UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

PRELIMINARY DETERMINATION OF EPICENTERS
MONTHLY LISTING

JANUARY - MARCH 1990

NATIONAL EARTHQUAKE INFORMATION CENTER

Open File Report

90-600-A

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

1990

PRELIMINARY DETERMINATION OF EPICENTERS

MONTHLY LISTING

U.S. DEPARTMENT OF THE INTERIOR / GEOLOGICAL SURVEY

National Earthquake Information Center

JANUARY 1990

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	22	33.5&	61.719	N	149.671	W	39						33	SOUTHERN ALASKA. <AGS-P>. ML 2.9 (PMR).
	01	02	47	41.2*	36.323	N	26.969	E	145	?				1.1	6	DODECANESE ISLANDS. MD 3.3 (ATH).
	01	03	25	58.2?	44.38	N	7.31	E	10	G				0.0	4	NORTHERN ITALY. ML 1.6 (GEN).
	01	06	34	04.0	41.714	N	19.431	E	10	G				1.2	18	ALBANIA. ML 3.3 (SKO).
a	01	07	49	35.5	21.772	S	179.361	W	600	D		5.2		1.1	143	FIJI ISLANDS REGION
	01	09	03	12.8	36.417	N	140.568	E	68			4.8		1.2	35	NEAR EAST COAST OF HONSHU, JAPAN
	01	09	30	26.7?	40.40	N	28.65	E	10	G				1.1	4	TURKEY
	01	09	38	15.3*	23.616	S	179.922	W	541	?		4.8		1.0	18	SOUTH OF FIJI ISLANDS
	01	10	33	44.0*	16.302	N	63.417	W	33	N				0.9	7	LEEWARD ISLANDS. ML 3.6 (FDF).
	01	13	22	47.8&	36.978	N	121.810	W	15						14	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
	01	14	10	03.0	9.412	S	107.260	E	32	D		4.7		1.1	24	SOUTH OF JAVA
a	01	14	49	00.6	10.507	S	161.387	E	37	D		5.2	4.8	0.9	90	SOLOMON ISLANDS
a	01	16	07	27.3	7.183	S	125.242	E	527			5.2		1.1	97	BANDA SEA
	01	16	20	34.3	42.577	N	12.599	E	10	G				1.0	8	CENTRAL ITALY
	01	16	38	24.4	46.801	N	9.738	E	5	G				1.3	48	SWITZERLAND. ML 3.1 (FUR), 3.1 (GRF), 3.0 (LDG).
	01	17	13	46.7?	50.37	N	173.77	E	33	N		4.6		0.8	11	ALEUTIAN ISLANDS REGION
a	01	17	21	38.8	19.151	S	167.313	E	10	G		5.2	4.7	1.1	146	VANUATU ISLANDS REGION
	01	18	03	19.2	6.830	N	72.995	W	158			5.3		1.1	123	NORTHERN COLOMBIA. Felt in Tachira, Venezuela.
	01	18	19	32.1%	45.037	N	7.302	E	10	G				0.7	5	NORTHERN ITALY. ML 2.3 (GEN).
	01	18	25	42.6?	43.90	N	8.86	E	10	G				0.5	7	CORSICA
	01	18	36	21.9?	35.12	N	50.72	E	10	G				1.2	5	IRAN
	01	18	46	01.2?	44.42	N	8.11	E	10	G				0.5	4	NORTHERN ITALY. ML 1.7 (GEN).
	01	19	04	20.3%	39.927	N	29.155	E	5	G				1.0	6	TURKEY
	01	19	31	07.3?	33.22	S	72.16	W	10	G				0.5	7	OFF COAST OF CENTRAL CHILE
	01	19	50	17.1?	44.32	N	7.45	E	10	G				0.2	4	NORTHERN ITALY. ML 1.7 (GEN).
	01	22	59	43.3&	32.560	N	115.800	W	4						6	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.2 (PAS).
	01	23	17	18.1&	38.313	N	118.670	W	11						21	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.1 (BRK).
	01	23	29	53.7?	51.57	N	178.30	W	33	N		4.4		1.4	12	ANDREANOF ISLANDS, ALEUTIAN IS.
	02	00	15	03.1?	44.37	N	7.17	E	10	G				0.0	4	NORTHERN ITALY. ML 1.6 (GEN).
a	02	01	25	06.5	8.344	N	127.441	E	41	D		5.4	4.9	1.1	98	PHILIPPINE ISLANDS REGION
	02	01	36	33.2	38.808	S	175.218	E	249	*				0.3	20	NORTH ISLAND, NEW ZEALAND
	02	02	19	21.4*	21.771	S	13.126	W	10	G		4.7		1.0	27	SOUTH ATLANTIC RIDGE
	02	02	27	11.2?	11.70	S	122.50	E	33	N		4.1		1.3	8	SOUTH OF TIMOR
	02	04	10	22.6?	44.66	N	7.03	E	10	G				0.5	4	NORTHERN ITALY. ML 1.6 (GEN).
	02	04	33	54.6*	3.446	S	146.320	E	33	N		4.6	4.3	1.3	9	BISMARCK SEA
	02	06	26	52.3%	23.059	N	121.372	E	10	G				0.5	6	TAIWAN
	02	06	44	17.5?	25.08	S	70.00	W	33	N				1.4	5	NEAR COAST OF NORTHERN CHILE
	02	07	02	47.4	19.109	S	169.323	E	243			4.7		1.0	61	VANUATU ISLANDS
	02	07	06	30.8	43.067	N	0.674	W	10	G				0.2	8	PYRENEES MD 1 0 (STR).
	02	07	36	15.8	10.718	S	166.073	E	140	D		4.7		0.9	42	SANTA CRUZ ISLANDS
	02	08	01	11.7&	37.048	N	121.793	W	10						13	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).
	02	08	22	56.5	3.433	S	145.947	E	33	N		5.1		0.7	14	NEAR N COAST OF PAPUA NEW GUINEA
	02	08	23	09.3%	40.233	N	27.024	E	10	G				0.6	5	TURKEY
	02	09	50	53.1&	33.650	N	116.770	W	13						20	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS). Felt (IV) at Anza and Winchester. Felt (III) at Hemet, Indio and North Palm Springs.
	02	11	41	48.5&	63.087	N	150.464	W	109						36	CENTRAL ALASKA. <AGS-P>.
	02	12	13	47.2&	61.496	N	146.331	W	32						27	SOUTHERN ALASKA. <AGS-P>.
	02	12	14	10.9?	31.23	S	68.76	W	10	G				0.4	4	SAN JUAN PROVINCE, ARGENTINA
	02	12	54	32.2&	61.816	N	150.867	W	55						32	SOUTHERN ALASKA. <AGS-P>.
	02	13	23	41.9?	35.91	N	146.46	E	33	N				0.7	8	OFF EAST COAST OF HONSHU, JAPAN
	02	13	50	43.7%	42.888	N	0.771	W	10	G				0.1	9	PYRENEES. MD 1.2 (STR).
	02	15	20	30.2	7.991	N	127.305	E	69	?		4.4		0.9	28	PHILIPPINE ISLANDS REGION
	02	15	34	16.9*	2.849	S	128.687	E	33	N		4.7		1.2	20	CERAM SEA
	02	16	26	37.7*	43.420	N	146 063	E	73	*		4.6		0.8	23	KURIL ISLANDS
	02	16	44	32.6%	44.288	N	6.989	E	10	G				0.4	7	FRANCE ML 1.9 (GEN).
	02	17	45	25.1	36.965	N	114.921	W	5	G				0.7	6	SOUTHERN NEVADA. ML 3.1 (NEIS).
	02	17	50	29.1%	38 945	N	27.857	E	10	G				1.4	8	TURKEY

