Slip= 171
NP2: 290 86 61

03 11 31 20.43 23.043N 121.965E 11km
5.9mb (84 obs.) 6.4Msz (12 obs.)
TAIWAN
FAULT PLANE SOLUTION: P-Woves
NP1:Strike=130 Dip=87 Slip= 5
NP2: 40 85 177
Principol Axes:
T Plg= 6 Azm=355
P 1 265
Comment: The focal mechonism is moderately well controlled ond corresponds to strike-slip foulting with o small reverse component. The preferred foult plone is not determined.
RADIATED ENERGY
No. of sto: 7 Focol mech. F
Energy 0.1±0.1*10**16 Nm
MOMENT TENSOR SOLUTION
Dep 51 No. of sto: 11
Principal Axes:
Scole 10**19 Nm
T Vol= 1.02 Plg= 3 Azm=165
N 0.00 77 269
P -1.02 13 74
Best Double Couple:Mo=1.0*10**19
NP1:Strike=210 Dip=79 Slip=-173
NP2: 119 83 -11
CENTROID, MOMENT TENSOR (HRV)
Dato Used: GDSN
L.P.B.: 10S, 27C M.W.: 15S, 31C
Centroid Locotion:
Origin Time 11:31:22.5 0.1
Lat 22.86N 0.01 Lon 121.80E 0.02
Dep 15.0 FIX Holf-durotion 6.1
Principal Axes:
Scole 10**18 Nm
T Vol= 4.76 Plg=11 Azm=187
N 0.13 66 71
P -4.90 21 282
Best Double Couple:Mo=4.8*10**18
NP1:Strike=323 Dip=67 Slip= -7
NP2: 56 84 -157

03 22 25 55.46 22.531S 179.129E 592km
5.5mb (38 obs.)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Dato Used: GDSN
L.P.B.: 14S, 29C
Centroid Locotion
Origin Time 22:26. 2.6 0.2
Lat 22.29S 0.03 Lon 178.93E 0.03
Dep 620.9 1.5 Half-duration 3.3
Principol Axes:
Scole 10**17 Nm
T Vol= 12.06 Plg= 6 Azm= 37
N -4.27 37 303
P -7.79 53 135
Best Double Couple:Mo=9.9*10**17
NP1:Strike=160 Dip=50 Slip= -40
NP2: 278 61 -133

04 04 28 43.77 12.103N 120.847E 33km
5.0mb (18 obs.) 4.9Msz (8 obs.)
MINDORO, PHILIPPINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Dato Used GDSN
L P B : 11S, 16C
Centroid Location:
Origin Time 04:28 41 3 0.6
Lat 11.97N 0.06 Lon 121 02E 0.11
Dep 27 2 6 2 Half-durotion 1 7
Principal Axes:
Scole 10**16 Nm
T Vol= 10.79 Plg=21 Azm= 1
N -3.12 56 126
P -7.68 25 261
Best Double Couple:Mo=9.2*10**16
NP1 Strike= 42 Dip=56 Slip=-177
NP2: 310 87 -34

05 06 55 50.99 76.118N 134.578E 10km
5.3mb (64 obs.) 5.0Msz (8 obs.)
LAPTEV SEA
CENTROID, MOMENT TENSOR (HRV)
Dato Used: GDSN
L.P.B.: 18S, 35C
Centroid Locotion:
Origin Time 06:55:56.7 0.3
Lat 75.72N 0.05 Lon 133.90E 0.20
Dep 15.0 FIX Holf-durotion 1.9
Principol Axes:
Scole 10**17 Nm
T Vol= 1.28 Plg= 5 Azm=260
N 0.06 2 350
P -1.34 85 104
Best Double Couple:Mo=1.3*10**17
NP1:Strike=348 Dip=40 Slip= -93
NP2: 172 50 -87

05 23 30 31.92 33.221N 140.794E 56km
5.2mb (40 obs.)
SOUTH OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 10S, 17C
Centroid Locotion:
Origin Time 23:30:39.5 0 9
Lat 33.80N 0.12 Lon 140.06E 0.08
Dep 57.0 FIX Holf-durotion 1 5
Principol Axes:
Scole 10**16 Nm
T Vol= 3.72 Plg=71 Azm=190
N -0.36 15 331
P -3.36 11 64
Best Double Couple:Mo=3.5*10**16
NP1.Strike=172 Dip=36 Slip= 115
NP2: 322 58 72

06 06 36 29.16 1.883N 128.251E 114km
5.7mb (51 obs.)
HALMAHERA
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 14S, 28C
Centroid Locotion:
Origin Time 06:36:29.8 0.2
Lot 2.05N 0.02 Lon 128.04E 0.03
Dep 114.0 1.4 Half-duration 2.9
Principol Axes:
Scole 10**17 Nm
T Vol= 6.02 Plg=84 Azm= 44
N 0.11 2 290
P -6.13 5 200
Best Double Couple:Mo=6.1*10**17
NP1:Strike=288 Dip=40 Slip= 87
NP2. 112 50 93

06 07 43 39.15 1.093N 126.307E 50km
5.3mb (26 obs.) 5.0Msz (2 obs.)
MOLUCCA PASSAGE
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 12S, 25C
Centroid Locotion:
Origin Time 07:43:39.4 0.6
Lot 0.96N 0.09 Lon 126.00E 0.10
Dep 36.0 6.0 Holf-duration 1.5
Principal Axes:
Scole 10**16 Nm
T Vol= 8.07 Plg=77 Azm=288
N 0.60 4 35
P -8.67 13 126
Best Double Couple:Mo=8.4*10**16
NP1:Strike=222 Dip=32 Slip= 97
NP2: 33 58 85

06 13 17 43.37 59.939N 140.475W 10km
5.3mb (48 obs.) 5.2Msz (6 obs.)
SOUTHEASTERN ALASKA
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P B : 17S, 29C
Centroid Locotion.
Origin Time 13:17:53.4 0.5
Lot 60.18N 0 07 Lon 140.82W 0.13
Dep 15.0 BDY Holf-duration 1.8
Principol Axes:
Scole 10**16 Nm
T Vol= 11.84 Plg=58 Azm= 33
N 0.16 18 271
P -12.00 25 172
Best Double Couple:Mo=1.2*10**17
NP1:Strike=228 Dip=25 Slip= 44
NP2. 97 73 109

06 22 53 56.50 42.797N 145.117E 44km
5.7mb (76 obs.) 5.1Msz (17 obs.)
HOKKAIDO, JAPAN REGION
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 16S, 31C
Centroid Locotion:
Origin Time 22:54: 0.3 0.3
Lot 42.69N 0.03 Lon 145.28E 0.04
Dep 42.7 2.5 Half-durotion 2.5
Principol Axes:
Scole 10**17 Nm
T Vol= 3.21 Plg=60 Azm=248
N 0.27 23 26
P -3.48 18 124
Best Double Couple:Mo=3.3*10**17
NP1:Strike=246 Dip=34 Slip= 135
NP2: 16 67 64

07 14 49 28.41 5.417S 152.022E 37km
5.1mb (15 obs.) 5.0Msz (13 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 16S, 35C
Centroid Locotion:
Origin Time 14:49:32.7 0.3
Lot 5.32S 0.04 Lon 152.51E 0.05
Dep 15.0 FIX Holf-duration 2.5
Principal Axes:

Scale 10**17 Nm
T Val= 4.05 Plg=56 Azm=348
N 0.80 7 248
P -4.85 33 154
Best Double Couple:Mo=4.4*10**17
NP1:Strike=219 Dip=13 Slip= 60
NP2: 70 79 97

07 23 34 54.55 4.440S 104.876W 10km
5.0mb (6 obs.) 5.4Msz (4 obs)
NORTHERN EASTER I. CORDILLERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 35C
Centroid Location:
Origin Time 23:34:59.4 0.4
Lat 4.83S 0.03 Lon 105.03W 0.03
Dep 15.0 FIX Half-duration 2.7
Principal Axes:
Scale 10**17 Nm
T Val= 4.98 Plg=14 Azm=323
N -1.03 71 188
P -3.86 13 56
Best Double Couple:Mo=4.4*10**17
NP1:Strike=100 Dip=71 Slip= 0
NP2: 10 90 161

08 07 59 06.19 40.121S 174.330E 122km
5.5mb (33 obs.)
COOK STRAIT, NEW ZEALAND
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 25C
Centroid Location:
Origin Time 07:59: 6.7 0.4
Lat 40 54S 0 04 Lon 174.09E 0.03
Dep 114.3 1.8 Half-duration 2.3
Principal Axes
Scale 10**17 Nm
T Val= 2.98 Plg=81 Azm=356
N -0.66 5 232
P -2.32 7 141
Best Double Couple:Mo=2.6*10**17
NP1:Strike=226 Dip=38 Slip= 82
NP2: 55 52 96

08 20 17 57.54 11.592S 14.214W 10km
5.0mb (19 obs.) 5.0Msz (3 obs.)
ASCENSION ISLAND REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 24C
Centroid Location:
Origin Time 20:18: 4.8 1.0
Lat 11.15S 0.10 Lon 14.22W 0.09
Dep 15.0 FIX Half-duration 1 7
Principal Axes:
Scale 10**16 Nm
T Val= 10.97 Plg=30 Azm=109
N -1.35 46 344
P -9.62 30 218
Best Double Couple:Mo=1.0*10**17
NP1:Strike=254 Dip=46 Slip= 0
NP2: 344 90 -136

08 23 44 04.45 22.723S 68.478W 102km
5.3mb (48 obs.)
NORTHERN CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 29C
Centroid Location:
Origin Time 23:44:13.5 0.4
Lat 22 40S 0.06 Lon 68.89W 0.06
Dep 125 4 2.8 Half-duration 1.9
Principal Axes:
Scale 10**17 Nm
T Val= 1.80 Plg=19 Azm=104
N -0.53 18 200
P -1.27 64 330
Best Double Couple:Mo=1.5*10**17
NP1:Strike=167 Dip=31 Slip=-126
NP2: 28 66 -71

09 00 40 36 16 20.644S 173.617W 38km
5.3mb (15 obs) 5.0Msz (13 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 23C
Centroid Location:
Origin Time 00:40 38.5 1.1
Lat 20.77S 0.09 Lon 173.08W 0.11
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 7.84 Plg=70 Azm=181
N 1.01 19 20
P -8.85 6 288
Best Double Couple:Mo=B.3*10**16
NP1:Strike=358 Dip=42 Slip= 61
NP2: 214 54 113

10 01 55 57.21 5.898N 124.424E 56km
5.4mb (38 obs.) 5.7Msz (24 obs.)
MINDANAO, PHILIPPINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 35C
Centroid Location:
Origin Time 01:55:58.9 0.3
Lat 5.92N 0.02 Lon 124.22E 0.04
Dep 41.0 2.8 Half-duration 4.4
Principal Axes:
Scale 10**17 Nm
T Val= 15.65 Plg=64 Azm= 51
N -0.80 4 149
P -14.85 25 241
Best Double Couple:Mo=1.5*10**18
NP1:Strike=339 Dip=20 Slip= 101
NP2: 148 71 86

10 08 23 45.03 5.875N 124.431E 43km
5.0mb (7 obs.) 4.7Msz (8 obs.)
MINDANAO, PHILIPPINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 16C
Centroid Location:
Origin Time 08:23:47.6 0.6
Lat 5.91N 0.05 Lon 123.89E 0.11
Dep 52.6 5.9 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 11.91 Plg=68 Azm=358
N 1.69 18 141
P -13.60 12 235
Best Double Couple:Mo=1.3*10**17
NP1:Strike=348 Dip=36 Slip= 121
NP2: 130 60 69

10 10 44 36 80 61.895S 154.623E 10km
5.2mb (6 obs) 5.6Msz (2 obs.)
BALLENY ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L P.B 15S, 36C
Centroid Location:
Origin Time 10.44 45.6 0.3
Lat 62.10S 0.04 Lon 153.41E 0.08
Dep 15.0 FIX Half-duration 2.7
Principal Axes:
Scale 10**17 Nm
T Val= 6.16 Plg=13 Azm=202
N -0.69 76 10
P -5.48 3 111
Best Double Couple:Mo=5.8*10**17
NP1:Strike=246 Dip=79 Slip= 172
NP2: 337 83 11

10 11 46 28.78 5.977N 124.379E 44km
5.4mb (26 obs.) 5.2Msz (16 obs.)
MINDANAO, PHILIPPINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 21C
Centroid Location:
Origin Time 11:46:31.0 0.5
Lat 5.88N 0.04 Lon 124.29E 0.07
Dep 44.0 5.7 Half-duration 2.7
Principal Axes:
Scale 10**17 Nm
T Val= 4.57 Plg=69 Azm= 15
N -0.27 16 152
P -4.30 14 246
Best Double Couple:Mo=4.4*10**17
NP1:Strike=357 Dip=34 Slip= 119
NP2: 143 61 72

12 00 40 10.71 0 800N 126.817E 51km
5 7mb (33 obs.)
MOLUCCA PASSAGE
CENTROID, MOMENT TENSOR (HRV)
Data Used GDSN
L.P.B 18S, 40C
Centroid Location:
Origin Time 00:40:11.5 0.3
Lat 1.00N 0.02 Lon 126.54E 0.04
Dep 39.4 2.7 Half-duration 4.2
Principal Axes:
Scale 10**18 Nm
T Val= 1.62 Plg=15 Azm=197
N -0.40 72 51
P -1.21 10 290
Best Double Couple:Mo=1.4*10**18
NP1:Strike=334 Dip=72 Slip= 4
NP2: 243 B6 162

12 15 31 49.24 18.288N 100.974W 69km
5.3mb (51 obs.)
GUERRERO, MEXICO
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 31C
Centroid Location:
Origin Time 15:31:51.7 1.0
Lat 18.26N 0.08 Lon 100.67W 0.05
Dep 76.1 2.8 Half-duration 1.8
Principal Axes:
Scale 10**17 Nm
T Val= 1.47 Plg=13 Azm=355
N -0.30 5 86
P -1.17 76 197
Best Double Couple:Mo=1.3*10**17
NP1:Strike= 78 Dip=33 Slip= -99
NP2: 269 58 -84

12 16 46 43.33 8.682N 125.718E 55km
5.9mb (59 obs.)
MINDANAO, PHILIPPINE ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=250 Dip=60 Slip= -70
NP2: 34 36 -121
Principal Axes:
T Plg=13 Azm=326
P 68 201
Comment: The focal mechanism is poorly controlled ond corresponds to normol faulting with a moderate strike-slip component. The preferred fault plane is not determined
RADIATED ENERGY
No. of sta: 6 Focal mech. C
Energy 0.2±0.1*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 65 No. of sta. 6
Principal Axes:
Scale 10**17 Nm
T Val= 6.48 Plg=19 Azm=315
N -0.93 40 62
P -5.55 44 205
Best Double Couple:Mo=6.0*10**17
NP1:Strike= 1 Dip=44 Slip=-158
NP2: 255 75 -49
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 39C
Centroid Location:
Origin Time 16:46:45.9 0.2
Lat 8.74N 0.01 Lon 125.68E 0.03
Dep 64.7 1.8 Half-duration 3.3
Principal Axes:
Scale 10**17 Nm
T Val= 7.93 Plg= 2 Azm=173
N -1.01 21 264
P -6.92 69 77
Best Double Couple:Mo=7.4*10**17
NP1:Strike=242 Dip=47 Slip=-120
NP2: 102 51 -62

12 17 18 36.94 7.259S 12.700W 10km
4.9mb (27 obs.) 4.7Msz (2 obs.)
ASCENSION ISLAND REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 30C
Centroid Location:
Origin Time 17:18:47.2 0.5
Lat 6.81S 0.05 Lon 12.37W 0.06
Dep 15.0 FIX Half-duration 2.6
Principal Axes:
Scale 10**17 Nm
T Val= 3.30 Plg= 8 Azm=114
N -0.44 73 230
P -2.87 16 22
Best Double Couple:Mo=3.1*10**17
NP1:Strike=159 Dip=73 Slip=-174
NP2: 67 85 -17

12 20 46 40.68 20.502S 173.929W 38km
5.3mb (22 obs.) 5.3Msz (16 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 32C
Centroid Location:
Origin Time 20:46:44.9 0.6
Lat 20.71S 0.05 Lon 173.54W 0.06
Dep 15.0 BDY Half-duration 2.1
Principal Axes:
Scale 10**17 Nm

T	Val= 2.22	Plg=65	Azm=270
N	0.01	10	22
P	-2.23	23	116

Best Double Couple:Mo=2.2*10**17

NP1:	Strike=226	Dip=24	Slip= 116
NP2:	18	69	79

14 17 51 08.76 19.016S 176.652E 33km
5.8mb (36 obs.) 5.9Msz (17 obs.)
SOUTH OF FIJI ISLANDS
FAULT PLANE SOLUTION: P-Waves

NP1:	Strike=148	Dip=82	Slip=-180
NP2:	238	90	-352

Principal Axes

T		Plg= 6	Azm=103
P		6	13

Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting with a small normal component. The preferred fault plane is not determined.
RADIATED ENERGY
No. of sta: 8 Focal mech. F
Energy 0.2±0.1*10**16 Nm
MOMENT TENSOR SOLUTION
Dep 19 No. of sta: 16
Principal Axes:
Scale 10**18 Nm

T	Val= 2.77	Plg= 8	Azm=283
N	-0.24	82	107
P	-2.53	1	14

Best Double Couple:Mo=2.6*10**18

NP1:	Strike= 59	Dip=84	Slip= 5
NP2:	328	85	174

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 35C M.W.: 12S, 29C
Centroid Location:
Origin Time 17:51:13.2 0.2
Lat 19.24S 0.02 Lon 176.83E 0.02
Dep 15.0 FIX Half-duration 5.3
Principal Axes:
Scale 10**18 Nm

T	Val= 3.79	Plg= 6	Azm=282
N	-1.78	74	33
P	-2.02	15	191

Best Double Couple:Mo=2.9*10**18

NP1:	Strike=327	Dip=75	Slip=-174
NP2:	236	84	-15

15 10 04 22.31 38.307S 93.822W 10km
5.4mb (19 obs.) 5.3Msz (7 obs.)
WEST CHILE RISE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 18S, 34C
Centroid Location:
Origin Time 10:04:23.5 0.2
Lat 38.04S 0.04 Lon 93.33W 0.04
Dep 15.0 FIX Half-duration 2.3
Principal Axes:
Scale 10**17 Nm

T	Val= 2.90	Plg=10	Azm= 86
N	-0.60	20	180
P	-2.31	67	331

Best Double Couple:Mo=2.6*10**17

NP1:	Strike=153	Dip=39	Slip=-123
NP2:	13	58	-66

17 11 03 10 64 17.701S 167.187E 10km
5.2mb (11 obs.) 4.8Msz (8 obs.)
VANUATU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 26C
Centroid Location:
Origin Time 11:03:19.8 0.6
Lat 17.72S 0.04 Lon 166.58E 0.05
Dep 15.0 FIX Half-duration 2.4
Principal Axes:
Scale 10**17 Nm

T	Val= 3.38	Plg=12	Azm=115
N	-0.41	34	213
P	-2.97	53	9

Best Double Couple:Mo=3.2*10**17

NP1:	Strike=169	Dip=45	Slip=-143
NP2:	52	65	-51

18 03 46 26.02 55.053S 27.846W 33km
5.6mb (11 obs.) 5.5Msz (7 obs.)
SOUTH SANDWICH ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 28C
Centroid Location:
Origin Time 03:46:30.4 0.4
Lat 55.38S 0.05 Lon 27.70W 0.13
Dep 15.0 FIX Half-durotion 2.1
Principal Axes:
Scale 10**17 Nm

T	Val= 2.21	Plg=48	Azm=174
N	0.51	24	293
P	-2.72	32	39

Best Double Couple:Mo=2.5*10**17

NP1:	Strike=180	Dip=25	Slip= 160
NP2:	289	82	66

19 13 19 20.26 6.507S 130.028E 165km
5.7mb (25 obs.)
BANDA SEA
FAULT PLANE SOLUTION: P-Waves

NP1:	Strike= 75	Dip=52	Slip= 45
NP2:	313	56	132

Principal Axes:

T		Plg=56	Azm=282
P		2	15

Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting with a large strike-slip component The preferred fault plane is not determined.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 24C
Centroid Location:
Origin Time 13:19:24.6 0.5
Lat 6.38S 0.05 Lon 130.02E 0.06
Dep 172.8 2.1 Half-durotion 2.0
Principal Axes
Scale 10**17 Nm

T	Val= 1.61	Plg=63	Azm=264
N	0.18	19	37
P	-1.79	18	134

Best Double Couple:Mo=1.7*10**17

NP1:	Strike=251	Dip=32	Slip= 129
NP2:	28	66	69

20 01 31 54 64 15.147S 173.611W 45km
4.9mb (12 obs.) 4.7Msz (1 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 27C
Centroid Location:
Origin Time 01:32: 6.5 0.6
Lat 15.41S 0.07 Lon 173.77W 0.06
Dep 71.8 6.3 Half-durotion 1.8
Principal Axes:
Scale 10**16 Nm

T	Val= 10.27	Plg=47	Azm=194
N	-1.01	26	314
P	-9.25	32	62

Best Double Couple:Mo=9.8*10**16

NP1:	Strike=204	Dip=27	Slip= 162
NP2:	310	82	64

20 11 16 56.51 11.766N 41.942E 12km
5.8mb (81 obs.) 6.3Msz (20 obs.)
ETHIOPIA
FAULT PLANE SOLUTION: P-Waves

NP1:	Strike=130	Dip=68	Slip=-115
NP2:	1	33	-44

Principal Axes:

T		Plg=19	Azm=238
P		59	4

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.
RADIATED ENERGY
No. of sta: 12 Focal mech. M
Energy 1.0±0.3*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 15 No. of sta: 18
Principal Axes:
Scale 10**18 Nm

T	Val= 1.11	Plg=12	Azm=196
N	0.12	1	286
P	-1.23	78	22

Best Double Couple:Mo=1.2*10**18

NP1:	Strike=284	Dip=33	Slip= -92
NP2:	107	57	-88

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 47C M.W.: 14S, 28C
Centroid Location:
Origin Time 11:17: 7.6 0.2
Lat 11.99N 0.02 Lon 42.04E 0.02
Dep 15.8 0.8 Half-duration 7.0
Principal Axes:
Scale 10**18 Nm

T	Val= 6.46	Plg= 0	Azm=211
N	-0.59	0	121
P	-5.86	90	180

Best Double Couple:Mo=6.2*10**18

NP1:	Strike=301	Dip=45	Slip= -90
NP2:	121	45	-90

20 11 46 28.07 11.884N 41.812E 10km
6.1mb (65 obs.) 5.6Msz (5 obs.)
ETHIOPIA
FAULT PLANE SOLUTION: P-Waves

NP1:	Strike=122	Dip=68	Slip= -90
NP2:	302	22	-90

Principal Axes:

T		Plg=23	Azm=212
P		67	32

Comment: The focal mechanism is poorly controlled and corresponds to normal faulting. The preferred fault plane is NP1
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 22C
Centroid Location:
Origin Time 11:46:33.7 0.7
Lat 11.86N FIX,Lon 41.90E FIX
Dep 15.0 FIX Half-durotion 4.2
Principal Axes:
Scale 10**18 Nm

T	Val= 1.49	Plg= 9	Azm=211
N	0.29	11	302
P	-1.78	76	84

Best Double Couple:Mo=1.6*10**18

NP1:	Strike=288	Dip=38	Slip=-109
NP2:	130	55	-76

20 18 32 29.91 37.278N 21.203E 11km
5.4mb (63 obs.) 5.6Msz (12 obs.)
SOUTHERN GREECE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 34C
Centroid Location:
Origin Time 18:32:36.3 0.5
Lat 36.95N 0.05 Lon 21.15E 0.08
Dep 15.0 FIX Half-durotion 3.0
Principal Axes:
Scale 10**17 Nm

T	Val= 8.12	Plg=14	Azm=175
N	-3.60	23	271
P	-4.52	63	56

Best Double Couple:Mo=6.3*10**17

NP1:	Strike=237	Dip=37	Slip=-130
NP2:	104	63	-64

20 18 39 48.89 11.985N 41.870E 10km
5.4mb (46 obs.)
ETHIOPIA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 20C
Centroid Location:
Origin Time 18:39:44.6 1.7
Lat 11.32N 0.12 Lon 41.42E 0.11
Dep 15.0 FIX Half-durotion 2.3
Principal Axes:
Scale 10**17 Nm

T	Val= 3.93	Plg= 0	Azm=204
N	-0.05	0	114
P	-3.88	90	180

Best Double Couple:Mo=3.9*10**17

NP1 Strike=294 Dip=45 Slip= -90
NP2. 114 45 -90

20 19 25 56.51 11.904N 41.824E 12km
6.2mb (64 obs.) 5.7Msz (13 obs.)
ETHIOPIA
RADIATED ENERGY
No of sto: 10 Focal mech. C
Energy 0.9±0.3*10**13 Nm
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B : 15S, 35C M.W.: 14S, 25C
Centroid Location:
Origin Time 19:26: 6.8 0.2
Lat 12.40N 0.02 Lon 41.91E 0.02
Dep 15.0 BDY Half-durotion 4.4
Principal Axes:
Scale 10**18 Nm
T Val= 1.67 Plg=11 Azm=197
N -0.17 1 287
P -1.50 79 23
Best Double Couple:Mo=1.6*10**18
NP1:Strike=285 Dip=34 Slip= -92
NP2: 108 56 -89

21 01 09 06.63 11.874N 41.870E 16km
6.3mb (66 obs.) 6.2Msz (18 obs.)
ETHIOPIA
FAULT PLANE SOLUTION: P-Woves
NP1:Strike=110 Dip=68 Slip=-130
NP2: 356 45 -32
Principal Axes:
T Plg=14 Azm=228
P 50 335
Comment: The focal mechanism is poorly controlled and corresponds to normal faulting with a large strike-slip component. The preferred fault plane is not determined.
RADIATED ENERGY
No. of sto: 7 Focal mech. M
Energy 0.6±0.2*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 11 No. of sto: 18
Principal Axes:
Scale 10**18 Nm
T Val= 1.58 Plg=13 Azm=185
N 0.49 3 276
P -2.07 77 19
Best Double Couple:Mo=1.8*10**18
NP1 Strike=271 Dip=32 Slip= -96
NP2. 98 58 -86
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L P B.. 16S, 42C M.W.: 15S, 25C
Centroid Locotion:
Origin Time 01:09:16.0 0.1
Lot 12.19N 0.01 Lon 41.88E 0.01
Dep 15.0 FIX Half-durotion 6.3
Principal Axes:
Scale 10**18 Nm
T Val= 5.44 Plg= 1 Azm=199
N -0.37 8 289
P -5.06 82 103
Best Double Couple:Mo=5.3*10**18
NP1:Strike=281 Dip=45 Slip=-101
NP2: 116 46 -79

21 05 03 05.60 11.942N 41.769E 10km
5.8mb (59 obs.) 5.7Msz (18 obs.)
ETHIOPIA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=115 Dip=68 Slip= -90
NP2: 295 22 -90
Principal Axes:
T Plg=23 Azm=205
P 67 25
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP1
RADIATED ENERGY
No. of sto: 6 Focal mech M
Energy 0.7±0.2*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 6 No. of sto: 14
Principal Axes:
Scale 10**18 Nm
T Val= 1.56 Plg=12 Azm=196
N 0.01 10 289
P -1.57 74 57

Best Double Couple:Mo=1.6*10**18
NP1.Strike=274 Dip=34 Slip=-108
NP2: 115 58 -78
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 16S, 36C
Centroid Locotion:
Origin Time 05:03:12.7 0.3
Lot 12.17N 0.03 Lon 41.56E 0.03
Dep 15.0 BDY Half-duration 4.0
Principal Axes:
Scale 10**18 Nm
T Val= 1.62 Plg= 5 Azm=190
N -0.13 9 99
P -1.49 80 310
Best Double Couple:Mo=1.6*10**18
NP1:Strike=290 Dip=41 Slip= -77
NP2: 92 51 -101

21 05 05 45.39 11.821N 41.732E 10km
5.3mb (10 obs.)
ETHIOPIA
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 8S, 11C
Centroid Locotion.
Origin Time 05:05:53.5 0.7
Lot 11.92N FIX;Lon 41.71E FIX
Dep 15.0 FIX Half-durotion 2.3
Principal Axes:
Scale 10**17 Nm
T Val= 7.35 Plg= 0 Azm=206
N -3.13 0 116
P -4.22 90 180
Best Double Couple:Mo=5.8*10**17
NP1:Strike=296 Dip=45 Slip= -90
NP2. 116 45 -90

21 07 07 38.47 11.800N 41.721E 10km
5.0mb (32 obs) 4 7Msz (1 obs.)
ETHIOPIA
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 12S, 20C
Centroid Locotion
Origin Time 07.07:36.2 2 0
Lat 11.10N 0 18 Lon 41 18E 0 14
Dep 15.0 FIX Half-durotion 1 8
Principal Axes:
Scale 10**16 Nm
T Val= 11.13 Plg=14 Azm=197
N -0.23 6 106
P -10.90 75 352
Best Double Couple:Mo=1.1*10**17
NP1:Strike=296 Dip=32 Slip= -78
NP2. 102 59 -97

21 18 25 41 05 4.104S 154 459E 494km
5.8mb (48 obs.)
SOLOMON ISLANDS
FAULT PLANE SOLUTION: P-Woves
NP1:Strike=105 Dip=85 Slip= 70
NP2: 2 21 166
Principal Axes:
T Plg=46 Azm=354
P 37 213
Comment: The focal mechanism is moderotely well controlled and corresponds to reverse foulting with o moderote strike-slip component. The preferred fault plone is not determined.
RADIATED ENERGY
No. of sto: 8 Focal mech. C
Energy 0.2±0.1*10**15 Nm
MOMENT TENSOR SOLUTION
Dep 482 No. of sto: 15
Principal Axes:
Scale 10**18 Nm
T Val= 5.98 Plg=49 Azm= 0
N 0.14 18 112
P -6.13 36 215
Best Double Couple:Mo=6.1*10**18
NP1:Strike=359 Dip=19 Slip= 159
NP2. 109 83 72
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 13S, 34C M.W.: 13S, 22C
Centroid Locotion:
Origin Time 18:25:48.0 0.2
Lot 4.15S 0.01 Lon 154.31E 0.01
Dep 489.2 0.8 Half-durotion 7.0

Principal Axes:
Scale 10**18 Nm
T Val= 8.27 Plg=46 Azm= 12
N -0.90 4 105
P -7.37 43 199
Best Double Couple:Mo=7.8*10**18
NP1:Strike=354 Dip= 4 Slip= 159
NP2: 105 89 86

21 23 12 41.44 24.094N 122.478E 43km
5.6mb (64 obs.) 6.3Msz (17 obs.)
TAIWAN REGION
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 10S, 25C M.W.: 9S, 19C
Centroid Locotion:
Origin Time 23:12:43.1 0.1
Lat 23.85N 0.01 Lon 122.27E 0.03
Dep 23.8 1.4 Half-duration 5.3
Principal Axes:
Scale 10**18 Nm
T Val= 2.82 Plg=59 Azm=336
N 0.01 9 82
P -2.82 29 177
Best Double Couple:Mo=2.8*10**18
NP1:Strike=291 Dip=18 Slip= 120
NP2: .79 75 81

22 06 27 02.72 5.030S 151.386E 133km
5.2mb (18 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 12S, 23C
Centroid Locotion:
Origin Time 06:27: 6.6 1.0
Lot 5.42S 0.09 Lon 150.94E 0.09
Dep 128.3 4.2 Half-durotion 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 5.33 Plg=15 Azm=167
N 2.23 44 62
P -7.56 42 271
Best Double Couple:Mo=6.4*10**16
NP1:Strike=300 Dip=49 Slip= -23
NP2: 45 73 -137

22 07 56 09.64 41.463N 142.066E 66km
5.3mb (60 obs.)
HOKKAIDO, JAPAN REGION
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 12S, 19C
Centroid Locotion:
Origin Time 07:56:11.9 0.6
Lot 41.48N 0.08 Lon 141.95E 0.07
Dep 49.8 7.3 Half-durotion 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 9.80 Plg=60 Azm=319
N 0.00 13 205
P -9.80 26 109
Best Double Couple:Mo=9.8*10**16
NP1:Strike=170 Dip=22 Slip= 53
NP2: 30 73 104

23 15 20 43.70 52.517N 168.095W 33km
5.1mb (55 obs.) 5.0Msz (14 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS
CENTROID, MOMENT TENSDR (HRV)
Doto Used: GDSN
L.P.B.: 13S, 24C
Centroid Locotian:
Origin Time 15:20:48.0 0.3
Lot 52.81N 0.05 Lon 168.12W 0.06
Dep 15.0 FIX Half-duration 2.1
Principal Axes:
Scole 10**17 Nm
T Val= 2.12 Plg=59 Azm=309
N 0.29 4 46
P -2.41 30 138
Best Double Couple:Mo=2.3*10**17
NP1:Strike=241 Dip=15 Slip= 106
NP2: 44 75 86

24 02 13 15.18 37.995N 20.183E 27km
5.1mb (62 obs) 4.9Msz (9 obs.)
IONIAN SEA
CENTROID, MOMENT TENSOR (HRV)
Doto Used: GDSN
L.P.B.: 13S, 22C
Centroid Locotion:
Origin Time 02:13:11.6 1.4

Lat 37.05N 0.09 Lon 19.72E 0.14
Dep 15.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	8.88	63	355
N	-1.98	24	142
P	-6.90	13	238

Best Double Couple:Mo=7.9*10**16
NP1:Strike=356 Dip=38 Slip= 131
NP2: 129 62 63

26 00 11 43.21 36.210N 140.919E 53km
5.4mb (70 obs.) 4.7Msz (5 obs.)
NEAR EAST COAST OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used GDSN
L.P.B.: 10S, 17C
Centroid Location:
Origin Time 00:11:50.5 0.9
Lat 36.29N 0.06 Lon 140.53E 0.08
Dep 35.5 4.8 Half-duration 1.8
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	8.52	74	270
N	2.57	3	12
P	-11.09	16	103

Best Double Couple:Mo=9.8*10**16
NP1:Strike=198 Dip=29 Slip= 97
NP2: 10 61 86

27 01 21 17 92 34.921N 26.240E 61km
5.0mb (61 obs.)
CRETE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 25C
Centroid Location:
Origin Time 01:21:17.2 0.6
Lat 34.25N 0.06 Lon 26.28E 0.09
Dep 15.0 FIX Half-duration 1.8
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	2.85	53	30
N	0.33	16	278
P	-3.18	33	178

Best Double Couple:Mo=3.0*10**17
NP1:Strike=223 Dip=19 Slip= 33
NP2: 101 80 106

29 04 16 23.02 18.039N 105.667W 21km
5.7mb (51 obs.) 6.6Msz (26 obs.)
OFF COAST OF JALISCO, MEXICO
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=200 Dip=83 Slip= 8
NP2: 109 82 173
Principal Axes:

	Plg=	Azm=
T	11	65
P	1	334

Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting with a small reverse component The preferred fault plane is not determined.
RADIATED ENERGY
No. of sta: 4 Focal mech. M
Energy 0.8±0.3*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 75 No. of sta: 14
Principal Axes:
Scale 10**18 Nm

	Val=	Plg=	Azm=
T	4.83	12	57
N	0.00	77	260
P	-4.83	5	148

Best Double Couple:Mo=4.8*10**18
NP1:Strike=193 Dip=78 Slip= 5
NP2: 102 85 168
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 38C M.W.: 12S, 22C
Centroid Location.
Origin Time 04:16:25.7 0.2
Lat 17.88N 0.01 Lon 105.65W 0.02
Dep 15.0 FIX Half-duration 7.5
Principal Axes:
Scale 10**18 Nm

	Val=	Plg=	Azm=
T	6.91	17	57
N	-0.09	72	227
P	-6.82	3	326

Best Double Couple:Mo=6.9*10**18
NP1.Strike=100 Dip=76 Slip= 170
NP2: 193 80 14

29 15 30 38.65 48.172N 147.578E 408km
4.8mb (58 obs.)
SEA OF OKHOTSK
CENTROID, MOMENT TENSOR (HRV)
Data Used. GDSN
L.P.B.: 9S, 17C
Centroid Location
Origin Time 15:30:48.8 1.8
Lat 48 00N 0.12 Lon 147.43E 0.20
Dep 444.3 6.4 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	7.69	48	17
N	-0.73	34	157
P	-6.96	21	262

Best Double Couple:Mo=7.3*10**16
NP1:Strike= 34 Dip=39 Slip= 154
NP2. 145 74 54

30 03 06 55.14 54.597N 162.793E 31km
5.5mb (60 obs.) 5.2Msz (10 obs.)
NEAR EAST COAST OF KAMCHATKA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.. 16S, 29C
Centroid Location
Origin Time 03:07: 0.5 0.4
Lat 54.20N 0.05 Lon 163.18E 0.06
Dep 35.4 3.2 Half-duration 2.1
Principal Axes.
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	1.54	74	11
N	0.67	16	210
P	-2.21	5	119

Best Double Couple:Mo=1.9*10**17
NP1:Strike=192 Dip=42 Slip= 66
NP2 43 52 110

30 11 38 12.76 55.609N 161.358E 73km
5.8mb (96 obs.)
NEAR EAST COAST OF KAMCHATKA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 60 Dip=65 Slip= 90
NP2: 240 25 90
Principal Axes:

	Plg=	Azm=
T	70	330
P	20	150

Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2
RADIATED ENERGY
No. of sta: 6 Focal mech. M
Energy 0.3±0.1*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 77 No. of sta: 14
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	2.39	76	37
N	-0.02	11	253
P	-2.37	8	162

Best Double Couple:Mo=2.4*10**17
NP1:Strike=239 Dip=38 Slip= 72
NP2: 82 54 104
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 37C
Centroid Location:
Origin Time 11:38:18.2 0.4
Lat 55.48N 0.03 Lon 161.64E 0.06
Dep 77.5 2.2 Half-duration 2.3
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	2.30	64	40
N	0.39	26	233
P	-2.69	5	140

Best Double Couple:Mo=2.5*10**17
NP1:Strike=205 Dip=46 Slip= 53
NP2: 72 55 122

30 16 25 29.75 5.625N 127.186E 93km
5.1mb (29 obs.)
PHILIPPINE ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B . 11S, 16C
Centroid Location:
Origin Time 16:25:26.8 1.1
Lat 5.74N 0.07 Lon 127.49E 0.10
Dep 107.3 5.8 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	5.50	79	357
N	-0.26	10	203
P	-5.24	5	112