Annual Subscriptions Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.
Back issues: Books and Open-File Reports Section, U.S. Geological Survey, Box 25425, Denver, CO 80225

	02	18	50	19.0?	48.01	N	16.95	E	10	G		1.7	4	AUSTRIA ML 2.1 (VKA). Felt (IV) at Nickelsdorf.
a	02	20	21	32.6	13.408	N	144.439	E	136	G	5.7	1.0	284	MARIANA ISLANDS. Felt (IV) in the Agana-Santo Rito-Nimitz Hill-Apra Harbor area and (III) throughout much of the other parts of the island. Depth from broadband displacement seismograms.
	02	20	35	41.7	38.607	N	24.194	E	10	G	4.6	1.2	105	AEGEAN SEA. ML 4.5 (ATH).
	02	20	43	12.9?	44.35	N	7.14	E	10	G		0.0	4	NORTHERN ITALY. ML 1.7 (GEN).
	02	20	51	07.9*	33.407	S	72.522	W	10	G	4.7	1.3	21	OFF COAST OF CENTRAL CHILE. Felt (IV) in the Valparaiso area.
	02	21	03	49.9%	38.565	N	23.932	E	10	G		1.1	5	GREECE
o	02	21	38	18.6	2.550	S	127.713	E	34	D	5.4 4.7	1.2	104	CERAM SEA
	02	21	38	24.6	40.606	N	79.002	E	10	G	4.9	1.4	23	SOUTHERN XINJIANG, CHINA
	02	21	46	47.2	36.118	N	27.210	E	5	G		1.0	7	DODECANESE ISLANDS. MD 3.6 (ATH).
	02	22	09	18.4&	46 227	N	111.397	W	1				19	MONTANA. <BUT>. ML 3.7 (BUT).
	02	22	36	11.0	44.349	N	7.146	E	10	G		0.3	5	NORTHERN ITALY. ML 1.7 (GEN).
	02	22	54	34.7	43 055	N	27.605	E	13			1.3	20	BULGARIA
	02	22	57	52.5%	44.367	N	7.187	E	10	G		0.4	5	NORTHERN ITALY ML 1.7 (GEN).
	02	23	24	34 0	36.596	N	25.651	E	26		4.4	1.1	31	DODECANESE ISLANDS. ML 4.0 (ATH).
	03	00	27	35.6%	44 316	N	7.067	E	10	G		0.2	6	NORTHERN ITALY. ML 1.8 (GEN).
	03	00	43	47.9	6.700	N	126.477	E	107	*	4.7	1.5	35	MINDANAO, PHILIPPINE ISLANDS
	03	01	32	22.2?	33.58	N	25.91	E	33	N		1.2	7	EASTERN MEDITERRANEAN SEA. MD 3.9 (ATH).
	03	01	43	40.9	51.380	N	20.825	E	10	G		0.9	7	POLAND. ML 2.8 (KRA), 2.9 (VKA).
	03	01	47	28.3	43.527	N	0.491	W	16			1.1	27	PYRENEES ML 3 4 (LDG). mbLg 3.3 (MDD). Felt (IV) at Artix and (III) in parts of the Lacq oilfield, France.
	03	08	25	06.4	42.243	N	48.303	E	10	D	4.9 4.3	1.4	122	CASPIAN SEA
	03	08	53	38.9*	35.457	N	141.272	E	10	G	4.3	1.1	9	NEAR EAST COAST OF HONSHU, JAPAN
	03	09	40	10.5	38.759	N	22.531	E	10	G		1.3	10	GREECE. ML 3.2 (ATH).
	03	10	58	31.1%	43.884	N	7.120	E	10	G		0.8	8	NEAR SOUTH COAST OF FRANCE
	03	11	07	11.1&	58.820	N	154.831	W	130				33	ALASKA PENINSULA. <AGS-P>.
	03	11	54	27.4&	33.250	N	116.370	W	9				14	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS). Felt (III) at Indio and Lakeside. Also felt at Ramona, Warner Springs and in the Palm Springs area.
	03	15	09	09.3%	40.075	N	27.815	E	10	G		0.9	5	TURKEY
	03	15	12	12.2?	36.05	N	53.16	E	10	G		1.2	7	IRAN
	03	15	46	21.4*	37.940	S	176.318	E	239	?		0.3	21	NORTH ISLAND, NEW ZEALAND
	03	16	01	26.3?	6.54	S	152.92	E	33	N	4.1	1.5	7	NEW BRITAIN REGION
	03	18	16	35.6%	41.998	N	14.033	E	10	G		0.5	9	SOUTHERN ITALY
	03	18	58	04.5*	31.813	S	69.734	W	10	G		1.2	10	SAN JUAN PROVINCE, ARGENTINA
	03	19	42	27.0?	5.11	S	148.41	E	219	?	3.8	0.1	5	NEW BRITAIN REGION
	03	21	12	45.8?	41.69	N	12.75	E	10	G		0.3	5	SOUTHERN ITALY
	03	21	31	54.1?	41.53	N	12.57	E	10	G		0.1	5	SOUTHERN ITALY
	03	21	36	43.0?	12.56	S	115.56	E	33	N	4.5	1.3	11	NORTHWEST OF AUSTRALIA
	03	21	52	38.5*	37.837	S	176.195	E	308	*	3.1	0.6	20	NORTH ISLAND, NEW ZEALAND
	03	21	52	46.5?	32.63	N	121.38	E	10	G		1.6	5	EASTERN CHINA
	04	01	13	40.4	44.316	N	7.044	E	10	G		0.5	8	NORTHERN ITALY. ML 1.9 (GEN).
	04	02	30	50.1	45.949	N	7.180	E	10	G		1.5	28	NORTHERN ITALY. ML 2.6 (LDG).
	04	03	06	23.5?	3.63	S	142.32	E	226	?	4.0	1.2	6	NEAR N COAST OF PAPUA NEW GUINEA
	04	04	09	09.7	36.479	N	82.567	E	10	G	4.5	1.0	20	SOUTHERN XINJIANG, CHINA
	04	05	04	31.4%	39.688	N	16.404	E	10	G		0.5	6	SOUTHERN ITALY
	04	05	10	58.6&	61.188	N	150.880	W	51				28	SOUTHERN ALASKA. <AGS-P>.
	04	05	26	22.8%	41.669	N	12.766	E	10	G		0.5	5	SOUTHERN ITALY
f	04	05	32	21.0	15.397	S	172.850	W	54	G	6.4 6.4	1.2	411	SAMOA ISLANDS REGION. Ms 6.4 (BRK), 6.3 (PAS). Mo=1.0*10**19 Nm (PPT). Felt at Pago Pago, American Samoa. Depth from broadband displacement seismograms.
	04	06	18	35.4	47.463	N	115.941	W	0	G		0.6	6	MONTANA. CL 2.7 (BUT). Probable rockburst. Felt at Silverton and Wallace, Idaho
	04	07	14	04.0*	34.829	N	26.647	E	10	G		1.5	7	CRETE
	04	09	13	32.6*	31.428	S	68.444	W	105	?		0.8	8	SAN JUAN PROVINCE, ARGENTINA
	04	11	14	59.4*	6.556	S	153.317	E	33	N	4.3	0.7	6	NEW BRITAIN REGION
	04	12	16	38.3*	36.342	N	141.408	E	55	*	4.4	1.1	23	NEAR EAST COAST OF HONSHU, JAPAN
	04	12	58	13.1*	3.906	S	131.545	E	33	N	4.3	1.5	13	WEST IRIAN REGION
	04	13	05	01.3	24.196	N	121.909	E	30		4.2	1.5	30	TAIWAN
	04	13	20	44.0&	57.790	N	150.543	W	10	G	4.3		47	GULF OF ALASKA. <AGS-P>. ML 4.1 (PMR).
	04	14	38	40.0	43.950	N	18.042	E	10	G		0.9	15	YUGOSLAVIA. ML 2.9 (KBA), 2.4 (LJU).
	04	18	01	04.4	44.765	N	117.627	W	5	G		0.6	8	OREGON. ML 3.0 (BUT).
	04	18	08	57.0	23.429	N	121.923	E	10	G	4.0	1.1	10	TAIWAN
a	04	18	54	31.5*	41.600	S	85.278	E	10	G	5.0 5.1	0.9	14	SOUTHEAST INDIAN RISE
	04	18	58	14.2*	45.367	N	6.589	E	10	G		0.5	5	FRANCE. ML 2.0 (GEN).
	04	19	41	41.1*	24.605	S	71.273	W	33	N		0.8	7	OFF COAST OF NORTHERN CHILE
	04	20	37	24.9?	47.59	N	9.45	E	10	G		0.7	5	GERMANY
	04	20	41	39.7*	47.465	N	9.147	E	10	G		0.9	6	GERMANY
	04	20	44	51.7	47.387	N	9.027	E	5	G		1.3	25	GERMANY. ML 2.9 (LDG), 2.6 (KBA), 2.6 (FUR). MD 2 8 (STR).
	04	20	49	42.6	47.413	N	9.101	E	10	G		1.1	15	GERMANY. ML 3.0 (LDG), 2.9 (FUR), 2.7 (KBA). MD 2 2 (STR).
	04	22	16	52.1	36.140	N	120.112	W	5	G		1 4	10	CENTRAL CALIFORNIA. ML 2.7 (BRK).
o	04	22	24	01.1	3.156	S	148.464	E	33	N	5.1 4.4	1 2	25	BISMARCK SEA
	04	23	20	26.1	47.392	N	9.135	E	10	G		1 3	15	GERMANY. ML 2.7 (LDG). MD 2.1 (STR).
	04	23	23	28.5?	51.46	N	173.87	W	33	N	4.5	1.1	19	ANDREANOF ISLANDS, ALEUTIAN IS.
a	04	23	25	57.1	32.381	N	138.821	E	248		5.1	0.9	138	SOUTH OF HONSHU, JAPAN
	05	00	02	18.6	45.803	N	15.509	E	10	G		1.4	13	YUGOSLAVIA. ML 3.0 (KBA).
	05	00	29	50.6	38.413	N	22.144	E	5	G	3.9	1.4	50	GREECE. ML 3.6 (THE), 3.4 (ATH).
	05	00	49	34.8%	36.948	N	5.338	W	10	G		1.1	6	STRAIT OF GIBRALTAR. mbLg 2.5 (MDD).
	05	00	55	17.4	43.416	N	5.415	E	10			0.9	15	NEAR SOUTH COAST OF FRANCE. MD 2.6 (STR).
	05	01	51	01.4	29.411	N	52.120	E	10	G	4 3	1.1	25	SOUTHERN IRAN
	05	01	56	25.8?	46.00	N	15.44	E	5	G		0.8	4	YUGOSLAVIA. MD 2.7 (LJU).
	05	02	19	39.1?	47.51	N	8.53	E	10	G		1.5	5	SWITZERLAND. ML 2.5 (LDG).
	05	03	37	40.1&	59.250	N	154.884	W	101				6	SOUTHERN ALASKA. <AGS-P>.
	05	04	02	41.6	39.334	N	20.529	E	6			1.0	31	GREECE-ALBANIA BORDER REGION. ML 3.3 (THE). MD 3.6 (ATH).
	05	04	21	09.5	47.429	N	9.072	E	9			1.3	33	GERMANY. ML 3.3 (FUR), 3.2 (LDG). MD 2.9 (STR).
	05	05	25	13.0	38.663	N	26.155	E	10	G		0.8	7	AEGEAN SEA. MD 3.2 (ATH).
	05	06	39	40.4	7.828	N	127.198	E	33	N	4.0 3.4	0.5	24	PHILIPPINE ISLANDS REGION