Best Double Couple:Mo=5.4*10**16
NP1:Strike=192 Dip=41 Slip= 75
NP2. 31 50 103

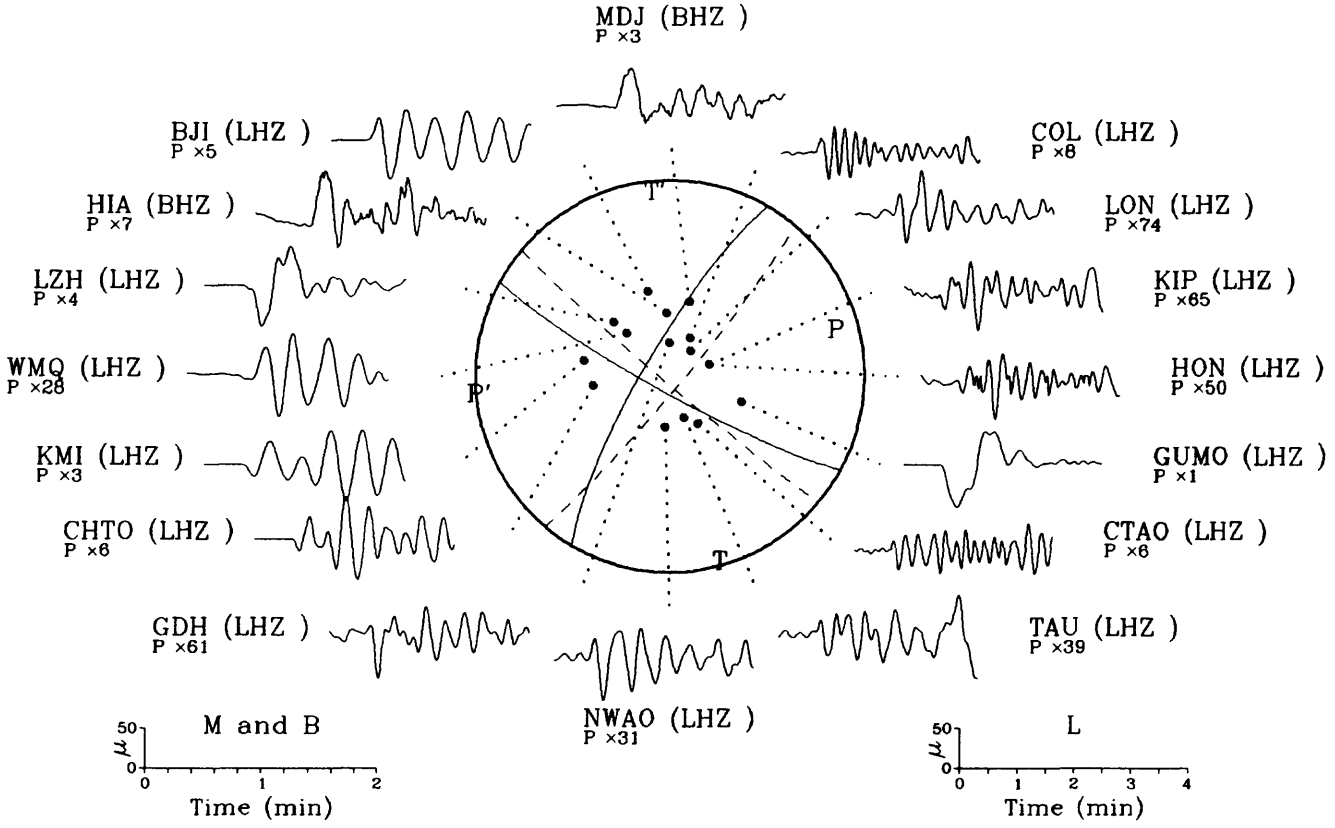
31 11 04 58.68 0.174S 17.801W 10km
5.4mb (45 obs.) 4.7Msz (6 obs.)
NORTH OF ASCENSION ISLAND
CENTROID, MOMENT TENSOR (HRV)
Data Used. GDSN
L.P.B.. 12S, 26C
Centroid Location:
Origin Time 11:05:12.7 0.5
Lat 0.54N 0.05 Lon 16.92W 0.06
Dep 15.0 FIX Half-duration 2.0
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	1.82	18	31
N	-0.30	68	178
P	-1.53	11	297

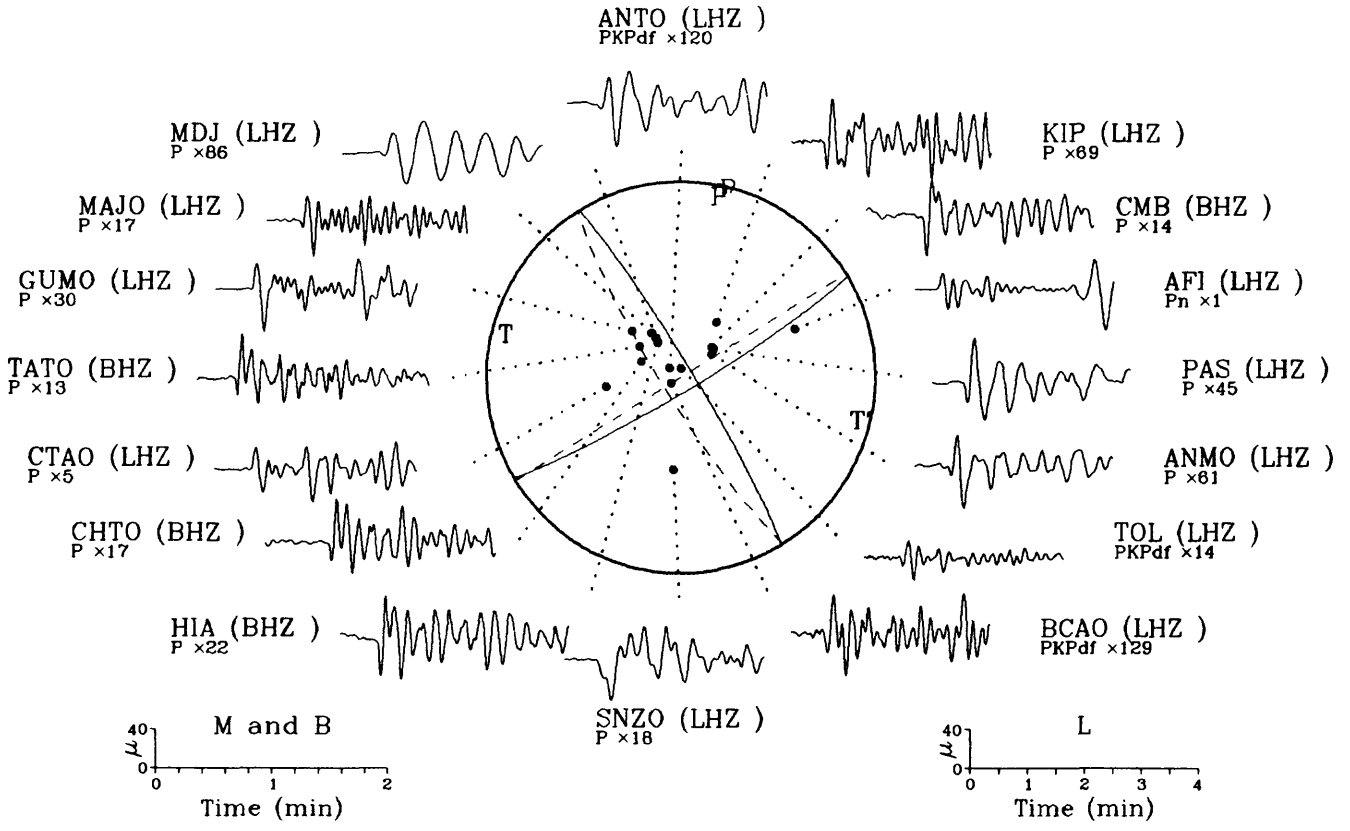
Best Double Couple:Mo=1.7*10**17
NP1:Strike= 73 Dip=69 Slip= 175
NP2: 165 85 21

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

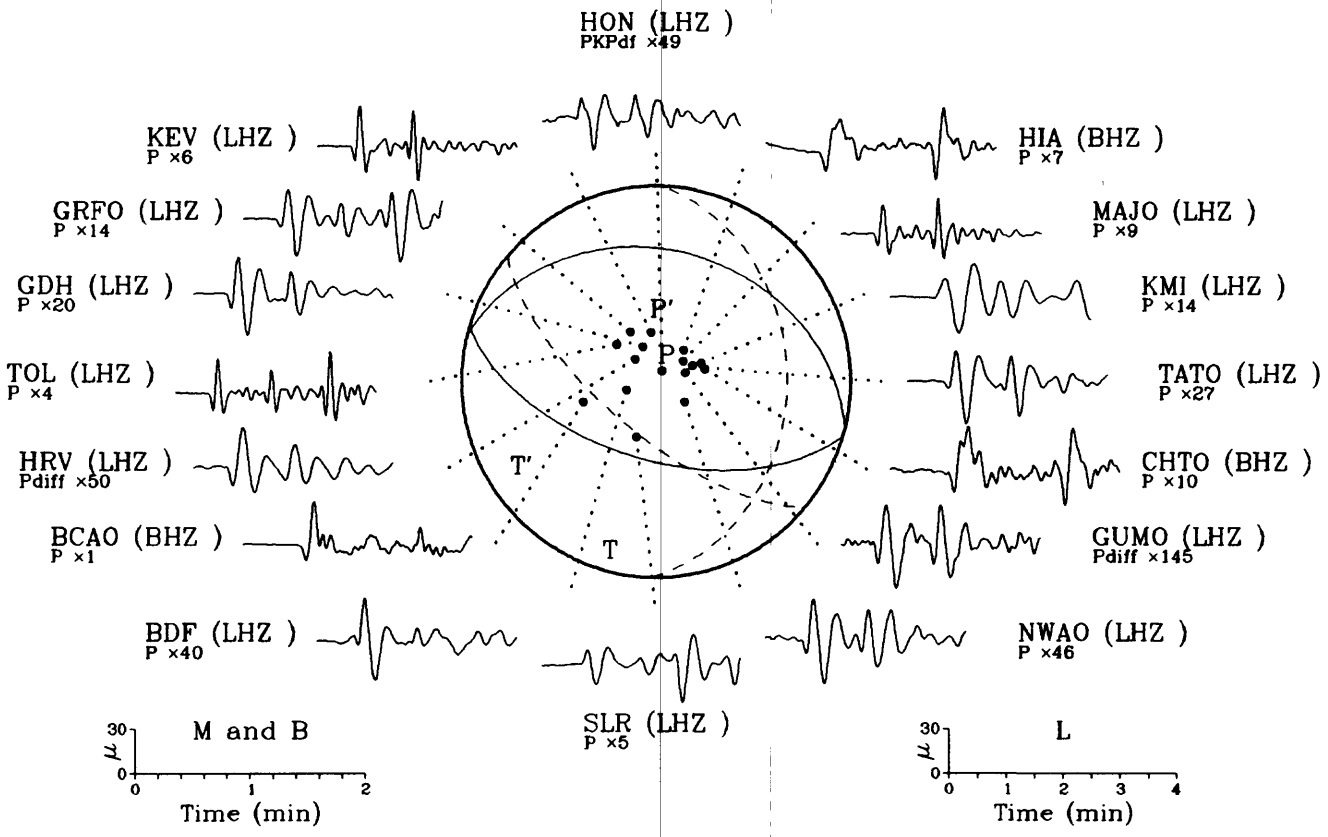
03 August 1989 11:31:20.43
Taiwan



14 August 1989 17:51:08.76
South of Fiji Islands

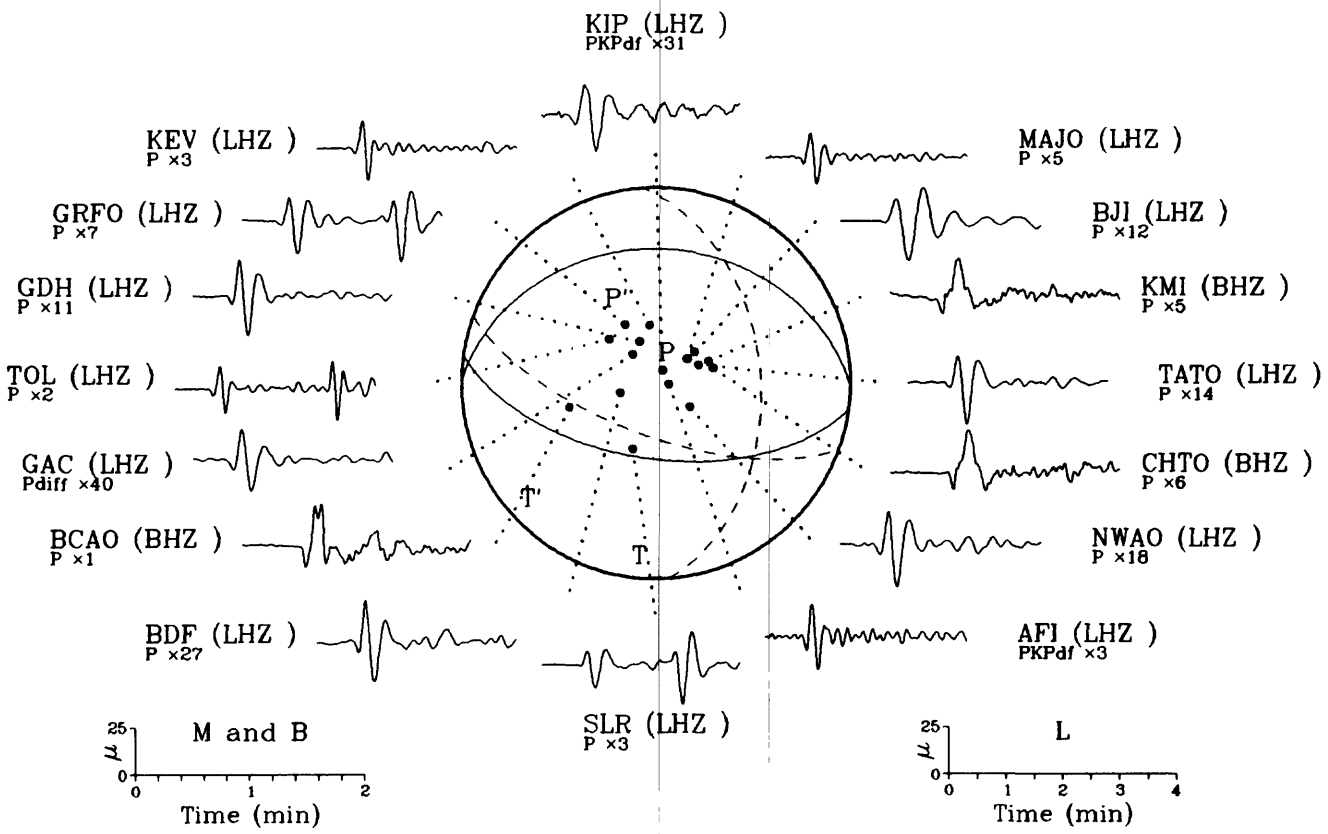


20 August 1989 11:16:56.51
Ethiopia

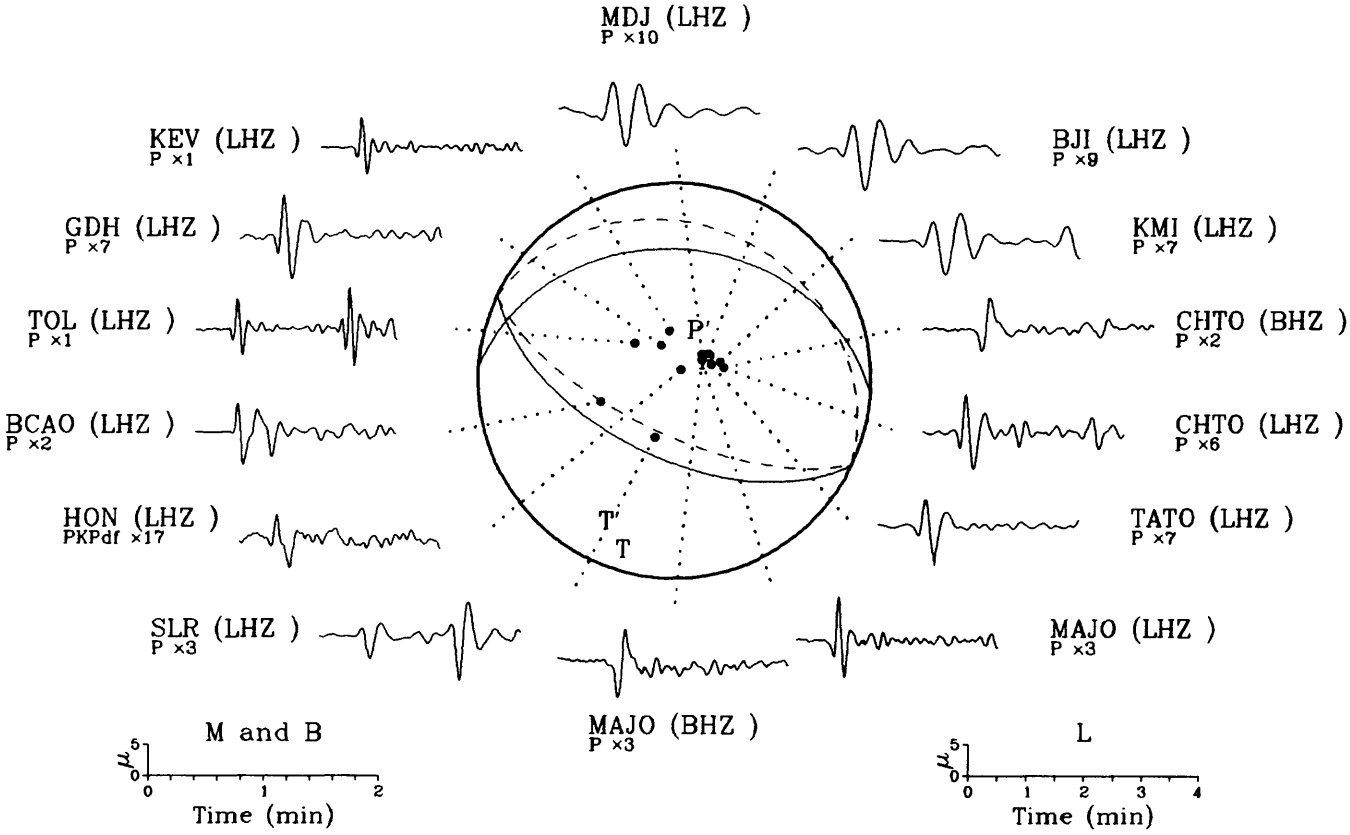


The strong secondary arrivals, about one minute after the initial onset, are P arrivals for a second event, located in the PDE with origin time 11:17:55.2 UTC.

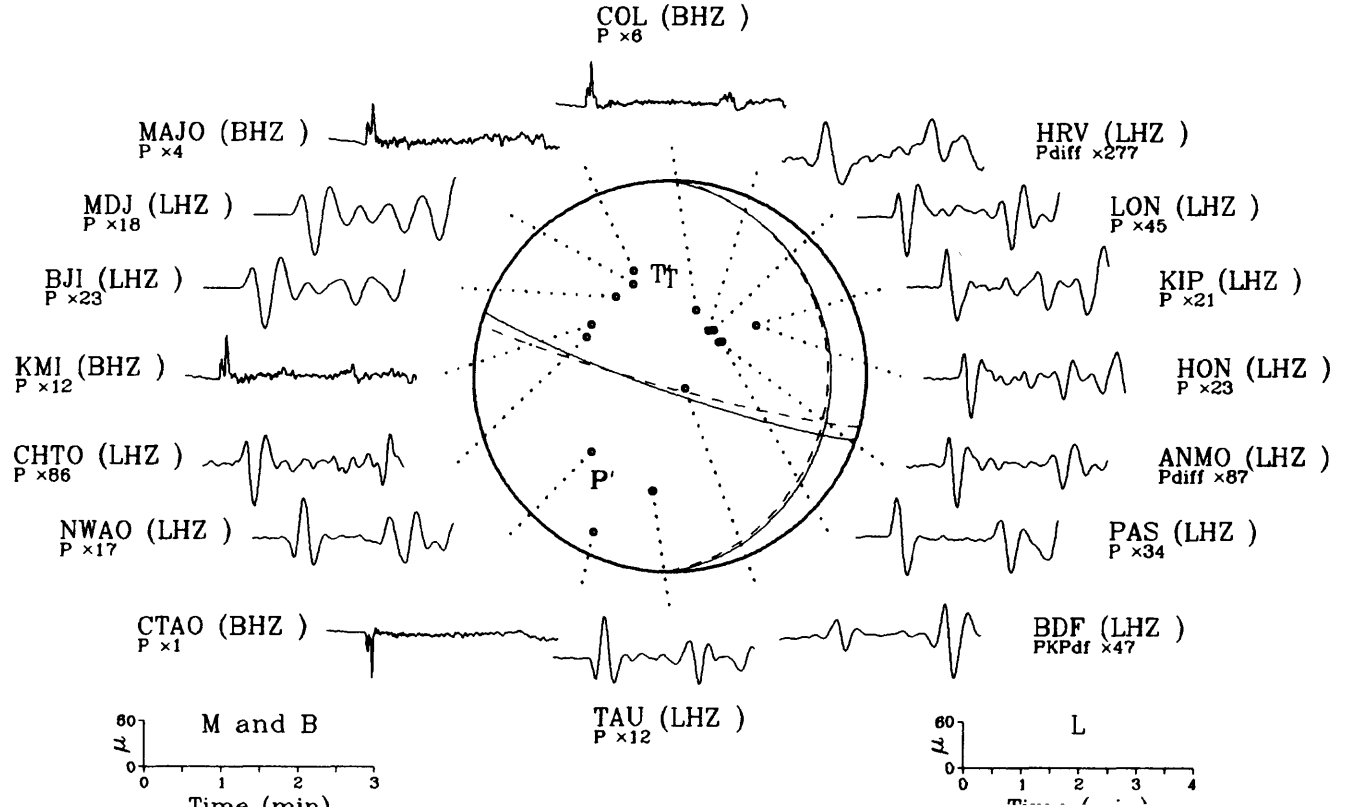
21 August 1989 01:09:06.63
Ethiopia



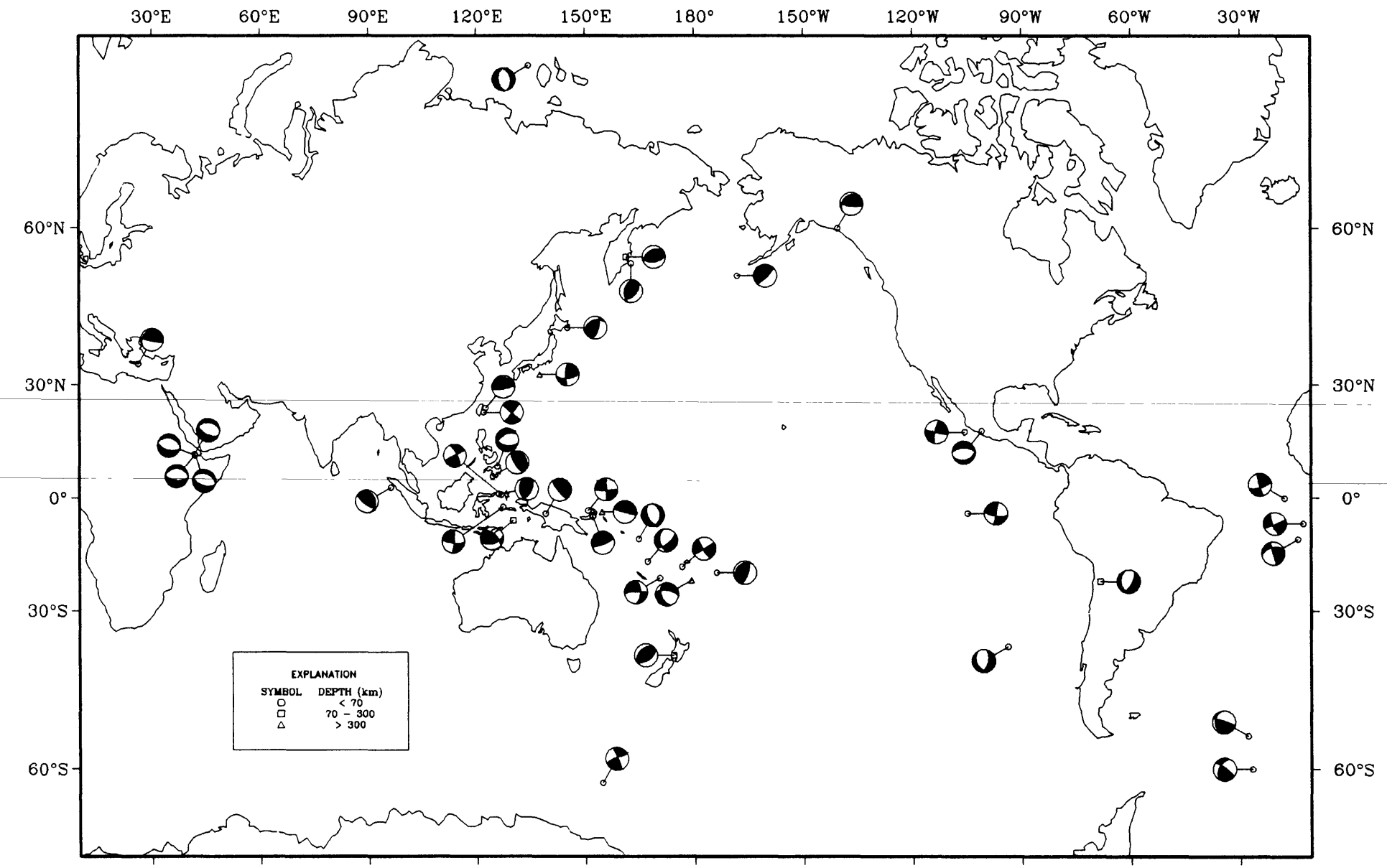
21 August 1989 05:03:05.60
Ethiopia

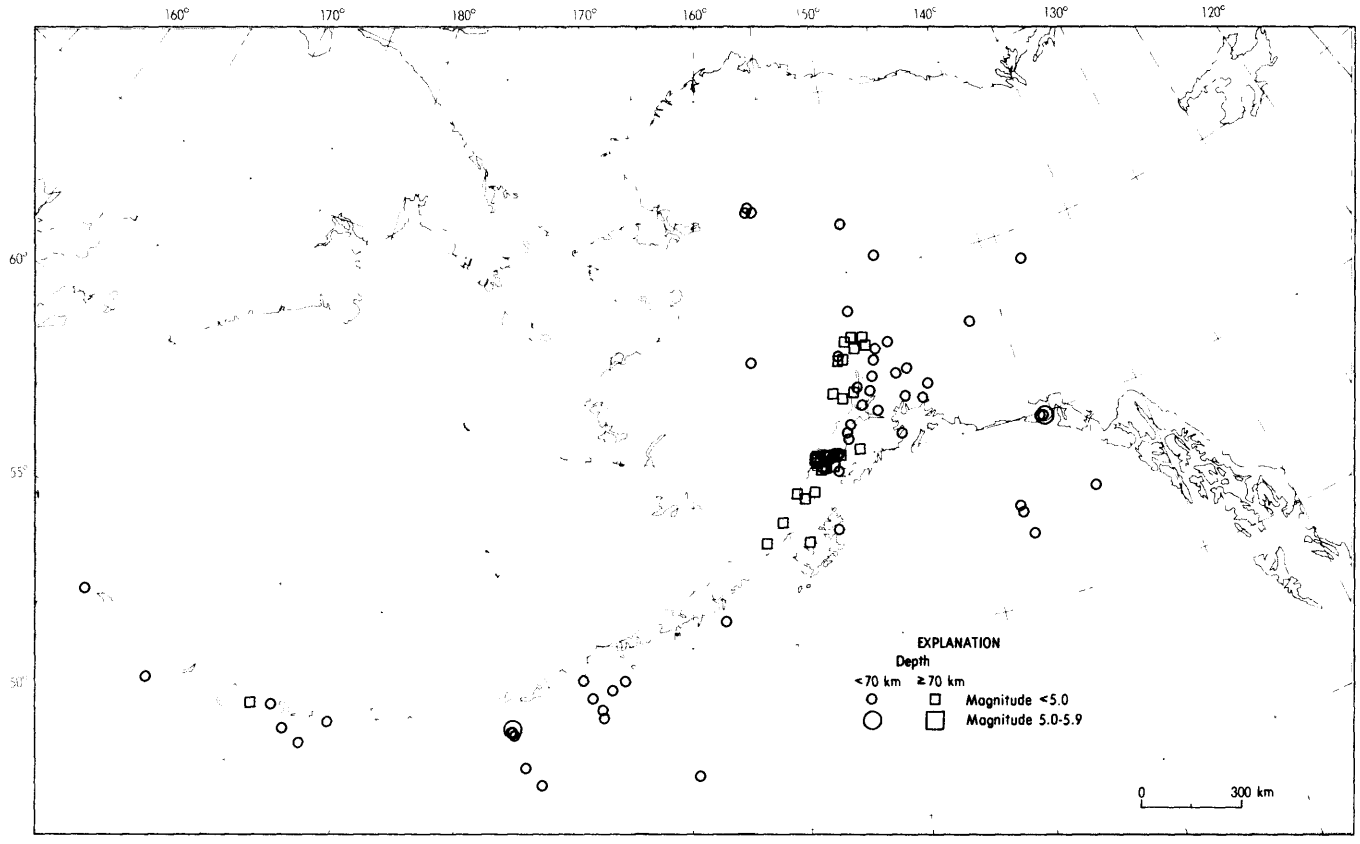


21 August 1989 18:25:41.05
Solomon Islands

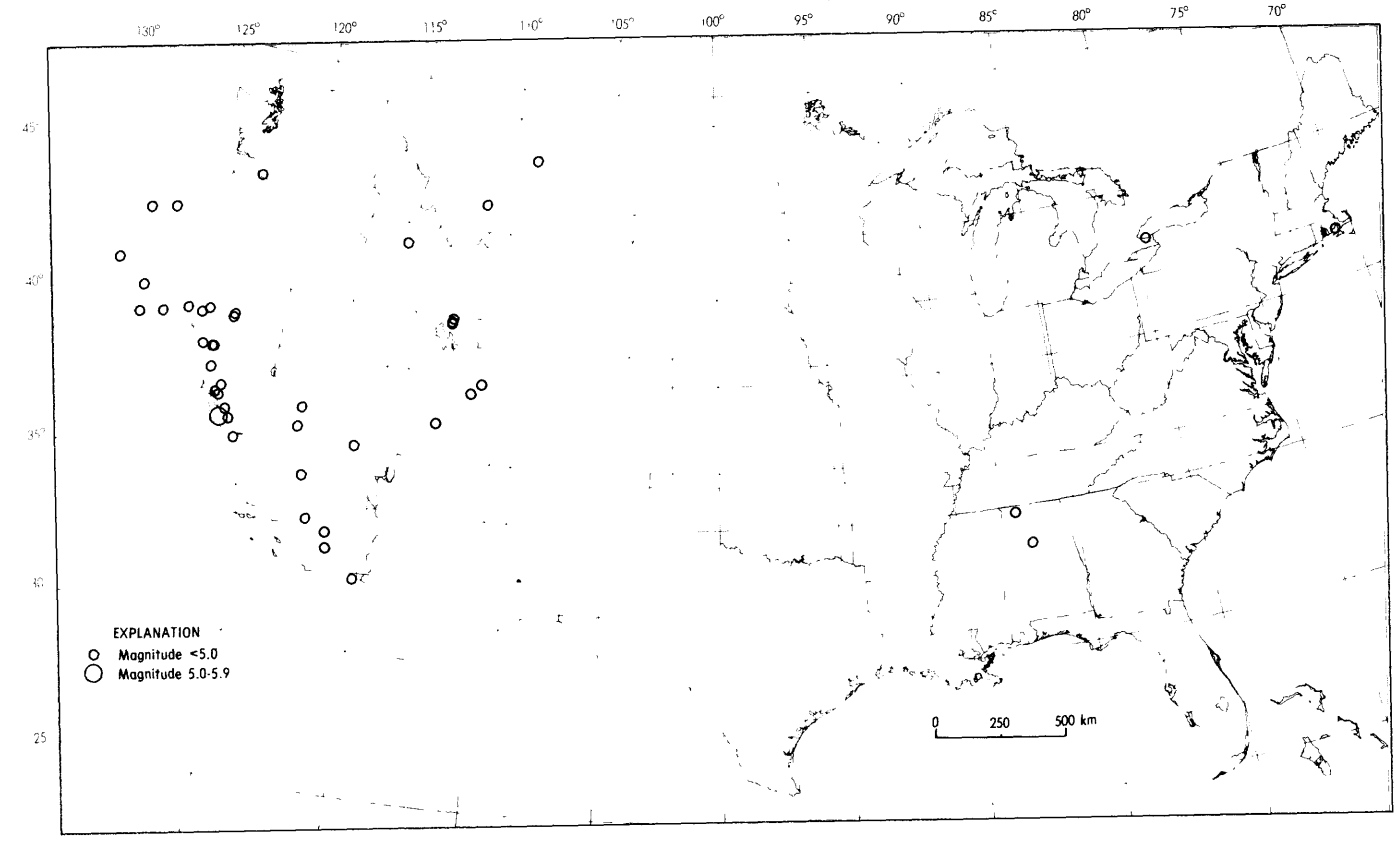


Earthquake Focal Mechanisms for August 1989

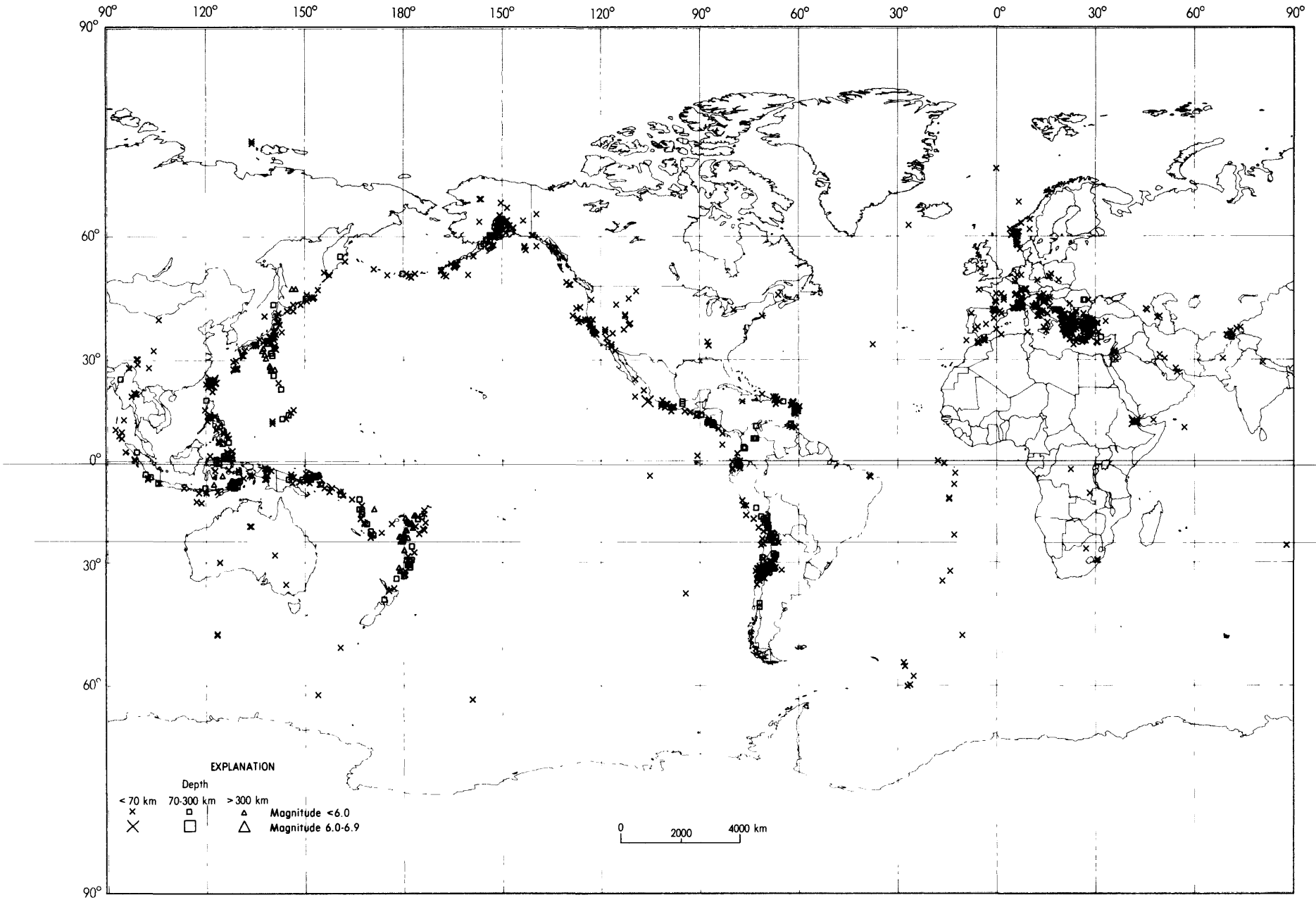




Earthquake epicenters in Alaska and adjacent regions for August, 1989 (C. Stover).



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



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

PRELIMINARY DETERMINATION OF EPICENTERS

MONTHLY LISTING

U.S. DEPARTMENT OF THE INTERIOR / GEOLOGICAL SURVEY

National Earthquake Information Center

SEPTEMBER 1989

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	26	54.9	41.963	N	20.364	E	10	G			1.2	7	ALBANIA. ML 2.5 (SKO).
	01	00	40	17.9	51.840	N	178.851	W	33	N	4.6		1.1	33	ANDREANOF ISLANDS, ALEUTIAN IS.
	01	00	46	30.2*	23.126	S	68.252	W	138	?	4.2		1.2	9	NORTHERN CHILE
	01	03	08	10.1*	20.438	S	177.708	W	448	?	4.6		0.7	30	FIJI ISLANDS REGION
	01	05	14	18.2*	30.871	S	177.949	W	119	?	4.9		1.2	24	KERMADEC ISLANDS
	01	05	28	40.2*	51.509	N	175.078	W	33	N	3.9		0.7	9	ANDREANOF ISLANDS, ALEUTIAN IS.
	01	06	42	13.4	0.162	S	78.369	W	10	G			1.2	8	ECUADOR. Felt (III) at Quito.
	01	09	10	00.2*	18.332	S	167.977	E	10	G	4.6		1.1	18	VANUATU ISLANDS
	01	09	55	39.2*	5.380	S	152.284	E	50	*	4.9	3.5	0.9	16	NEW BRITAIN REGION
	01	09	55	46.6	44.250	N	7.451	E	10	G			0.4	8	NORTHERN ITALY. ML 2.1 (GEN).
	01	10	00	14.2%	44.392	N	8.331	E	10	G			0.4	8	NORTHERN ITALY. ML 2.0 (GEN).
	01	10	27	06.7	41.797	N	19.905	E	13				1.3	14	ALBANIA. ML 2.6 (TTG).
	01	10	41	47.2*	43.024	N	13.257	E	10	G			0.6	5	CENTRAL ITALY. MD 2.3 (SSO).
	01	10	48	32.3	20.550	S	69.108	W	106		4.9		1.4	75	NORTHERN CHILE
o	01	11	57	22.5	6.699	S	108.426	E	222	D	5.3		1.0	102	JAVA
	01	11	58	20.5?	50.44	N	6.14	E	10	G			0.2	4	GERMANY. MD 1.7 (UCC).
	01	11	59	19.4?	50.44	N	6.12	E	10	G			0.3	4	GERMANY
	01	12	25	29.6%	59.959	N	6.268	E	10	G			1.0	8	SOUTHERN NORWAY. ML 2.0 (BER).
	01	13	12	11.6*	50.241	N	6.505	E	10	G			0.5	5	GERMANY. MD 2.0 (UCC).
	01	14	02	43.9*	10.336	N	63.725	W	10	G	4.6		0.7	9	NEAR COAST OF VENEZUELA
	01	14	04	15.5%	61.333	N	4.195	E	10	G			1.4	10	SOUTHERN NORWAY. ML 2.2 (BER).
	01	14	42	22.2	28.012	S	70.134	W	95		5.0		1.0	22	CENTRAL CHILE
	01	14	53	32.1*	51.521	N	16.136	E	10	G			0.9	8	POLAND. ML 3.7 (VKA), 3.7 (KBA).
	01	15	14	25.6	38.841	N	25.768	E	10	G			1.3	29	AEGEAN SEA. ML 3.5 (ATH).
	01	15	22	54.6	43.435	N	12.964	E	10	G			0.2	6	CENTRAL ITALY
	01	16	13	58.5	36.003	N	70.369	E	103	*	4.5		0.9	12	HINDU KUSH REGION
	01	17	01	34.4?	48.80	N	9.01	E	10	G			0.3	5	GERMANY. MD 1.0 (STR).
	01	17	16	45.9?	5.75	S	147.12	E	200	*	4.9		0.9	12	EAST PAPUA NEW GUINEA REGION
	01	17	45	25.6*	39.390	N	21.718	E	10	G	3.2		1.0	5	GREECE. MD 3.0 (ATH).
	01	18	03	31.2	37.695	N	29.282	E	10	G			1.1	8	TURKEY
	01	18	05	44.0*	37.738	N	29.210	E	10	G			1.0	5	TURKEY
	01	18	11	01.3*	22.757	S	179.882	W	623	?	4.8		1.0	26	SOUTH OF FIJI ISLANDS
	01	18	11	37.2*	37.721	N	29.241	E	10	G			0.7	5	TURKEY
	01	18	21	50.1*	5.970	N	124.407	E	33	N	4.4		1.4	20	MINDANAO, PHILIPPINE ISLANDS
	01	18	37	30.3?	39.30	N	21.52	E	10	G			0.4	4	GREECE. MD 3.2 (ATH).
	01	19	02	07.5	19.053	S	169.478	E	264		4.9		0.9	93	VANUATU ISLANDS
	01	19	13	24.1	47.765	N	15.984	E	10	G			1.0	11	AUSTRIA. ML 3.5 (GRF), 3.1 (KBA), 3.0 (VKA). Felt (V) Gloggnitz.
	01	22	03	21.6	37.735	N	29.206	E	10	G			0.7	6	TURKEY
	01	23	13	49.1*	16.109	S	174.695	W	254	*	4.7		0.9	33	TONGA ISLANDS
	01	23	28	31.7	10.982	N	122.059	E	33	N	4.7	4.4	1.1	36	PANAY, PHILIPPINE ISLANDS
	02	00	08	42.3?	61.23	N	2.48	E	10	G			1.2	6	NORWEGIAN SEA. MD 2.0 (BER).
	02	00	17	40.9?	61.36	N	3.09	E	10	G			1.0	8	NORWEGIAN SEA. MD 2.4 (BER).
	02	00	50	32.6	10.637	S	161.391	E	31	D	4.6	4.6	1.3	27	SOLOMON ISLANDS
	02	01	18	17.3	37.897	N	14.702	E	11				1.3	26	SICILY
	02	01	32	52.8*	35.651	N	22.128	E	33	N			1.1	10	MEDITERRANEAN SEA
	02	02	49	23.5?	5.73	S	135.24	E	33	N	4.3		1.5	7	WEST IRIAN REGION
	02	03	57	18.7	49.196	N	6.955	E	10	G			0.4	7	GERMANY. MD 2.1 (STR).
	02	04	16	57.3	50.039	N	79.019	E	0	G	5.0		0.8	135	EASTERN KAZAKH SSR
	02	05	39	35.6&	33.510	N	116.440	W	9					11	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
	02	05	57	29.2	22.244	S	179.543	W	583	*	5.1		0.9	68	SOUTH OF FIJI ISLANDS
	02	06	48	37.0?	12.95	S	65.90	E	10	G	4.7		1.1	8	MID-INDIAN RISE
	02	08	19	14.6?	5.37	S	144.08	E	114	*			1.4	6	PAPUA NEW GUINEA
	02	10	11	35.8*	44.244	N	6.686	E	10	G			0.4	10	FRANCE. ML 1.9 (GEN).
	02	10	27	48.0	44.423	N	7.261	E	12				0.5	21	NORTHERN ITALY. ML 2.8 (FDF), 2.6 (GEN). MD 1.6 (STR).
	02	12	08	49.2%	43.873	N	12.016	E	10	G			0.3	6	CENTRAL ITALY
	02	13	00	04.8*	36.145	N	2.782	E	10	G			1.1	14	ALGERIA. mbLg 3.3 (MDD).
	02	13	15	34.9?	40.08	S	175.77	E	31	*			1.3	7	NORTH ISLAND, NEW ZEALAND

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a	02	14	20	59.0	17.819	S	178.549	W	613	D	5.3	0.9	182	FIJI ISLANDS REGION
	02	16	22	05.5&	31.680	N	116.250	W	6				6	BAJA CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
a	02	16	53	26.7	4.242	S	152.942	E	44	D	5.4 5.3	1.0	188	NEW BRITAIN REGION
	02	16	56	37.3	4.227	S	153.163	E	33	N	5.2	1.0	32	NEW IRELAND REGION
	02	17	08	53.4?	32.62	S	71.46	W	10	G		0.6	7	NEAR COAST OF CENTRAL CHILE
	02	17	38	23.8	45.661	N	6.797	E	10	G		0.7	21	FRANCE. ML 2.8 (LDG), 2.6 (GEN).
	02	17	50	56.1	35.994	N	140.178	E	86		4.1	0.8	15	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Tokyo.
	02	18	09	58.6	0.080	N	24.866	W	10	G	5.1 5.4	1.0	70	CENTRAL MID-ATLANTIC RIDGE
	02	19	22	44.2?	34.56	S	72.35	W	10	G		1.0	10	NEAR COAST OF CENTRAL CHILE
	02	20	48	12.4	13.545	N	90.632	W	69		4.5	1.3	32	NEAR COAST OF GUATEMALA. Felt (II) at San Salvador, El Salvador.
	02	21	31	26.2&	36.877	N	121.625	W	6				15	CENTRAL CALIFORNIA. <BRK>. ML 3.2 (BRK).
	02	22	00	26.9*	0.175	N	24.858	W	10	G	5.0 4.9	1.5	34	CENTRAL MID-ATLANTIC RIDGE
a	02	22	29	25.7	25.607	N	125.251	E	31	*	5.1 5.5	1.3	72	SOUTHWESTERN RYUKYU ISLANDS. Felt (I JMA) on Miyako-jima.
	03	00	01	32.2	37.876	N	14.694	E	10	G		1.3	8	SICILY
	03	00	03	19.5	37.867	N	14.704	E	10	G		1.0	7	SICILY
	03	00	12	06.6	5.467	S	152.174	E	44	*	4.8	0.7	13	NEW BRITAIN REGION
a	03	00	19	37.7	25.540	N	125.263	E	38		5.1 5.1	1.1	82	SOUTHWESTERN RYUKYU ISLANDS. Felt (II JMA) on Miyako-jima.
	03	01	11	20.1*	11.857	S	34.875	E	10	G	4.3	0.9	8	MALAWI
	03	03	43	38.8*	22.609	S	68.934	W	10	G		0.9	5	NORTHERN CHILE
	03	04	13	36.4*	37.755	N	15.038	E	10	G		0.1	5	SICILY
	03	04	23	10.1	37.899	N	15.021	E	10	G		0.7	6	SICILY
	03	05	09	31.9	37.793	N	15.223	E	10	G		1.0	9	SICILY
	03	06	26	53.1	37.766	N	15.071	E	10	G		0.5	6	SICILY
	03	07	39	57.7*	0.485	N	126.433	E	33	N	4.5	1.3	11	MOLUCCA PASSAGE
	03	07	48	06.6*	19.337	N	66.922	W	30			0.9	10	PUERTO RICO REGION
	03	08	10	27.4&	60.208	N	152.590	W	88				26	SOUTHERN ALASKA. <AGS-P>.
	03	08	36	32.3	4.527	S	139.084	E	10	G	5.1 4.6	0.9	82	WEST IRIAN
	03	10	14	30.1*	41.324	N	142.242	E	83	?	4.4	1.0	23	HOKKAIDO, JAPAN REGION
	03	11	27	33.9*	16.069	N	93.344	W	60	?	4.2	1.3	9	CHIAPAS, MEXICO
	03	11	39	42.1*	25.549	N	125.409	E	33	N	4.2	1.0	12	SOUTHWESTERN RYUKYU ISLANDS. Felt (I JMA) on Miyako-jima.
	03	13	20	00.5*	34.727	S	70.283	W	10	G		0.8	8	CHILE-ARGENTINA BORDER REGION
	03	13	27	17.4	40.901	N	27.773	E	10	G		0.8	12	TURKEY
	03	13	31	03.6?	37.42	N	4.56	W	10	G		0.5	4	SPAIN. mbLg 2.7 (MDD).
	03	13	50	57.4*	0.108	N	122.599	E	175	*	5.0	1.3	24	MINAHASSA PENINSULA
	03	14	16	50.9	5.426	S	152.063	E	51	*	4.8	0.9	38	NEW BRITAIN REGION
	03	14	30	32.1?	5.27	S	152.27	E	33	N	4.5	0.7	8	NEW BRITAIN REGION
	03	14	49	17.1	39.115	N	29.142	E	5	G		1.2	9	TURKEY
	03	14	56	22.9%	39.131	N	29.099	E	10	G		0.9	9	TURKEY
	03	15	04	08.8	47.740	N	7.084	E	10	G		0.7	11	SWITZERLAND. ML 2.7 (LDG). MD 2.0 (STR).
	03	15	09	44.0	47.760	N	6.943	E	14			0.9	52	FRANCE. ML 3.6 (LDG), 3.3 (KBA). MD 3.5 (STR).
	03	15	13	21.8	47.749	N	7.052	E	10	G		0.2	8	SWITZERLAND. ML 2.4 (LDG).
	03	15	24	43.0&	38.758	N	122.898	W	7				18	NORTHERN CALIFORNIA. <BRK>. ML 3.9 (BRK). Mo=1.1*10**15 Nm (BRK). Felt (III) at Cobb.
	03	16	13	57.6%	39.268	N	29.175	E	10	G		1.2	8	TURKEY
	03	16	16	03.4?	34.23	N	135.23	E	10	G		0.6	4	NEAR S. COAST OF SOUTHERN HONSHU. MG 1.8 (JMA). Felt (I JMA) at Wakayama.
	03	16	16	45.4&	59.347	N	153.140	W	90				27	SOUTHERN ALASKA. <AGS-P>.
	03	17	14	58.6?	7.62	S	129.27	E	177	?	4.4	1.4	6	BANDA SEA
	03	19	01	25.9	9.013	S	116.045	E	33	N	4.9	1.3	52	SUMBAWA ISLAND REGION
	03	19	18	07.4	49.521	N	156.441	E	82	D	4.9	0.7	122	KURIL ISLANDS. Felt (IV) at Mys Vasilyeva and (II) at Severo-Kurilsk.
	03	20	00	59.9	45.655	N	14.280	E	10	G		0.3	7	YUGOSLAVIA. MD 2.5 (LJU), 2.0 (TRI).
	03	20	52	15.5*	37.953	S	177.820	E	60	*	5.2	1.2	34	OFF E. COAST OF N. ISLAND, N.Z. Felt in the Bay of Plenty region.
	03	20	56	21.4*	24.443	S	67.272	W	180	*	4.2	1.0	9	CHILE-ARGENTINA BORDER REGION
	03	21	16	53.5?	9.40	S	126.20	E	33	N	4.1	1.1	7	TIMOR
	03	22	03	56.3	39.571	N	102.750	E	10	G	4.4	1.4	20	NORTHERN CHINA
	03	23	53	01.0	24.138	S	66.906	W	227	*		0.7	9	SALTA PROVINCE, ARGENTINA
	04	01	06	22.5*	30.688	N	35.398	E	10	G		1.4	6	DEAD SEA REGION
	04	01	07	27.8*	6.038	S	147.847	E	61	*	4.8 3.7	1.2	20	EAST PAPUA NEW GUINEA REGION
	04	04	11	24.2*	41.076	N	24.578	E	10	G		1.5	7	GREECE-BULGARIA BORDER REGION
f	04	05	20	55.9	4.219	S	136.667	E	9	G	5.8 6.0	1.0	274	WEST IRIAN REGION. Ms 5.9 (BRK), 5.5 (PAS). Damage at Tembagapura. Two events about 2.5 seconds apart. Depth from broadband displacement seismograms, based on second event.
	04	06	26	52.4	37.034	N	27.999	E	10	G		1.5	18	TURKEY. MD 3.9 (ATH).
	04	06	34	54.4&	47.898	N	122.640	W	18				20	WASHINGTON. <SEA-P>. CL 2.7 (SEA). Felt at Hood Head, just west of Port Gamble.
	04	06	51	24.6?	9.31	S	123.68	E	33	N	3.7	1.1	6	TIMOR
	04	07	12	35.7	37.101	N	140.736	E	88		4.5	1.0	37	HONSHU, JAPAN. Felt (III JMA) at Utsunomiya; (II JMA) at Onahama and Mito; (I JMA) at Shirakawa, Fukushima, Sendai and Tokyo.
a	04	07	18	32.8	33.329	S	178.805	W	33	N	5.3	1.1	53	SOUTH OF KERMADEC ISLANDS
	04	08	11	58.3?	37.09	N	3.73	W	10	G		0.4	4	SPAIN. mbLg 2.6 (MDD).
	04	08	12	41.8	39.276	N	29.126	E	10	G		0.9	7	TURKEY
	04	08	31	29.7*	33.172	S	179.272	W	33	N		1.2	15	SOUTH OF KERMADEC ISLANDS
	04	08	50	57.4?	46.70	N	150.68	E	166	?	4.2	1.0	11	KURIL ISLANDS
	04	09	18	39.4?	5.15	S	148.01	E	33	N	4.5	0.9	6	NEW BRITAIN REGION
	04	10	48	34.3	5.597	N	126.561	E	66	D	4.7	1.3	35	MINDANAO, PHILIPPINE ISLANDS
	04	12	26	03.5*	36.952	N	29.361	E	10	G		1.5	5	TURKEY
	04	12	54	35.8?	41.20	N	23.18	E	10	G		1.2	6	GREECE-BULGARIA BORDER REGION
f	04	13	14	58.2	55.543	N	156.835	W	11	G	6.5 6.9	1.2	507	SOUTH OF ALASKA. ML 6.9 (PMR). Ms 6.7 (BRK), 6.4 (PAS). Felt (V) at Chignik, Chignik Lagoon and Port Heiden; (IV) at Perryville, Sand Point and Togiak; (III) at Egegik, Homer, King Cove, Pilot Point and Unalaska; (II) at King Salmon. Also felt at Cold Bay and Kenai. Two events about 2.5 seconds apart. Depth from broadband displacement seismograms, based on the second

														event.
	04	13	36	54.6	37.091	N	29.347	E	10	G			1.2	6 TURKEY
	04	14	57	28.1	33.262	S	178.689	W	42	D	5.4		1.3	97 SOUTH OF KERMADEC ISLANDS
	04	15	17	36.4?	32.54	S	71.99	W	10	G			0.5	7 NEAR COAST OF CENTRAL CHILE
	04	15	54	32.1&	40.757	N	124.602	W	18					6 NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.3 (BRK).
	04	15	57	58.0	64.025	N	148.712	W	33	N			0.4	7 CENTRAL ALASKA. ML 3.0 (PMR).
	04	17	38	12.0•	36.449	S	72.904	W	9				0.8	15 NEAR COAST OF CENTRAL CHILE
	04	17	45	18.9•	54.303	N	159.193	E	70	G	4.4		0.8	17 NEAR EAST COAST OF KAMCHATKA
	04	17	53	41.0&	33.330	N	116.240	W	10					11 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
	04	21	36	45.4	21.680	N	119.854	E	10	G	4.2	3.9	1.1	42 TAIWAN REGION
	04	22	30	19.3•	36.853	N	26.598	E	10	G			1.5	7 DODECANESE ISLANDS. MD 3.5 (ATH).
	04	22	46	27.6?	15.56	N	60.83	W	33	N			0.2	5 LEEWARD ISLANDS. ML 2.2 (FDF).
	05	02	30	14.2%	43.113	N	0.615	W	10	G			0.2	8 PYRENEES. MD 1.0 (STR).
	05	02	31	47.5&	62.140	N	153.197	W	0					27 CENTRAL ALASKA. <AGS-P>.
	05	04	07	04.3	35.463	N	140.157	E	72		4.9		1.0	88 NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Tokyo, Yokohama and Utsunomiya; (I JMA) at Choshi, Mito, Kumagaya, Ajiro, Kofu and on Oshima.
	05	05	06	52.7•	6.299	S	130.097	E	33	N	4.6	4.8	1.2	13 BANDA SEA
	05	05	08	46.0•	28.305	S	67.775	W	141	?			1.5	14 LA RIOJA PROVINCE, ARGENTINA
	05	05	10	04.3	47.069	N	8.835	E	9				0.9	24 SWITZERLAND. ML 3.1 (LDG). MD 2.9 (STR).
	05	05	22	42.9%	36.966	N	29.338	E	10	G			0.5	5 TURKEY
a	05	05	51	55.2	4.260	N	127.408	E	42	D	5.6	5.0	1.2	176 TALAUD ISLANDS
a	05	06	28	11.8	14.218	N	93.755	W	35	D	5.6	4.9	1.1	210 NEAR COAST OF CHIAPAS, MEXICO. Ms 5.0 (BRK).
	05	06	45	48.3•	41.933	N	15.886	E	33	N			1.4	13 SOUTHERN ITALY
	05	06	51	28.5?	7.09	S	147.43	E	33	N			1.1	5 EAST PAPUA NEW GUINEA REGION
a	05	06	52	30.1	40.200	N	25.086	E	10	G	4.9	5.0	1.3	196 AEGEAN SEA. ML 5.0 (TTG), 4.9 (ATH). Felt in the Edirne-Canakkale area, Turkey and in ports of Macedonia and Thrace, Greece.
	05	07	57	50.7•	40.162	N	25.111	E	10	G			0.5	6 AEGEAN SEA
	05	08	50	13.6	35.472	N	31.121	E	22	•			1.4	13 CYPRUS. ML 4.1 (BHL), 4.0 (CSS).
	05	08	54	45.0?	21.62	S	69.69	W	157	?			0.5	6 NORTHERN CHILE
	05	09	15	40.6%	39.645	N	29.412	E	10	G			1.3	6 TURKEY
	05	09	21	49.5•	33.331	S	71.659	W	10	G			0.9	8 NEAR COAST OF CENTRAL CHILE
	05	09	22	54.6•	32.817	S	72.377	W	10	G	3.9		1.4	12 OFF COAST OF CENTRAL CHILE
	05	10	00	06.2%	43.080	N	0.605	W	10	G			0.3	7 PYRENEES. MD 1.3 (STR).
a	05	10	03	26.2	18.153	S	178.249	W	506		5.0		0.9	156 FIJI ISLANDS REGION
	05	10	59	47.5	5.420	N	126.579	E	109	?	4.6		1.1	34 MINDANAO, PHILIPPINE ISLANDS
a	05	11	25	55.8	29.459	N	128.560	E	19	D	5.2	5.3	1.2	84 EAST CHINA SEA. Felt (I JMA) at Naze, Ryukyu Islands and at Kagoshimo, Kyushu.
	05	12	16	32.2%	42.786	N	19.189	E	10	G			0.2	5 YUGOSLAVIA. ML 2.0 (TTG).
	05	13	03	35.5&	55.725	N	155.932	W	108					10 SOUTH OF ALASKA. <PAL>.
	05	13	03	36.1	29.502	N	128.542	E	10	G	5.0		1.0	71 EAST CHINA SEA. Felt (II JMA) at Naze, Ryukyu Islands.
	05	13	15	15.9?	57.86	N	6.16	E	10	G			1.0	7 NORTH SEA. MD 2.3 (BER).
	05	13	42	33.8	43.403	N	5.413	E	10	G			0.7	8 NEAR SOUTH COAST OF FRANCE. MD 2.6 (STR).
	05	14	39	46.0	7.138	N	121.691	E	33	?	4.8		1.1	44 MINDANAO, PHILIPPINE ISLANDS
	05	16	54	20.8&	60.861	N	151.589	W	69					18 KENAI PENINSULA, ALASKA. <AGS-P>.
	05	17	52	16.6?	5.59	S	145.66	E	84	?	4.2		1.1	6 EAST PAPUA NEW GUINEA REGION
	05	18	58	34.3?	18.35	N	61.82	W	10	G			1.5	9 LEEWARD ISLANDS. ML 2.9 (FDF).
a	05	19	49	03.8	52.810	S	140.316	E	10	G	5.3	5.4	1.1	94 WEST OF MACQUARIE ISLAND
	05	20	02	56.7	41.943	N	15.358	E	33	N			1.2	15 SOUTHERN ITALY
a	05	20	49	34.4	11.732	S	34.450	E	10	G	4.9		0.9	50 MALAWI
	05	21	02	18.8	35.844	N	140.255	E	70	•			0.6	15 NEAR EAST COAST OF HONSHU, JAPAN. MG 3.9 (JMA). Felt (II JMA) at Utsunomiya and (I JMA) at Kumagayo.
	05	21	41	00.0?	11.76	S	34.22	E	10	G	3.9		1.3	7 MALAWI
	05	21	52	11.8&	63.337	N	149.331	W	96					20 CENTRAL ALASKA. <AGS-P>.
	05	22	36	16.2&	37.382	N	121.742	W	6					14 CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
	05	22	45	13.1•	53.349	N	163.523	W	33	N	4.6		1.2	23 UNIMAK ISLAND REGION
	05	22	59	46.5?	46.30	N	13.57	E	10	G			0.1	4 AUSTRIA. MD 2.6 (LJU), 2.0 (TRI). Felt (IV) at Lepena, Yugoslovia.
	06	00	16	36.5	35.628	N	27.613	E	10	G			1.2	10 DODECANESE ISLANDS
	06	03	09	23.0	71.004	N	7.119	W	10	G	3.9		1.3	13 JAN MAYEN ISLAND REGION. MD 3.7 (BER).
	06	03	42	43.8	44.847	N	8.939	E	7				1.2	37 NORTHERN ITALY. ML 3.1 (LDG), 2.2 (GEN). MD 1.5 (STR).
	06	05	08	04.7•	14.512	N	119.593	E	10	G	4.6		1.3	19 LUZON, PHILIPPINE ISLANDS
	06	05	34	02.1•	55.464	N	156.775	W	33	N	4.0		0.4	13 SOUTH OF ALASKA
	06	05	51	32.8&	59.243	N	145.346	W	10	G				6 GULF OF ALASKA. <AGS-P>.
	06	06	43	05.9•	2.372	N	126.555	E	33	N	4.7		1.0	9 MOLUCCA PASSAGE
	06	06	58	16.5&	37.555	N	121.660	W	6					15 CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK).
	06	08	41	35.7	4.271	S	136.728	E	33	N	4.9	4.4	1.2	55 WEST IRIAN REGION. Felt at Tembagapura.
a	06	09	10	39.2•	36.087	S	103.171	W	10	G	5.0	5.4	1.5	42 SOUTHERN PACIFIC OCEAN
	06	09	45	33.7&	37.692	N	121.985	W	6					16 CENTRAL CALIFORNIA. <BRK>. ML 2.9 (BRK). Mo=1.1•10••14 Nm (BRK). Felt at Castro Valley.
	06	10	50	32.6?	53.55	N	164.37	W	33	N			0.5	11 UNIMAK ISLAND REGION
	06	11	23	37.8	3.913	S	125.119	E	10	G	4.9		1.3	41 CERAM SEA
	06	11	54	39.6•	9.317	S	78.718	W	79	•	4.4		1.3	24 NEAR COAST OF NORTHERN PERU. Felt (IV) at Chimbote, (III) at Huacho and (II) at Trujillo.
	06	12	01	07.4%	39.483	N	29.268	E	10	G			1.0	5 TURKEY
	06	12	05	22.8%	39.217	N	27.843	E	10	G			1.3	5 TURKEY
	06	12	06	46.1&	63.258	N	150.822	W	78					8 CENTRAL ALASKA. <AGS-P>.
	06	12	16	57.8	24.048	N	122.562	E	24	D	4.2	4.5	1.2	45 TAIWAN REGION
	06	12	18	52.2	37.938	N	19.737	E	20	•	3.9		1.4	23 IONIAN SEA. ML 3.8 (ATH).
a	06	12	57	32.6	1.322	S	67.600	E	10	G	4.9	5.1	1.3	63 CARLSBERG RIDGE
	06	13	14	09.9&	41.280	N	125.348	W	25	G				56 OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 4.1 (BRK).
	06	13	39	38.1	23.993	N	122.569	E	33		5.0	4.3	1.2	38 TAIWAN REGION
	06	14	35	32.5%	59.919	N	6.066	E	10	G			0.8	6 SOUTHERN NORWAY. ML 1.7 (BER).
	06	14	45	33.5%	43.385	N	5.407	E	10	G			1.1	8 NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).
a	06	14	45	51.0	0.976	N	126.106	E	37		5.8	5.5	1.2	273 MOLUCCA PASSAGE. Two events about 2 seconds apart, observed on broadband displacement seismograms.
	06	14	59	06.0	0.957	N	126.088	E	40	•	4.8		1.1	41 MOLUCCA PASSAGE
	06	16	04	41.5	4.781	N	96.141	E	28	•	4.6		1.1	19 NORTHERN SUMATERA
	06	16	31	53.3•	51.231	N	15.688	E	5	G			1.2	9 POLAND. ML 3.5 (GRF), 3.3 (VKA), 2.7 (KRA).
	06	17	35	43.7	44.703	N	7.268	E	10	G			0.5	18 NORTHERN ITALY. ML 2.6 (GEN), 2.5 (LDG).
	06	17	54	17.7	24.452	S	179.868	W	517	?	4.9		1.1	40 SOUTH OF FIJI ISLANDS
	06	18	10	00.5&	55.267	N	162.720	W	170					12 ALASKA PENINSULA. <PAL>.

	06	21	27	27.1	27.657	N	33.862	E	10	G		0.8	15 ARAB REPUBLIC OF EGYPT. ML 4.0 (JER). MD 4.0 (HLW).
	06	22	19	37.3*	0.995	N	126.089	E	33	N	4.6	1.1	17 MOLUCCA PASSAGE
	06	23	25	34.1	0.969	N	126.054	E	91	?	4.7	1.0	22 MOLUCCA PASSAGE
	07	02	30	57.7?	51.63	N	16.26	E	10	G		0.6	8 POLAND. ML 3.5 (VKA).
	07	02	54	13.2	45.763	N	15.735	E	10	G		0.8	10 YUGOSLAVIA. ML 2.6 (KBA). MD 3.1 (LJU), 2.7 (TRI). Felt at Samobor.
	07	03	59	51.4*	36.955	N	140.958	E	33	N		0.7	8 NEAR EAST COAST OF HONSHU, JAPAN
	07	04	24	52.6?	32.17	S	71.05	W	118	?		1.2	10 NEAR COAST OF CENTRAL CHILE
	07	04	59	28.2?	30.05	N	141.99	E	33	N	4.2	1.0	6 SOUTH OF HONSHU, JAPAN
	07	05	19	47.3*	16.028	N	95.854	W	33	N	3.0	1.4	9 OAXACA, MEXICO
	07	06	33	06.1%	41.488	N	19.767	E	10	G		1.3	5 ALBANIA. ML 2.5 (SKO).
	07	06	44	11.9*	53.811	N	160.903	E	33	N	4.5	0.8	25 NEAR EAST COAST OF KAMCHATKA
	07	07	57	28.5	23.919	N	121.646	E	14		4.9	1.1	83 TAIWAN
	07	08	07	30.0*	37.496	N	21.181	E	33	N	4.1	1.3	20 SOUTHERN GREECE
	07	08	18	33.1	23.883	N	121.688	E	15		4.8	1.3	43 TAIWAN
	07	08	35	10.7&	56.634	N	154.546	W	75				16 KODIAK ISLAND REGION. <AGS-P>.
	07	10	07	13.6%	38.027	N	29.178	E	10	G		1.3	6 TURKEY
a	07	10	25	45.7	23.168	S	175.861	W	33	N	5.1 4.6	1.0	74 TONGA ISLANDS REGION
	07	11	13	03.4*	24.654	S	179.805	E	501	?	4.3	1.1	31 SOUTH OF FIJI ISLANDS
	07	12	16	58.8?	47.29	N	7.57	E	10	G		0.2	6 SWITZERLAND. MD 1.0 (STR).
	07	12	49	44.0?	23.91	N	122.77	E	10	G		1.3	7 TAIWAN REGION
	07	13	20	33.4%	44.073	N	7.355	E	10	G		0.2	6 NORTHERN ITALY. ML 2.0 (GEN).
	07	13	20	35.8*	18.838	S	168.421	E	49	*	4.8	1.2	39 VANUATU ISLANDS
a	07	13	32	00.0	30.197	S	177.960	W	33		5.7 5.4	1.1	242 KERMADEC ISLANDS. Ms 5.5 (BRK), 5.4 (PAS).
	07	13	58	09.2	0.946	N	126.112	E	52	*	4.8	1.0	29 MOLUCCA PASSAGE
	07	14	46	37.1%	62.138	N	6.388	E	10	G		1.1	8 SOUTHERN NORWAY. MD 2.0 (BER).
	07	14	52	25.1	33.121	N	138.921	E	22			0.5	18 SOUTH OF HONSHU, JAPAN. MG 4.3 (JMA). Felt (I JMA) on Hachijo-jima.
	07	15	07	17.3*	48.523	N	8.186	E	5	G		0.3	6 GERMANY. MD 1.0 (STR).
	07	16	38	24.5?	32.87	S	72.16	W	33	N		0.4	6 OFF COAST OF CENTRAL CHILE
	07	16	50	40.9?	11.34	S	119.50	E	33	N	3.9	1.2	10 SOUTH OF SUMBA ISLAND
	07	17	54	41.9?	32.63	S	71.65	W	10	G		1.5	11 NEAR COAST OF CENTRAL CHILE
	07	18	10	56.8	9.414	N	93.303	E	71	*	4.3	1.2	27 NICOBAR ISLANDS REGION
	07	18	54	13.2%	44.337	N	7.312	E	10	G		0.2	5 NORTHERN ITALY. ML 1.6 (GEN).
	07	19	22	53.1%	40.352	N	29.139	E	10	G		1.0	10 TURKEY
	07	19	29	35.0*	23.931	N	122.743	E	10	G	4.4	1.2	19 TAIWAN REGION
	07	20	02	05.0*	24.001	S	179.799	W	491	?	5.1	1.0	54 SOUTH OF FIJI ISLANDS
	07	20	36	54.7	40.252	N	29.229	E	10	G		1.1	13 TURKEY
	07	21	01	54.3	41.680	N	19.512	E	10	G		1.1	15 ALBANIA. ML 2.8 (TTG).
	07	21	16	10.8?	33.32	S	71.58	W	10	G		0.2	6 NEAR COAST OF CENTRAL CHILE
	07	21	54	41.4*	32.493	S	70.805	W	130	?		0.9	13 CHILE-ARGENTINA BORDER REGION. Felt (II) in the Santiago, Chile area.
	07	22	22	19.9	31.798	S	69.498	W	120		4.1	1.0	28 SAN JUAN PROVINCE, ARGENTINA. Felt (III) in San Juan Province.
	07	23	18	01.1	55.239	N	163.071	E	33	D	4.8 4.2	0.8	69 OFF EAST COAST OF KAMCHATKA
	08	01	11	40.6?	51.57	N	16.25	E	10	G		0.6	7 POLAND. ML 3.4 (VKA), 3.2 (GRF), 2.6 (KRA).
	08	01	47	16.9&	56.135	N	152.300	W	10	G			11 KODIAK ISLAND REGION. <AGS-P>.
	08	02	10	29.1?	20.79	S	69.96	W	33	N		0.6	5 NORTHERN CHILE
	08	02	44	38.9*	22.450	S	68.501	W	121	*	4.2	1.3	12 NORTHERN CHILE
	08	03	05	34.6	5.933	N	125.793	E	175		5.1	0.9	59 MINDANAO, PHILIPPINE ISLANDS
	08	03	11	00.6*	5.774	S	102.786	E	33	N	5.0	1.1	28 SOUTHERN SUMATERA
	08	05	01	58.6*	16.663	N	94.908	W	123	*	4.4	0.9	8 OAXACA, MEXICO
a	08	06	15	05.6	52.766	S	9.851	E	10	G	5.3 5.6	1.2	70 SOUTHWEST OF AFRICA
	08	07	06	42.9?	22.42	N	121.28	E	10	G		0.1	6 TAIWAN REGION
	08	07	55	41.7%	44.825	N	7.761	E	10	G		0.7	9 NORTHERN ITALY. ML 2.4 (GEN).
a	08	08	25	39.8	30.178	S	177.844	W	47	*	5.3 5.2	1.1	61 KERMADEC ISLANDS. Felt (III) on Raoul Island.
	08	09	04	49.2	44.217	N	11.802	E	10	G		1.0	10 NORTHERN ITALY
	08	10	16	40.8&	37.645	N	121.687	W	5				9 CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
	08	11	19	17.1*	34.579	N	132.915	E	80	?		1.3	8 SOUTHERN HONSHU, JAPAN. MG 3.9 (JMA). Felt (I JMA) at Hiroshima.
	08	11	26	43.2	17.868	S	178.623	W	589	?	5.1	0.9	78 FIJI ISLANDS REGION
	08	12	14	65.1	38.510	N	23.558	E	10	G		0.6	11 GREECE. ML 3.1 (ATH).
	08	12	57	15.2?	11.54	S	119.58	E	33	N	4.2	1.4	8 SOUTH OF SUMBA ISLAND
	08	13	37	36.9	59.038	N	5.936	E	10	G		0.4	5 SOUTHERN NORWAY. MD 1.7 (BER).
	08	13	46	18.7	19.915	S	177.575	W	359	?	5.0	1.0	87 FIJI ISLANDS REGION
	08	15	47	19.6	36.675	N	139.337	E	5	G		1.0	6 HONSHU, JAPAN
	08	16	24	46.8&	64.178	N	139.223	W	18	G			14 SOUTHERN YUKON TERRITORY, CANADA. <PGC>. ML 4.0 (PGC). Felt at Dawson City.
	08	18	14	40.6	43.899	N	11.746	E	10	G		0.5	8 CENTRAL ITALY
	08	18	25	34.1	42.292	N	16.623	E	10	G		0.9	17 ADRIATIC SEA. ML 2.5 (TTG).
	08	19	10	28.8?	10.99	N	61.78	W	33	N		0.6	6 TRINIDAD
	08	19	40	37.0	37.897	N	23.084	E	11			1.1	17 SOUTHERN GREECE. ML 3.2 (ATH).
	08	20	12	15.9	43.395	N	46.604	E	33	N	4.7	1.5	28 EASTERN CAUCASUS. Felt (IV) at Khasavyurt and (II) at Kizilyurt.
	08	21	07	14.2%	29.893	N	106.925	E	10	G		0.5	8 SICHUAN PROVINCE, CHINA
	08	21	17	23.2%	59.934	N	6.120	E	10	G		1.0	7 SOUTHERN NORWAY. ML 2.2 (BER).
	09	00	13	59.9*	51.104	N	15.960	E	10	G		0.9	7 POLAND
	09	01	00	57.4%	40.878	N	19.859	E	10	G		1.2	7 ALBANIA. MG 2.9 (TIR).
	09	01	01	49.1*	40.543	N	20.174	E	10	G		1.5	6 GREECE-ALBANIA BORDER REGION
	09	01	02	25.6	40.593	N	20.084	E	28			1.3	17 GREECE-ALBANIA BORDER REGION. ML 3.9 (ATH), 3.8 (SKO).
	09	01	14	38.8%	40.281	N	27.024	E	10	G		1.6	7 TURKEY
a	09	01	40	35.7	2.435	N	79.761	W	7	G	6.0 5.0	0.9	438 SOUTH OF PANAMA. Ms 5.2 (BRK), 5.0 (PAS). Felt at Cali, Colombia. Depth from broadband displacement seismograms.
	09	02	19	01.1	2.434	N	79.657	W	10	G	4.7	1.0	24 SOUTH OF PANAMA
	09	03	33	02.0?	44.43	N	149.26	E	33	N	4.0	1.1	5 KURIL ISLANDS
	09	03	41	47.0?	3.12	N	128.46	E	33	N	4.3	1.2	6 NORTH OF HALMAHERA
	09	04	11	24.7	2.411	N	79.658	W	10	G	4.3 3.5	0.8	17 SOUTH OF PANAMA
	09	04	17	58.7%	35.206	N	3.907	W	10	G		1.1	10 STRAIT OF GIBRALTAR. mbLg 3.4 (MDD).
	09	04	26	08.5%	17.874	N	98.304	W	33	N		0.2	5 GUERRERO, MEXICO
	09	04	31	39.5?	37.06	N	70.84	E	33	N	4.9	1.3	8 AFGHANISTAN-USSR BORDER REGION
	09	04	45	13.4	43.147	N	0.215	W	12			1.1	20 PYRENEES. ML 3.5 (LDG). mbLg 3.1 (MDD). MD 2.5 (STR). Felt (IV) in the Bearn area and (III) in the Bigorre