	05	06	42	10.5*	41.736	N	126.807	W	10	G	4.4		0.4	21	OFF COAST OF NORTHERN CALIFORNIA
	05	06	51	16.8	41.746	N	127.036	W	10	G	4.1	4.6	0.8	54	OFF COAST OF NORTHERN CALIFORNIA
	05	07	07	27.6*	41.842	N	126.885	W	10	G			1.0	10	OFF COAST OF NORTHERN CALIFORNIA
a	05	07	16	51.7	41.836	N	126.796	W	10	G	4.7	5.1	1.0	90	OFF COAST OF NORTHERN CALIFORNIA. ML 4.4 (BRK).
	05	07	22	40.4*	41.771	N	126.694	W	10	G			0.5	32	OFF COAST OF NORTHERN CALIFORNIA
	05	09	36	54.3?	21.24	S	178.35	W	550	?	4.4		0.7	13	FIJI ISLANDS REGION
	05	10	08	16.5	44.570	N	9.182	E	10	G			0.9	17	NORTHERN ITALY. ML 2.5 (GEN).
a	05	10	10	21.8	8.800	S	106.442	E	29	D	5.3	5.8	1.3	101	SOUTH OF JAVA
	05	10	44	51.5*	8.184	N	126.712	E	33	N	4.9		1.1	24	MINDANAO, PHILIPPINE ISLANDS
	05	11	35	39.6	36.006	N	71.203	E	80	*	4.6		1.5	38	AFGHANISTAN-USSR BORDER REGION
	05	11	59	54.9*	12.486	N	57.841	E	10	G	4.4		0.3	12	ARABIAN SEA
	05	12	01	43.7*	59.822	N	73.353	W	10	G	4.0		1.3	10	NORTHERN QUEBEC
	05	12	22	36.1&	61.357	N	151.489	W	75					55	SOUTHERN ALASKA. <AGS-P>.
	05	12	44	31.9	38.653	S	175.679	E	166	*			0.3	23	NORTH ISLAND, NEW ZEALAND
a	05	13	03	44.3	19.258	S	69.529	W	109		5.0		1.2	77	NORTHERN CHILE. Felt (IV) at Arica, (III) at Iquique and (II) at Toconao.
	05	14	01	22.7&	66.824	N	150.345	W	74					6	ALASKA. <AGS-P>.
	05	14	45	27.7*	50.419	N	18.976	E	10	G			0.4	5	POLAND. ML 2.9 (KRA).
	05	15	18	46.2	4.056	S	80.877	W	52	*	5.0	4.3	0.7	27	PERU-ECUADOR BORDER REGION. Felt (V) at Tumbes, Peru.
	05	16	04	48.5	41.554	N	20.017	E	10	G			1.5	8	ALBANIA. ML 2.6 (SKO).
	05	16	35	01.2	47.403	N	9.074	E	10	G			1.5	21	GERMANY. ML 3.0 (LDG), 2.9 (FUR), 2.6 (KBA). MD 2.3 (STR).
	05	16	58	14.3	39.746	N	20.617	E	10	G			0.7	6	GREECE-ALBANIA BORDER REGION
a	05	18	27	00.1	18.863	N	106.795	W	33	N	5 4	5.9	1.3	155	OFF COAST OF JALISCO, MEXICO. Ms 6.0 (BRK). Mo=3.0*10**18 Nm (PPT).
	05	19	58	38.2?	15.72	N	97.26	W	33	N			0.7	6	NEAR COAST OF OAXACA, MEXICO
	05	20	18	39.8&	63.106	N	149.746	W	98					50	CENTRAL ALASKA. <AGS-P>.
	05	20	31	07.1?	36.12	N	144.05	E	33	N	4.3		1.1	7	OFF EAST COAST OF HONSHU, JAPAN
	05	20	37	59.8	39.849	N	23.411	E	10	G			0.6	14	AEGEAN SEA. ML 3.4 (THE). MD 3.4 (ATH).
	05	21	05	40.3?	47.55	N	8.78	E	10	G			1.1	6	SWITZERLAND. ML 2.7 (LDG).
	05	23	56	36.0	21.441	N	145.914	E	79	*	4.9		1.0	36	MARIANA ISLANDS REGION
	06	01	29	24.8&	60.718	N	151.118	W	48					65	KENAI PENINSULA, ALASKA. <AGS-P>. ML 3.9 (PMR).
	06	03	36	15.2&	62.901	N	152.173	W	165					30	CENTRAL ALASKA. <AGS-P>.
	06	03	43	00.5*	8.337	N	126.660	E	33	N	5.1		1.1	16	MINDANAO, PHILIPPINE ISLANDS
	06	04	04	08.8*	14.658	S	72.061	W	10	G			0.6	6	PERU
	06	04	20	17.4	45.345	N	26.986	E	10	G			1.0	13	ROMANIA
	06	04	25	04.0	45.413	N	26.901	E	33	N			1.4	13	ROMANIA
	06	04	47	14.7?	50.99	N	6.84	E	32	?			1.3	5	GERMANY. MD 2.8 (UCC).
	06	05	11	14.6%	15.369	N	92.801	W	33	N			0.9	8	MEXICO-GUATEMALA BORDER REGION
	06	05	35	44.2&	40.520	N	125.762	W	5		4.1	3.8		68	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 4.2 (BRK).
	06	06	01	35.6?	27.96	N	51.95	E	58	?	4.5		0.7	17	PERSIAN GULF
	06	06	36	41.6*	3.121	S	141.124	E	33	N	4.8		1.2	17	PAPUA NEW GUINEA
	06	07	16	53.3?	6.73	S	133.84	E	33	N	4.3		1.4	7	AROE ISLANDS REGION
	06	09	37	17.4&	62.454	N	151.263	W	96					38	CENTRAL ALASKA. <AGS-P>.
	06	12	47	54.2	33.937	S	70.076	W	21				1.2	17	CHILE-ARGENTINA BORDER REGION
	06	12	58	52.9%	30.905	S	117.129	E	10	G			1.4	5	WESTERN AUSTRALIA