													area, France.
	09	05	29	45.1%	38.528	N	23.613	E	10	G		0.3	6 GREECE. ML 2.7 (ATH).
	09	05	42	41.2	44.356	N	7.276	E	13			0.2	9 NORTHERN ITALY. ML 2.2 (GEN). MD 1.0 (STR).
	09	07	55	17.0	0.755	S	13.415	W	10	G	4.8 4.5	1.1	45 NORTH OF ASCENSION ISLAND
	09	08	02	53.7•	23.952	N	122.644	E	10	G	3.7	0.9	8 TAIWAN REGION
	09	08	20	57.2?	14.59	N	60.01	W	10	G		0.7	7 WINDWARD ISLANDS
	09	08	49	39.4&	32.700	N	115.930	W	2				6 CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.1 (PAS).
	09	09	44	47.7	44.252	N	7.453	E	10	G		0.3	11 NORTHERN ITALY. ML 2.3 (GEN).
	09	09	47	57.5%	39.644	N	29.428	E	10	G		0.2	5 TURKEY
	09	09	53	09.2•	23.303	N	122.082	E	10	G		0.4	8 TAIWAN REGION
a	09	10	38	06.9	51.310	N	175.805	W	33	N	5.3 5.2	1.1	218 ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.1 (PMR). Ms 5.1 (BRK). Felt (III) on Adak.
	09	10	52	31.2?	6.59	S	128.43	E	307	?	4.5	0.6	8 BANDA SEA
	09	12	10	11.3&	58.465	N	152.719	W	52				34 KODIAK ISLAND REGION. <AGS-P>.
	09	12	29	42.7&	60.457	N	152.321	W	86				27 SOUTHERN ALASKA. <AGS-P>.
	09	17	47	07.8?	12.86	S	166.67	E	100	?	4.2	1.0	9 SANTA CRUZ ISLANDS
	09	18	58	15.0•	0.951	N	126.117	E	58	?	4.7	1.2	14 MOLUCCA PASSAGE
	09	20	15	03.9	34.563	N	32.924	E	28		4.2	1.1	44 CYPRUS. ML 4.3 (CSS). MD 4.0 (HLW). Felt (V) at Limassal.
	09	20	29	24.5%	39.265	N	29.086	E	23	•		0.5	6 TURKEY
	09	20	53	47.5•	51.240	N	15.883	E	10	G		0.2	6 POLAND. ML 2.9 (KBA).
	09	21	59	48.3?	37.23	N	20.93	E	10	G		1.4	7 IONIAN SEA. ML 3.5 (ATH).
	09	22	47	49.5	23.023	S	66.019	W	255		4.6	1.1	44 JUJUY PROVINCE, ARGENTINA
	09	23	19	55.2•	11.745	N	61.963	W	145	?		0.3	12 WINDWARD ISLANDS. MG 4.3 (FDF).
	09	23	39	50.6?	20.92	S	67.57	W	253	?		1.9	8 SOUTHERN BOLIVIA
	10	04	12	36.8?	35.61	S	70.95	W	92	?		0.6	10 CHILE-ARGENTINA BORDER REGION
	10	05	10	42.2?	45.64	N	150.53	E	217	?	4.1	0.6	13 KURIL ISLANDS
	10	05	29	27.7&	39.500	N	122.900	W	1				9 NORTHERN CALIFORNIA. <BRK>. ML 2.8 (BRK).
	10	05	47	39.4	39.583	N	142.298	E	56	•	3.8	1.0	15 NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Miyako.
	10	05	52	33.8%	40.239	N	29.570	E	10	G		1.3	9 TURKEY
	10	06	21	32.6?	36.29	N	27.25	E	10	G		1.1	6 DODECANESE ISLANDS
	10	06	28	32.0•	2.321	S	101.887	E	159	•	4.0	1.0	10 SOUTHERN SUMATERA
	10	06	31	11.9	40.193	N	141.810	E	61	?		1.2	14 NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Hachinohe and Miyako.
	10	06	46	56.1&	36.317	N	120.458	W	10				12 CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
	10	07	00	26.9	44.807	N	6.721	E	7	G		0.6	6 FRANCE. ML 2.0 (GEN).
	10	08	32	20.8	40.398	N	27.470	E	10	G		1.0	19 TURKEY
	10	08	58	51.4%	39.233	N	27.681	E	10	G		1.3	5 TURKEY
	10	10	22	26.8%	40.287	N	29.546	E	10	G		1.5	11 TURKEY
	10	10	36	41.4•	0.006	S	18.287	W	10	G	4.3	1.0	9 CENTRAL MID-ATLANTIC RIDGE
	10	10	41	35.8%	39.669	N	29.520	E	10	G		1.3	5 TURKEY
	10	10	43	16.9%	39.666	N	29.509	E	10	G		1.2	5 TURKEY
	10	11	07	57.8	21.100	N	99.420	W	5	G	4.2	1.4	20 CENTRAL MEXICO
	10	11	35	30.1?	24.19	S	179.71	E	584	?	4.9	0.7	16 SOUTH OF FIJI ISLANDS
	10	13	28	41.1	21.170	N	99.328	W	5	G	4.6	1.2	39 CENTRAL MEXICO. Slight damage at Jalpan. Felt at Landa de Matamaras and Pinal de Amoles.
	10	13	35	10.3•	44.075	N	148.074	E	33	N	4.8	1.0	34 KURIL ISLANDS
	10	14	06	02.8	38.135	N	73.982	E	142	•	4.7	0.8	25 TAJIK-XINJIANG BORDER REGION
	10	14	22	06.8%	20.950	N	99.205	W	5	G		1.1	5 CENTRAL MEXICO
	10	16	14	15.2?	52.10	N	157.05	E	120	G	4.3	0.8	17 KAMCHATKA
	10	16	37	35.1?	5.00	S	136.70	E	33	N	4.0	0.9	6 WEST IRIAN REGION
	10	16	43	19.7%	20.480	N	99.469	W	5	G		1.2	5 CENTRAL MEXICO
	10	17	55	16.0	42.847	N	17.964	E	10	G		1.1	13 ADRIATIC SEA. ML 2.8 (TTG). MD 3.4 (TRI).
	10	18	20	26.9%	40.692	N	30.091	E	10	G		1.3	8 TURKEY
	10	18	50	55.8	44.185	N	114.492	W	5	G		0.5	9 WESTERN IDAHO. ML 3.2 (BUT).
	10	19	04	31.4•	44.437	N	7.212	E	10	G		0.3	5 NORTHERN ITALY. ML 1.6 (GEN).
	10	19	18	52.3	17.701	S	167.298	E	10	G	4.6	1.1	43 VANUATU ISLANDS
	10	19	22	57.8	41.770	N	21.870	E	5	G		1.1	24 YUGOSLAVIA. ML 3.2 (SKO), 2.8 (TTG). Felt (IV) at Titov Veles and Sveti Nikole.
	10	19	31	24.1	44.379	N	7.284	E	10	G		0.2	6 NORTHERN ITALY. ML 1.7 (GEN).
	10	20	42	55.8	36.728	N	24.286	W	10	G	4.3	1.2	51 AZORES ISLANDS REGION
	10	21	37	24.7•	36.510	N	71.341	E	33	N	4.6	1.1	7 AFGHANISTAN-USSR BORDER REGION
	10	21	37	42.7	41.520	N	20.231	E	10	G		0.9	6 ALBANIA
	11	02	46	23.4	43.156	N	13.343	E	27			1.2	69 CENTRAL ITALY. ML 3.8 (KBA), 3.6 (LDG), 3.1 (LJU). MD 4.2 (TRI), 3.7 (ROM).
	11	03	02	10.9%	40.462	N	27.507	E	10	G		0.8	11 TURKEY
	11	03	35	12.9	43.096	N	13.287	E	10	G		0.6	6 CENTRAL ITALY. MD 2.4 (SSO).
	11	03	40	58.5	44.636	N	8.322	E	10	G		0.9	14 NORTHERN ITALY. ML 2.6 (LDG), 2.4 (GEN).
	11	05	24	30.2	43.104	N	13.294	E	10	G		0.5	6 CENTRAL ITALY. MD 2.5 (SSO).
	11	05	56	03.2•	35.204	N	26.145	E	10	G		0.8	5 CRETE. MD 3.8 (ATH).
	11	06	30	00.8	44.094	N	6.971	E	10	G		0.5	23 FRANCE. ML 2.6 (LDG), 2.2 (GEN).
	11	06	35	35.8&	31.940	N	115.850	W	6	G			7 BAJA CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
	11	06	58	33.6•	43.982	N	8.458	E	10	G		0.3	10 CORSICA. ML 1.9 (GEN). MD 1.0 (STR).
	11	07	27	14.4?	43.09	N	13.35	E	10	G		0.6	4 CENTRAL ITALY. MD 2.1 (SSO).
	11	08	25	53.8•	15.009	S	174.529	W	168	D	5.0	0.9	40 TONGA ISLANDS
	11	09	17	49.3	46.676	N	10.139	E	7			1.0	27 NORTHERN ITALY. ML 3.0 (FUR), 3.0 (LDG).
	11	09	27	27.5?	33.77	S	71.57	W	28	•		0.5	7 NEAR COAST OF CENTRAL CHILE
	11	09	54	12.3%	39.612	N	29.446	E	10	G		0.3	5 TURKEY
	11	09	55	37.1%	39.676	N	29.533	E	10	G		0.7	5 TURKEY
	11	11	01	27.3•	12.266	S	76.719	W	33	N		0.5	6 NEAR COAST OF PERU. Felt at Lima.
	11	11	16	16.3&	37.148	N	121.963	W	15				21 CENTRAL CALIFORNIA. <BRK>. ML 3.4 (BRK). Felt (V) at Felton, (IV) at Ben Lamond, (III) at Boulder Creek and (II) at Santa Cruz. Also felt at Aptos, San Francisco and South San Francisca.
	11	11	17	03.9?	43.10	N	13.35	E	10	G		0.4	4 CENTRAL ITALY. MD 2.0 (SSO).
	11	14	56	56.0?	33.61	S	71.65	W	10	G		0.4	8 NEAR COAST OF CENTRAL CHILE
	11	15	10	45.7	1.060	N	126.188	E	33	N	4.8	1.0	33 MOLUCCA PASSAGE
	11	15	56	27.2	43.383	N	5.409	E	9			0.7	16 NEAR SOUTH COAST OF FRANCE. MD 2.7 (STR).
	11	16	07	08.9	46.632	N	10.151	E	10	G		1.4	12 NORTHERN ITALY. ML 2.5 (FUR).
	11	16	20	36.6&	38.087	N	121.877	W	14				10 NORTHERN CALIFORNIA. <BRK>. ML 2.5 (BRK).
	11	17	09	12.8%	14.127	S	74.995	W	33	N		0.9	6 PERU
	11	17	36	33.0	18.954	N	145.582	E	239	•	4.9	1.0	39 MARIANA ISLANDS

	11	18	19	56.9*	17.191	S	171.524	W	33	N	4.9	1.0	31	TONGA ISLANDS REGION
	11	20	24	34.5	44.393	N	7.297	E	10	G		0.1	6	NORTHERN ITALY. ML 2.1 (GEN).
	11	20	51	08.9*	37.386	N	21.368	E	10	G		1.5	7	SOUTHERN GREECE. ML 3.5 (ATH).
	11	21	17	20.0	41.465	N	20.816	E	5	G		1.3	23	ALBANIA. ML 3.3 (SKO), 3.1 (TTG).
	11	21	27	01.7	51.880	N	170.468	W	33	N	4.6 4.5	1.0	56	FOX ISLANDS, ALEUTIAN ISLANDS
	11	22	17	11.2?	19.72	S	133.74	E	5	G		1.6	5	NORTHERN TERRITORY, AUSTRALIA
	12	00	29	45.0*	31.140	S	68.405	W	110	?		1.3	9	SAN JUAN PROVINCE, ARGENTINA
	12	01	32	56.6%	38.450	N	14.753	E	10	G		1.1	7	SICILY
	12	01	39	36.6	45.912	N	2.905	E	10	G		0.3	14	FRANCE. ML 2.1 (LDG).
	12	02	00	21.3	44.404	N	7.276	E	10	G		0.5	7	NORTHERN ITALY. ML 2.1 (GEN).
	12	03	02	04.7?	46.29	N	152.81	E	33	N	4.5	1.5	12	KURIL ISLANDS
	12	06	29	58.2&	60.099	N	151.890	W	62				34	KENAI PENINSULA, ALASKA. <AGS-P>.
	12	06	52	59.5*	31.834	N	137.970	E	384	*	4.6	0.8	22	SOUTH OF HONSHU, JAPAN
	12	08	25	31.1	44.232	N	7.407	E	10	G		0.3	7	NORTHERN ITALY. ML 2.3 (GEN).
	12	08	54	30.1*	9.029	S	110.546	E	33	N	4.8	1.3	28	SOUTH OF JAVA
a	12	08	55	57.9	9.017	S	110.503	E	33	N	5.1 5.3	1.3	122	SOUTH OF JAVA
	12	09	05	37.9?	9.03	S	110.44	E	33	N	4.7	0.8	5	SOUTH OF JAVA
	12	09	22	24.5&	63.444	N	145.534	W	11				24	CENTRAL ALASKA. <AGS-P>.
	12	09	30	08.7%	39.688	N	29.284	E	10	G		1.3	6	TURKEY
	12	09	50	54.1&	63.090	N	150.806	W	83				13	CENTRAL ALASKA. <AGS-P>.
	12	10	06	59.5*	25.618	S	116.545	E	10	G		0.7	6	WESTERN AUSTRALIA
	12	10	49	12.3&	57.280	N	142.183	W	10	G			4	GULF OF ALASKA. <AGS-P>.
	12	10	57	05.0&	49.775	N	126.883	W	34		4.5		68	VANCOUVER ISLAND REGION. <PGC>. ML 4.3 (PGC). Felt (V) at Tahsis, Zeballos and on Nootka Island. Also felt at Gold River, Kyuquot and Woss Camp.
	12	11	52	25.0*	0.195	N	98.735	E	65	?	4.3	1.2	27	NORTHERN SUMATERA
	12	11	59	55.5*	44.236	N	7.343	E	5	G		0.1	5	NORTHERN ITALY. ML 2.0 (GEN).
	12	12	07	54.3?	51.57	N	16.28	E	10	G		0.3	5	POLAND
	12	13	19	23.2	38.442	N	21.438	E	10	G		1.1	6	GREECE. MD 3.3 (ATH).
	12	13	34	26.9%	37.157	N	28.017	E	10	G		1.1	6	TURKEY
	12	13	43	41.1&	37.192	N	119.845	W	30				5	CENTRAL CALIFORNIA. <BRK>. ML 2.3 (BRK). Heard at Friant Dam.
	12	14	19	00.8?	24.28	S	179.13	W	500	G		0.9	7	SOUTH OF FIJI ISLANDS
	12	15	11	14.8*	32.861	N	92.575	E	10	G	3.8	1.7	5	TIBET. ML 4.1 (BJI).
a	12	15	29	15.4	9.011	S	110.521	E	48	D	5.1 5.1	1.3	107	SOUTH OF JAVA
	12	15	56	19.5	56.117	N	157.225	W	33	N		0.8	11	ALASKA PENINSULA. ML 3.7 (PMR).
	12	16	05	41.9	44.152	N	8.171	E	10	G		0.2	7	NORTHERN ITALY. ML 2.1 (GEN).
	12	16	06	20.8	3.511	S	149.497	E	33	N	4.9 4.4	1.1	19	BISMARCK SEA
	12	16	11	29.8	40.602	N	22.465	E	10	G		1.3	19	GREECE. MD 3.5 (ATH).
	12	17	00	57.8&	58.946	N	142.923	W	10	G			11	GULF OF ALASKA. <AGS-P>.
	12	17	13	58.4&	60.073	N	152.611	W	104				20	SOUTHERN ALASKA. <AGS-P>.
	12	17	23	58.6	8.998	S	110.479	E	33	N	4.9 4.5	1.3	70	JAVA
	12	18	49	58.5?	32.01	S	179.52	W	228	?	4.0	1.4	10	SOUTH OF KERMADEC ISLANDS
	12	19	37	23.4?	31.58	S	69.53	W	120	?		0.5	5	SAN JUAN PROVINCE, ARGENTINA
	12	20	24	13.0&	38.790	N	122.765	W	1				7	NORTHERN CALIFORNIA. <BRK> ML 3.0 (BRK).
	12	21	37	09.5&	62.663	N	143.609	W	0				18	CENTRAL ALASKA. <AGS-P>.
	12	23	14	25.7&	59.354	N	154.109	W	0				14	SOUTHERN ALASKA. <AGS-P>.
	12	23	22	40.7*	43.260	N	13.898	E	10	G		0.7	6	CENTRAL ITALY. MD 3.1 (SSO).
	12	23	58	01.5	15.419	N	120.082	E	33	N	4.8 3.9	1.3	42	LUZON, PHILIPPINE ISLANDS
	13	00	03	07.1?	33.05	S	71.04	W	70	G		0.3	7	NEAR COAST OF CENTRAL CHILE
	13	00	38	43.9	28.453	S	70.368	W	33	N		1.2	11	CENTRAL CHILE
	13	00	41	05.9	5.625	N	32.783	W	10	G	4.7 4.5	1.0	54	CENTRAL MID-ATLANTIC RIDGE
	13	01	06	28.1?	31.67	S	69.65	W	125	G		0.9	10	SAN JUAN PROVINCE, ARGENTINA
	13	01	25	29.2&	34.760	N	118.950	W	12				17	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	13	01	37	38.2?	42.26	N	19.11	E	10	G		0.5	4	YUGOSLAVIA. ML 2.0 (TTG).
	13	01	45	13.6%	38.344	N	29.586	E	10	G		1.0	5	TURKEY
	13	02	20	39.5?	31.98	S	71.74	W	139	?		0.7	11	NEAR COAST OF CENTRAL CHILE
a	13	03	31	35.9	19.009	S	174.921	W	122	D	5.6	1.0	305	TONGA ISLANDS
	13	04	24	34.7?	3.32	S	139.34	E	33	N	4.7	1.1	6	WEST IRIAN
	13	05	21	16.9*	44.439	N	148.473	E	33	N	4.3	0.4	8	KURIL ISLANDS
	13	05	55	01.7?	33.91	S	71.82	W	33	N		0.9	9	NEAR COAST OF CENTRAL CHILE
	13	06	21	43.1?	30.23	S	178.39	W	33	N	4.9	1.6	9	KERMADEC ISLANDS
	13	06	24	05.7	40.170	N	20.011	E	10	G		1.0	7	GREECE-ALBANIA BORDER REGION
	13	06	33	33.0*	8.600	S	77.103	W	33	N		1.2	16	PERU
	13	06	48	27.8	6.204	S	130.234	E	133	*	5.0	1.1	28	BANDA SEA
	13	07	01	31.4	37.277	N	54.220	E	33	N	5.1	1.0	184	IRAN-USSR BORDER REGION. Felt in the Gorgan area, Iran.
	13	08	08	50.5*	47.609	N	7.324	E	10	G		0.4	5	SWITZERLAND. MD 1.0 (STR).
	13	08	46	57.3?	30.26	N	131.06	E	33	N	4.3	0.6	6	KYUSHU, JAPAN
	13	09	02	39.4	39.183	N	20.318	E	5	G		1.1	9	GREECE-ALBANIA BORDER REGION. MD 3.5 (ATH).
	13	09	36	49.5	37.726	N	30.219	E	10	G	4.2	1.3	55	TURKEY
	13	10	10	58.0	43.305	N	8.232	E	10	G		0.7	20	CORSICA. ML 2.9 (LDG).
	13	10	41	04.1?	33.96	S	71.82	W	33	N		0.6	7	NEAR COAST OF CENTRAL CHILE
	13	11	32	12.0&	60.984	N	150.936	W	50				44	KENAI PENINSULA, ALASKA. <AGS-P>. ML 3.7 (PMR).
	13	11	34	40.0*	35.601	S	17.180	W	10	G	4.7	0.9	11	SOUTH ATLANTIC RIDGE
	13	11	39	18.5*	50.509	N	90.066	E	33	N	4.4	0.6	9	USSR-MONGOLIA BORDER REGION
	13	11	39	57.5*	5.641	S	133.553	E	33	N	3.7	1.3	7	AROE ISLANDS REGION
a	13	11	40	46.0	35.577	S	17.063	W	12	G	5.6 6.2	1.3	79	SOUTH ATLANTIC RIDGE. Ms 5.6 (PAS). Depth from broadband displacement seismograms.
	13	12	18	19.7	40.601	N	22.433	E	10	G		1.2	16	GREECE. MD 3.6 (ATH).
	13	12	19	02.6	60.304	N	5.384	E	10	G		0.4	9	SOUTHERN NORWAY. MD 1.7 (BER).
	13	12	20	10.1	40.594	N	22.463	E	10	G		1.2	11	GREECE. MD 3.5 (ATH).
	13	12	31	18.3*	6.118	S	149.837	E	65	*	3.9	0.6	9	NEW BRITAIN REGION
	13	12	34	36.9	40.360	N	142.172	E	33	N		0.8	10	NEAR EAST COAST OF HONSHU, JAPAN. MG 3.6 (JMA). Felt (I JMA) at Hachinohe.
	13	12	53	51.4	47.073	N	8.847	E	10	G		0.9	25	SWITZERLAND. ML 3.0 (LDG).
	13	13	03	22.5%	47.067	N	8.846	E	10	G		0.9	6	SWITZERLAND
	13	13	22	11.7*	51.145	N	15.885	E	10	G		0.6	5	POLAND
	13	13	53	32.6?	43.69	N	16.71	E	10	G		1.4	7	YUGOSLAVIA. ML 2.5 (LJU).
	13	14	07	17.6?	42.34	N	19.08	E	10	G		0.8	4	YUGOSLAVIA. ML 2.0 (TTG).
	13	14	33	39.6	5.998	S	153.152	E	65	*	4.4	1.1	22	NEW IRELAND REGION
	13	15	49	37.9?	20.92	S	178.62	W	534	?	4.0	1.0	9	FIJI ISLANDS REGION
	13	16	01	24.0*	40.806	N	22.349	E	10	G		1.6	7	GREECE
	13	17	42	40.3*	18.556	S	69.338	W	33	N		0.8	6	NORTHERN CHILE

	13	17	47	39.2?	33.85	S	72.39	W	10	G		0.8	11	OFF COAST OF CENTRAL CHILE
	13	19	48	56.2%	23.475	N	120.557	E	33	N		0.9	5	TAIWAN
	13	20	13	10.7	31.494	S	67.385	W	130	?		0.9	13	SAN JUAN PROVINCE, ARGENTINA
	13	20	27	31.7?	25.01	S	110.91	E	10	G		1.2	11	WEST OF AUSTRALIA
	13	20	46	05.3?	35.46	S	17.13	W	10	G	4.9 5.2	1.8	9	SOUTH ATLANTIC RIDGE
	13	21	52	43.9	21.619	S	129.758	E	10	G	4.3	1.5	12	NORTHERN TERRITORY, AUSTRALIA
	13	21	53	59.5	45.799	N	11.207	E	10	G	4.6	1.2	218	NORTHERN ITALY. ML 5.1 (VKA), 5.0 (FUR), 4.8 (ROM). MD 4.7 (TRI). Felt (VII) in the Rovereto orea and (III) ot Trieste. Felt (IV) at Ljubljono, Yugoslovia.
	13	22	08	07.1?	44.90	S	15.45	W	10	G	4.5 4.5	1.1	10	SOUTH ATLANTIC RIDGE
	13	22	46	16.3?	44.04	S	82.30	W	10	G	4.9	0.9	11	WEST CHILE RISE
	14	00	34	51.3?	40.14	N	20.62	E	33	N		1.1	8	GREECE–ALBANIA BORDER REGION
	14	01	12	31.1?	55.04	N	161.70	E	33	N	4.4	0.6	9	NEAR EAST COAST OF KAMCHATKA
	14	01	36	07.8%	11.618	N	61.299	W	33	N		1.6	6	WINDWARD ISLANDS
	14	01	57	36.7%	11.271	N	61.180	W	33	N		0.7	6	WINDWARD ISLANDS. MD 3.2 (TRN).
	14	02	19	29.0	51.703	N	175.294	W	64	•	4.7	1.0	47	ANDREANOF ISLANDS, ALEUTIAN IS. Felt on Adak.
	14	03	06	02.2?	34.00	S	72.19	W	33	N		0.9	11	OFF COAST OF CENTRAL CHILE
	14	03	07	30.3?	33.99	S	72.20	W	25	G		0.7	10	OFF COAST OF CENTRAL CHILE
	14	03	31	04.7%	0.202	S	78.870	W	10	G		0.2	5	ECUADOR
	14	03	58	33.9&	63.281	N	149.702	W	101				17	CENTRAL ALASKA. <AGS–P>.
	14	04	31	41.9	13.688	N	124.588	E	33	N	4.9 4.3	1.0	28	LUZON, PHILIPPINE ISLANDS
a	14	04	42	39.8	26.141	S	70.746	W	33	N	5.3 5.2	1.3	119	NEAR COAST OF NORTHERN CHILE. Ms 5.0 (BRK). Felt (IV) at Copiapo.
	14	04	48	20.0•	28.879	S	178.452	W	272	D	4.9	1.4	31	KERMADEC ISLANDS REGION
	14	05	14	30.7	32.123	S	69.336	W	121	•		1.1	18	MENDOZA PROVINCE, ARGENTINA
	14	05	32	28.0	42.036	N	20.797	E	5	G		1.0	25	YUGOSLAVIA. ML 3.4 (SKO). Felt (IV) at Tetovo.
	14	06	31	29.7?	16.61	N	96.41	W	63	•	3.8	0.6	7	OAXACA, MEXICO
	14	08	06	38.8?	10.56	N	60.30	W	70	?		0.3	10	TRINIDAD. MD 4.0 (TRN).
	14	08	30	34.8•	19.663	S	133.969	E	10	G		0.3	5	NORTHERN TERRITORY, AUSTRALIA
	14	09	23	56.1	22.741	S	179.287	E	541	?	4.8	0.9	46	SOUTH OF FIJI ISLANDS
	14	10	10	10.4•	26.330	S	27.208	E	5	G		1.4	7	REPUBLIC OF SDUTH AFRICA. MG 4.2 (BUL).
	14	11	45	36.0	40.766	N	23.109	E	10	G		0.8	9	GREECE. MD 3.0 (ATH).
	14	11	56	14.3&	40.412	N	125.160	W	2				30	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 4.0 (BRK).
	14	13	00	38.8?	42.63	N	23.99	E	10	G		0.5	4	BULGARIA
	14	13	07	58.9%	44.405	N	7.424	E	10	G		0.1	5	NORTHERN ITALY. ML 2.0 (GEN).
	14	13	10	52.0	14.503	N	92.615	W	70		4.4	1.1	46	NEAR COAST OF CHIAPAS, MEXICO. Felt in the Mexico–Guatemalo border region.
	14	13	38	04.5•	38.730	N	21.475	E	10	G		1.5	6	GREECE. MD 3.4 (ATH).
	14	14	13	29.6?	9.37	S	110.19	E	33	N	4.4	1.6	7	SOUTH OF JAVA
	14	15	00	00.1&	37.236	N	116.163	W	0		4.2		43	SOUTHERN NEVADA. <DOE>. ML 4.0 (BRK). Tunnel Shot. 37' 14' 09.20" N., 116' 09' 46.44" W., Surfoce Elev. 1943 m., Depth of Burial 300 m., Shot Time 150000.098, "DISKO ELM," Nevado Test Site (Dept. of Energy).
	14	15	25	50.3•	35.399	N	23.482	E	77	?	4.6	1.5	12	CRETE
	14	16	29	12.1	29.460	S	71.119	W	33	N		1.1	23	NEAR COAST OF CENTRAL CHILE
	14	17	31	28.0&	36.545	N	89.620	W	11				17	NEW MADRID, MISSOURI REGION. <SLM>. mbLg 3.5 (SLM). MD 3.2 (TEIC). Felt (IV) at Conran and Lilbourn; (III) at Gideon, Groyridge, Marston ond Portageville; (II) ot Kewonee.
	14	17	37	57.5?	39.18	N	23.61	E	10	G		0.2	4	AEGEAN SEA
	14	18	14	39.0%	61.270	N	3.894	E	10	G		0.8	10	NORWEGIAN SEA. MD 2.9 (BER).
	14	18	17	06.9	42.289	N	13.565	E	10	G		0.9	12	CENTRAL ITALY
a	14	19	10	25.7	1.644	N	127.322	E	103	G	6.0	1.2	376	HALMAHERA. Felt (II) on Ternote. Depth from broadband displacement seismagrams.
	14	19	41	19.1•	30.546	N	14.963	W	10	G		0.8	7	CANARY ISLANDS REGION. MD 3.6 (RBA).
	14	19	45	26.3	43.089	N	13.298	E	10	G		0.8	7	CENTRAL ITALY. MD 2.6 (SSO).
	14	23	09	44.8	40.746	N	23.107	E	10	G		0.9	16	GREECE. MD 3.1 (ATH).
	14	23	59	38.1?	32.09	S	69.39	W	130	G		0.7	10	MENDOZA PROVINCE, ARGENTINA
	15	00	01	51.9	44.427	N	7.323	E	10	G		0.3	16	NORTHERN ITALY. ML 2.4 (GEN).
	15	00	14	23.8	40.757	N	23.114	E	10	G		1.4	11	GREECE. MD 2.9 (ATH).
	15	00	24	56.3&	60.426	N	144.824	W	0				36	SOUTHERN ALASKA. <AGS–P>. ML 3.4 (PMR).
	15	00	33	56.8•	45.038	N	3.225	E	10	G		1.1	12	FRANCE. ML 2.4 (LDG). MD 2.4 (STR).
	15	00	49	20.6&	60.416	N	144.824	W	0				35	SOUTHERN ALASKA. <AGS–P>. ML 3.3 (PMR).
	15	01	00	36.9?	51.31	N	15.96	E	10	G		1.1	7	POLAND. ML 3.2 (VKA).
	15	01	15	43.6?	15.19	S	167.22	E	148	?	4.6	1.3	61	VANUATU ISLANDS
	15	02	24	27.6	40.175	N	25.081	E	33	N		0.7	22	AEGEAN SEA. MD 3.4 (ATH).
	15	03	06	26.5	36.439	N	28.054	E	33	N		0.6	7	DODECANESE ISLANDS
	15	03	30	28.0	40.763	N	23.120	E	10	G		0.7	13	GREECE. MD 3.2 (ATH).
	15	04	15	48.2•	10.167	S	161.214	E	114	•	4.8	1.1	11	SOLOMON ISLANDS
	15	04	50	55.2?	31.33	S	67.81	W	10	G		1.7	9	SAN JUAN PROVINCE, ARGENTINA
	15	06	23	24.4	51.461	N	150.773	E	535	•	4.4	0.6	75	SEA OF OKHOTSK
	15	08	14	17.2&	60.381	N	144.862	W	0				60	SOUTHERN ALASKA. <AGS–P>. ML 4.5 (PMR). Felt (IV) at Cordova.
	15	08	49	55.4	19.329	S	175.800	W	145	G	5.5	1.0	133	TONGA ISLANDS. Depth from broadband displacement seismograms.
	15	09	05	13.5&	60.375	N	144.835	W	0				53	SOUTHERN ALASKA. <AGS–P>. ML 3.7 (PMR). Felt (III) at Cordova.
	15	09	18	50.7?	13.45	N	144.94	E	69		4.1	0.2	9	MARIANA ISLANDS. Felt (III) on Guam.
	15	09	30	25.7	7.439	S	156.216	E	33	N	4.8	0.9	72	SOLOMON ISLANDS
a	15	09	48	09.1	51.574	N	173.367	W	33	N	5.4 5.1	0.9	281	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.2 (PMR). Ms 5.0 (BRK). Felt (IV) on Adok.
	15	09	54	06.7	43.317	N	13.211	E	10	G		0.5	6	CENTRAL ITALY. MD 2.4 (SSO).
	15	09	57	31.9•	51.870	N	173.349	W	33	N	4.5	1.0	17	ANDREANOF ISLANDS, ALEUTIAN IS.
	15	09	59	02.5	51.559	N	173.360	W	33	N	4.8 4.9	0.8	90	ANDREANOF ISLANDS, ALEUTIAN IS.
	15	10	03	36.0•	30.654	S	71.112	W	10	G		1.6	9	NEAR COAST OF CENTRAL CHILE
	15	10	16	31.5&	41.600	N	121.500	W	4				6	NORTHERN CALIFORNIA. <BRK>. ML 2.8 (BRK).
	15	10	28	00.8&	45.373	N	121.707	W	5				46	WASHINGTON–OREGON BORDER REGION. <SEA>. CL 3.5 (SEA). Felt (IV) at Government Comp and (III) at Milwaukie and Welches, Oregon.
	15	10	42	46.7?	33.51	S	179.74	W	78	?	4.8	1.0	11	SOUTH OF KERMADEC ISLANDS
	15	10	44	03.7	51.724	N	173.245	W	49	D	4.7	0.9	81	ANDREANOF ISLANDS, ALEUTIAN IS.
	15	11	25	40.4•	16.550	N	61.893	W	33	N		1.2	6	LEEWARD ISLANDS. ML 2.6 (FDF).
	15	11	47	22.4%	39.244	N	27.765	E	10	G		0.7	5	TURKEY

	15	13	20	05.4&	34.280	N	117.490	W	11				20	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS). Felt (IV) at Crestline, Maunt Baldy and Wrightwaod; (III) at Etiwanda, Manterey Park and Riverside. Alsa felt at Apple Valley, San Bernardino and Victorville.
	15	14	19	24.6	10.008	N	126.014	E	33 N	4.8	1.1	29	PHILIPPINE ISLANDS REGION
	15	14	49	49.7	5.092	S	102.573	E	33 N	4.7 4.5	1.3	40	SOUTHERN SUMATERA
a	15	15	36	37.0	9.988	N	126.520	E	33 N	5.1 4.4	1.3	63	MINDANAO, PHILIPPINE ISLANDS
	15	15	44	38.7?	10.00	N	126.42	E	33 N	4.8	1.3	7	PHILIPPINE ISLANDS REGION
	15	16	31	27.1	0.988	N	126.064	E	33 N	5.0	1.6	36	MOLUCCA PASSAGE
a	15	16	40	25.0	3.062	S	134.686	E	33 N	5.5 5.0	1.1	103	WEST IRIAN REGION
	15	18	16	04.5?	33.02	S	72.00	W	10 G		0.5	8	OFF COAST OF CENTRAL CHILE
	15	18	25	02.1?	33.07	S	72.06	W	33 N		1.3	12	OFF COAST OF CENTRAL CHILE
a	15	18	34	12.9	53.232	N	159.719	E	51 D	5.6	0.9	353	NEAR EAST COAST OF KAMCHATKA. mb 5.5 (BRK).
	15	18	34	49.2	9.914	N	126.414	E	33 N	5.1 4.0	1.1	32	MINDANAO, PHILIPPINE ISLANDS
	15	18	54	53.4?	32.99	S	72.06	W	10 G		0.5	7	OFF COAST OF CENTRAL CHILE
	15	18	57	41.6	7.470	S	156.217	E	33 N	4.6	1.0	36	SOLOMON ISLANDS
	15	19	22	10.3?	10.14	N	126.24	E	33 N	4.7	0.9	7	PHILIPPINE ISLANDS REGION
	15	20	41	55.2?	6.95	N	82.51	W	33 N		1.6	8	SOUTH OF PANAMA
	15	20	48	37.4?	11.81	S	77.33	W	50 G		1.4	6	NEAR COAST OF PERU. Felt (II) at Lima.
	15	20	58	07.3?	33.03	S	72.02	W	10 G		0.6	9	OFF COAST OF CENTRAL CHILE
	15	21	02	29.9?	32.90	S	72.24	W	10 G		0.5	8	OFF COAST OF CENTRAL CHILE
	15	21	12	45.0	6.695	N	122.540	E	33 N	4.5 4.0	1.4	24	MINDANAO, PHILIPPINE ISLANDS
	15	21	32	19.8	7.123	S	155.691	E	83 •	4.4	1.0	29	SOLOMON ISLANDS
	15	23	03	28.5?	26.38	S	27.47	E	5 G		0.1	4	REPUBLIC OF SOUTH AFRICA. MG 3.2 (BUL).
	15	23	18	40.0?	19.62	S	178.08	W	600 G	4.6	0.6	10	FIJI ISLANDS REGION
	15	23	54	54.6•	40.440	N	19.732	E	10 G		1.1	6	ALBANIA
	16	00	15	36.7?	24.42	S	67.23	W	200 G		1.1	5	CHILE-ARGENTINA BORDER REGION
	16	01	49	15.8	0.592	S	77.469	W	10 G	5.4	1.1	158	ECUADOR. Felt (IV) at Ibarra and (II) at Quita. Also felt at Pasto, Calambia.
	16	01	54	13.1?	24.03	N	123.86	E	33 N	4.3	0.1	5	SOUTHWESTERN RYUKYU ISLANDS
f	16	02	05	08.9	40.337	N	51.534	E	55 D	6.4 6.5	1.0	563	CASPIAN SEA. Ms 6.6 (BRK), 6.5 (PAS). Felt (VI) at Baku and Neftyanyye Kamni, (V) at Sumgait and (IV) at Lenkaran, Divichi and Siazan, USSR. Some minor damage reparted in the area. Felt in narthwestern Iran. Complex event, abserved an braadband displacement seismograms.
	16	02	18	53.8?	4.63	S	135.53	E	33 N	4.9	1.5	8	WEST IRIAN REGION
	16	02	27	58.8•	40.256	N	51.666	E	33 N	4.7	0.8	7	CASPIAN SEA
	16	03	00	19.1?	17.72	N	61.60	W	10 G		0.4	6	LEEWARD ISLANDS. ML 3.4 (FDF).
	16	03	29	23.2	40.255	N	51.798	E	33 N	4.6	0.8	16	CASPIAN SEA
	16	03	36	31.6•	10.265	S	120.122	E	33 N	4.4	1.1	6	SUMBA ISLAND REGION
	16	03	37	38.0	40.277	N	51.610	E	33 N	4.6	0.7	39	CASPIAN SEA
a	16	04	03	03.1	32.561	S	14.251	W	10 G	5.7 5.8	1.2	211	SOUTH ATLANTIC RIDGE
	16	04	17	58.2	35.199	N	3.894	W	10 G		1.2	16	STRAIT OF GIBRALTAR. mbLg 3.4 (MDD).
	16	04	52	03.5?	20.00	S	176.14	W	254 ?	4.7	1.2	17	FIJI ISLANDS REGION
	16	05	31	30.8?	20.48	N	146.55	E	148 ?	4.3	0.4	10	MARIANA ISLANDS REGION
	16	05	34	34.5?	45.72	N	16.23	E	15 G		0.7	5	YUGOSLAVIA. MD 2.6 (LJU). Felt (IV) at Zagreb.
	16	05	49	25.7•	12.708	S	66.386	E	10 G	5.0	1.2	21	MID-INDIAN RISE
	16	05	50	49.9	37.275	N	21.155	E	10 G	4.2	1.3	27	SOUTHERN GREECE. MD 4.0 (ATH).
	16	05	58	54.6•	40.275	N	51.791	E	33 N	4.3	1.3	8	CASPIAN SEA
	16	06	00	50.9%	43.113	N	0.676	W	10 G		0.3	7	PYRENEES. MD 1.1 (STR).
	16	06	48	33.8&	62.464	N	148.092	W	16			39	CENTRAL ALASKA. <AGS-P>.
	16	07	18	13.0•	36.329	S	71.091	W	93 •		1.0	24	CENTRAL CHILE
	16	07	27	11.3	2.121	N	125.301	E	33 N	5.1 5.0	1.1	42	TALAUD ISLANDS
	16	07	59	02.6	44.382	N	7.306	E	10 G		0.4	10	NORTHERN ITALY. ML 2.3 (GEN).
	16	08	03	05.1	35.564	N	140.318	E	77	4.8	0.7	26	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) in the Utsunomiya-Tokya-Yokahama area and on Oshima.
	16	08	33	38.8?	20.47	S	178.46	W	536 ?	4.9	1.0	26	FIJI ISLANDS REGION
	16	09	22	14.4•	22.578	S	174.190	E	33 N	4.7	1.4	20	LOYALTY ISLANDS REGION
	16	09	57	57.2	10.621	N	140.935	E	33 N	4.9 4.1	0.8	25	WEST CAROLINE ISLANDS
	16	11	28	24.6%	10.560	N	60.302	W	80 G		0.4	5	TRINIDAD. MD 3.5 (TRN).
	16	11	53	55.5•	17.977	S	176.536	W	33 N	4.7	1.6	29	FIJI ISLANDS REGION
	16	12	01	53.8	40.175	N	24.904	E	10 G		1.2	9	AEGEAN SEA
	16	13	47	58.7•	6.368	S	71.182	E	10 G	4.6	1.1	10	CHAGOS ARCHIPELAGO REGION
	16	15	06	04.5•	20.787	S	168.770	E	33 N	4.6	1.1	23	LOYALTY ISLANDS
	16	15	38	05.0•	38.976	N	22.448	E	10 G		1.5	7	GREECE. MD 3.1 (ATH).
	16	16	08	44.5•	34.825	N	4.758	W	10 G		1.5	8	MOROCCO. MD 2.7 (RBA).
	16	16	13	30.6•	30.128	N	99.566	E	33 N	4.4	1.6	15	SICHUAN PROVINCE, CHINA
	16	17	04	15.8?	42.83	N	19.28	E	10 G		0.5	4	YUGOSLAVIA
	16	17	05	43.1•	40.401	N	51.756	E	33 N	4.3	0.9	9	CASPIAN SEA
	16	17	13	36.9&	60.145	N	140.931	W	0			10	SOUTHEASTERN ALASKA. <AGS-P>.
	16	17	18	00.9&	58.123	N	148.154	W	10 G			5	GULF OF ALASKA. <AGS-P>.
	16	17	32	19.6•	40.351	N	51.818	E	33 N	4.5	0.3	6	CASPIAN SEA
	16	17	59	00.7	30.117	N	99.529	E	10 G	4.7	1.4	20	SICHUAN PROVINCE, CHINA
	16	18	10	10.9•	4.051	S	130.293	E	33 N	4.1	1.0	5	BANDA SEA
	16	18	41	24.9&	37.347	N	121.685	W	8			10	CENTRAL CALIFORNIA. <BRK>. ML 2.9 (BRK).
	16	18	46	27.8	42.570	N	142.404	E	105	4.5	1.2	32	HOKKAIDO, JAPAN REGION
	16	19	07	04.8	41.022	N	20.077	E	10 G		0.8	9	ALBANIA. MG 2.4 (TIR).
	16	20	23	53.4	19.563	S	65.821	W	33 N		1.1	11	SOUTHERN BOLIVIA. Felt at Cachabomba.
	16	20	43	39.1•	4.652	N	126.771	E	65 ?	4.8 4.4	1.6	17	TALAUD ISLANDS
	16	21	07	45.7?	4.60	S	127.13	E	311 ?		1.7	8	BANDA SEA
	16	22	52	00.4	51.795	N	167.066	W	33 N	4.9	1.3	89	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.7 (PMR).
a	16	23	20	53.2	16.497	N	93.671	W	108 G	6.0	1.3	415	CHIAPAS, MEXICO. mb 6.6 (BRK), 6.3 (PAS). Mo=3.0•10••18 Nm (PPT). Felt in the central and sauthern regions af the country including Mexico City, Daxaca, Tuxtla Gutierrez and Villahermasa. Depth fram braadband displacement seismograms.
	17	00	02	44.4	43.645	N	127.614	W	10 G	4.6	0.8	71	OFF COAST OF OREGON
	17	00	17	51.0	36.434	N	71.140	E	218 •	4.4	0.9	63	AFGHANISTAN-USSR BORDER REGION
f	17	00	53	39.7	40.203	N	51.749	E	51 D	6.1 6.1	1.0	533	CASPIAN SEA. Felt in narthwestern Iran. Alsa felt at Tehran. Complex event, abserved an braadband displacement seismograms.
	17	01	21	29.2	40.243	N	51.694	E	53 D	5.0	0.9	195	CASPIAN SEA

	17	01	50	35.4	40.340	N	51.847	E	33	N	4.5	0.4	12	CASPIAN SEA
	17	01	52	35.0?	23.60	S	175.82	W	33	N	4.8	0.9	8	TONGA ISLANDS REGION
	17	02	23	06.8	45.306	N	27.669	E	10	G		1.3	7	ROMANIA
	17	03	27	25.0*	40.309	N	51.751	E	33	N	4.8	1.0	12	CASPIAN SEA
	17	03	31	51.8?	42.43	N	129.91	W	10	G		0.3	31	OFF COAST OF OREGON
	17	04	05	06.4?	8.31	S	111.32	E	136	?	4.7	1.4	10	JAVA
	17	04	14	34.2*	53.595	N	163.704	W	33	N	4.7	1.1	19	UNIMAK ISLAND REGION
	17	05	00	13.2*	4.566	S	151.777	E	10	G	3.7	1.5	5	NEW BRITAIN REGION
	17	05	23	05.7*	19.310	S	169.393	E	233	*	5.0	0.8	22	VANUATU ISLANDS
o	17	05	48	01.8	61.435	S	153.988	E	10	G	5.5 5.9	1.2	57	BALLENY ISLANDS REGION
	17	07	29	03.7%	39.735	N	27.655	E	10	G		0.4	6	TURKEY
	17	08	24	04.6%	36.608	N	139.258	E	33	N		1.6	5	HONSHU, JAPAN
	17	08	47	16.9&	47.340	N	113.870	W	19				10	MONTANA. <BUT>. ML 3.6 (BUT). A second event, ML 3.6, followed 35.4 seconds later.
	17	09	01	48.9&	60.820	N	144.710	W	2				5	SOUTHERN ALASKA. <AGS-P>.
	17	09	39	04.6	40.259	N	51.652	E	33	N	5.1	1.0	158	CASPIAN SEA
	17	10	07	04.9*	21.812	S	66.315	W	118	?		1.3	8	SOUTHERN BOLIVIA
o	17	12	01	31.8	79.081	N	2.626	E	10	G	4.8	1.0	64	GREENLAND SEA
	17	13	20	27.3	40.681	N	15.243	E	11			1.3	13	SOUTHERN ITALY
	17	14	22	10.8*	36.404	N	140.865	E	58	*	3.9	1.0	13	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Mito.
	17	14	51	01.6	14.064	N	91.915	W	54		4.6	1.1	34	GUATEMALA
	17	15	11	43.0	43.657	N	12.200	E	10	G		1.0	14	CENTRAL ITALY. MD 3.1 (SSO).
	17	15	37	10.5*	33.332	S	72.267	W	33	N		1.3	13	OFF COAST OF CENTRAL CHILE
	17	15	39	10.8?	33.49	S	72.22	W	11			0.8	10	OFF COAST OF CENTRAL CHILE
	17	15	43	44.6?	18.94	S	169.24	E	234	*	4.7	1.2	16	VANUATU ISLANDS
	17	19	12	57.0%	43.742	N	12.280	E	10	G		0.3	5	CENTRAL ITALY
	17	19	43	58.5	37.299	N	26.805	E	10	G		1.2	22	DODECANESE ISLANDS. ML 3.5 (ATH).
	17	20	07	56.0&	40.550	N	125.672	W	11				11	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.5 (BRK).
	17	20	22	10.9	46.418	N	1.880	E	10	G		0.6	14	FRANCE. ML 2.4 (LDG). MD 2.1 (STR).
	17	21	46	15.1&	61.234	N	150.498	W	37				22	SOUTHERN ALASKA. <AGS-P>.
	17	21	59	18.0?	32.74	S	71.88	W	15			1.3	12	NEAR COAST OF CENTRAL CHILE
	17	22	22	01.5	42.351	N	13.044	E	10	G		1.2	6	CENTRAL ITALY. MD 2.6 (SSO).
	17	23	21	36.3*	28.984	N	129.899	E	33	N	4.1	1.5	9	RYUKYU ISLANDS
	18	00	53	21.2?	37.42	N	20.95	E	10	G		1.3	6	IONIAN SEA. ML 3.4 (ATH).
	18	02	27	34.7	38.957	N	35.554	E	10	G	4.3	1.2	44	TURKEY. At least 225 houses damaged in the Kayseri area.
	18	04	29	46.3	39.984	N	23.882	E	10	G		1.0	12	AEGEAN SEA. MD 3.2 (ATH).
	18	04	53	19.1?	21.71	N	112.26	E	33	N		1.1	7	NEAR SOUTHEASTERN COAST OF CHINA. ML 4.7 (BJI).
	18	05	42	37.1*	30.947	S	177.678	W	103	?	4.7	1.2	16	KERMADEC ISLANDS
	18	06	19	01.4?	30.46	S	179.58	W	278	?	3.9	1.3	8	KERMADEC ISLANDS REGION
	18	06	53	33.7	44.580	N	6.738	E	10	G		0.3	7	FRANCE. ML 2.3 (GEN).
	18	07	01	06.7?	7.88	S	130.17	E	205	?	4.6	1.2	11	TANIMBAR ISLANDS REGION
	18	07	43	06.8	0.968	N	126.144	E	25	D	4.9 4.7	1.4	83	MOLUCCA PASSAGE
	18	08	14	43.5?	2.16	S	128.23	E	33	N	4.7	1.5	5	CERAM SEA
	18	08	22	00.2&	59.863	N	140.472	W	0				18	SOUTHEASTERN ALASKA. <AGS-P>.
	18	09	12	50.0	51.627	N	173.269	W	33	N	4.7	0.9	50	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.4 (PMR). Felt (III) on Atka.
	18	09	29	03.0	44.359	N	7.560	E	10	G		1.4	6	NORTHERN ITALY
	18	10	28	33.1*	39.771	S	72.287	W	33	N	4.7	1.1	26	CENTRAL CHILE. Felt at Osorno and Valdivia.
	18	10	41	31.6	23.477	N	121.585	E	58	*	4.0	1.1	16	TAIWAN
	18	11	32	07.5*	17.529	N	94.376	W	176	*	3.9	1.3	16	CHIAPAS, MEXICO
	18	11	33	00.0%	44.317	N	7.457	E	10	G		0.2	5	NORTHERN ITALY. ML 1.5 (GEN).
	18	11	52	16.5	42.586	N	13.111	E	10	G		0.7	6	CENTRAL ITALY. MD 2.6 (SSO).
	18	12	06	07.0?	8.01	S	128.66	E	193	?	4.4	1.1	10	TIMOR SEA
	18	12	33	04.8*	33.477	N	24.548	E	33	N	4.3	1.2	13	MEDITERRANEAN SEA
	18	13	10	20.2*	45.496	N	15.395	E	10	G		0.7	7	YUGOSLAVIA. MD 2.5 (TRI), 3.0 (LJU).
	18	13	10	21.2*	17.781	N	99.402	W	10	G		1.2	5	GUERRERO, MEXICO
	18	13	28	51.7?	8.34	S	129.29	E	123	?	4.3	1.1	6	TIMOR SEA
	18	15	09	28.6	42.625	N	13.061	E	10	G		0.9	27	CENTRAL ITALY. MD 3.4 (SSO), 3.2 (TRI).
	18	15	21	12.1	42.617	N	13.083	E	10	G		1.0	7	CENTRAL ITALY. MD 2.6 (SSO).
	18	16	49	55.8*	21.472	S	67.284	W	10	G		1.4	6	CHILE-BOLIVIA BORDER REGION
	18	18	02	26.5%	40.070	N	29.079	E	10	G		0.2	8	TURKEY
	18	18	04	37.0*	5.924	S	104.995	E	100	?	4.7	1.2	27	SOUTHERN SUMATERA
	18	18	14	19.0	43.383	N	5.401	E	10	G		0.7	15	NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).
	18	19	03	50.7*	4.034	S	134.536	E	33	N	4.3	0.9	10	WEST IRIAN REGION
	18	19	47	51.7	18.332	N	64.290	W	106		4.7	0.8	78	VIRGIN ISLANDS. Felt in many parts of the Virgin Islands.
	18	20	43	34.0?	11.94	S	77.18	W	33	N		1.2	6	NEAR COAST OF PERU
	18	20	44	49.8%	40.550	N	28.206	E	10	G		0.3	8	TURKEY
	18	21	06	25.2*	42.869	N	12.847	E	10	G		0.3	5	CENTRAL ITALY. MD 1.9 (SSO).
	18	21	16	28.2	66.779	N	136.028	W	24	D	5.1 4.8	1.1	151	NORTHERN YUKON TERRITORY, CANADA. Felt at Aklavik, Inuvik and Fort McPherson, Northwest Territories.
	18	21	37	39.1	13.553	N	147.551	E	33	N	5.1 4.8	1.2	49	SOUTH OF MARIANA ISLANDS
	18	21	38	35.5*	13.597	S	34.500	E	33	N		1.2	7	MALAWI. MG 3.6 (BUL).
o	18	21	42	47.8	37.154	N	136.963	E	262		5.0	1.0	276	NEAR WEST COAST OF HONSHU, JAPAN. Felt (I JMA) at Aikawa.
	18	22	10	54.4&	35.680	N	117.560	W	3				25	CENTRAL CALIFORNIA. <PAS-P>. ML 3.1 (PAS). Felt (III) at Ridgecrest.
	18	22	44	56.9	44.359	N	7.335	E	10	G		0.5	6	NORTHERN ITALY. ML 1.6 (GEN).
	18	22	52	22.8*	36.132	N	24.926	E	33	N	4.4	1.2	7	SOUTHERN GREECE
	18	23	40	34.6	44.199	N	15.730	E	10	G		1.0	22	YUGOSLAVIA. ML 2.8 (LJU). MD 3.4 (TRI), 3.3 (SSO).
	19	01	13	30.9	66.830	N	136.025	W	10	G	3.8	1.0	10	NORTHERN YUKON TERRITORY, CANADA
	19	01	14	16.5&	64.934	N	142.666	W	27				10	CENTRAL ALASKA. <AGS-P>.
	19	01	43	17.0*	42.935	N	0.365	W	10	G		1.5	9	PYRENEES. ML 2.6 (LDG). Felt (III) at Asson and Arthez d'Asson, France.
	19	02	01	11.2*	42.989	N	18.786	E	10	G		0.6	6	YUGOSLAVIA. ML 2.5 (TTG).
	19	02	04	34.8*	32.243	S	69.067	W	33	N		1.3	9	MENDOZA PROVINCE, ARGENTINA
	19	02	15	10.1	41.088	N	20.290	E	10	G		1.4	29	ALBANIA. MD 3.3 (ATH). ML 3.0 (SKO).
	19	02	15	15.9	38.271	N	26.650	E	10	G		1.4	10	AEGEAN SEA. MD 3.2 (ATH).
	19	02	37	51.5?	5.78	N	94.82	E	93	?	4.0	0.4	6	NORTHERN SUMATERA
	19	02	38	28.3*	8.955	S	116.603	E	33	N	4.6	1.2	7	SUMBAWA ISLAND REGION
	19	02	59	16.7	40.782	N	139.123	E	26		4.7	0.8	12	NEAR WEST COAST OF HONSHU, JAPAN

o	19	04	08	57.1	4.164	S	128.986	E	146		5.0		1.1	61	BANDA SEA
	19	04	12	01.9	43.022	N	13.457	E	10	G			0.6	7	CENTRAL ITALY. MD 2.5 (SSO).
	19	04	21	11.9%	36.105	N	139.906	E	33	N			0.2	5	HONSHU, JAPAN
	19	04	24	10.2*	25.367	S	65.803	W	33	N			1.2	5	SALTA PROVINCE, ARGENTINA
	19	04	41	25.0?	15.89	N	99.01	W	33	N			1.8	5	OFF COAST OF GUERRERO, MEXICO
	19	05	07	22.7?	15.93	N	98.98	W	33	N			0.2	5	OFF COAST OF GUERRERO, MEXICO
	19	05	18	17.9?	15.15	N	61.42	W	120	G			0.6	6	LEEWARD ISLANDS
	19	05	18	51.3	44.764	N	10.668	E	13				1.0	29	NORTHERN ITALY. ML 3.2 (LDG).
	19	05	43	58.0*	0.010	S	24.702	W	10	G	4.9	4.8	1.0	13	CENTRAL MID-ATLANTIC RIDGE
	19	05	45	02.9*	52.289	S	160.022	E	10	G	4.4	4.7	1.4	12	MACQUARIE ISLANDS REGION
	19	06	36	12.7*	36.449	N	140.682	E	46	?			1.1	10	NEAR EAST COAST OF HONSHU, JAPAN. MG 3.8 (JMA). Felt (III JMA) at Mito and (I JMA) at Utsunomiya.
	19	06	41	22.8*	9.753	S	72.270	W	33	N			0.7	6	PERU-BRAZIL BORDER REGION
	19	06	47	16.0*	20.700	S	169.362	E	34	D	4.8		1.3	23	VANUATU ISLANDS
	19	07	57	08.9	39.434	N	21.295	E	36		4.6	3.8	1.2	139	GREECE. Felt at Arta and Prevezo.
	19	08	00	55.7	43.349	N	13.031	E	10	G			0.9	10	CENTRAL ITALY. MD 3.5 (SSO).
	19	08	32	25.4	31.467	S	67.488	W	44		4.8		1.2	42	SAN JUAN PROVINCE, ARGENTINA. Felt (IV) in the Moroyes area.
	19	08	54	57.3%	43.069	N	0.603	W	10	G			0.5	5	PYRENEES. MD 1.0 (STR).
	19	08	56	02.2*	19.243	S	175.277	W	33	N	5.1		1.6	30	TONGA ISLANDS
	19	09	24	53.8&	63.111	N	144.542	W	5					44	CENTRAL ALASKA. <AGS-P>. ML 3.2 (PMR).
	19	09	41	59.2	43.363	N	13.050	E	10	G			0.7	7	CENTRAL ITALY. MD 2.5 (SSO).
	19	09	46	00.7	36.663	N	112.407	W	5	G			0.7	21	WESTERN ARIZONA. ML 3.7 (NEIS). Felt (III) at Kanab, Utah and (II) at Fredania, Arizona.
	19	09	46	30.3?	21.25	S	179.02	W	597	?	4.8		0.9	14	FIJI ISLANDS REGION
	19	09	49	47.1%	39.666	N	29.483	E	10	G			1.4	5	TURKEY
	19	11	01	37.0%	43.847	N	6.998	E	10	G			0.7	10	NEAR SOUTH COAST OF FRANCE
	19	12	08	19.3?	13.68	N	95.54	E	33	N			1.2	5	ANDAMAN ISLANDS REGION
	19	13	19	18.7?	19.40	N	85.46	E	33	N			0.5	5	INDIA
	19	13	54	26.1	23.204	N	121.141	E	25		3.7		0.8	11	TAIWAN
	19	14	12	48.8	59.899	N	6.154	E	10	G			0.3	6	SOUTHERN NORWAY. ML 2.1 (BER).
	19	14	36	21.4%	43.394	N	5.415	E	10	G			0.9	8	NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).
	19	14	55	12.8	45.530	N	3.569	E	10	G			1.4	16	FRANCE. MD 2.3 (STR). ML 2.8 (LDG).
	19	14	56	02.3	39.577	N	27.752	E	10	G			0.6	11	TURKEY
	19	15	24	50.8	60.625	N	6.229	E	10	G			0.8	8	SOUTHERN NORWAY. MD 1.8 (BER).
o	19	16	47	34.7	5.527	S	153.620	E	54	D	5.4		1.1	123	NEW IRELAND REGION
	19	17	07	46.1	26.793	N	92.794	E	68	*	4.6		1.3	34	EASTERN INDIA
	19	17	39	28.6	25.897	N	99.736	E	33	N	4.5		1.6	15	YUNNAN PROVINCE, CHINA. ML 4.3 (BJI).
	19	18	02	09.5	37.045	N	28.435	E	10	G			1.1	7	TURKEY
	19	18	56	30.6&	59.985	N	141.359	W	0					16	SOUTHEASTERN ALASKA. <AGS-P>.
	19	20	34	44.9%	40.226	N	28.964	E	10	G			0.4	6	TURKEY
	19	22	51	13.8	40.529	N	22.492	E	10				1.6	20	GREECE. MD 3.6 (ATH).
	19	22	55	16.4*	36.972	N	29.439	E	10	G			1.5	5	TURKEY
	19	22	57	38.5*	36.926	N	29.399	E	10	G			1.1	5	TURKEY
	19	23	19	36.3&	38.810	N	122.765	W	5					22	NORTHERN CALIFORNIA. <BRK>. ML 4.0 (BRK). Mo=8.3*10**14 Nm (BRK). Felt (V) at Loch Lamand and (IV) at Cobb.
	19	23	21	04.0&	38.793	N	122.767	W	4		4.1			11	NORTHERN CALIFORNIA. <BRK> ML 4.1 (BRK). Mo=1.2*10**15 Nm (BRK). Felt (V) at Loch Lomand and (IV) at Cobb.
	19	23	37	23.0	38.298	N	22.714	E	10	G			0.9	9	GREECE. ML 3.2 (ATH).
	20	00	19	16.3&	60.102	N	151.633	W	55					28	KENAI PENINSULA, ALASKA. <AGS-P>.
	20	00	20	23.9*	9.380	S	125.212	E	78	?	4.6		1.5	9	TIMOR
	20	00	26	15.0	25.470	N	103.214	E	33	N	4.7		1.3	50	YUNNAN PROVINCE, CHINA
	20	00	49	34.0?	36.92	N	29.51	E	10	G			1.1	4	TURKEY
	20	01	29	12.2*	7.457	S	129.366	E	141	?	4.8		1.5	14	BANDA SEA
	20	02	38	05.1*	17.755	S	70.450	W	33	N			1.3	5	NEAR COAST OF PERU
	20	03	35	54.8%	38.256	N	22.757	E	33	N			1.1	7	GREECE. ML 3.0 (ATH).
	20	04	20	24.4*	22.165	S	68.519	W	122	*	4.3		1.1	16	NORTHERN CHILE
	20	04	59	46.0	13.622	N	120.783	E	152		5.0		0.9	82	MINDORO, PHILIPPINE ISLANDS
	20	05	30	50.1?	12.38	S	77.65	W	10	G			0.7	5	NEAR COAST OF PERU
	20	06	30	14.7?	37.79	N	29.21	E	10	G			0.3	4	TURKEY
	20	06	53	30.6	39.344	N	20.782	E	10	G			1.2	13	GREECE-ALBANIA BORDER REGION. MD 3.5 (ATH).
	20	06	55	22.1	39.404	N	20.750	E	16				1.3	29	GREECE-ALBANIA BORDER REGION. MD 3.7 (ATH).
	20	08	46	03.3%	41.847	N	12.714	E	14	*			0.2	6	SOUTHERN ITALY
	20	09	32	43.4	40.527	N	19.558	E	10	G			0.9	18	ALBANIA. MD 3.6 (ATH).
	20	10	15	36.6*	33.599	S	70.186	W	116	?			1.1	14	CHILE-ARGENTINA BORDER REGION
	20	10	32	01.9?	23.36	S	66.53	W	180	?	4.4		1.5	7	JUJUY PROVINCE, ARGENTINA
	20	10	53	21.3*	33.271	S	72.174	W	10	G			0.8	12	OFF COAST OF CENTRAL CHILE
	20	11	05	57.2	36.337	N	139.736	E	33	N			0.5	7	HONSHU, JAPAN
	20	11	27	43.8*	37.090	N	29.796	E	10	G			0.1	5	TURKEY
	20	11	32	58.9*	17.757	N	94.103	W	33	N	3.6		1.5	8	CHIAPAS, MEXICO
o	20	13	19	31.9	51.184	N	178.821	E	33	N	5.5	5.8	1.1	352	RAT ISLANDS, ALEUTIAN ISLANDS. Ms 5.8 (BRK). Felt on Amchitka.
	20	13	30	00.1%	59.372	N	6.049	E	10	G			0.9	6	SOUTHERN NORWAY. MD 1.7 (BER).
	20	14	05	14.0%	44.366	N	7.374	E	10	G			0.2	5	NORTHERN ITALY. ML 1.8 (GEN).
	20	14	11	33.2*	42.000	N	19.049	E	10	G			0.5	6	ALBANIA. ML 2.4 (TTG).
	20	14	18	52.8%	41.796	N	12.716	E	14				0.9	10	SOUTHERN ITALY
	20	15	03	32.6?	33.28	S	72.03	W	22				1.1	12	OFF COAST OF CENTRAL CHILE
	20	15	31	59.9*	45.415	N	15.606	E	10	G			0.8	8	YUGOSLAVIA. MD 2.9 (LJU).
	20	16	20	07.9	53.302	N	170.321	E	33	N	4.7		1.2	49	NEAR ISLANDS, ALEUTIAN ISLANDS
	20	16	21	50.3%	59.246	N	5.965	E	10	G			1.2	9	SOUTHERN NORWAY. ML 2.7 (NAO). MD 2.4 (BER). Felt.
	20	16	22	00.9	39.088	N	97.107	E	33	N	4.9		1.2	39	GANSU PROVINCE, CHINA
	20	16	46	30.4?	32.29	S	71.76	W	10	G			0.4	8	NEAR COAST OF CENTRAL CHILE
	20	16	57	44.4?	31.53	S	70.58	W	160	?			0.6	9	CHILE-ARGENTINA BORDER REGION
	20	17	23	11.3?	15.39	S	75.15	W	33	N			1.5	5	NEAR COAST OF PERU
	20	17	52	16.5?	24.05	S	177.01	W	237	?	4.2		1.3	19	SOUTH OF FIJI ISLANDS
	20	17	53	29.0*	51.025	N	178.883	E	33	N	4.3		1.2	16	RAT ISLANDS, ALEUTIAN ISLANDS
	20	21	01	11.3*	35.967	N	140.503	E	88	?			0.7	8	NEAR EAST COAST OF HONSHU, JAPAN
	20	22	07	55.5%	41.223	N	23.339	E	10	G			1.1	5	GREECE-BULGARIA BORDER REGION
	20	23	19	27.2*	42.548	N	13.203	E	10	G			0.4	5	CENTRAL ITALY. MD 2.1 (SSO).
	20	23	28	11.8	6.327	S	128.047	E	366		4.9		1.1	44	BANDA SEA
	20	23	58	25.0*	1.956	N	127.057	E	141	*	4.7		0.8	22	HALMAHERA
	21	00	11	34.6*	27.887	S	67.225	W	163	?			1.2	6	CATAMARCA PROVINCE, ARGENTINA
	21	00	30	35.8	36.549	N	141.360	E	42	D	4.9		1.2	56	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at

														Fukushima, Mito and Onahama, (1 JMA) at Sendai, Shirakawa and Utsunomiya.
	21	00	54	39.3?	46.27	N	12.70	E	10	G		0.4	4	NORTHERN ITALY. MD 2.7 (LJU), 2.3 (TRI).
	21	01	21	55.5%	42.301	N	13.735	E	10	G		0.3	6	CENTRAL ITALY
	21	01	25	18.4*	15.122	N	60.925	W	25	*		0.1	6	LEEWARD ISLANDS. ML 2.8 (FDF).
	21	01	26	13.8&	38.800	N	122.800	W	3				15	NORTHERN CALIFORNIA. <BRK>. ML 2.9 (BRK).
	21	01	37	30.8%	34.973	N	135.577	E	10	G		0.6	6	NEAR S. COAST OF SOUTHERN HONSHU. MG 3.1 (JMA). Felt (II JMA) at Kyoto.
	21	02	02	55.0*	35.533	N	139.012	E	10	G		0.7	7	NEAR S. COAST OF HONSHU, JAPAN. MG 3.6 (JMA). Felt (I JMA) at Kawaguchi-ko.
	21	02	30	50.3&	40.365	N	124.657	W	12				6	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.3 (BRK).
	21	02	43	30.7?	35.32	N	140.51	E	10	G		0.6	7	NEAR EAST COAST OF HONSHU, JAPAN
	21	03	59	19.9%	46.223	N	1.668	E	10	G		1.1	11	FRANCE. ML 2.2 (LDG).
	21	03	59	50.1%	46.198	N	1.650	E	10	G		1.0	10	FRANCE. ML 2.4 (LDG).
	21	04	16	01.7*	7.418	S	125.598	E	33	N	4.6	1.3	20	BANDA SEA
	21	05	12	58.2?	6.35	S	147.33	E	68	?	4.5	0.0	5	EAST PAPUA NEW GUINEA REGION
	21	06	39	15.5*	32.122	S	70.844	W	115	?		1.0	13	CHILE-ARGENTINA BORDER REGION
	21	06	41	20.7	14.100	N	92.251	W	54		4.0	1.0	40	NEAR COAST OF CHIAPAS, MEXICO
	21	07	16	27.6	38.967	N	22.307	E	10	G		1.0	26	GREECE. ML 3.3 (ATH).
	21	09	41	38.6	38.171	N	74.227	E	168	D	5.0	0.9	23	TAJIK-XINJIANG BORDER REGION
	21	11	13	27.2*	24.405	S	67.139	W	197	?		1.2	7	CHILE-ARGENTINA BORDER REGION
	21	11	27	25.0	34.908	N	118.745	W	10	G		1.5	7	SOUTHERN CALIFORNIA. ML 2.5 (NEIS).
	21	11	37	37.3	12.241	N	143.326	E	33	N	4.7	0.8	14	SOUTH OF MARIANA ISLANDS
	21	11	48	13.1&	39.375	N	120.467	W	24				27	NORTHERN CALIFORNIA. <BRK>. ML 4.0 (BRK). Mo=1.4*10**15 Nm (BRK). Felt (V) at Nevada City; (IV) at Grass Valley, Norden, Sierra City, Sierraville and Soda Springs; (III) at Oroville and Washington. Also felt at Auburn, Foresthill, Jackson and Truckee.
	21	13	22	33.7	6.389	S	129.848	E	166	*	4.8	1.0	44	BANDA SEA
	21	13	41	16.2?	62.34	N	1.45	E	10	G		1.0	12	NORWEGIAN SEA. MD 2.7 (BER).
	21	13	45	12.8	44.288	N	8.349	E	10	G		0.6	7	NORTHERN ITALY. ML 1.6 (GEN).
	21	13	53	06.4	39.303	N	22.520	E	10	G		0.9	27	GREECE. ML 3.4 (ATH).
	21	15	31	09.4?	40.89	N	21.65	E	10	G		0.3	4	GREECE. ML 2.0 (SKO).
a	21	16	46	34.9	10.164	S	161.061	E	120		5.2	0.9	119	SOLOMON ISLANDS. Felt (III) at Honiara and (II) on Guadalcanal.
	21	16	56	11.0	41.976	N	15.461	E	10	G		1.5	7	SOUTHERN ITALY
	21	16	56	57.7*	13.467	N	61.615	W	139	?		0.8	14	WINDWARD ISLANDS
a	21	17	41	18.0&	40.327	N	124.705	W	16		4.8 4.7		104	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 4.8 (BRK). Felt (V) at Eureka, Ferndale, Honeydew, Hydesville, Loleta, Phillipsville, Rio Dell, Scotia and Weott; (IV) at Alderpoint, Boyside, Blocksburg, Bridgeville, Carlotta, Fields Landing, Fortuno, Garberville, Kneeland, Leggett, Mirando, Myers Flat, Piercy, Redcrest, Redway and Westport.
	21	17	50	44.3	40.147	S	176.550	E	50		4.7 5.0	1.1	35	NORTH ISLAND, NEW ZEALAND. Felt at Napier.
	21	20	06	10.5?	8.45	S	74.21	W	161	?	4.2	0.5	9	PERU-BRAZIL BORDER REGION
	21	21	24	43.2&	59.595	N	153.702	W	107				12	SOUTHERN ALASKA. <AGS-P>.
	21	21	28	48.5&	36.232	N	120.348	W	8				15	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
	21	21	31	02.1&	36.230	N	120.350	W	9				14	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).
	21	22	17	19.7	46.493	N	1.258	E	10	G		1.0	10	FRANCE. ML 2.3 (LDG).
	21	22	44	12.7*	32.259	N	142.187	E	33	N	4.3	0.6	10	SOUTH OF HONSHU, JAPAN
	22	00	22	04.6*	54.974	N	163.855	W	170		4.7	0.2	15	UNIMAK ISLAND REGION
	22	01	13	10.1?	32.10	N	141.86	E	33	N	4.3	1.2	6	SOUTH OF HONSHU, JAPAN
	22	01	14	12.3*	19.554	N	97.607	E	10	G		1.7	5	BURMA
a	22	02	25	50.8	31.583	N	102.433	E	15	G	6.1 6.1	1.1	441	SICHUAN PROVINCE, CHINA. At least 54 people injured, about 4,270 houses destroyed, more than 300 animals killed and damage caused to bridges, highways and to a phosphorus mine in Xiaojin County. Depth from broadband displacement seismograms.
	22	05	03	53.7&	31.710	N	115.580	W	6	G			7	BAJA CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
	22	05	34	24.3&	54.330	N	161.622	W	3				10	ALASKA PENINSULA. <PAL>.
	22	05	43	18.0*	3.836	S	80.679	W	65	?	4.4	1.4	14	PERU-ECUADOR BORDER REGION
	22	06	09	41.0	37.586	N	118.966	W	5	G		0.7	15	CALIFORNIA-NEVADA BORDER REGION. ML 2.6 (BRK).
	22	06	59	39.7*	43.373	N	13.036	E	10	G		0.1	5	CENTRAL ITALY
	22	07	02	59.3	31.018	S	67.797	W	5	G	5.0	1.6	38	SAN JUAN PROVINCE, ARGENTINA
	22	07	40	44.6*	32.547	S	69.578	W	118	?		1.5	19	MENDOZA PROVINCE, ARGENTINA
	22	08	40	36.5	27.765	S	66.862	W	177	*	4.2	1.1	21	CATAMARCA PROVINCE, ARGENTINA
	22	08	52	22.9	44.597	N	8.312	E	10	G		0.2	9	NORTHERN ITALY. ML 2.5 (GEN).
	22	09	04	23.4%	41.240	N	23.136	E	13	*		0.5	6	GREECE-BULGARIA BORDER REGION
	22	09	29	54.4&	54.677	N	161.904	W	51				10	ALASKA PENINSULA. <PAL>.
	22	09	32	43.4*	20.057	S	69.254	W	137	*	4.4	1.1	12	NORTHERN CHILE
	22	09	51	49.9	44.267	N	7.493	E	10	G		0.7	9	NORTHERN ITALY. ML 2.0 (GEN).
	22	10	14	53.6*	49.065	N	128.841	W	10	G	4.4	1.5	15	VANCOUVER ISLAND REGION
	22	10	39	49.5*	36.760	N	71.637	E	33	N	4.5	1.2	11	AFGHANISTAN-USSR BORDER REGION
	22	12	19	59.8*	42.307	N	24.587	E	10	G		1.7	5	BULGARIA
	22	13	58	00.7*	33.138	N	140.346	E	175	?	4.8	0.3	13	SOUTH OF HONSHU, JAPAN
	22	14	02	39.2?	29.60	S	71.75	W	33	N		1.1	14	NEAR COAST OF CENTRAL CHILE
	22	15	02	05.5*	6.165	S	150.371	E	33	N	3.7	1.4	6	NEW BRITAIN REGION
	22	15	16	04.0	6.158	S	150.488	E	75	*	4.3	1.3	21	NEW BRITAIN REGION
	22	15	43	39.2	16.618	S	69.487	W	210		4.6	1.2	30	PERU-BOLIVIA BORDER REGION
	22	16	20	57.9*	21.967	S	68.609	W	33	N	4.6	1.2	6	CHILE-BOLIVIA BORDER REGION
	22	16	34	17.3?	40.65	N	22.43	E	10	G		0.3	4	GREECE
	22	19	20	43.8	40.301	N	51.755	E	59	*	4.5	0.9	16	CASPIAN SEA
	22	20	20	17.1?	31.30	S	71.30	W	150	?		1.0	13	NEAR COAST OF CENTRAL CHILE
	22	20	21	08.5	40.306	N	51.627	E	52	D	4.9	1.0	160	CASPIAN SEA
	22	21	11	51.1%	39.340	N	28.000	E	10	G		1.0	6	TURKEY
	22	21	23	54.7	5.345	S	129.833	E	234	*	4.9	0.9	24	BANDA SEA
	22	23	30	42.4	40.327	N	51.878	E	33	N	4.7	1.1	32	CASPIAN SEA
	23	01	11	41.9*	42.873	N	13.146	E	10	G		0.4	5	CENTRAL ITALY
	23	01	13	09.1?	44.77	S	81.61	W	10	G		1.4	11	WEST CHILE RISE
	23	03	06	39.6*	31.036	S	68.137	W	10	G		1.8	8	SAN JUAN PROVINCE, ARGENTINA
	23	04	07	15.5	38.305	N	23.660	E	10	G		0.7	10	GREECE. ML 2.6 (ATH).
	23	04	16	59.9*	12.131	S	167.010	E	269	?	4.4	0.9	36	SANTA CRUZ ISLANDS