	06	13	44	56.5?	35.39	N	22.27	E	50	?	3.8		1.0	10	MEDITERRANEAN SEA
	06	15	34	11.2	44.548	N	7.257	E	10	G			0.3	6	NORTHERN ITALY. ML 2.0 (GEN).
	06	16	30	47.4*	16.865	N	61.929	W	10	G			0.3	7	LEEWARD ISLANDS. ML 2.8 (FDF).
	06	16	36	05.6	45.841	N	11.904	E	10	G			0.9	10	NORTHERN ITALY. ML 3.2 (KBA).
	06	18	25	04.8%	33.574	S	71.132	W	33	N			0.8	7	NEAR COAST OF CENTRAL CHILE
	06	18	25	59.0	53.015	N	152.684	E	555	*	4.3		0.6	45	SEA OF OKHOTSK
	06	19	10	49.8	45.035	N	7.567	E	10	G			0.7	16	NORTHERN ITALY. ML 2.6 (GEN).
	06	20	44	35.9	50.411	N	19.058	E	10	G			1.2	16	POLAND. ML 4.0 (GRF), 3.6 (KBA), 3.6 (KRA), 3.4 (VKA).
	06	20	48	23.1?	42.24	N	8.99	E	10	G			0.6	12	CORSICA. ML 2.8 (LDG).
	06	21	12	20.7%	39.634	N	22.894	E	10	G			0.2	6	GREECE
	06	21	40	51.3?	46.31	N	2.56	E	10	G			0.4	4	FRANCE. ML 1.7 (LDG).
	06	21	42	03.1*	34.546	N	26.184	E	17	*	4.2		1.1	23	CRETE. MD 4.1 (ATH).
f	06	21	44	56.2	10.681	S	92.987	E	15	G	5.7	5.5	1.1	237	SOUTH INDIAN OCEAN. Two events about 1.5 secands apart. Depth fram broadband displacement seismagrams, based an first event.
	06	23	15	13.9	55.925	N	4.383	W	10	G			0.8	12	UNITED KINGDOM. ML 2.2 (BGS). Felt (IV) at Strathblane, Milngavie and Bearsden near Glasgaw.
	06	23	22	31.9*	31.523	S	68.517	W	109	*			1.3	9	SAN JUAN PROVINCE, ARGENTINA
	07	01	31	36.3%	61.341	N	3.422	E	10	G			0.4	7	NORWEGIAN SEA. MD 2.3 (BER).
	07	01	53	20.3%	41.861	N	12.783	E	10	G			0.6	5	SOUTHERN ITALY
	07	02	03	25.4	40.293	N	19.945	E	6				1.0	35	ALBANIA. ML 3.3 (THE). MD 3.6 (ATH).
	07	03	20	05.7*	46.455	N	0.867	W	10	G			1.4	5	FRANCE. ML 2.6 (LDG).
	07	04	57	22.2%	27 382	S	117.643	E	10	G			1.3	5	WESTERN AUSTRALIA
	07	05	31	52.9*	1 406	N	126.473	E	89	?	4.7		1.0	19	MOLUCCA PASSAGE
	07	06	50	23.1	41 321	N	49 452	E	33	N	4.6		0.8	11	CASPIAN SEA
	07	07	26	13.0	39.940	N	77.558	E	10	G	4.1		0.9	15	SOUTHERN XINJIANG, CHINA
	07	07	45	44.7	8.170	N	126.801	E	28	D	5.0	4.3	1.2	64	MINDANAO, PHILIPPINE ISLANDS
	07	08	19	04.4*	17.885	S	70.625	W	67	*	4.7		1.5	16	NEAR COAST OF PERU. Felt (III) at Arequipa.
a	07	09	06	43.4	15.947	S	74.245	W	48	D	5 9	5.3	1.0	303	NEAR COAST OF PERU. Felt (II) at Arequipa.
	07	11	01	49.7	64.904	N	148.973	W	20	G			0.7	15	CENTRAL ALASKA. Foreshock.
	07	11	02	05.6	64.778	N	148.868	W	20	G	4.9	4.6	1.3	77	CENTRAL ALASKA. ML 5.5 (PMR). Felt (V) at Ester, Fairbanks and Monley Hot Springs; (IV) at Anderson, Eielsan Air Force Base, Nenana and North Pole; (III) at Clear, Delta Junctian, Minta and Tanana.
	07	11	23	31.5?	64.85	N	148.91	W	10	G			0.8	4	CENTRAL ALASKA
	07	11	45	42.4*	64.891	N	148.916	W	10	G			1.0	6	CENTRAL ALASKA. ML 3.8 (PMR).
a	07	13	28	47.4	41.518	N	142.053	E	70	D	5.2		1.1	165	HOKKAIDO, JAPAN REGION. Felt (IV) at Misawa, Honshu.
	07	14	05	21.9	11.848	S	166.564	E	164	*	5.1		0.9	76	SANTA CRUZ ISLANDS
	07	16	13	16.7&	32.968	N	80.218	W	5					12	SOUTH CAROLINA. <GLD>. MD 2.1 (GLD).
	07	16	21	23.8*	35.817	N	1.227	E	10	G			1.1	11	ALGERIA. mbLg 3.7 (MDD).
	07	16	43	19.4*	21.744	N	121.245	E	10		4.4	4.1	1.1	29	TAIWAN REGION
	07	17	18	03.9&	61.153	N	149.737	W	34					27	SOUTHERN ALASKA. <AGS-P>.
	07	17	41	13.6&	65.112	N	149.202	W	9					8	ALASKA. <AGS-P>.
	07	19	50	34.2	44.161	N	140.828	E	25	*	4.8	4.8	1.0	50	EASTERN SEA OF JAPAN
a	07	20	53	29.2	32.159	S	57.447	E	10	G	5.3	4.8	1.3	111	ATLANTIC-INDIAN RISE
	07	21	59	33.2	15.428	S	71.442	W	10	G			1.0	8	SOUTHERN PERU
	07	22	20	26.5%	36.867	N	5.260	W	10	G			0.5	5	STRAIT OF GIBRALTAR. mbLg 2.3 (MDD).