	23	04	56	55.4?	5.22	N	127.50	E	33	N	4.9		0.5	9	PHILIPPINE ISLANDS REGION
	23	05	45	31.1*	56.176	S	26.977	W	100	G	5.1		1.0	18	SOUTH SANDWICH ISLANDS REGION
	23	07	42	37.3*	37.357	S	78.390	E	10	G	4.8	4.6	0.6	8	MID-INDIAN RISE
	23	08	15	18.1&	40.513	N	124.883	W	14					9	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.1 (BRK).
	23	08	17	14.8%	37.732	N	14.953	E	10	G			0.3	6	SICILY
	23	08	19	02.4	38.308	N	23.605	E	10	G			0.5	6	GREECE. ML 2.4 (ATH).
	23	08	20	51.2%	37.717	N	14.904	E	10	G			1.6	5	SICILY
	23	08	43	33.0?	39.19	N	27.77	E	10	G			0.1	4	TURKEY
	23	08	47	29.3	61.198	N	150.270	W	33	N			0.4	9	SOUTHERN ALASKA. ML 3.0 (PMR).
	23	08	58	39.5?	17.32	N	101.06	W	33	N			1.6	5	NEAR COAST OF GUERRERO, MEXICO
	23	09	16	33.7	44.275	N	7.481	E	10	G			0.5	16	NORTHERN ITALY. ML 2.3 (GEN).
	23	09	56	04.0%	37.803	N	3.533	W	10	G			0.4	6	SPAIN. mbLg 2.8 (MDD).
	23	10	28	48.4?	37.95	N	15.39	E	10	G			0.3	4	SICILY
	23	11	00	15.0*	40.248	N	51.613	E	60	G	4.2		1.1	29	CASPIAN SEA
	23	11	11	53.1	6.886	N	76.561	W	10	G	4.5	3.8	1.1	24	NORTHERN COLOMBIA
	23	11	40	57.9	37.119	N	24.040	E	161	*			0.9	16	SOUTHERN GREECE
	23	12	19	33.0*	6.513	N	77.018	W	64	*	3.8		1.1	11	NEAR WEST COAST OF COLOMBIA
	23	12	38	45.8&	52.604	N	162.852	W	6					6	SOUTH OF ALASKA. <PAL>.
	23	13	17	52.2	37.799	N	14.955	E	28		4.3		0.8	14	SICILY
	23	13	41	04.6?	37.69	N	14.86	E	10	G			0.2	5	SICILY
	23	13	44	48.0?	37.77	N	15.08	E	10	G			0.2	4	SICILY
a	23	15	31	16.0	39.493	N	29.848	W	13	D	5.1	4.9	0.8	189	AZORES ISLANDS. Felt (III) on Faial.
	23	15	51	38.7?	28.55	S	178.07	W	33	N	4.7		1.2	10	KERMADEC ISLANDS REGION
	23	17	05	19.7%	37.768	N	14.919	E	10	G			1.6	9	SICILY
a	23	17	51	38.2	22.621	N	121.971	E	31	D	5.5	5.1	1.0	233	TAIWAN REGION
	23	18	30	36.0	40.501	N	28.425	E	10	G			1.1	9	TURKEY
	23	18	37	24.8	7.069	S	155.592	E	69	*	4.5		1.0	40	SOLOMON ISLANDS
	23	19	00	16.3	44.566	N	6.828	E	10	G			0.3	22	FRANCE. ML 2.5 (LDG).
	23	19	50	19.9?	44.31	N	7.42	E	10	G			0.4	4	NORTHERN ITALY. ML 1.9 (GEN).
	23	20	03	26.7	38.248	N	8.609	W	10	G			1.0	23	PORTUGAL. mbLg 4.1 (MDD). MD 3.7 (RBA).
	23	20	46	15.6	44.636	N	7.261	E	10	G			0.1	7	NORTHERN ITALY. ML 2.2 (GEN).
	23	21	07	03.0	37.776	N	14.981	E	22				0.7	13	SICILY
	23	21	09	22.7?	37.88	N	15.23	E	33	N			0.8	5	SICILY
	23	21	57	06.3%	37.762	N	14.982	E	10	G			1.1	8	SICILY
	23	22	14	37.2?	37.97	N	15.50	E	10	G			1.5	5	SICILY
	23	22	18	57.5?	37.97	N	15.42	E	10	G			0.4	6	SICILY
	23	22	22	34.3%	37.834	N	14.948	E	10	G			1.1	5	SICILY
	23	22	37	46.7	32.993	N	140.705	E	73		5.0		1.1	72	SOUTH OF HONSHU, JAPAN. Felt (II JMA) on Hachijo-jima.
	23	22	44	15.3&	40.768	N	124.280	W	23					19	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.4 (BRK). Felt (IV) at Arcata and Eureka; (III) at Ria Dell, Samoa, Scotia and Trinidad.
	23	23	13	12.2?	33.05	S	70.25	W	105	?			0.3	10	CHILE-ARGENTINA BORDER REGION
	23	23	54	52.7%	44.574	N	6.850	E	10	G			0.4	9	FRANCE. ML 2.1 (GEN).
	23	23	56	03.6*	40.697	N	123.887	W	15	G			0.8	8	NORTHERN CALIFORNIA. ML 2.6 (BRK).
	24	00	47	56.7	40.305	N	51.802	E	33	N	4.4		1.0	20	CASPIAN SEA
	24	00	54	36.3%	33.768	S	71.594	W	10	G			0.5	10	NEAR COAST OF CENTRAL CHILE
	24	01	12	47.1&	50.906	N	125.509	W	5	G				32	VANCOUVER ISLAND REGION. <PGC>. ML 3.8 (PGC).
	24	01	27	58.2*	14.908	S	71.439	W	33	N			1.5	6	PERU
	24	01	30	41.6?	29.56	S	178.02	W	197	?	4.4		1.5	9	KERMADEC ISLANDS
	24	01	37	19.7	44.551	N	6.785	E	10	G			0.4	11	FRANCE. ML 2.0 (GEN).
	24	01	39	43.2?	26.43	S	111.86	W	10	G	4.8	4.4	1.3	19	EASTER ISLAND REGION
	24	02	00	52.7	2.849	N	128.340	E	38	D	5.1	4.4	1.1	48	HALMAHERA
	24	03	33	57.0%	37.725	N	14.958	E	10	G			0.8	5	SICILY
	24	06	03	15.3%	37.799	N	14.956	E	10	G			1.2	13	SICILY
	24	06	08	18.3?	37.85	N	15.14	E	33	N			0.7	4	SICILY
	24	06	15	58.6	42.553	N	12.530	E	10	G			0.9	20	CENTRAL ITALY
	24	06	16	20.0?	38.00	N	15.56	E	5	G			0.2	5	SICILY
	24	06	20	03.8*	12.313	N	143.316	E	33	N	4.0		0.4	7	SOUTH OF MARIANA ISLANDS
	24	06	55	47.7	42.814	N	18.640	E	10	G			0.9	16	YUGOSLAVIA. ML 2.5 (TTG).
	24	07	35	54.1?	44.51	N	6.71	E	10	G			0.5	4	FRANCE. ML 1.4 (GEN).
	24	07	56	09.5%	44.482	N	6.693	E	10	G			0.1	5	FRANCE. ML 1.7 (GEN).
	24	08	03	09.8%	44.505	N	6.668	E	10	G			0.1	5	FRANCE. ML 2.4 (GEN).
	24	08	15	41.7%	37.771	N	14.970	E	10	G			0.9	9	SICILY
	24	08	33	23.8?	44.56	N	6.85	E	10	G			0.3	4	FRANCE. ML 1.9 (GEN).
	24	10	05	06.7	25.079	N	123.698	E	133	*	4.8		1.0	30	NORTHEAST OF TAIWAN
a	24	10	53	54.2	9.977	N	59.851	W	47		5.1	4.5	0.9	63	NORTH ATLANTIC OCEAN. MD 5.2 (TRN).
a	24	10	55	20.9	20.697	N	94.968	E	134	D	5.3		0.9	292	BURMA. Felt at Magwe.
	24	11	44	08.6?	41.94	N	23.05	E	10	G			0.4	5	GREECE-BULGARIA BORDER REGION
	24	13	52	09.2?	44.50	N	6.71	E	10	G			0.4	4	FRANCE. ML 2.0 (GEN).
	24	14	05	46.5	58.533	N	152.707	W	65	*	4.5		0.8	15	KODIAK ISLAND REGION. Felt (III) at Port Lions.
	24	14	52	59.6	19.036	S	168.288	E	147	?	4.8		1.1	8	VANUATU ISLANDS
	24	14	56	20.7&	39.987	N	120.798	W	19					15	NORTHERN CALIFORNIA. <BRK>. ML 3.0 (BRK).
	24	16	50	09.9	44.572	N	6.851	E	9				0.5	32	FRANCE. MD 2.1 (STR).
	24	16	52	25.0	44.564	N	6.860	E	10	G			0.8	43	FRANCE. MD 2.5 (STR).
	24	16	56	52.2*	10.380	N	59.888	W	59	*	4.5		0.7	21	NORTH ATLANTIC OCEAN. MD 4.5 (TRN).
a	24	17	18	42.9	33.298	N	134.933	E	33	N	5.0	4.5	1.0	96	SHIKOKU, JAPAN. Felt (II JMA) at Muroto-misoki and Tokushimo; (I JMA) at Kochi. Felt (II JMA) at Wakayama; (I JMA) at Hiroshima, Kabe and Osaka, Honshu. Also felt (II JMA) at Sumoto, Awoji-shima.
	24	17	43	56.2%	44.572	N	6.846	E	10	G			0.3	9	FRANCE. ML 2.3 (GEN).
	24	17	49	30.9?	44.65	N	7.29	E	10	G			0.2	4	NORTHERN ITALY. ML 1.8 (GEN).
	24	17	56	11.6%	44.723	N	7.264	E	10	G			0.4	5	NORTHERN ITALY. ML 1.5 (GEN).
	24	18	45	45.7	16.118	N	96.738	W	44		5.0		1.0	100	OAXACA, MEXICO
	24	18	45	49.0	42.530	N	12.544	E	10	G			1.0	26	CENTRAL ITALY
	24	19	29	56.7	44.573	N	6.862	E	12				0.3	23	FRANCE. ML 2.2 (GEN).
	24	19	55	19.8?	32.23	S	71.60	W	33	N			1.1	8	NEAR COAST OF CENTRAL CHILE
	24	20	16	02.8	41.250	N	1.174	W	10	G			0.8	12	SPAIN. ML 3.2 (LDG). mbLg 3.1 (MDD).
	24	20	22	23.3%	44.555	N	6.805	E	10	G			0.3	9	FRANCE. ML 2.1 (GEN).
	24	20	30	00.4%	44.560	N	6.849	E	10	G			0.6	7	FRANCE. ML 2.0 (GEN).
	24	20	35	18.9%	44.514	N	6.729	E	10	G			0.5	8	FRANCE. ML 2.0 (GEN).
	24	20	37	12.0	6.989	N	73.123	W	176	*	4.8		0.9	12	NORTHERN COLOMBIA
	24	20	41	16.5?	44.73	N	7.26	E	10	G			0.2	4	NORTHERN ITALY. ML 1.4 (GEN).
	24	21	27	54.9	41.264	N	19.483	E	10	G			1.1	81	ALBANIA. ML 4.1 (ATH). Felt (V) at Kryemadh, Karpen,

													Gose and Qerret; (IV) at Kavaja and Durres.
	24	21	29	57.6*	41.091	N	19.122	E	10	G		1.1	6 ALBANIA. ML 3.0 (SKO).
	24	21	51	00.2?	44.46	N	6.65	E	10	G		0.8	5 FRANCE. ML 1.4 (GEN).
	24	22	09	49.2	25.370	S	178.380	E	571	*	5.0	0.9	69 SOUTH OF FIJI ISLANDS
	25	00	02	43.5?	44.18	N	7.06	E	5	G		0.4	4 NORTHERN ITALY. ML 1.5 (GEN).
	25	01	15	12.6	41.213	N	20.837	E	10	G		1.2	7 ALBANIA. ML 1.5 (SKO).
	25	01	33	12.4	41.682	N	20.127	E	10	G		1.3	6 ALBANIA. ML 2.0 (SKO).
	25	01	46	31.7	33.717	S	68.615	W	52	*	4.5	0.8	23 MENDOZA PROVINCE, ARGENTINA. Felt (III) at Mendoza.
	25	01	55	42.0*	18.017	N	145.382	E	321	*	4.1	1.0	19 MARIANA ISLANDS
	25	02	09	07.9*	23.020	N	94.598	E	85	?	3.8	1.6	9 BURMA-INDIA BORDER REGION
	25	02	12	53.6%	38.274	N	27.065	E	10	G		1.4	6 TURKEY
	25	02	28	29.4?	46.70	N	5.88	E	10	G		0.2	4 FRANCE. ML 2.1 (LDG).
	25	02	28	44.1?	46.71	N	5.88	E	10	G		0.6	4 FRANCE. ML 2.1 (LDG).
	25	02	32	30.0	3.198	S	134.577	E	33	N	4.0	1.2	21 WEST IRIAN REGION
	25	03	16	20.7%	44.491	N	6.725	E	10	G		0.4	5 FRANCE. ML 1.8 (GEN).
	25	03	18	03.0?	44.50	N	6.66	E	10	G		0.4	4 FRANCE. ML 1.6 (GEN).
	25	04	05	04.3?	33.07	S	73.30	W	10	G		0.3	10 OFF COAST OF CENTRAL CHILE
	25	04	05	18.8&	60.775	N	144.506	W	0				8 SOUTHERN ALASKA. <AGS-P>. ML 3.3 (PMR).
	25	04	31	06.5*	35.520	N	31.310	E	97	?		1.3	11 CYPRUS
	25	04	59	38.0&	34.168	N	119.155	W	6	G			6 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS). Felt at Oxnard and Ventura.
	25	06	35	39.2	44.583	N	6.855	E	10	G		0.4	10 FRANCE. ML 2.1 (GEN).
	25	07	31	53.9	44.577	N	6.873	E	10	G		0.4	16 FRANCE. ML 2.5 (GEN).
	25	07	35	46.2	36.868	N	21.497	E	46		4.2	1.2	118 SOUTHERN GREECE. Felt in the Pilas area.
	25	07	38	11.8	36.829	N	21.497	E	55		4.6	1.1	49 SOUTHERN GREECE. MD 4.4 (ATH).
	25	08	49	21.6?	44.43	N	7.48	E	10	G		0.0	4 NORTHERN ITALY. ML 1.9 (GEN).
	25	09	27	58.3%	44.228	N	7.437	E	5	G		0.2	6 NORTHERN ITALY. ML 2.0 (GEN).
	25	09	57	13.4%	44.524	N	6.726	E	10	G		0.4	8 FRANCE. ML 2.0 (GEN).
	25	10	08	02.2?	44.58	N	6.89	E	10	G		0.6	4 FRANCE. ML 2.0 (GEN).
	25	11	05	26.9?	44.62	N	6.91	E	10	G		0.9	4 FRANCE. ML 1.9 (GEN).
	25	11	14	07.7	44.571	N	6.888	E	10	G		0.4	18 FRANCE. ML 2.9 (LDG).
	25	12	15	03.5*	39.579	N	119.108	W	5	G		0.6	5 NEVADA. ML 2.7 (BRK).
	25	12	54	33.0%	37.029	N	28.847	E	10	G		1.2	5 TURKEY
	25	13	40	33.2&	40.410	N	124.437	W	24				10 NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.4 (BRK).
	25	14	05	11.6%	40.233	N	28.152	E	10	G		1.1	7 TURKEY
	25	14	10	22.2*	9.512	S	154.108	E	33	N	4.6	0.9	13 DENTRECASTEAUX ISLANDS REGION
a	25	14	17	47.0	20.355	S	169.277	E	34	G	6.1 6.3	1.0	455 VANUATU ISLANDS. Ms 6.4 (BRK), 6.1 (PAS). Depth from broadband displacement seismograms.
	25	15	19	07.7	43.407	N	5.424	E	10	G		0.6	14 NEAR SOUTH COAST OF FRANCE. ML 2.6 (STR).
	25	15	32	52.0%	38.316	N	28.072	E	10	G		1.4	7 TURKEY
	25	16	48	27.1	33.517	S	179.150	E	223	D	4.8	1.4	40 SOUTH OF KERMADEC ISLANDS
	25	18	47	17.9	35.063	S	178.861	E	191	*	5.3	1.0	52 OFF E. COAST OF N. ISLAND, N.Z.
	25	19	24	06.9%	37.095	N	4.204	W	10	G		1.2	9 SPAIN
	25	20	45	17.0%	44.538	N	6.771	E	10	G		0.3	8 FRANCE. ML 2.1 (GEN).
	25	22	11	41.4*	0.065	N	38.483	E	10	G	4.2	1.3	11 KENYA
	25	22	34	56.9%	44.520	N	6.741	E	10	G		0.2	7 FRANCE. ML 2.0 (GEN).
	25	22	37	32.3%	44.550	N	6.768	E	10	G		0.4	7 FRANCE. ML 1.9 (GEN).
	25	22	52	38.7?	41.01	N	23.71	E	10	G		0.1	4 GREECE-BULGARIA BORDER REGION
	25	23	23	28.4	44.398	N	28.333	W	10	G	4.5	0.8	35 NORTH ATLANTIC RIDGE
	26	00	18	50.0	76.175	N	134.246	E	10	G	4.5	1.0	32 LAPTEV SEA
	26	00	49	17.0*	0.099	N	38.470	E	10	G	4.3	1.3	9 KENYA
	26	01	00	11.6?	40.41	N	28.62	E	10	G		0.1	4 TURKEY
	26	01	21	17.1?	32.93	S	72.09	W	10	G		0.5	10 OFF COAST OF CENTRAL CHILE
	26	01	45	49.8?	51.50	N	16.27	E	10	G		1.4	5 POLAND
	26	02	13	09.1&	38.752	N	122.895	W	7				18 NORTHERN CALIFORNIA. <BRK>. ML 3.4 (BRK). Mo=4.4*10**14 Nm (BRK). Felt (IV) at Cloverdale.
	26	02	24	12.4	31.394	S	178.521	W	33	N	5.4	0.8	60 KERMADEC ISLANDS REGION
	26	02	39	59.2?	4.12	N	123.46	E	570	?	4.6	1.2	11 CELEBES SEA
	26	03	40	33.0%	44.529	N	6.755	E	10	G		0.2	5 FRANCE. ML 1.7 (GEN).
	26	04	40	50.4	30.232	S	68.436	W	57	*	4.4	1.2	26 SAN JUAN PROVINCE, ARGENTINA
	26	05	31	51.7?	61.91	N	4.37	E	10	G		1.4	7 SOUTHERN NORWAY. MD 2.5 (BER).
	26	05	41	16.9*	4.716	S	138.696	E	33	N	4.4	1.5	11 WEST IRIAN
	26	05	53	11.6*	24.058	S	179.847	W	536	?	4.8	1.0	29 SOUTH OF FIJI ISLANDS
	26	07	02	53.1*	4.802	S	136.989	E	33	N	4.0	1.5	10 WEST IRIAN REGION
	26	08	13	44.6%	44.517	N	6.732	E	10	G		0.4	5 FRANCE. ML 2.0 (GEN).
	26	08	15	46.0?	44.51	N	6.72	E	10	G		0.2	4 FRANCE. ML 1.7 (GEN).
	26	09	43	46.5*	19.693	N	108.831	W	33	N	4.3	1.4	21 REVILLA GIGEDO ISLANDS REGION
	26	09	44	58.1	35.920	N	25.418	E	10	G		1.1	9 CRETE
	26	09	59	15.0	12.534	N	95.467	E	22	D	4.9	1.2	45 ANDAMAN ISLANDS REGION
	26	10	48	41.6%	39.264	N	27.683	E	10	G		0.7	5 TURKEY
	26	10	54	12.4%	39.644	N	29.487	E	10	G		0.3	5 TURKEY
	26	11	08	38.7%	43.072	N	0.603	W	10	G		0.5	5 PYRENEES. MD 1.0 (STR).
	26	11	13	49.9	42.235	N	13.616	E	10	G		0.9	11 CENTRAL ITALY
	26	11	36	04.6%	44.528	N	6.791	E	10	G		0.1	6 FRANCE. ML 1.4 (GEN).
	26	11	55	21.4	46.827	N	7.226	E	10	G		1.0	8 SWITZERLAND. MD 1.0 (STR).
	26	13	19	31.7	39.522	N	25.698	E	10	G		1.4	8 AEGEAN SEA. MD 3.1 (ATH).
	26	13	36	06.4*	28.632	N	43.690	W	10	G	4.6 3.9	0.8	15 NORTH ATLANTIC RIDGE
	26	13	54	34.3*	39.218	N	22.007	E	10	G		1.2	5 GREECE. MD 3.3 (ATH).
	26	14	17	03.2?	58.78	N	6.13	E	10	G		1.0	5 SOUTHERN NORWAY. MD 1.8 (BER).
	26	14	52	03.4?	40.34	N	28.75	E	10	G		1.3	4 TURKEY
	26	15	12	00.2?	35.06	N	24.08	E	54	?		0.7	5 CRETE
	26	15	22	15.3?	34.94	N	23.92	E	72	*	3.9	1.1	6 CRETE. MD 3.6 (ATH).
	26	15	54	10.7	41.633	N	19.524	E	10	G		1.4	11 ALBANIA. ML 2.2 (TTG).
	26	16	04	58.3?	4.29	S	152.61	E	105	?	5.0	1.1	12 NEW BRITAIN REGION
	26	16	05	01.0?	40.08	N	28.16	E	10	G		0.6	4 TURKEY
	26	16	38	10.5%	38.544	N	14.636	E	10	G		0.7	6 SICILY
	26	18	12	57.6%	45.329	N	7.336	E	10	G		0.4	5 NORTHERN ITALY. ML 2.2 (GEN).
	26	20	59	09.2%	37.670	N	2.522	W	10	G		1.6	5 SPAIN
	26	21	12	04.8	38.417	N	23.828	E	10	G		1.2	16 GREECE. MD 2.9 (ATH).
a	26	21	24	56.8	50.057	S	114.151	E	10	G	5.2 5.2	1.1	37 SOUTH OF AUSTRALIA
	26	21	46	29.7*	59.305	N	13.893	E	10	G		1.2	5 SWEDEN. ML 2.8 (UPP). Felt in the Varmland district.
	26	22	17	22.7?	44.55	N	129.44	W	10	G		0.3	42 OFF COAST OF OREGON
	26	22	28	19.8	42.294	N	20.004	E	10	G		1.1	17 YUGOSLAVIA. ML 2.7 (TTG).

26	22	44	13.1*	49.998	S	114.058	E	10	G	4.6 5.2	1.3	14	SOUTH OF AUSTRALIA
26	23	30	12.7	39.417	N	27.673	E	10	G		0.9	18	TURKEY
26	23	34	38.9	36.839	N	27.249	E	10	G		1.0	18	DODECANESE ISLANDS. MD 3.8 (ATH).
27	00	26	34.4	39.177	N	22.059	E	10	G		0.6	7	GREECE. MD 3.0 (ATH).
27	00	29	20.2	43.236	N	4.809	E	10	G		0.4	11	NEAR SOUTH COAST OF FRANCE. ML 3.0 (LDG).
27	00	36	48.4%	39.418	N	27.490	E	10	G		0.7	5	TURKEY
27	01	15	48.6?	36.47	S	71.48	W	91	?		0.8	18	CENTRAL CHILE
27	01	21	07.2?	43.39	N	0.58	W	10	G		0.2	5	PYRENEES. MD 1.0 (STR).
27	01	50	55.7*	5.343	S	152.186	E	33	N	4.9	0.8	6	NEW BRITAIN REGION
27	01	59	06.7*	49.143	N	7.048	E	10	G		1.5	5	GERMANY. MD 2.1 (UCC).
27	02	10	21.5	35.577	N	5.594	W	90			0.9	28	STRAIT OF GIBRALTAR. MD 3.7 (RBA).
27	02	10	46.0*	35.569	N	5.456	W	80	G		0.3	9	STRAIT OF GIBRALTAR
27	02	48	12.7&	42.326	N	111.364	W	3				7	EASTERN IDAHO. <SLC-P>. ML 2.9 (SLC). Felt (IV) at Georgetown and (III) at Fish Haven, Geneva, Montpelier and Ovid.
27	04	05	18.1?	14.10	S	166.10	E	186	?	4.5	1.4	7	VANUATU ISLANDS
27	04	27	22.0	29.288	N	130.527	E	37	D	5.0 4.1	1.2	54	RYUKYU ISLANDS
27	05	07	15.6%	44.682	N	7.137	E	10	G		0.8	5	NORTHERN ITALY. ML 1.8 (GEN).
27	05	15	48.9	44.574	N	6.859	E	10			0.3	24	FRANCE. ML 2.6 (LDG), 2.6 (GEN).
27	07	23	44.0?	40.48	N	23.07	E	10	G		0.3	4	GREECE
27	07	45	24.0	38.411	N	23.627	E	7			1.3	14	GREECE. ML 3.1 (ATH).
27	08	13	02.9	38.714	N	21.094	E	10	G		1.4	11	GREECE. MD 3.3 (ATH).
27	09	04	47.2&	62.529	N	151.596	W	101				23	CENTRAL ALASKA. <AGS-P>.
27	10	01	27.0?	39.68	N	29.45	E	10	G		0.4	4	TURKEY
27	10	05	34.8%	39.678	N	29.516	E	10	G		0.8	5	TURKEY
27	10	57	47.8?	8.25	S	127.98	E	182	?	4.5	1.5	9	TIMOR
27	11	51	56.2	31.124	S	70.365	W	160	?		0.5	14	CHILE-ARGENTINA BORDER REGION
27	12	22	52.9%	38.357	N	24.098	E	10	G		0.6	5	AEGEAN SEA. ML 2.8 (ATH).
27	12	30	03.8%	38.347	N	24.076	E	10	G		0.2	6	AEGEAN SEA. ML 2.9 (ATH).
27	12	34	09.1?	34.88	S	179.13	E	194	?	4.6	1.2	21	SOUTH OF KERMADEC ISLANDS
27	12	59	35.2%	60.293	N	5.397	E	10	G		0.4	7	SOUTHERN NORWAY. MD 1.5 (BER).
27	14	35	44.3*	35.253	N	36.588	W	10	G	4.7 4.7	0.8	19	NORTH ATLANTIC RIDGE
27	14	50	20.8%	59.037	N	5.933	E	10	G		0.4	5	SOUTHERN NORWAY. MD 1.6 (BER).
27	15	04	16.7?	50.67	N	5.38	E	10	G		1.5	4	BELGIUM. MD 2.2 (UCC).
27	15	33	09.4&	59.998	N	152.593	W	79				35	SOUTHERN ALASKA. <AGS-P>.
27	16	15	29.4%	60.635	N	6.233	E	10	G		0.5	7	SOUTHERN NORWAY. MD 1.8 (BER).
27	16	29	38.4%	44.395	N	7.406	E	10	G		0.5	7	NORTHERN ITALY. ML 1.9 (GEN).
27	16	33	27.7	47.474	N	7.268	E	10	G		0.3	7	SWITZERLAND. MD 1.0 (STR).
27	17	00	30.6?	44.40	N	6.41	E	5	G		0.4	4	FRANCE. ML 1.8 (GEN).
27	18	25	06.9?	44.12	N	7.42	E	10	G		0.4	4	NORTHERN ITALY. ML 1.5 (GEN).
27	18	37	50.1*	23.221	N	99.678	E	33	N	4.2	1.4	9	BURMA-CHINA BORDER REGION
27	18	39	33.0	30.344	N	131.444	E	33	N	4.1 4.0	0.7	19	KYUSHU, JAPAN
27	18	40	20.1&	59.863	N	153.494	W	133		3.8		38	SOUTHERN ALASKA. <AGS-P>.
27	18	43	13.6*	38.299	N	23.610	E	10	G		0.6	5	GREECE. ML 2.5 (ATH).
27	18	44	25.3%	38.302	N	23.624	E	10	G		0.8	6	GREECE. ML 3.0 (ATH).
27	18	50	54.7	38.263	N	23.568	E	10	G		1.1	9	GREECE. ML 3.0 (ATH).
27	19	23	09.4?	36.92	N	29.31	E	10	G		0.4	4	TURKEY
27	20	00	21.1	36.006	N	11.057	W	33	N		1.1	25	NORTH ATLANTIC OCEAN. mbLg 3.7 (MDD).
27	20	51	20.4%	35.234	N	27.095	E	10	G		0.7	5	DODECANESE ISLANDS. MD 3.4 (ATH).
27	21	00	22.2%	43.394	N	5.432	E	10	G		0.5	7	NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).
27	21	52	34.4	41.611	N	24.789	E	10	G		0.9	10	GREECE-BULGARIA BORDER REGION
27	23	31	34.7	10.415	N	60.489	W	115	*		1.1	26	TRINIDAD. MD 4.4 (TRN).
27	23	46	06.7	23.194	S	66.631	W	221		4.6	1.1	35	JUJUY PROVINCE, ARGENTINA
28	00	28	10.1*	6.362	S	147.785	E	59	?	4.8	1.2	10	EAST PAPUA NEW GUINEA REGION
28	00	32	43.2*	55.551	N	161.556	E	33	N	4.6	1.0	18	NEAR EAST COAST OF KAMCHATKA
28	01	38	25.5*	40 455	N	51.921	E	33	N	4.1	1.2	7	CASPIAN SEA
28	02	12	05.0%	43.674	N	3.357	E	10	G		0.7	5	NEAR SOUTH COAST OF FRANCE. ML 2.6 (LDG).
28	02	38	49.5?	38.44	N	73.62	E	33	N	4.3	1.2	5	TAJIK-XINJIANG BORDER REGION
28	03	13	49.1?	51.38	N	177.24	E	33	N	4.3	1.1	14	RAT ISLANDS, ALEUTIAN ISLANDS
28	03	56	22.5?	36.23	N	30.11	E	10	G		1.0	4	TURKEY
28	04	57	52.7*	40.394	N	27.236	E	10	G		1.1	8	TURKEY
28	05	16	03.1*	24.631	S	179.789	E	550	?	4.9	0.8	21	SOUTH OF FIJI ISLANDS
28	05	18	20.2?	43.21	N	19.25	E	10	G		0.3	4	YUGOSLAVIA. ML 2.1 (TTG).
28	06	07	06.9*	34.341	N	26.400	E	56	*	3.9	1.4	31	CRETE
28	08	06	25.2?	15.01	N	61.09	W	108	?		0.4	9	LEEWARD ISLANDS
28	09	31	05.1	41.878	N	20.146	E	10	G		0.9	16	ALBANIA. ML 3.3 (SKO), MD 2.9 (TTG).
28	10	27	21.8*	36.036	N	140.105	E	64	?		0.3	6	NEAR EAST COAST OF HONSHU, JAPAN
28	10	40	03.1*	37.897	S	175.786	E	330	?		0.3	22	NORTH ISLAND, NEW ZEALAND
28	11	33	39.2&	60.124	N	153.482	W	161				29	SOUTHERN ALASKA. <AGS-P>.
28	11	49	42.1	34.021	N	135.187	E	10	G		1.1	13	NEAR S. COAST OF SOUTHERN HONSHU. MG 3.9 (JMA). Felt (II JMA) at Wakayama.
28	12	13	15.1*	38.201	N	27.471	E	10	G		1.4	11	TURKEY. MD 3.3 (ATH).
28	12	27	41.2?	41.61	N	20.81	E	10	G		0.9	4	ALBANIA. ML 2.7 (SKO).
28	13	03	42.2%	60.720	N	5.554	E	10	G		0.4	6	SOUTHERN NORWAY. MD 1.8 (BER).
28	13	10	20.1	41.201	N	20.385	E	10	G		1.0	6	ALBANIA. MG 2.5 (TIR).
28	14	54	31.5&	58.103	N	142.656	W	10	G			5	GULF OF ALASKA. <AGS-P>.
28	15	07	10.4*	40.493	N	27.981	E	10	G		1.4	5	TURKEY
28	15	42	37.6&	36.555	N	121.133	W	10				19	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK).
28	16	12	41.1*	20.608	S	169.687	E	144	*		1.1	13	VANUATU ISLANDS
28	16	49	26.8*	34.958	N	27.383	E	33	N		0.8	10	EASTERN MEDITERRANEAN SEA. MD 4.0 (ATH).
28	20	51	41.1	40.180	N	23.930	E	10	G		1.2	9	GREECE
28	21	43	10.7*	20.214	N	98.746	E	33	N	4.1	1.1	9	BURMA
o 28	21	52	17.0	20.329	N	98.822	E	11	D	5.4 5.7	1.2	211	BURMA
28	22	09	58.2?	19.35	N	97.67	E	33	N	4.6	0.9	6	BURMA
28	22	50	11.9	20.205	N	98.510	E	33	N	4.3	1.3	20	BURMA
28	23	27	44.3?	43.10	N	0.59	W	10	G		0.1	4	PYRENEES. MD 1.0 (STR).
29	00	25	15.4	43.812	N	8.738	E	11			0.7	33	CORSICA. ML 3.0 (LDG).
29	01	33	09.2	35.642	N	27.306	E	64		4.2	1.2	58	DODECANESE ISLANDS
29	01	34	42.1?	42.96	N	0.86	W	10	G		0.0	4	PYRENEES. MD 1.0 (STR).
29	01	43	10.0	51.562	N	7.536	E	10	G		0.3	7	GERMANY
29	01	52	50.6*	35.711	N	141.030	E	10	G		0.7	8	NEAR EAST COAST OF HONSHU, JAPAN
29	03	30	41.2	41.906	N	20.139	E	10	G		1.1	19	ALBANIA. ML 3.3 (SKO). MD 3.0 (TTG).
29	04	02	52.3	43.851	N	8.729	E	10	G		0.7	12	CORSICA. ML 2.1 (GEN), 2.2 (LDG).

	29	04	33	36.6?	20.26	N	99.15	E	33	N			1.3	7	BURMA
	29	06	16	29.9*	30.532	S	28.849	E	5	G	4.9	4.1	1.5	23	REPUBLIC OF SOUTH AFRICA
	29	07	34	00.6	38.370	N	23.859	E	10	G			1.1	7	GREECE. ML 2.6 (ATH).
	29	08	30	45.2%	44.253	N	7.435	E	10	G			0.5	6	NORTHERN ITALY
	29	08	30	51.7%	40.651	N	29.876	E	10	G			1.2	9	TURKEY
	29	08	39	46.3	44.480	N	7.317	E	10	G			0.6	30	NORTHERN ITALY. ML 3.1 (LDG).
	29	09	29	57.3?	10.04	S	164.11	E	62	?	4.8	3.7	1.1	9	SANTA CRUZ ISLANDS REGION
	29	09	32	17.6	36.988	N	21.161	E	60	*	3.9		1.0	27	SOUTHERN GREECE
	29	10	30	12.2?	42.72	N	19.11	E	10	G			0.3	4	YUGOSLAVIA. MD 2.1 (TTG).
	29	11	24	43.9%	44.610	N	7.244	E	10	G			0.3	8	NORTHERN ITALY. ML 2.2 (GEN).
	29	11	37	41.4	51.644	N	173.411	W	33	N	4.5		0.7	25	ANDREANOF ISLANDS, ALEUTIAN IS.
	29	12	08	04.7?	72.53	N	2.55	W	10	G	4.4		1.2	21	JAN MAYEN ISLAND REGION
	29	12	46	25.7?	9.11	S	124.58	E	193	?	4.6		0.9	6	TIMOR
	29	12	59	46.3%	44.649	N	7.283	E	10	G			0.1	6	NORTHERN ITALY. ML 2.1 (GEN).
	29	13	00	09.1?	37.90	N	3.39	W	10	G			0.9	4	SPAIN
	29	13	15	54.6%	60.634	N	6.213	E	10	G			0.7	8	SOUTHERN NORWAY. MD 1.7 (BER).
	29	13	37	49.3?	41.15	N	28.96	E	10	G			0.3	4	TURKEY
	29	14	40	51.9*	19.218	N	99.232	E	33	N			0.8	5	SOUTHEAST ASIA
	29	14	41	25.1*	23.052	S	65.666	W	290	*	4.5		1.3	15	JUJUY PROVINCE, ARGENTINA
	29	14	43	38.2%	42.281	N	18.688	E	10	G			0.1	5	YUGOSLAVIA. ML 2.0 (TTG).
	29	15	14	59.9	44.043	N	7.583	E	10	G			0.5	9	NORTHERN ITALY. ML 2.1 (GEN).
	29	17	01	29.1%	40.500	N	27.350	E	10	G			0.2	5	TURKEY
	29	17	33	05.8	38.860	N	27.513	E	10	G			1.1	14	TURKEY. MD 3.3 (ATH).
	29	18	11	36.9?	43.09	N	6.21	E	10	G			0.8	13	NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).
	29	18	15	31.0?	30.89	N	141.98	E	33	N	4.3		0.7	8	SOUTH OF HONSHU, JAPAN
	29	19	21	03.0%	42.500	N	13.248	E	10	G			0.8	9	CENTRAL ITALY. MD 2.6 (SSO).
a	29	19	24	44.0	15.860	S	98.038	E	10	G	5.4	4.8	0.9	98	SOUTH INDIAN OCEAN
	29	20	44	38.0?	40.27	N	20.82	E	10	G			0.8	4	GREECE–ALBANIA BORDER REGION. ML 3.0 (SKO).
	29	21	07	18.1%	43.400	N	5.430	E	10	G			0.6	7	NEAR SOUTH COAST OF FRANCE. MD 2.6 (STR).
	29	21	23	22.4?	35.38	N	26.70	E	10	G			1.5	5	CRETE. MD 3.4 (ATH).
	29	21	31	05.4	45.334	N	28.023	W	10	G	4.8	4.5	0.9	98	NORTH ATLANTIC RIDGE
	29	21	33	49.9*	44.890	N	28.015	W	10	G	4.5		0.6	16	NORTH ATLANTIC RIDGE
	29	22	03	39.3&	61.668	N	148.064	W	7					23	SOUTHERN ALASKA. <AGS–P>.
	29	22	56	51.3	44.014	N	7.595	E	10	G			0.5	13	NORTHERN ITALY. ML 2.3 (GEN).
	30	00	16	51.6	11.417	N	85.554	W	198		4.5		0.9	61	NICARAGUA. Felt (II) at Liberia and San Jose, Costa Rica.
	30	00	28	52.5&	37.495	N	121.643	W	6					9	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).
	30	00	29	57.7?	23.93	S	178.43	E	562	*	5.0		0.9	15	SOUTH OF FIJI ISLANDS
	30	00	32	03.4*	43.709	N	19.367	E	10	G			1.4	10	YUGOSLAVIA. ML 2.9 (TTG).
	30	00	47	20.7	40.047	N	27.284	E	17				1.0	28	TURKEY
	30	01	00	53.1?	71.12	N	1.05	W	10	G	4.5	4.3	1.2	14	JAN MAYEN ISLAND REGION
	30	01	30	30.3*	44.778	N	111.105	W	5	G			0.5	7	HEBGEN LAKE REGION. ML 3.0 (BUT).
	30	01	46	36.7	44.780	N	111.127	W	5	G			0.5	8	HEBGEN LAKE REGION. ML 3.4 (BUT).
	30	02	18	11.6	44.868	N	111.124	W	5	G			0.6	8	HEBGEN LAKE REGION. ML 3.5 (BUT).
	30	03	26	28.9&	57.421	N	143.003	W	10	G				35	GULF OF ALASKA. <AGS–P>.
	30	03	30	04.2	58.134	N	153.645	W	75	D	4.7		1.1	106	KODIAK ISLAND REGION. Felt (III) at Karluk and Larsen Bay.
	30	03	45	32.1*	62.770	N	124.832	W	10	G			1.6	6	NORTHWEST TERRITORIES, CANADA
a	30	04	16	45.5	6.173	S	149.815	E	51	*	5.1	4.9	1.2	48	NEW BRITAIN REGION
	30	04	33	02.3&	59.931	N	153.169	W	125					47	SOUTHERN ALASKA. <AGS–P>.
	30	04	41	02.7	46.390	N	7.336	E	15				1.1	116	SWITZERLAND. ML 4.2 (GRF), 4.3 (LDG).
	30	04	54	10.1	44.777	N	111.104	W	5	G			0.5	8	HEBGEN LAKE REGION. ML 3.1 (BUT).
	30	05	04	02.0?	1.09	S	78.38	W	10	G			1.0	4	ECUADOR
	30	05	26	44.0	46.305	N	7.343	E	10	G			1.3	33	SWITZERLAND. ML 2.7 (LDG).
	30	06	51	59.9	44.787	N	111.114	W	5	G			0.7	8	HEBGEN LAKE REGION. ML 3.1 (BUT).
	30	07	09	43.1?	18.96	N	66.98	W	14	?			0.1	5	PUERTO RICO REGION
	30	07	13	07.1	44.786	N	111.106	W	5	G			0.3	8	HEBGEN LAKE REGION. ML 3.4 (BUT).
	30	07	43	38.9	1.919	S	102.215	E	208	*	4.9		1.1	35	SOUTHERN SUMATERA
	30	07	47	13.0*	35.033	N	23.047	E	52	*	4.0		1.0	28	CRETE
	30	08	40	22.4	20.349	N	98.821	E	24	D	4.9	4.6	1.0	63	BURMA
	30	09	21	03.5&	36.512	N	120.525	W	6					23	CENTRAL CALIFORNIA. <BRK>. ML 3.7 (BRK).
	30	09	58	01.3*	24.838	N	109.136	W	10	G	4.6		1.4	11	GULF OF CALIFORNIA
	30	10	13	13.6	30.110	N	42.700	W	10	G	4.9	4.7	0.9	74	NORTH ATLANTIC RIDGE
	30	10	54	37.3%	43.983	N	7.579	E	10	G			0.5	8	NEAR SOUTH COAST OF FRANCE. ML 2.2 (GEN).
	30	11	39	08.8%	41.858	N	12.788	E	10	G			0.4	5	SOUTHERN ITALY
	30	13	12	17.7&	62.771	N	149.116	W	64					57	CENTRAL ALASKA. <AGS–P>.
	30	14	42	15.2*	8.463	S	115.892	E	33	N	4.9		1.1	18	BALI ISLAND REGION
	30	14	53	30.1	34.653	N	23.945	E	28		4.4	3.9	1.2	155	CRETE. MD 4.6 (ATH).
	30	16	43	56.1%	44.774	N	7.610	E	10	G			0.6	7	NORTHERN ITALY. ML 2.1 (GEN).
	30	17	32	19.5	13.759	N	125.521	E	33	N	4.9	4.1	1.0	54	PHILIPPINE ISLANDS REGION
	30	18	16	00.6	45.103	N	14.977	E	10	G			1.4	56	YUGOSLAVIA. MD 3.8 (LJU), 3.5 (TRI). ML 3.4 (VKA), 3.4 (ZAG). Felt at Novi and Senj.
a	30	18	19	23.3	20.236	N	98.848	E	13	D	5.3	5.6	1.2	164	BURMA. Damage in the Muang District, Thailand. Felt in the Thailand–Burma border region.
	30	18	40	19.0%	44.292	N	11.161	E	10	G			0.7	5	NORTHERN ITALY
	30	21	04	03.5?	44.86	N	150.74	E	33	N	4.1		1.0	12	KURIL ISLANDS REGION
	30	22	06	07.3%	42.634	N	18.764	E	10	G			0.3	6	YUGOSLAVIA. ML 2.0 (TTG).
	30	22	44	39.7*	0.383	S	80.790	W	10	G			0.9	17	NEAR COAST OF ECUADOR. Felt in Manabi Province.
	30	23	48	46.7%	43.374	N	0.607	W	10	G			0.3	7	PYRENEES. MD 1.0 (STR).

ADDITIONAL SOURCE PARAMETERS

01 11 57 22.55 6.699S 108.426E 222km
5.3mb (24 obs.)
JAVA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 28C
Centroid Locotion:
Origin Time 11:57:25.0 0.6
Lot 7.13S 0.06 Lon 108.23E 0.06
Dep 228.7 3.5 Half-duration 2.1
Principol Axes:
Scole 10**17 Nm
T Vol= 1.44 Plg=11 Azm=300
N -0.06 32 37
P -1.38 56 194
Best Double Couple:Mo=1.4*10**17
NP1:Strike=357 Dip=44 Slip=-139
NP2: 235 63 -53

02 14 20 59.05 17.819S 178.549W 613km
5.3mb (39 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Dato Used: GDSN
L.P.B.: 11S, 19C
Centroid Location:
Drigin Time 14:21:11.0 1.4
Lat 17.41S 0.13 Lon 179.03W 0.11
Dep 601.5 5.6 Half-duration 1.5
Principal Axes:
Scole 10**16 Nm
T Vol= 9.09 Plg=67 Azm=118
N -0.19 7 225
P -8.90 22 318
Best Double Couple:Mo=9.0*10**16
NP1:Strike= 62 Dip=24 Slip= 108
NP2: 222 67 82

02 16 53 26.71 4.242S 152.942E 44km
5.4mb (20 obs.) 5.3Msz (13 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Dato Used: GDSN
L.P.B.: 11S, 25C
Centroid Location:
Origin Time 16:53:29.4 0.4
Lat 4.54S 0.05 Lon 153.18E 0.06
Dep 15.0 FIX Half-durotion 2.7
Principal Axes:
Scole 10**17 Nm
T Vol= 7.36 Plg=38 Azm=338
N -0.60 17 81
P -6.76 47 191
Best Double Couple:Mo=7.1*10**17
NP1:Strike= 9 Dip=18 Slip=-163
NP2: 263 85 -73

02 22 29 25.78 25.607N 125.251E 31km
5.1mb (14 obs.) 5.5Msz (2 obs.)
SOUTHWESTERN RYUKYU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Dato Used: GDSN
L.P.B.: 9S, 19C
Centroid Locotion:
Origin Time 22:29:25.7 0.6
Lat 25.41N 0.12 Lon 124.65E 0.13
Dep 15.0 FIX Half-durotion 1.5
Principol Axes:
Scole 10**16 Nm
T Vol= 9.43 Plg= 0 Azm=340
N 0.03 34 250
P -9.45 56 71
Best Double Couple:Mo=9.4*10**16
NP1:Strike= 99 Dip=54 Slip= -46
NP2: 221 54 -133

03 00 19 37.76 25.540N 125.263E 38km
5.1mb (19 obs.) 5.1Msz (2 obs.)
SOUTHWESTERN RYUKYU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Dato Used: GDSN
L.P.B.: 9S, 21C
Centroid Location:
Origin Time 00:19:37.5 0.4
Lot 25.61N 0.10 Lon 124.78E 0.11
Dep 15.0 FIX Half-durotion 1.9
Principol Axes:
Scole 10**17 Nm
T Vol= 2.11 Plg=23 Azm=151
N -0.70 59 287
P -1.42 19 52
Best Double Couple:Mo=1.8*10**17
NP1:Strike=191 Dip=59 Slip= 177
NP2: 282 87 31

04 05 20 55.93 4.219S 136.667E 9km
5.8mb (46 obs.) 6.0Msz (28 obs.)
WEST IRIAN REGION
FAULT PLANE SOLUTION: P-Woves
NP1:Strike=123 Dip=68 Slip= 90
NP2: 303 22 90
Principal Axes:
T Plg=67 Azm= 33
P 23 213
Comment: The focol mechanism is
poorly controlled ond
corresponds to reverse
faulting. The preferred foult
plane is NP2.
RADIATED ENERGY
No. of sto: 11 Focol mech. M
Energy 0.3±0.0*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 17 No. of sto: 12
Principal Axes:
Scole 10**18 Nm
T Vol= 1.40 Plg=70 Azm= 40
N 0.00 4 299
P -1.40 20 208
Best Double Couple:Mo=1.4*10**18
NP1:Strike=291 Dip=25 Slip= 81
NP2: 121 65 94
CENTROID, MOMENT TENSOR (HRV)
Dato Used: GDSN
L.P.B.: 17S, 44C M.W.: 11S, 17C
Centroid Locotion:
Origin Time 05:21: 5.1 0.2
Lat 4.43S 0.02 Lon 136.48E 0.02
Dep 16.9 BDY Holf-duration 5.1
Principol Axes:
Scole 10**18 Nm
T Vol= 3.74 Plg=58 Azm= 40
N 0.13 10 294
P -3.87 30 199
Best Double Couple:Mo=3.8*10**18
NP1:Strike=262 Dip=17 Slip= 56
NP2: 117 76 100

04 07 18 32.80 33.329S 178.805W 33km
5.3mb (11 obs.)
SOUTH OF KERMADEC ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Dato Used: GDSN
L.P.B.: 9S, 16C
Centraid Location:
Origin Time 07:18:23.3 1.3
Lot 33.15S FIX;Lon 177.64W FIX
Dep 15.0 FIX Half-durotion 2.2
Principol Axes:
Scole 10**17 Nm
T Vol= 2.16 Plg=46 Azm=219
N 0.02 34 352
P -2.18 25 100
Best Double Couple:Mo=2.2*10**17
NP1:Strike=237 Dip=37 Slip= 159
NP2: 344 78 55

04 13 14 58.25 55.543N 156.835W 11km
6.5mb (83 obs.) 6.9Msz (21 obs.)
SOUTH OF ALASKA
FAULT PLANE SOLUTION: P-Woves
NP1:Strike= 65 Dip=81 Slip= 90
NP2: 245 9 90
Principal Axes:
T Plg=54 Azm=335
P 36 155
Comment: The focal mechanism is
poorly controlled ond
corresponds to reverse
foulting. The preferred foult
plane is NP2.
RADIATED ENERGY
No. of sto: 16 Focal mech. F
Energy 0.4±0.1*10**15 Nm
MOMENT TENSOR SOLUTION
Dep 30 No. of sto: 22
Principal Axes:
Scole 10**19 Nm
T Vol= 3.68 Plg=55 Azm= 2
N -0.06 14 251
P -3.62 31 153
Best Double Couple:Mo=3.7*10**19
NP1:Strike=205 Dip=18 Slip= 42
NP2: 74 78 104
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 38C M.W.: 11S, 25C
Centroid Location:
Origin Time 13:15: 8.9 0.2
Lot 55.66N 0.02 Lon 157.23W 0.05
Dep 25.7 BDY Half-durotion 10.2
Principal Axes:
Scole 10**19 Nm
T Vol= 4.51 Plg=53 Azm=331
N 0.13 1 62
P -4.64 37 152
Best Double Couple:Mo=4.6*10**19
NP1:Strike=247 Dip= 8 Slip= 95
NP2: 62 82 89

05 05 51 55.20 4.260N 127.408E 42km
5.6mb (39 obs.) 5.0Msz (17 obs.)
TALAUD ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 26C
Centroid Locotion:
Origin Time 05:51:57.2 0.2
Lat 4.40N 0.05 Lon 127.75E 0.05
Dep 31.1 3.3 Half-durotion 3.0
Principal Axes:
Scole 10**17 Nm
T Vol= 3.60 Plg=82 Azm=335
N 1.88 4 214
P -5.48 7 123
Best Double Couple:Mo=4.5*10**17
NP1:Strike=208 Dip=38 Slip= 83
NP2: 37 52 95

05 06 28 11.80 14.218N 93.755W 35km
5.6mb (64 obs.) 4.9Msz (6 obs.)
NEAR COAST OF CHIAPAS, MEXICO
CENTROID, MOMENT TENSOR (HRV)
Dato Used: GDSN
L.P.B.: 15S, 25C
Centroid Location:
Origin Time 06:28:13.2 0.8
Lot 14.18N FIX;Lon 93.81W FIX
Dep 15.0 FIX Half-durotion 2.8
Principal Axes:
Scole 10**17 Nm
T Vol= 1.76 Plg= 8 Azm= 13
N 1.33 30 278
P -3.08 59 116
Best Double Couple:Mo=2.4*10**17
NP1:Strike=133 Dip=46 Slip= -45
NP2: 258 59 -126

05 06 52 30.10 40.200N 25.086E 10km
4.9mb (32 obs.) 5.0Msz (3 obs.)
AEGEAN SEA
CENTROID, MOMENT TENSOR (HRV)
Dato Used: GDSN
L.P.B.: 9S, 21C
Centraid Location:
Origin Time 06:52:37.2 1.0
Lot 39.12N 0.10 Lon 25.66E 0.14
Dep 15.0 FIX Half-duration 1.7
Principal Axes:
Scole 10**17 Nm
T Vol= 1.69 Plg=26 Azm= 22
N -0.29 32 130
P -1.39 46 261
Best Double Couple:Mo=1.5*10**17
NP1:Strike= 64 Dip=34 Slip=-159
NP2: 317 79 -58

05 10 03 26.21 18.153S 178.249W 506km
5.0mb (34 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Dato Used: GDSN
L.P.B.: 8S, 16C
Centroid Locotion:
Origin Time 10:03:37.6 1.1
Lat 18.07S FIX;Lon 178.31W FIX
Dep 554.0 7.9 Holf-durotion 1.5
Principol Axes:
Scole 10**16 Nm
T Vol= 7.87 Plg=35 Azm=135

N 0.36 19 240
P -8.23 49 353
Best Double Couple:Mo=8.1*10**16
NP1:Strike=172 Dip=21 Slip=-159
NP2: 62 83 -71

05 11 25 55.80 29.459N 128.560E 19km
5.2mb (22 obs.) 5.3Msz (3 obs.)
EAST CHINA SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 24C
Centroid Location:
Origin Time 11:25:58.1 0.3
Lat 29.29N 0.04 Lon 127.93E 0.07
Dep 15.0 FIX Half-duration 2.5
Principal Axes:
Scale 10**17 Nm
T Val= 2.44 Plg= 9 Azm=160
N -0.16 61 54
P -2.29 28 255
Best Double Couple:Mo=2.4*10**17
NP1:Strike=294 Dip=64 Slip= -14
NP2: 30 77 -153

05 19 49 03.81 52.810S 140.316E 10km
5.3mb (14 obs.) 5.4Msz (19 obs.)
WEST OF MACQUARIE ISLAND
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 26C
Centroid Location:
Origin Time 19:49: 8.0 0.9
Lat 53.21S 0.08 Lon 140.29E 0.08
Dep 15.0 FIX Half-duration 2.8
Principal Axes:
Scale 10**17 Nm
T Val= 3.96 Plg= 0 Azm=222
N 0.53 90 180
P -4.50 0 132
Best Double Couple:Mo=4.2*10**17
NP1:Strike=267 Dip=90 Slip= 180
NP2: 357 90 0

05 20 49 34.40 11.732S 34.450E 10km
4.9mb (18 obs.)
MALAWI
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 6S, 12C
Centroid Location:
Origin Time 20:49:41.2 2.5
Lat 11.80S FIX;Lon 34.46E FIX
Dep 19.816.3 Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Val= 18.22 Plg=46 Azm= 33
N -5.98 43 197
P -12.24 8 295
Best Double Couple:Mo=1.5*10**17
NP1:Strike= 63 Dip=52 Slip= 149
NP2: 173 66 42

06 09 10 39.23 36.087S 103.171W 10km
5.0mb (8 obs.) 5.4Msz (4 obs.)
SOUTHERN PACIFIC OCEAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 34C
Centroid Location:
Origin Time 09:10:48.6 0.2
Lat 36.12S 0.02 Lon 102.96W 0.02
Dep 15.0 FIX Half-duration 3.9
Principal Axes:
Scale 10**18 Nm
T Val= 1.31 Plg= 0 Azm=233
N -0.28 90 180
P -1.03 0 143
Best Double Couple:Mo=1.2*10**18
NP1:Strike=278 Dip=90 Slip= 180
NP2: 8 90 0

06 12 57 32.67 1.322S 67.600E 10km
4.9mb (21 obs.) 5.1Msz (12 obs.)
CARLSBERG RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 25C
Centroid Location:
Origin Time 12:57:38.1 0.5
Lat 1.09S 0.05 Lon 67.44E 0.03
Dep 15.0 FIX Half-duration 2.6
Principal Axes:
Scale 10**17 Nm
T Val= 3.33 Plg= 0 Azm=262
N -0.82 90 180
P -2.50 0 172
Best Double Couple:Mo=2.9*10**17
NP1:Strike=307 Dip=90 Slip= 180
NP2: 37 90 0

06 14 45 51.00 0.976N 126.106E 37km
5.8mb (47 obs.) 5.5Msz (19 obs.)
MOLUCCA PASSAGE
RADIATED ENERGY
No. of sta: 5 Focal mech. C
Energy 0.9±0.3*10**13 Nm
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 28C
Centroid Location:
Origin Time 14:45:56.0 0.6
Lat 0.80N 0.06 Lon 126.20E 0.04
Dep 36.6 2.5 Half-duration 4.1
Principal Axes:
Scale 10**18 Nm
T Val= 1.17 Plg=62 Azm=345
N -0.09 27 187
P -1.08 9 92
Best Double Couple:Mo=1.1*10**18
NP1:Strike=154 Dip=43 Slip= 49
NP2: 24 59 121

07 10 25 45.76 23.168S 175.861W 33km
5.1mb (23 obs.) 4.6Msz (1 obs.)
TONGA ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 16C
Centroid Location:
Origin Time 10:25:55.0 0.9
Lat 23.11S 0.10 Lon 176.11W 0.10
Dep 69.9 6.9 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 8.76 Plg=13 Azm= 14
N -0.53 38 273
P -8.22 49 119
Best Double Couple:Mo=8.5*10**16
NP1:Strike=143 Dip=46 Slip= -31
NP2: 255 68 -132

07 13 32 00.09 30.197S 177.960W 33km
5.7mb (41 obs.) 5.4Msz (17 obs.)
KERMADEC ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 26C
Centroid Location:
Origin Time 13:32:12.4 0.5
Lat 30.12S 0.06 Lon 177.92W 0.03
Dep 51.4 2.2 Half-duration 3.2
Principal Axes:
Scale 10**17 Nm
T Val= 6.85 Plg=71 Azm=216
N 3.30 16 7
P -10.15 8 100
Best Double Couple:Mo=8.5*10**17
NP1:Strike=208 Dip=39 Slip= 117
NP2: 355 55 70

08 06 15 05.63 52.766S 9.851E 10km
5.3mb (16 obs.) 5.6Msz (6 obs.)
SOUTHWEST OF AFRICA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 25C
Centroid Location:
Origin Time 06:15:15.9 0.3
Lat 52.75S 0.03 Lon 11.28E 0.06
Dep 15.0 FIX Half-duration 3.0
Principal Axes:
Scale 10**17 Nm
T Val= 6.08 Plg= 0 Azm=173
N -2.49 90 180
P -3.60 0 83
Best Double Couple:Mo=4.8*10**17
NP1:Strike=218 Dip=90 Slip= 180
NP2: 308 90 0

08 08 25 39.80 30.178S 177.844W 47km
5.3mb (18 obs.) 5.2Msz (1 obs.)
KERMADEC ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 19C
Centroid Location:
Origin Time 08:25:54.5 1.3
Lat 29.67S 0.14 Lon 178.14W 0.07
Dep 64.6 5.8 Half-duration 1.8
Principal Axes:
Scale 10**17 Nm
T Val= 1.11 Plg=70 Azm=307
N 0.56 8 194
P -1.67 18 102
Best Double Couple:Mo=1.4*10**17
NP1:Strike=179 Dip=28 Slip= 73
NP2: 18 64 99

09 01 40 35.77 2.435N 79.761W 7km
6.0mb (72 obs.) 5.0Msz (10 obs.)
SOUTH OF PANAMA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=215 Dip=60 Slip= -65
NP2: 352 38 -126
Principal Axes:
T Plg=12 Azm=287
P 65 171
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.
RADIATED ENERGY
No. of sta: 4 Focal mech. F
Energy 0.7±0.3*10**12 Nm
MOMENT TENSOR SOLUTION
Dep 37 No. of sta: 5
Principal Axes:
Scale 10**17 Nm
T Val= 6.82 Plg= 9 Azm= 81
N 0.20 47 341
P -7.03 41 179
Best Double Couple:Mo=6.9*10**17
NP1:Strike=211 Dip=55 Slip= -26
NP2: 316 69 -142
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 24C
Centroid Location:
Origin Time 01:40:42.4 0.7
Lat 1.92N 0.07 Lon 79.53W 0.04
Dep 15.0 FIX Half-duration 2.6
Principal Axes:
Scale 10**17 Nm
T Val= 3.28 Plg=20 Azm=295
N 1.77 15 31
P -5.05 65 157
Best Double Couple:Mo=4.2*10**17
NP1:Strike= 1 Dip=29 Slip=-123
NP2: 218 66 -73

09 10 38 06.95 51.310N 175.805W 33km
5.3mb (59 obs.) 5.2Msz (27 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 23C
Centroid Location:
Origin Time 10:38:10.7 0.7
Lat 51.69N 0.06 Lon 175.73W 0.09
Dep 30.1 3.6 Half-duration 2.3
Principal Axes:
Scale 10**17 Nm
T Val= 1.99 Plg=69 Azm=350
N 0.29 4 249
P -2.29 21 157
Best Double Couple:Mo=2.1*10**17
NP1:Strike=239 Dip=25 Slip= 80
NP2: 70 66 95

12 08 55 57.92 9.017S 110.503E 33km
5.1mb (21 obs.) 5.3Msz (14 obs.)
SOUTH OF JAVA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 25C
Centroid Location:
Origin Time 08:56:13.0 0.4
Lat 9.01S FIX;Lon 110.55E FIX
Dep 40.9 4.3 Half-duration 2.3
Principal Axes:
Scale 10**17 Nm
T Val= 2.10 Plg=76 Azm=348
N 0.91 9 117
P -3.01 11 208
Best Double Couple:Mo=2.6*10**17
NP1:Strike=310 Dip=35 Slip= 106

NP2: 111 57 79

12 15 29 15.48 9.011S 110.521E 48km
5.1mb (19 obs.) 5.1Msz (12 abs.)
SOUTH OF JAVA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 22C
Centraid Locatian:
Origin Time 15:29:27.5 1.2
Lat 9.18S 0.08 Lon 111.18E 0.05
Dep 51.3 3.7 Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.54 Plg=83 Azm=272
N 0.35 6 126
P -1.89 4 36
Best Double Cauple:Mo=1.7*10**17
NP1:Strike=119 Dip=41 Slip= 81
NP2: 311 49 98

13 03 31 35.93 19.009S 174.921W 122km
5.6mb (46 abs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 21C
Centraid Location:
Origin Time 03:31:49.0 1.1
Lat 18.96S 0.11 Lan 175.38W 0.10
Dep 151.1 2.3 Half-duratian 2.6
Principal Axes:
Scale 10**17 Nm
T Val= 5.28 Plg=12 Azm= 96
N 0.84 18 2
P -6.12 68 218
Best Double Couple:Mo=5.7*10**17
NP1:Strike=208 Dip=37 Slip= -58
NP2: 351 59 -111

13 11 40 46.04 35.577S 17.063W 12km
5.6mb (47 abs.) 6.2Msz (26 obs.)
SOUTH ATLANTIC RIDGE
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=325 Dip=77 Slip= 174
NP2: 56 84 13
Principal Axes:
T Plg=13 Azm=281
P 5 190
Comment: The facal mechanism is moderotely well cantrolled and corresponds to strike-slip foulting with a small reverse component. The preferred foult plane is not determined.
MOMENT TENSOR SOLUTION
Dep 15 Na. of sta: 6
Principal Axes:
Scale 10**18 Nm
T Val= 4.68 Plg= 3 Azm=121
N 0.04 76 223
P -4.72 14 31
Best Double Cauple:Mo=4.7*10**18
NP1:Strike=167 Dip=78 Slip=-172
NP2: 75 82 -12
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 41C M.W.: 10S, 26C
Centraid Location:
Origin Time 11:40:59.4 0.2
Lat 35.28S 0.02 Lan 16.62W 0.02
Dep 15.0 FIX Half-duratian 6.0
Principal Axes:
Scale 10**18 Nm
T Val= 4.73 Plg=15 Azm=122
N -0.12 75 316
P -4.61 3 213
Best Double Cauple:Mo=4.7*10**18
NP1:Strike=259 Dip=77 Slip= 8
NP2: 167 82 167

14 04 42 39.85 26.141S 70.746W 33km
5.3mb (21 abs.) 5.2Msz (4 abs.)
NEAR COAST OF NORTHERN CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 18C
Centraid Location:
Origin Time 04:42:40.9 0.5
Lat 26.90S 0.10 Lan 71.44W 0.07
Dep 15.0 FIX Half-duratian 2.1
Principal Axes:
Scale 10**17 Nm
T Val= 2.31 Plg=35 Azm=290
N -0.16 12 191
P -2.16 52 85
Best Double Cauple:Mo=2.2*10**17
NP1:Strike= 65 Dip=15 Slip= -35
NP2: 190 81 -102

14 19 10 25.70 1.644N 127.322E 103km
6.0mb (66 abs.)
HALMAHERA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=223 Dip=67 Slip= 127
NP2: 340 43 35
Principal Axes:
T Plg=53 Azm=178
P 14 287
Comment: The facal mechanism is poarly contralled and corresponds to reverse faulting with a large strike-slip campanent. The preferred fault plane is nat determined.
RADIATED ENERGY
No. af sta: 6 Facal mech. F
Energy 0.2±0.1*10**15 Nm
MOMENT TENSOR SOLUTION
Dep 131 No. af sta: 11
Principal Axes:
Scale 10**18 Nm
T Val= 1.39 Plg=61 Azm=142
N -0.02 16 19
P -1.37 23 282
Best Double Couple:Mo=1.4*10**18
NP1:Strike=343 Dip=27 Slip= 51
NP2: 206 70 108
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 29C
Centraid Location:
Origin Time 19:10:32.6 0.3
Lat 1.29N 0.03 Lon 126.85E 0.03
Dep 137.3 1.4 Half-duration 4.2
Principal Axes:
Scale 10**18 Nm
T Val= 1.95 Plg=54 Azm=156
N -0.14 22 31
P -1.81 26 290
Best Double Couple:Mo=1.9*10**18
NP1:Strike=339 Dip=28 Slip= 34
NP2: 218 75 113

15 09 48 09.18 51.574N 173.367W 33km
5.4mb (68 abs.) 5.1Msz (20 abs.)
ANDREANOF ISLANDS, ALEUTIAN IS.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 26C
Centroid Location:
Origin Time 09:48:13.3 0.4
Lat 52.10N 0.04 Lon 173.57W 0.06
Dep 15.0 FIX Half-duration 2.4
Principal Axes:
Scale 10**17 Nm
T Val= 3.47 Plg=62 Azm=323
N 0.48 3 59
P -3.96 28 151
Best Double Couple:Mo=3.7*10**17
NP1:Strike=249 Dip=17 Slip= 100
NP2: 58 73 87

15 15 36 37.04 9.988N 126.520E 33km
5.1mb (13 abs.) 4.4Msz (8 abs.)
MINDANAO, PHILIPPINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 18C
Centraid Location:
Origin Time 15:36:43.2 1.3
Lat 10.13N 0.15 Lan 127.44E 0.15
Dep 25.310.4 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 5.74 Plg=59 Azm=186
N -0.21 30 21
P -5.54 7 287
Best Double Couple:Mo=5.6*10**16
NP1:Strike=348 Dip=46 Slip= 46
NP2: 222 59 126

15 16 40 25.00 3.062S 134.686E 33km
5.5mb (25 abs.) 5.0Msz (11 obs.)
WEST IRIAN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 20C
Centraid Location:
Origin Time 16:40:28.8 1.2
Lat 3.02S 0.14 Lan 134.33E 0.08
Dep 21.1 FIX Half-duratian 2.1
Principal Axes:
Scale 10**17 Nm
T Val= 1.63 Plg= 1 Azm=110
N -0.06 67 203
P -1.57 23 19
Best Double Cauple:Mo=1.6*10**17
NP1:Strike=157 Dip=73 Slip=-165
NP2: 62 75 -17

15 18 34 12.98 53.232N 159.719E 51km
5.6mb (69 obs.)
NEAR EAST COAST OF KAMCHATKA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 25C
Centraid Location:
Origin Time 18:34:18.5 0.6
Lat 53.05N 0.04 Lan 160.18E 0.08
Dep 48.1 3.5 Half-duratian 2.1
Principal Axes:
Scale 10**17 Nm
T Val= 1.74 Plg=73 Azm=353
N 0.25 13 215
P -1.99 11 122
Best Double Cauple:Ma=1.9*10**17
NP1:Strike=197 Dip=36 Slip= 68
NP2: 43 57 105

16 02 05 08.91 40.337N 51.534E 55km
6.4mb (85 obs.) 6.5Msz (27 obs.)
CASPIAN SEA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=305 Dip=78 Slip= -90
NP2: 125 12 -90
Principal Axes:
T Plg=33 Azm= 35
P 57 215
Comment: The focal mechanism is paorly controlled and corresponds ta narmal faulting. The preferred fault plane is NP1.
RADIATED ENERGY
No. of sta: 8 Facal mech. F
Energy 0.2±0.1*10**15 Nm
MOMENT TENSOR SOLUTION
Dep 31 Na. af sta: 14
Principal Axes:
Scale 10**18 Nm
T Val= 5.58 Plg=26 Azm=351
N 0.11 32 99
P -5.69 46 231
Best Double Cauple:Ma=5.6*10**18
NP1:Strike= 34 Dip=35 Slip=-159
NP2: 287 78 -57
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 25C M.W.: 12S, 21C
Centraid Lacatian:
Origin Time 02:05:15.6 0.3
Lat 40.10N 0.04 Lan 52.17E 0.04
Dep 34.5 1.5 Half-duratian 8.0
Principal Axes:
Scale 10**18 Nm
T Val= 4.32 Plg=16 Azm= 43
N 0.32 23 139
P -4.64 62 281
Best Double Cauple:Ma=4.5*10**18
NP1:Strike=104 Dip=36 Slip=-132
NP2: 331 64 -65

16 04 03 03.16 32.561S 14.251W 10km
5.7mb (53 obs.) 5.8Msz (5 abs.)
SOUTH ATLANTIC RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 25C
Centroid Location:
Origin Time 04:03:15.9 0.7
Lat 32.35S 0.09 Lon 13.44W 0.07
Dep 15.0 FIX Half-duration 3.1
Principal Axes:
Scale 10**17 Nm
T Val= 7.46 Plg= 1 Azm=296
N 0.09 72 29
P -7.55 18 206
Best Double Couple:Mo=7.5*10**17

NP1:Strike=342 Dip=77 Slip=-168
NP2: 249 78 -13

16 23 20 53.22 16.497N 93.671W 108km
6.0mb (73 obs.)
CHIAPAS, MEXICO
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=170 Dip=83 Slip= 90
NP2: 350 7 90
Principal Axes:
T Plg=52 Azm= 80
P 38 260
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
RADIATED ENERGY
No. of sta: 4 Focal mech. M
Energy 0.2±0.1*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 107 No. of sta: 11
Principal Axes:
Scale 10**18 Nm
T Val= 1.84 Plg=47 Azm= 71
N -0.04 6 167
P -1.80 43 262
Best Double Couple:Mo=1.8*10**18
NP1:Strike= 59 Dip= 6 Slip= 162
NP2: 167 88 84
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 32C
Centroid Location:
Origin Time 23:20:57.1 0.4
Lat 16.05N 0.04 Lon 93.70W 0.03
Dep 112.4 1.9 Half-duration 4.2
Principal Axes:
Scale 10**18 Nm
T Val= 2.02 Plg=30 Azm= 51
N -0.66 44 174
P -1.36 32 300
Best Double Couple:Mo=1.7*10**18
NP1:Strike= 86 Dip=44 Slip=-178
NP2: 355 89 -46

17 00 53 39.77 40.203N 51.749E 51km
6.1mb (99 obs.) 6.1Msz (32 obs.)
CASPIAN SEA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=290 Dip=67 Slip= -90
NP2: 110 23 -90
Principal Axes:
T Plg=22 Azm= 20
P 68 200
Comment: The focal mechanism is poorly controlled and corresponds to normal faulting. The preferred fault plane is NP1.
RADIATED ENERGY
No. of sta: 10 Focal mech. C
Energy 0.7±0.2*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 42 No. of sta: 15
Principal Axes:
Scale 10**18 Nm
T Val= 2.16 Plg= 7 Azm= 9
N -0.02 26 276
P -2.14 63 112
Best Double Couple:Mo=2.1*10**18
NP1:Strike=125 Dip=45 Slip= -52
NP2: 257 57 -121
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 43C M.W.: 12S, 24C
Centroid Location:
Origin Time 00:53:43.0 0.2
Lat 40.10N 0.02 Lon 51.77E 0.02
Dep 38.2 1.2 Half-duration 4.8
Principal Axes:
Scale 10**18 Nm
T Val= 2.21 Plg=11 Azm=220
N -0.01 14 313
P -2.20 72 93
Best Double Couple:Mo=2.2*10**18
NP1:Strike=292 Dip=36 Slip=-115
NP2: 142 58 -73

17 05 48 01.89 61.435S 153.988E 10km
5.5mb (10 obs.) 5.9Msz (1 obs.)
BALLENY ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 41C
Centroid Location:
Origin Time 05:48:15.6 0.3
Lat 61.02S 0.03 Lon 153.79E 0.05
Dep 15.0 FIX Half-duration 3.2
Principal Axes:
Scale 10**17 Nm
T Val= 7.13 Plg= 8 Azm= 19
N 0.21 81 184
P -7.34 2 289
Best Double Couple:Mo=7.2*10**17
NP1:Strike= 64 Dip=82 Slip= 176
NP2: 154 86 8

17 12 01 31.80 79.081N 2.626E 10km
4.8mb (26 obs.)
GREENLAND SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 23C
Centroid Locotion:
Origin Time 12:01:39.1 0.9
Lat 79.03N 0.13 Lon 2.20E 0.30
Dep 15.0 FIX Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 4.40 Plg= 0 Azm=124
N -0.61 0 34
P -3.79 90 180
Best Double Couple:Mo=4.1*10**16
NP1:Strike=214 Dip=45 Slip= -90
NP2: 34 45 -90

18 21 42 47.83 37.154N 136.963E 262km
5.0mb (78 obs.)
NEAR WEST COAST OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 18C
Centroid Location:
Origin Time 21:42:51.4 1.4
Lat 36.62N 0.11 Lon 136.65E 0.17
Dep 240.2 7.7 Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Val= 7.67 Plg=61 Azm= 53
N 4.45 11 165
P -12.12 26 260
Best Double Couple:Mo=9.9*10**16
NP1:Strike= 16 Dip=21 Slip= 123
NP2: 161 72 78

19 04 08 57.13 4.164S 128.986E 146km
5.0mb (16 obs.)
BANDA SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 19C
Centroid Location:
Origin Time 04:08:59.2 1.2
Lat 4.26S 0.08 Lon 128.83E 0.15
Dep 127.2 6.8 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 7.08 Plg=44 Azm=175
N 0.48 42 27
P -7.56 17 282
Best Double Couple:Mo=7.3*10**16
NP1:Strike=329 Dip=46 Slip= 23
NP2: 222 74 134

19 16 47 34.73 5.527S 153.620E 54km
5.4mb (22 obs.)
NEW IRELAND REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 36C
Centroid Location:
Origin Time 16:47:41.3 0.2
Lat 5.67S 0.03 Lon 153.19E 0.03
Dep 27.9 2.0 Half-duration 3.0
Principal Axes:
Scale 10**17 Nm
T Val= 5.97 Plg=70 Azm=355
N -0.14 13 126
P -5.83 15 219
Best Double Couple:Mo=5.9*10**17
NP1:Strike=327 Dip=33 Slip= 115
NP2: 118 61 75

20 13 19 31.98 51.184N 178.821E 33km
5.5mb (70 obs.) 5.8Msz (34 obs.)
RAT ISLANDS, ALEUTIAN ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 44C M.W.: 12S, 21C
Centroid Location:
Origin Time 13:19:34.3 0.1
Lat 51.54N 0.01 Lon 179.05E 0.03
Dep 15.0 FIX Half-duration 4.8
Principal Axes:
Scale 10**18 Nm
T Val= 2.44 Plg=56 Azm=354
N 0.19 3 259
P -2.64 34 166
Best Dauble Couple:Mo=2.5*10**18
NP1:Strike=242 Dip=12 Slip= 73
NP2: 79 79 93

21 16 46 34.97 10.164S 161.061E 120km
5.2mb (31 obs.)
SOLOMON ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Doto Used: GDSN
L.P.B.: 12S, 23C
Centraid Location:
Origin Time 16:46:40.4 1.1
Lat 9.80S 0.07 Lon 160.59E 0.10
Dep 103.4 3.2 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 7.12 Plg=10 Azm=308
N -0.26 13 216
P -6.86 74 75
Best Double Couple:Mo=7.0*10**16
NP1:Strike= 54 Dip=37 Slip= -68
NP2: 207 56 -106