	07	23	35	09.1	20.142	N	98.752	E	50	*	4	3	0.7	12	BURMA
	08	00	11	30.0	63.080	N	150.661	W	137	*	4	2	0.9	11	CENTRAL ALASKA
	08	00	12	32.4*	35.934	N	118.578	W	5	G			1.2	6	CENTRAL CALIFORNIA. ML 2.9 (NEIS).
	08	00	41	02.5	31.750	S	68.083	W	10	G			1.2	8	SAN JUAN PROVINCE, ARGENTINA
	08	00	48	01.8	37.860	N	72.353	E	33	N	4	8	1.1	65	TAJIK SSR. Felt (III) at Khorog and Dushanbe.
	08	02	42	30.4*	34.569	N	26.262	E	69	?			1.2	15	CRETE. MD 3.7 (ATH).
	08	02	42	52.5*	53.621	N	170.326	E	33	N	4.4		0.7	12	NEAR ISLANDS, ALEUTIAN ISLANDS. ML 4.0 (PMR).
	08	02	57	32.9?	48.04	N	7.71	E	10	G			0.1	4	FRANCE. ML 1.3 (LDG).
	08	04	17	37.1?	18.05	S	172.71	W	33	N	5.0	4.9	1.5	25	TONGA ISLANDS REGION
	08	04	47	36.7?	52.60	N	4.16	W	10	G			1.4	5	UNITED KINGDOM
	08	08	10	45.5	9.161	N	127.003	E	43	D	5.2	4.2	1.2	51	PHILIPPINE ISLANDS REGION
	08	09	25	58.8	36.078	N	27.111	E	10	G			0.9	8	DODECANESE ISLANDS. MD 3.7 (ATH).
	08	09	30	44.4&	36.840	N	121.613	W	4					17	CENTRAL CALIFORNIA. <BRK>. ML 2.7 (BRK). Felt in Monterey County.
	08	10	28	44.0	36.045	N	27.220	E	31		4.1		1.4	26	DODECANESE ISLANDS. ML 4.1 (ATH).
	08	11	05	47.1	24.368	S	179.105	E	518		5.0		0.9	114	SOUTH OF FIJI ISLANDS
	08	12	26	49.9	24.060	S	179.372	E	573	*	5.0		0.8	32	SOUTH OF FIJI ISLANDS
	08	12	58	33.3	7.888	N	126.498	E	88	*	5.1		0.9	62	MINDANAO, PHILIPPINE ISLANDS
	08	13	23	41.4*	42.565	N	24.047	E	10	G			0.3	6	BULGARIA
	08	13	43	42.6	47.428	N	9.114	E	10	G			0.4	7	GERMANY
	08	13	49	07.4?	12.46	S	119.46	E	33	N			1.1	6	SOUTH OF SUMBA ISLAND
	08	14	30	12.7	36.072	N	27.198	E	10	G			1.0	8	DODECANESE ISLANDS
	08	16	17	09.2%	43.910	N	7.795	E	10	G			0.2	6	NEAR SOUTH COAST OF FRANCE. ML 1.8 (GEN).
	08	17	33	25.9?	37.56	N	20.72	E	10	G			0.9	9	IONIAN SEA. MD 3.2 (ATH).
	08	17	33	36.0?	12.30	S	74.69	W	33	N			0.1	5	PERU
	08	17	51	17.5*	36.074	N	27.149	E	10	G			0.7	5	DODECANESE ISLANDS
	08	17	56	47.1*	23.295	N	142.494	E	33	N	4.6	3.6	1.2	14	VOLCANO ISLANDS REGION
	08	18	04	00.9?	37.74	N	23.13	E	33	N			0.5	4	SOUTHERN GREECE. ML 2.9 (ATH).
o	08	19	06	44.4	13.254	N	143.877	E	141		5.1		1.0	70	SOUTH OF MARIANA ISLANDS. Felt (II) on Guam.
	08	19	43	06.0?	32.31	S	69.53	W	119	?			1.0	9	MENDOZA PROVINCE, ARGENTINA
o	08	19	44	34.6	52.038	N	169.446	W	33	N	5.6	5.7	1.2	307	FOX ISLANDS, ALEUTIAN ISLANDS. ML 5.6 (PMR). Ms 5.8 (BRK), 5.3 (PAS). Mo=1.6*10**18 Nm (PPT).
	08	20	11	45.2	52.044	N	169.351	W	33	N	5.0		1.2	102	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.5 (PMR).
	08	20	32	00.2	36.119	N	27.213	E	5	G			0.9	9	DODECANESE ISLANDS. MD 3.7 (ATH).
	08	21	04	53.0	37.365	N	118.309	W	5	G			0.8	18	CALIFORNIA-NEVADA BORDER REGION. ML 3.3 (NEIS).
	08	21	23	08.2?	28.31	N	16.92	W	10	G			1.2	4	CANARY ISLANDS REGION. mbLg 3.2 (MDD). Felt (III) at Punta Teno.
	08	21	25	14.2*	32.085	S	69.979	W	33	N			1.1	9	MENDOZA PROVINCE, ARGENTINA
	08	21	39	45.4	52.127	N	169.442	W	33	N	4.9		1.1	73	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.4 (PMR).
	08	21	40	02.8	46.408	N	152.369	E	55	D	5.0		0.6	20	KURIL ISLANDS
	08	22	54	39.4*	29.863	N	50.377	E	33	N	4.2		1.3	10	SOUTHERN IRAN
	09	00	21	35.6?	16.56	N	61.79	W	115	?			0.3	8	LEEWARD ISLANDS
	09	00	33	04.0&	60.605	N	151.832	W	66					29	KENAI PENINSULA, ALASKA. <AGS-P>.
	09	02	29	26.6	28.225	N	88.163	E	79	D	5.5		1.0	265	TIBET. Felt strongly at Gangtok, India. Also felt at Ponchogarh, Bangladesh.
	09	02	38	51.5?	45.73	N	13.21	E	10	G			1.4	5	NORTHERN ITALY
	09	03	36	15.2*	21.987	S	68.614	W	33	N			1.4	6	CHILE-BOLIVIA BORDER REGION
	09	04	18	55.1	11.108	N	139.838	E	45	*	4.9	4.4	1.4	36	WEST CAROLINE ISLANDS
	09	04	41	21.4	36.132	N	27.175	E	10	G			1.1	7	DODECANESE ISLANDS. MD 3.5 (ATH).
a	09	04	58	39.1	51.963	N	169.383	W	33	N	5.4	5.3	1.1	257	FOX ISLANDS, ALEUTIAN ISLANDS. ML 5.2 (PMR). Ms 5.4 (BRK). Mo=8.0*10**17 Nm (PPT).
	09	05	29	51.1%	39.898	N	113.894	E	10	G			1.3	5	NORTHEASTERN CHINA
	09	05	29	51.2?	53.32	N	170.32	W	33	N	4.6		0.7	9	FOX ISLANDS, ALEUTIAN ISLANDS
	09	05	47	12.6*	41.161	N	20.047	E	10	G			0.4	5	ALBANIA. ML 2.3 (SKO).
	09	06	01	25.5	39.281	N	0.843	W	10	G			0.7	9	SPAIN. mbLg 3.1 (MDD). Felt (V) at Millares.
	09	06	35	04.1	30.804	N	103.252	E	33	N	4.3		0.8	9	SICHUAN PROVINCE, CHINA
	09	08	30	29.5*	53.102	S	160.038	E	10	G	4.7	4.6	1.5	10	MACQUARIE ISLANDS REGION
	09	09	39	00.0?	32.54	S	71.36	W	33	N			1.2	8	NEAR COAST OF CENTRAL CHILE
	09	10	20	51.9	33.810	S	69.966	W	10	G			0.2	7	CHILE-ARGENTINA BORDER REGION
	09	10	28	21.0	43.164	N	0.399	W	10	G			0.9	16	PYRENEES. ML 3.3 (LDG). mbLg 3.3 (MDD). Felt (IV) at Arudy, France. Also felt in the Ossau Valley, France.
	09	10	49	00.9%	43.086	N	0.605	W	10	G			0.5	5	PYRENEES. MD 1.8 (STR).
	09	12	09	57.5%	40.278	N	23.136	E	10	G			0.5	5	GREECE
	09	12	23	28.9	40.517	N	21.877	E	10	G			1.1	8	GREECE. ML 2.9 (THE).
	09	12	28	28.5	36.723	N	21.524	E	21				1.0	22	SOUTHERN GREECE. MD 3.6 (ATH).
	09	12	53	14.1?	0.73	S	133.32	E	33	N	4.2		1.3	8	WEST IRIAN REGION
	09	13	57	55.6*	50.134	N	5.364	E	10	G			1.0	11	BELGIUM. ML 2.7 (LDG).
	09	14	09	24.7*	22.451	S	173.642	E	33	N	4.8		0.5	7	LOYALTY ISLANDS REGION
a	09	14	42	58.2	21.738	S	179.396	W	604		5.4		0.9	121	FIJI ISLANDS REGION
o	09	15	35	49.0	11.591	N	95.017	E	33	N	5.2	5.3	1.1	163	ANDAMAN ISLANDS REGION. Felt in the Ranong area, Thailand.
	09	16	17	26.0%	31.346	S	68.828	W	33	N			1.4	5	SAN JUAN PROVINCE, ARGENTINA
	09	18	31	43.2?	10.04	S	123.93	E	33	N	3.9		1.5	6	TIMOR
	09	18	43	54.4	19.876	S	168.033	E	34	D	4.5	5.0	0.8	32	VANUATU ISLANDS
f	09	18	51	29.2	24.753	N	95.241	E	119	G	6.1		1.1	442	BURMA Felt strongly at Kohimo, Gauhati and Silchar, India. Also felt at Bolurghat, India. Felt strongly at Dacca, Bangladesh. Also felt at Chittagong and Rangpur, Bangladesh Two events about 2.8 seconds apart. Depth from broadband displacement seismograms, based on first event. Depth of second event was 120.0 kilometers.
	09	19	09	45.9*	18.070	N	64.754	W	33	N	5.0		1.4	10	VIRGIN ISLANDS. Felt on St. Thomas.
	09	19	20	58.5	56.645	N	4.341	W	10	G			0.5	11	UNITED KINGDOM. ML 2.5 (BGS). Felt (IV) in the Glen Lyon-Loch Rannoch area.
	09	20	43	14.7?	17.41	N	100.91	W	33	N			0.6	5	GUERRERO, MEXICO
	09	22	01	57.1&	59.927	N	151.264	W	44					23	KENAI PENINSULA, ALASKA. <AGS-P>.
	09	23	29	23.6%	42.791	N	12.654	E	10	G			0.9	6	CENTRAL ITALY
	09	23	45	19.2%	26.453	S	27.383	E	5	G			0.9	7	REPUBLIC OF SOUTH AFRICA
	10	01	26	50.4?	17.79	S	178.69	W	590	?	4.6		1.0	21	FIJI ISLANDS REGION
	10	02	03	22.8&	61.492	N	151.170	W	63					24	SOUTHERN ALASKA. <AGS-P>.
	10	02	17	38.0%	41.950	N	14.045	E	10	G			0.6	7	SOUTHERN ITALY
	10	02	45	40.3*	11.218	N	94.903	E	33	N			0.8	8	ANDAMAN ISLANDS REGION
	10	02	57	50.5	5.650	N	75.784	W	62		5	0	1 2	94	COLOMBIA. Felt at Manizales.
a	10	03	09	18.8	39.646	N	143.288	E	34	D	5.3		1 1	176	OFF EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at

													Morioka; (I JMA) at Aomori, Hachinohe, Miyako, Akito, Sokoto, and Utsunomiya.
a	10	03	11	17.6	39.706	N	143.306	E	37	5.7	5.5	1.1	175	OFF EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Morioka and Akita; (I JMA) at Sendai, Aomori and Miyako.
	10	03	40	47.5	61.841	N	151.038	W	71 ?			0.4	9	SOUTHERN ALASKA. Felt (II) at Palmer.
	10	03	45	45.7?	17.11	S	72.33	W	33 N			0.7	5	NEAR COAST OF PERU
	10	03	51	36.6?	15.31	N	103.28	W	33 N			1.2	7	OFF COAST OF GUERRERO, MEXICO
	10	04	36	12.2?	17.05	N	101.60	W	33 N			1.4	5	NEAR COAST OF GUERRERO, MEXICO
	10	05	18	31.2?	32.14	S	14.10	W	10 G	4.4		0.6	9	SOUTH ATLANTIC RIDGE
	10	05	38	25.6	36.078	N	27.130	E	40	4.5		1.4	104	DODECANESE ISLANDS. MD 4.5 (ATH).
	10	06	11	06.1	22.466	N	94.552	E	123 *	4.8		0.9	18	BURMA
	10	06	37	25.2	36.189	N	27.293	E	10 G			1.3	8	DODECANESE ISLANDS. MD 3.8 (ATH).
	10	06	37	54.8	24.516	N	94.682	E	87 D	5.2		1.0	171	BURMA-INDIA BORDER REGION
	10	07	41	08.1*	13.139	S	172.612	W	33 N	4.8		0.8	17	SAMOA ISLANDS
	10	07	50	43.8	39.279	N	28.297	E	10 G			1.1	15	TURKEY. MD 3.7 (ATH).
	10	08	02	11.9	30.996	S	69.118	W	29			1.1	14	CHILE-ARGENTINA BORDER REGION
	10	09	46	18.7*	36.092	N	27.235	E	10 G			1.3	6	DODECANESE ISLANDS. MD 3.4 (ATH).
	10	10	04	15.1	39.280	N	28.218	E	10 G			0.9	29	TURKEY. MD 3.7 (ATH).
a	10	10	06	01.5*	52.192	S	13.514	E	10 G	5.5	5.0	1.2	38	SOUTHWEST OF AFRICA
	10	10	09	35.3	39.307	N	28.158	E	10 G			0.8	8	TURKEY
	10	10	14	52.6%	43.528	N	12.458	E	10 G			0.7	6	CENTRAL ITALY
	10	10	21	21.1*	24.616	S	175.337	W	77 D	5.0		0.8	46	SOUTH OF TONGA ISLANDS
	10	11	15	57.2*	33.127	N	47.153	E	33 N	4.4		0.7	6	WESTERN IRAN
a	10	11	53	21.6	11.654	N	95.143	E	33 N	5.3	5.4	1.1	141	ANDAMAN ISLANDS REGION
	10	12	32	54.9?	44.15	N	7.47	E	10 G			0.5	7	NORTHERN ITALY. ML 2.4 (LDG).
	10	12	44	19.1&	55.619	N	160.898	W	114				28	ALASKA PENINSULA. <PAL>.
	10	12	52	06.7*	36.014	N	27.203	E	33 N			1.5	5	DODECANESE ISLANDS
	10	13	04	00.3*	36.039	N	27.378	E	33 N			1.4	9	DODECANESE ISLANDS. MD 3.8 (ATH).
a	10	13	10	12.3	52.117	N	169.236	W	33 N	5.6	5.3	1.2	236	FOX ISLANDS, ALEUTIAN ISLANDS
	10	13	33	48.8?	16.84	S	74.83	W	33 N	4.8		1.5	8	NEAR COAST OF PERU
	10	13	38	11.3	40.096	N	20.027	E	5 G			1.2	6	GREECE-ALBANIA BORDER REGION
	10	14	13	20.4	44.532	N	7.282	E	16			0.8	22	NORTHERN ITALY. ML 2.7 (GEN), 3.0 (LDG).
	10	14	49	06.1?	31.37	S	69.31	W	33 N			1.0	5	SAN JUAN PROVINCE, ARGENTINA
	10	15	33	50.4*	36.066	N	27.439	E	10 G			1.7	6	DODECANESE ISLANDS
	10	16	07	06.4&	37.012	N	121.780	W	8 G				8	CENTRAL CALIFORNIA. <BRK>. ML 2.1 (BRK). Felt in the Uvas Canyon County Park area.
a	10	16	11	46.7	10.073	S	123.819	E	33 D	5.6	4.9	1.2	192	TIMOR
	10	17	37	34.8%	43.605	N	12.452	E	10 G			1.1	7	CENTRAL ITALY
	10	17	40	17.4*	51.116	N	16.002	E	10 G			0.8	7	POLAND. ML 3.7 (VKA), 3.4 (KBA), 2.8 (KRA).
	10	18	25	08.9	31.329	S	68.698	W	117 *			1.0	16	SAN JUAN PROVINCE, ARGENTINA
	10	18	28	51.6	10.439	S	124.203	E	77 ?	5.0		1.5	27	TIMOR
	10	21	14	46.5	44.489	N	114.159	W	5 G			0.7	9	WESTERN IDAHO. ML 3.7 (BUT).
	10	21	20	48.0	44.481	N	10.045	E	10 G			0.6	6	NORTHERN ITALY
	10	21	59	09.0?	20.86	S	70.97	W	10 G			1.0	5	NEAR COAST OF NORTHERN CHILE. Felt (III) in the Antofagasta area.
	10	22	35	24.2&	60.969	N	150.315	W	56	3.5			34	KENAI PENINSULA, ALASKA. <AGS-P>. Felt (II) at Anchorage and Palmer.
	10	23	01	21.9	26.559	N	86.663	E	69 *	4.7		1.4	24	NEPAL-INDIA BORDER REGION
	10	23	51	24.5*	36.132	N	27.225	E	10 G			1.5	6	DODECANESE ISLANDS. MD 3.2 (ATH).
	10	23	59	49.9&	60.386	N	146.811	W	22				21	SOUTHERN ALASKA. <AGS-P>.
	11	01	22	10.3&	35.220	N	118.220	W	4				24	CENTRAL CALIFORNIA. <PAS-P>. ML 3.5 (PAS), 4.1 (BRK). Felt (II) at Frazier Park.
	11	01	56	50.9*	36.138	N	27.183	E	10 G			1.5	6	DODECANESE ISLANDS. MD 3.5 (ATH).
	11	02	09	51.0*	25.766	N	125.263	E	150 *	4.4		1.0	35	SOUTHWESTERN RYUKYU ISLANDS
	11	02	59	04.2	36.121	N	27.214	E	5 G			1.4	7	DODECANESE ISLANDS. MD 3.5 (ATH).
	11	03	17	16.8%	39.971	N	31.372	E	10 G			1.1	5	TURKEY
	11	03	53	51.8*	38.155	N	27.454	E	10 G			1.6	9	TURKEY
	11	04	13	49.5?	17.43	S	178.95	W	553 *	5.0		0.7	18	FIJI ISLANDS REGION
	11	05	31	41.7?	45.19	N	14.85	E	10 G			1.6	7	YUGOSLAVIA. MD 3.0 (LJU), 2.6 (TRI). Felt (IV) at Senj.
	11	05	31	48.7*	33.326	S	72.292	W	10 G			1.4	13	OFF COAST OF CENTRAL CHILE
	11	05	32	30.0*	36.407	N	27.576	E	10 G			1.4	6	DODECANESE ISLANDS. MD 3.2 (ATH).
	11	06	49	37.9?	25.90	S	174.08	W	33 N	5.0		1.5	8	SOUTH OF TONGA ISLANDS
	11	07	00	36.5	44.989	N	7.619	E	10 G			0.9	34	NORTHERN ITALY
	11	07	35	47.5?	52.80	N	169.83	W	33 N	4.4		0.6	7	FOX ISLANDS, ALEUTIAN ISLANDS
	11	08	35	46.1&	39.400	N	123.277	W	7				15	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.0 (BRK). Felt (IV) at Redwood Valley and Willits; (III) at Fort Bragg and Potter Valley.
	11	08	50	35.7?	39.13	N	27.59	E	10 G			0.9	4	TURKEY
	11	09	29	47.6&	61.718	N	150.446	W	46				23	SOUTHERN ALASKA. <AGS-P>.
	11	09	51	55.5?	39.10	N	27.74	E	10 G			0.2	4	TURKEY
	11	09	58	13.5?	39 25	N	27.86	E	10 G			1.0	4	TURKEY
	11	11	10	51.2	35.066	N	135.951	E	26	4.8	3.7	1.1	47	SOUTHERN HONSHU, JAPAN. Felt (IV JMA) at Naro, (III JMA) at Kyoto and Mie and (II JMA) at Gifu, Kobe, Nagoya and Osoko.
	11	11	14	43.2	25 047	N	95.364	E	142 *	4.7		1.3	34	BURMA-INDIA BORDER REGION
	11	11	22	08.6?	32.72	S	71.53	W	33 N			0.7	5	NEAR COAST OF CENTRAL CHILE
	11	13	31	31.2	16.759	N	85.833	W	10 G	4.6		1.2	49	CARIBBEAN SEA
	11	13	40	22.0	43.855	N	12.085	E	14			1.0	14	CENTRAL ITALY. MD 3.2 (FIR).
	11	14	19	29.1&	60.141	N	152.501	W	95				35	SOUTHERN ALASKA. <AGS-P>.
	11	16	04	07.7	23.563	S	69.131	W	88 *	4.7		1.3	44	NORTHERN CHILE
	11	16	42	11.7*	39.970	N	24.420	E	10 G			1.4	11	AEGEAN SEA. ML 2.7 (THE).
	11	17	05	28.0*	37 606	N	20.697	E	10 G			1.1	12	IONIAN SEA. ML 3.0 (THE). MD 3.4 (ATH).
	11	18	05	55.4*	56.484	N	152.719	W	33 N	4.6		1.3	22	KODIAK ISLAND REGION. ML 4.1 (PMR).
	11	18	23	10.9*	37.132	N	29.488	E	10 G			1.4	6	TURKEY
	11	18	57	03.5*	51 674	N	16.343	E	10 G			1 2	11	POLAND. ML 3.8 (VKA), 3.7 (KBA).
	11	19	22	48.2?	40.79	S	78.24	E	10 G	4.8	5.2	1.5	11	MID-INDIAN RISE
	11	19	39	00.7	36.523	N	26.469	E	159 *	4.0		1.1	26	DODECANESE ISLANDS
	11	20	08	18.3?	51.80	N	16.78	E	33 N	3.6		0.7	7	POLAND. ML 3.3 (VKA).
	11	20	23	51.3	5.166	S	150.982	E	188 D	5.1		0.7	95	NEW BRITAIN REGION
	11	20	37	21.9	36.138	N	27.169	E	10 G	4.0		1 1	13	DODECANESE ISLANDS
	11	21	14	57.8	35.786	N	80.757	E	10 G	5.3	4.9	1 4	110	KASHMIR-TIBET BORDER REGION
	11	21	23	35.6*	5.006	S	102.429	E	33 N	4.8		1.6	11	SOUTHERN SUMATERA