21 17 41 18.00 40.327N 124.705W 16km
4.8mb (18 obs.) 4.7Msz (1 obs.)
NEAR COAST OF NORTHERN CALIF.
CENTROID, MOMENT TENSOR (HRV)
Dato Used: GDSN
L.P.B.: 11S, 22C
Centroid Location:
Origin Time 17:41:29.9 1.2
Lat 40.99N 0.11 Lon 125.06W 0.10
Dep 16.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 6.44 Plg= 0 Azm=237
N -0.54 90 180
P -5.90 0 147
Best Double Couple:Mo=6.2*10**16
NP1:Strike=282 Dip=90 Slip= 180
NP2: 12 90 0

22 02 25 50.88 31.583N 102.433E 15km
6.1mb (83 obs.) 6.1Msz (14 obs.)
SICHUAN PROVINCE, CHINA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=227 Dip=70 Slip= 152
NP2: 327 64 22
Principal Axes:
T Plg=34 Azm=186
P 4 278
Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting with a moderate reverse component. The preferred fault plane is not determined.
RADIATED ENERGY
No. of sta: 5 Focal mech. F
Energy 0.8±0.3*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 14 No. of sta: 12
Principal Axes:
Scale 10**18 Nm
T Val= 1.73 Plg=22 Azm=186
N -0.18 67 19
P -1.55 5 278
Best Double Couple:Mo=1.6*10**18
NP1:Strike=325 Dip=71 Slip= 13
NP2: 230 78 161
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 11S, 27C
Centroid Locatian:
Origin Time 02:25:56.8 0.2
Lat 30.87N 0.05 Lon 102.83E 0.04
Dep 15.0 FIX Half-duration 3.8
Principal Axes:
Scale 10**18 Nm

T Val= 1.54 Plg=60 Azm=125
N 0.41 9 20
P -1.96 29 285
Best Double Couple:Mo=1.8*10**18
NP1:Strike=352 Dip=18 Slip= 61
NP2: 202 74 99

23 15 31 16.09 39.493N 29.848W 13km
5.1mb (54 obs.) 4.9Msz (3 obs.)
AZORES ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 22C
Centroid Location:
Origin Time 15:31:22.2 1.2
Lat 39.27N 0.16 Lon 29.24W 0.11
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 4.80 Plg= 0 Azm=143
N -0.81 0 53
P -3.99 90 180
Best Double Couple:Mo=4.4*10**16
NP1:Strike=233 Dip=45 Slip= -90
NP2: 53 45 -90

23 17 51 38.23 22.621N 121.971E 31km
5.5mb (59 obs.) 5.1Msz (2 obs.)
TAIWAN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 20C
Centroid Location:
Origin Time 17:51:37.4 0.5
Lat 22.20N 0.05 Lon 121.79E 0.08
Dep 15.9 6.0 Half-duration 2.1
Principal Axes:
Scale 10**17 Nm
T Val= 2.05 Plg=33 Azm= 25
N -0.19 51 170
P -1.86 18 283
Best Double Couple:Mo=2.0*10**17
NP1:Strike= 60 Dip=53 Slip= 167
NP2: 157 80 38

24 10 53 54.28 9.977N 59.851W 47km
5.1mb (15 obs.) 4.5Msz (1 obs.)
NORTH ATLANTIC OCEAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 24C
Centroid Location:
Origin Time 10:53:53.9 0.7
Lat 9.56N 0.07 Lon 59.16W 0.07
Dep 41.7 6.3 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 7.43 Plg=21 Azm=331
N 0.59 69 143
P -8.02 3 240
Best Double Couple:Mo=7.7*10**16
NP1:Strike= 14 Dip=74 Slip= 167
NP2: 108 78 17

24 10 55 20.91 20.697N 94.968E 134km
5.3mb (66 obs.)
BURMA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 22C
Centroid Location:
Origin Time 10:55:25.9 0.6
Lat 20.22N 0.07 Lon 94.75E 0.08
Dep 144.0 2.3 Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Val= 11.16 Plg=45 Azm= 48
N 1.62 45 226
P -12.78 1 317
Best Double Couple:Mo=1.2*10**17
NP1:Strike= 83 Dip=59 Slip= 145
NP2: 192 61 36

24 17 18 42.97 33.298N 134.933E 33km
5.0mb (18 obs.) 4.5Msz (2 obs.)
SHIKOKU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 14C
Centroid Location:
Origin Time 17:18:43.6 1.1
Lat 33.39N 0.10 Lon 134.91E 0.26
Dep 37.212.4 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 5.87 Plg=30 Azm=251
N -0.06 60 77
P -5.80 3 343
Best Double Couple:Mo=5.8*10**16
NP1:Strike= 31 Dip=67 Slip= 20
NP2: 293 71 156

25 14 17 47.08 20.355S 169.277E 34km
6.1mb (46 obs.) 6.3Msz (24 obs.)
VANUATU ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=156 Dip=50 Slip= 90
NP2: 336 40 90
Principal Axes:
T Plg=85 Azm= 66
P 5 246
Comment: The focal mechanism is moderately well controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
RADIATED ENERGY
No. of sta: 10 Focal mech. F
Energy 0.5±0.1*10**14 Nm
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 45C M.W.: 12S, 28C
Centroid Location:
Origin Time 14:17:58.8 0.2
Lat 20.52S 0.02 Lon 169.00E 0.02
Dep 54.4 0.8 Half-duration 6.5
Principal Axes:
Scale 10**18 Nm
T Val= 5.64 Plg=79 Azm= 77
N 0.24 2 336
P -5.88 11 246
Best Double Couple:Mo=5.8*10**18
NP1:Strike=333 Dip=34 Slip= 86
NP2: 158 56 93

26 21 24 56.83 50.057S 114.151E 10km
5.2mb (5 obs.) 5.2Msz (6 obs.)
SOUTH OF AUSTRALIA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 25C
Centroid Location:
Origin Time 21:25: 5.5 0.6
Lat 49.84S 0.05 Lon 114.10E 0.11
Dep 15.0 FIX Half-duration 2.1
Principal Axes:
Scale 10**17 Nm
T Val= 1.33 Plg= 0 Azm=161
N -0.33 90 180
P -1.00 0 71
Best Double Couple:Mo=1.2*10**17
NP1:Strike=206 Dip=90 Slip= 180
NP2: 296 90 0

28 21 52 17.08 20.329N 98.822E 11km
5.4mb (63 obs.) 5.7Msz (11 obs.)
BURMA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 30C
Centroid Location:
Origin Time 21:52:21.3 0.2
Lat 20.32N 0.04 Lon 99.06E 0.04
Dep 15.0 FIX Half-duration 3.1
Principal Axes:
Scale 10**17 Nm
T Val= 6.69 Plg=12 Azm=300
N -1.05 72 170
P -5.64 14 33
Best Double Couple:Mo=6.2*10**17
NP1:Strike= 76 Dip=72 Slip= -1
NP2: 167 89 -162

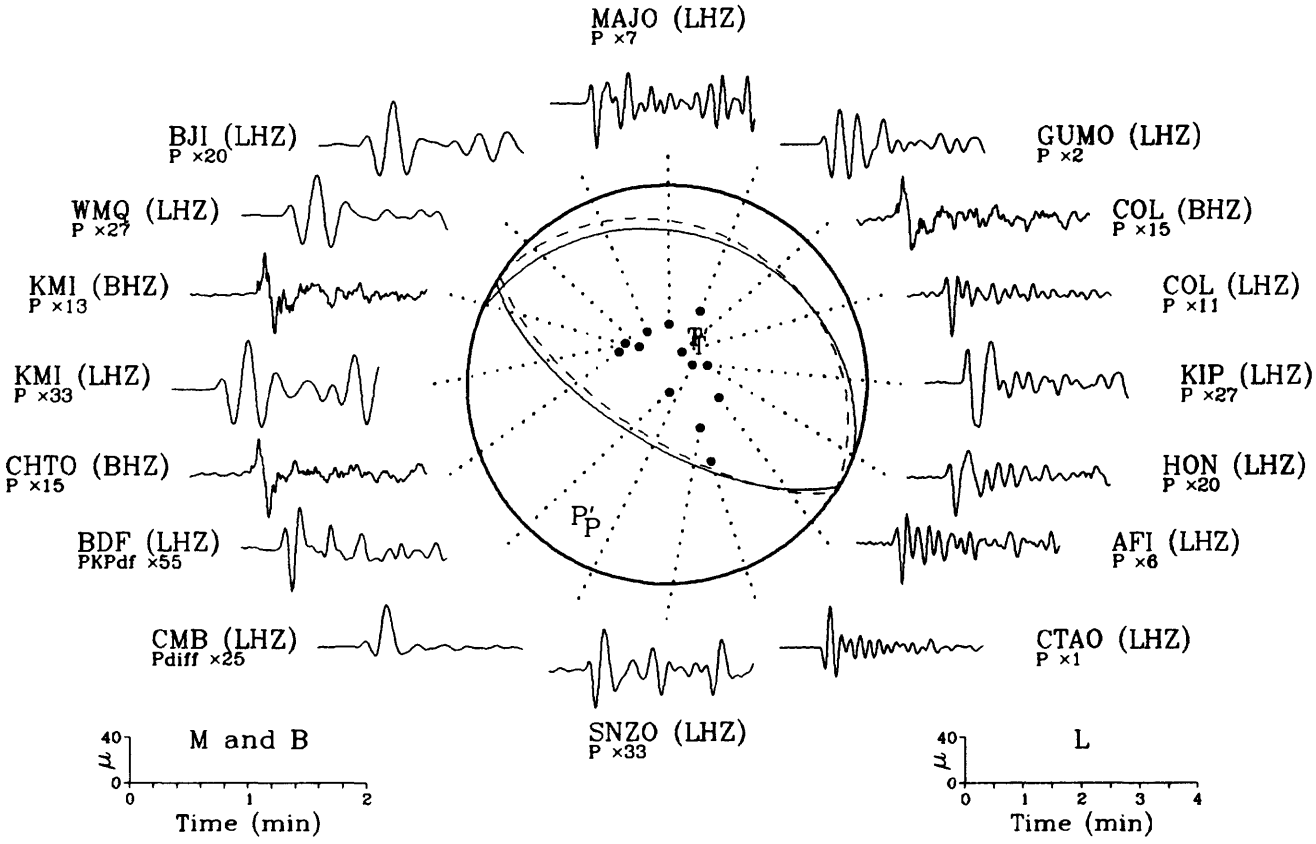
29 19 24 44.05 15.860S 98.038E 10km
5.4mb (18 obs.) 4.8Msz (10 obs.)
SOUTH INDIAN OCEAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 21C
Centroid Location:
Origin Time 19:24:52.5 0.8
Lat 15.48S 0.08 Lon 97.69E 0.07
Dep 15.0 FIX Half-duration 1.8
Principal Axes:
Scale 10**16 Nm
T Val= 9.56 Plg=45 Azm=334
N 3.93 28 212
P -13.49 32 103
Best Double Couple:Mo=1.2*10**17
NP1:Strike=139 Dip=29 Slip= 15
NP2: 36 83 118

30 04 16 45.55 6.173S 149.815E 51km
5.1mb (6 obs.) 4.9Msz (6 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 28C
Centroid Location:
Origin Time 04:16:48.5 0.4
Lat 6.19S 0.05 Lon 150.12E 0.06
Dep 15.0 FIX Half-duration 2.3
Principal Axes:
Scale 10**17 Nm
T Val= 3.27 Plg=57 Azm=353
N 0.47 1 261
P -3.74 33 171
Best Double Couple:Mo=3.5*10**17
NP1:Strike=258 Dip=12 Slip= 87
NP2: 82 78 91

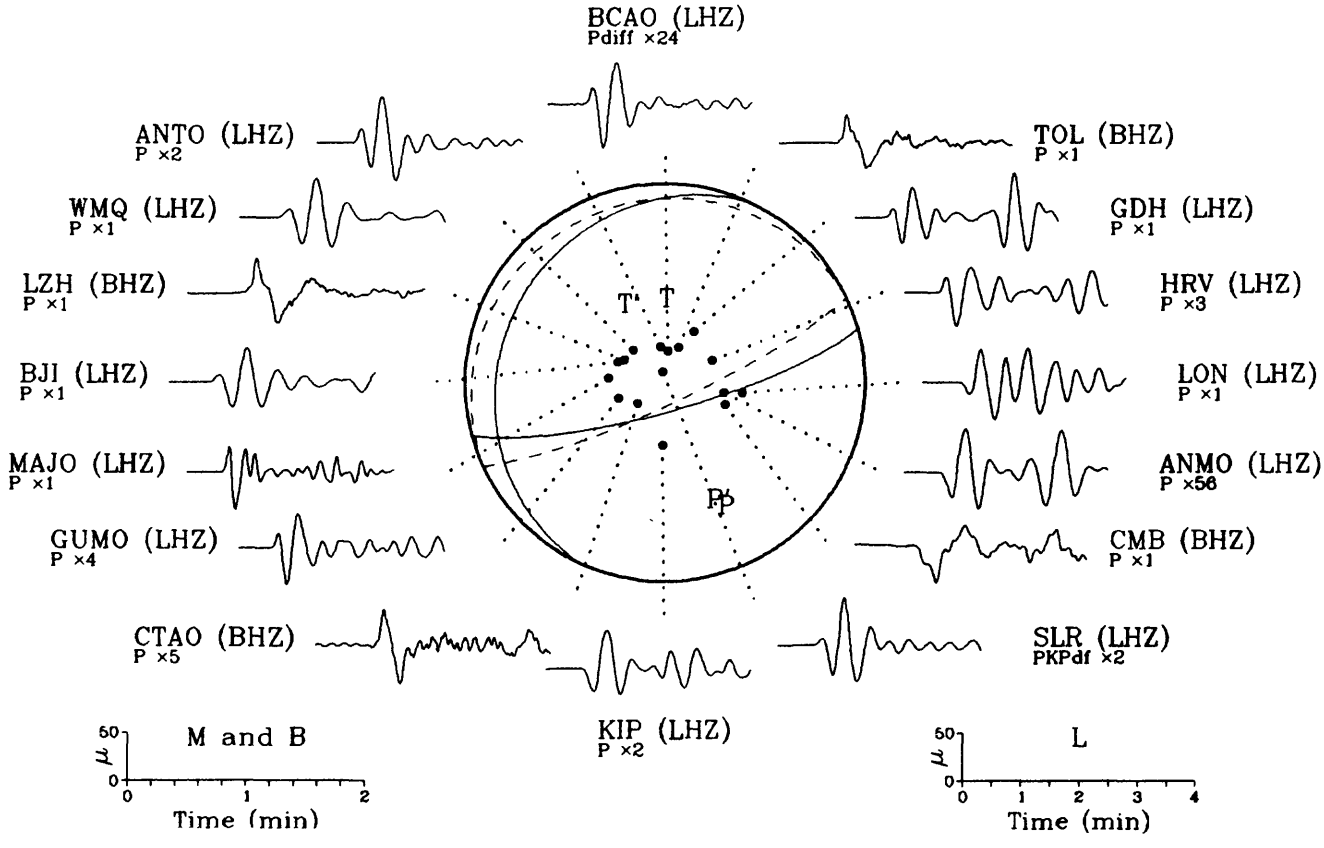
30 18 19 23.33 20.236N 98.848E 13km
5.3mb (60 obs.) 5.6Msz (14 obs.)
BURMA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 32C
Centroid Location:
Origin Time 18:19:58.0 0.3
Lat 20.26N 0.04 Lon 99.23E 0.04
Dep 15.0 FIX Half-duration 2.9
Principal Axes:
Scale 10**17 Nm
T Val= 5.24 Plg= 0 Azm= 38
N 0.04 73 129
P -5.27 17 308
Best Double Couple:Mo=5.3*10**17
NP1:Strike= 85 Dip=78 Slip=-168
NP2: 352 78 -13

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

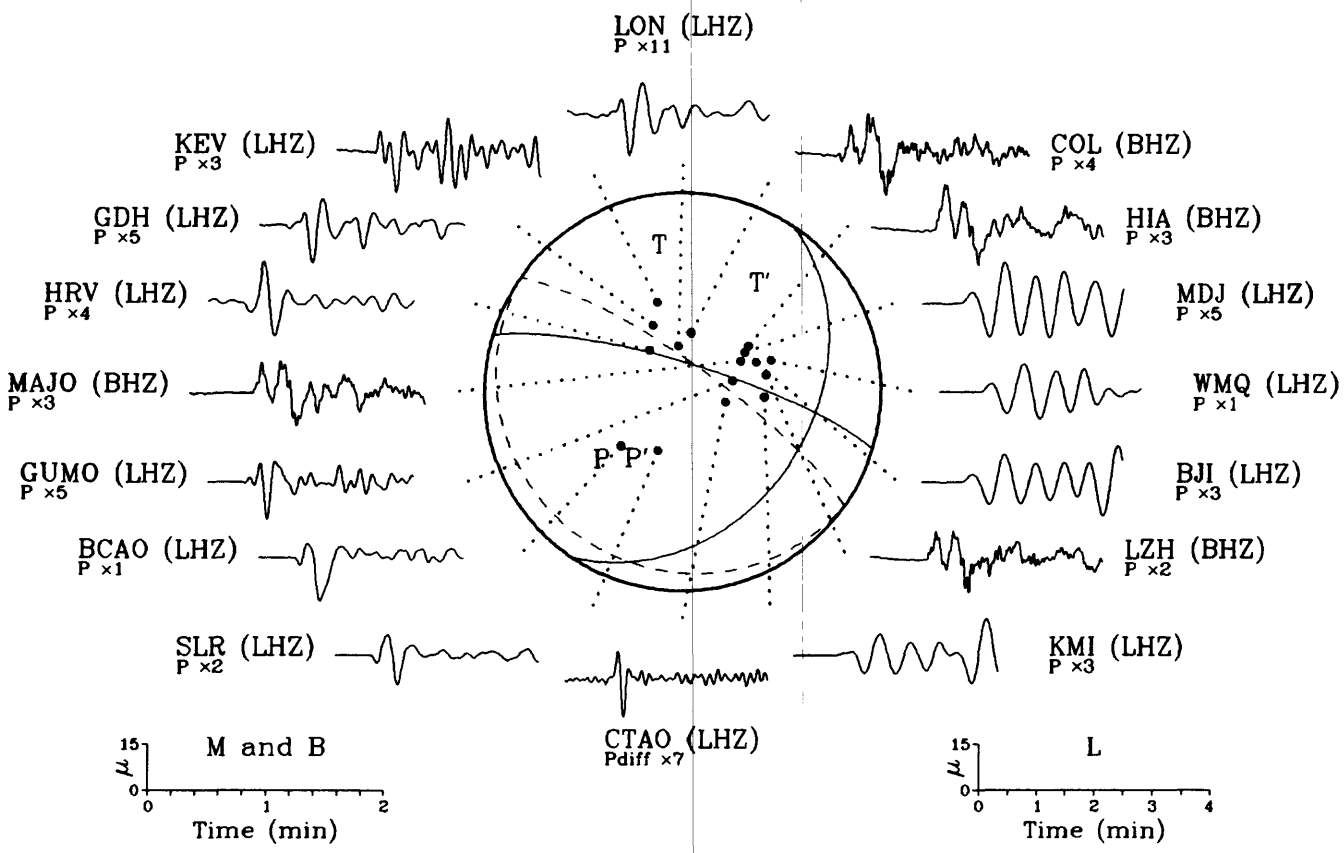
04 September 1989 05:20:55.93
West Irian Region



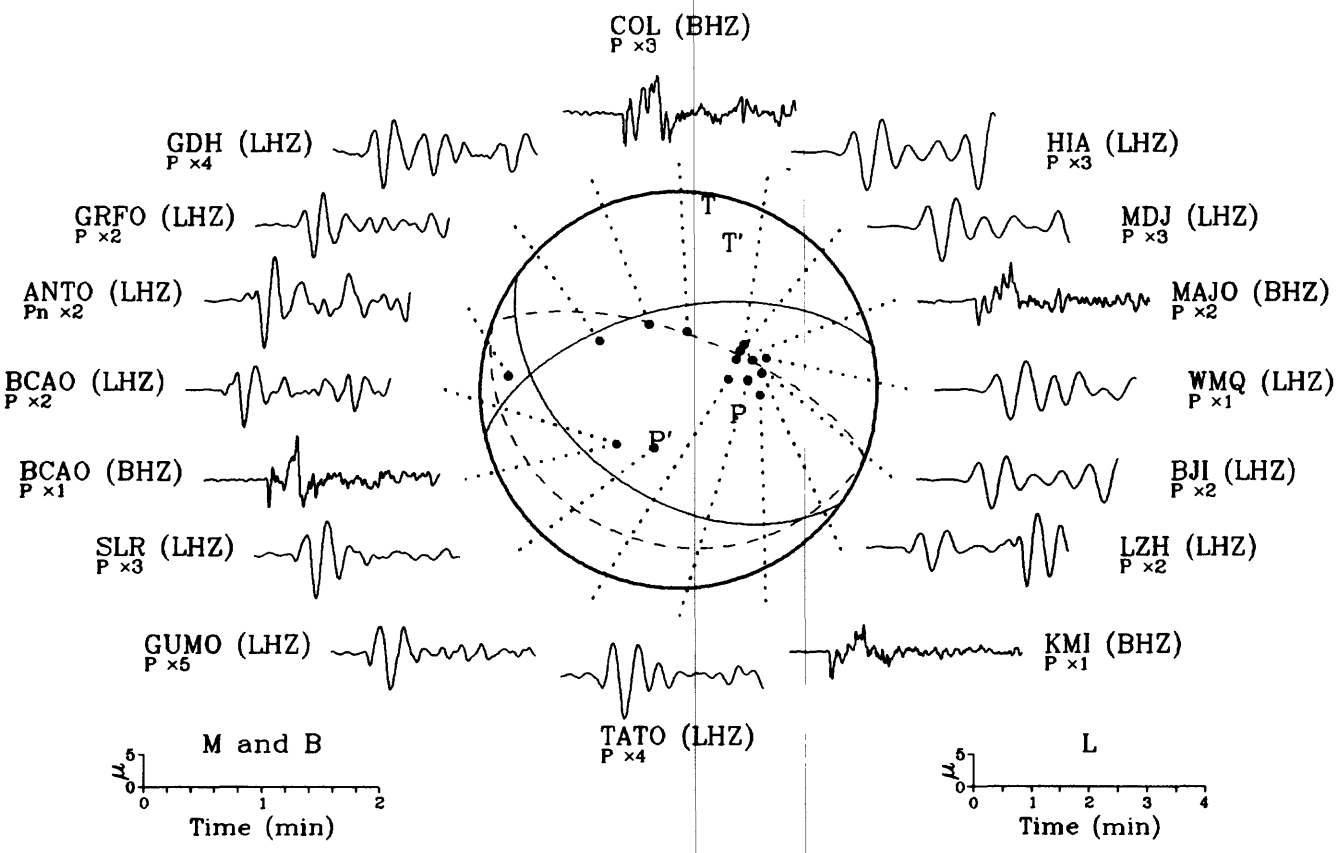
04 September 1989 13:14:58.25
South of Alaska



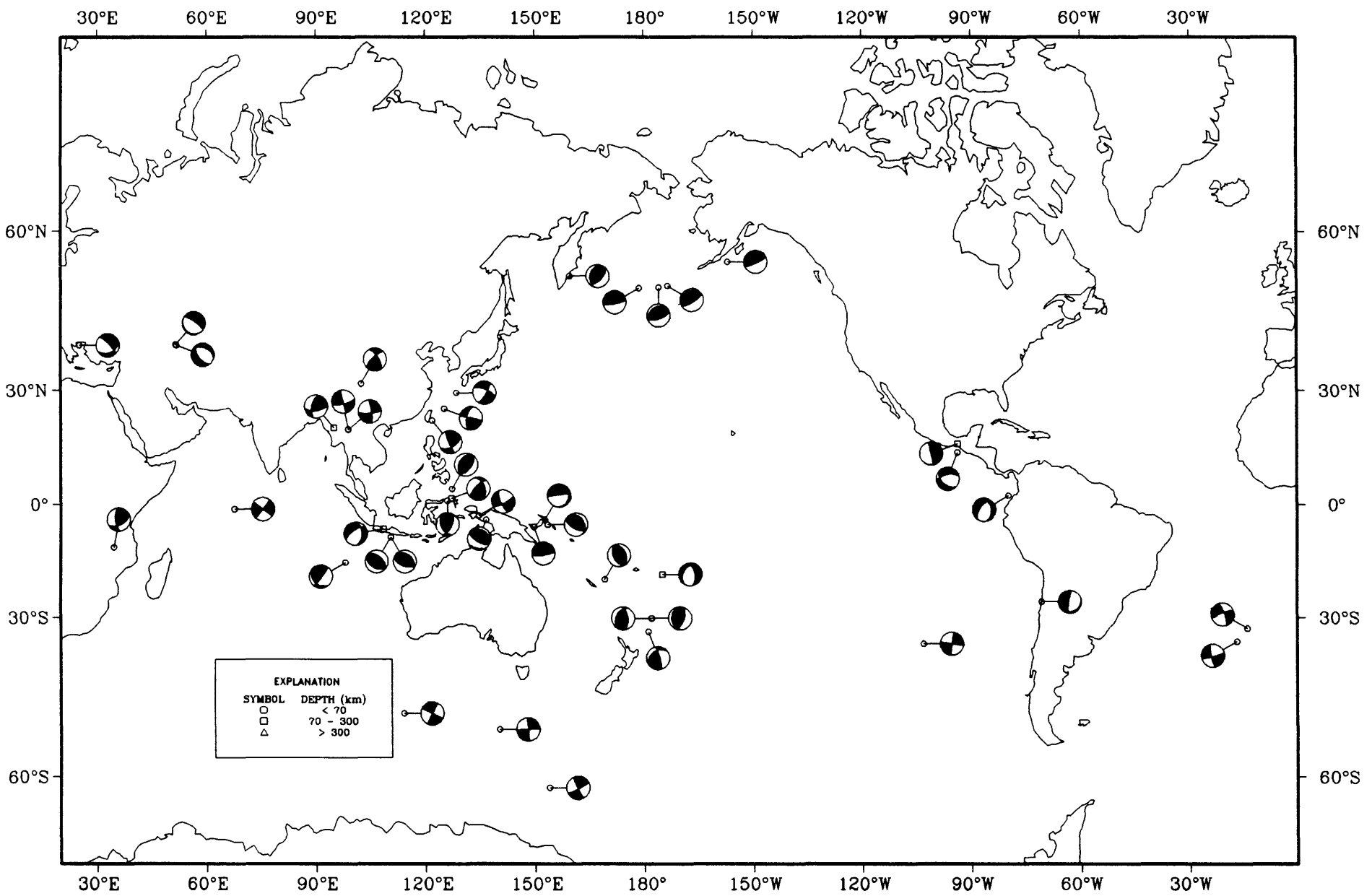
16 September 1989 02:05:08.91
Caspian Sea

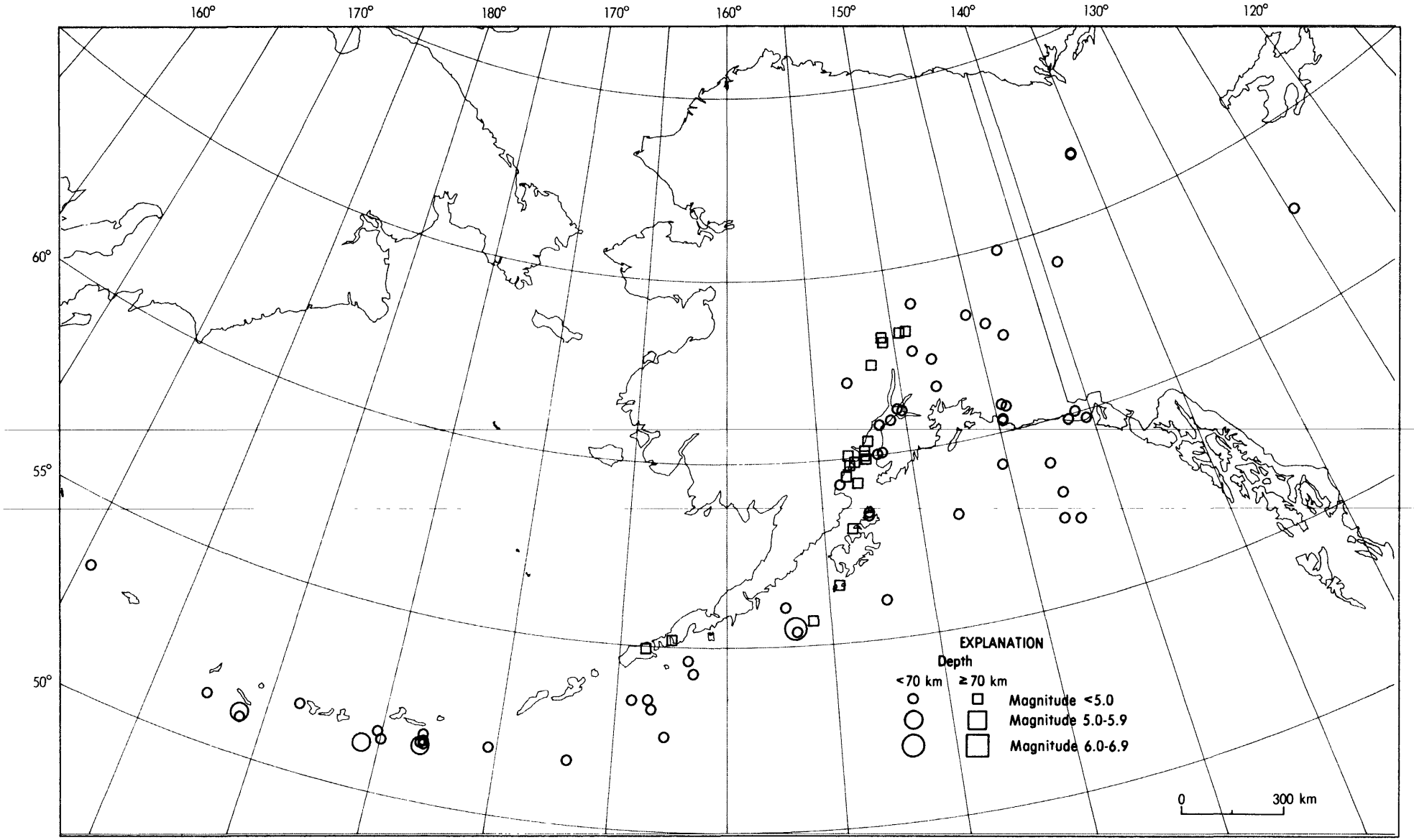


17 September 1989 00:53:39.77
Caspian Sea

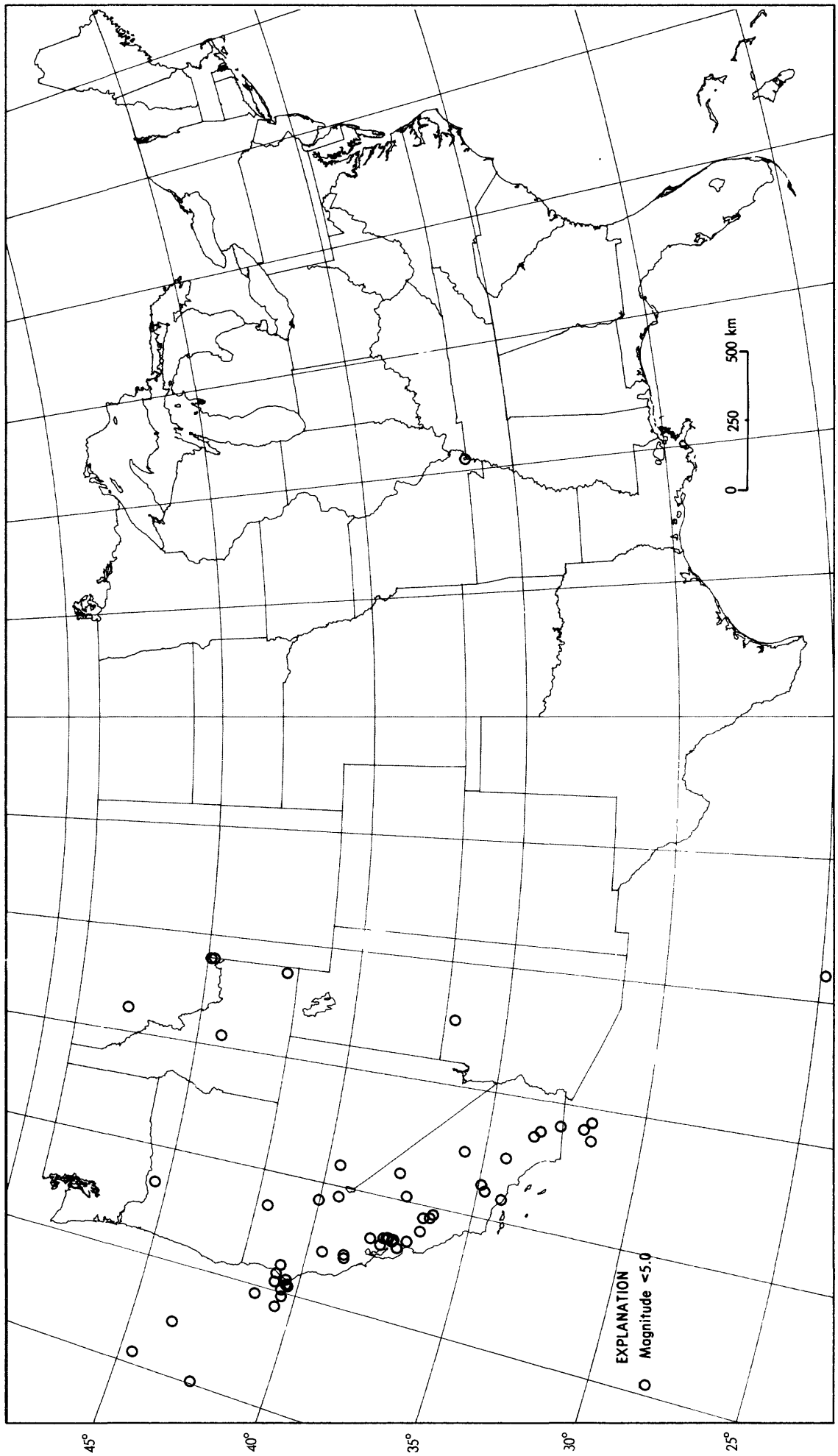


Earthquake Focal Mechanisms for September 1989

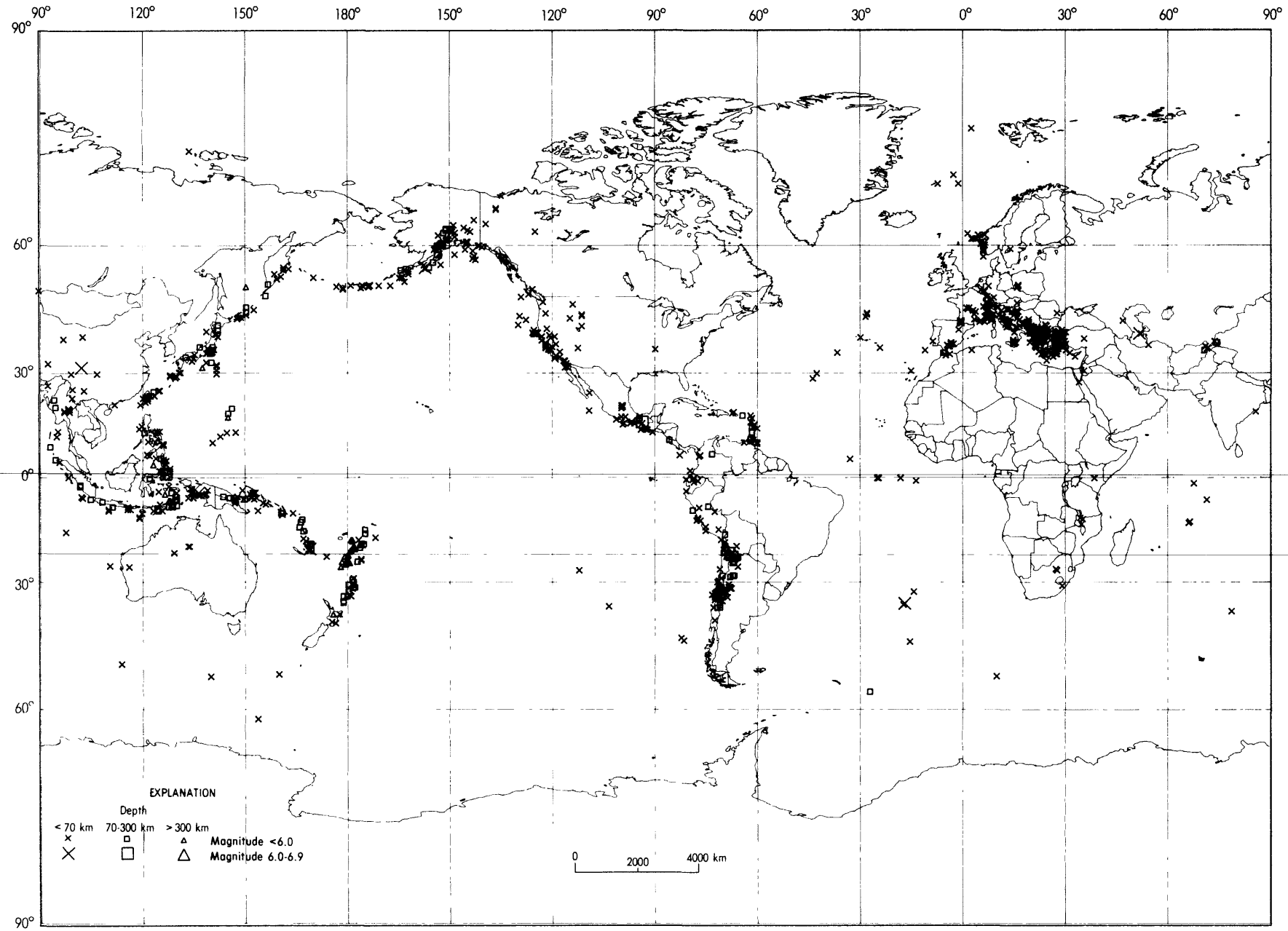




Earthquake epicenters in Alaska and adjacent regions for September, 1989 (C. Stover).



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



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

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