	11	21	25	30.7?	32.63	S	71.40	W	29	*			0.7	7	NEAR COAST OF CENTRAL CHILE
	11	22	20	42.5*	57.328	N	36.544	W	10	G	4.5		0.9	17	NORTH ATLANTIC OCEAN
	11	23	08	57.9&	35.230	N	118.220	W	3					24	CENTRAL CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
	11	23	26	41.4&	59.613	N	153.609	W	118					14	SOUTHERN ALASKA. <AGS-P>.
	12	00	54	57.8	36.095	N	27.156	E	10	G			1.4	13	DODECANESE ISLANDS
	12	02	19	52.2*	37.174	N	4.035	W	33	N			1.1	5	SPAIN
	12	02	33	38.6	36.063	N	27.194	E	10	G			1.3	7	DODECANESE ISLANDS
a	12	03	24	59.0	12.672	N	87.489	W	86	D	5.3		1.2	92	NEAR COAST OF NICARAGUA. Felt strongly in the Managua area. Also felt (III) at San Salvador, El Salvador.
	12	03	25	26.2	38.828	N	26.304	E	10	G			0.9	23	AEGEAN SEA
	12	04	29	36.4%	42.972	N	13.265	E	10	G			0.2	5	CENTRAL ITALY
	12	04	54	48.2%	43.065	N	0.667	W	10	G			0.1	9	PYRENEES. MD 1.0 (STR).
	12	05	00	38.6	37.067	N	3.891	W	10	G			1.3	11	SPAIN. mbLg 3.2 (MDD). Felt (IV) at Chimeneas.
	12	06	14	41.9?	44.39	N	15.42	E	10	G			0.5	4	YUGOSLAVIA. MD 2.6 (TRI).
	12	06	56	38.4	79.068	N	2.241	E	10	G	4.7		1.0	42	GREENLAND SEA
	12	07	07	59.5*	35.267	N	26.228	E	10	G			1.2	7	CRETE. MD 3.8 (ATH).
	12	07	18	21.3?	33.08	S	72.18	W	10	G			0.4	8	OFF COAST OF CENTRAL CHILE
	12	08	27	00.5	36.132	N	27.229	E	10	G			1.0	11	DODECANESE ISLANDS. MD 3.8 (ATH).
	12	08	55	42.8	36.164	N	27.063	E	10	G			1.5	9	DODECANESE ISLANDS. MD 3.8 (ATH).
	12	09	07	26.1?	8.39	N	126.62	E	33	N	4.6		1.3	6	MINDANAO, PHILIPPINE ISLANDS
	12	09	10	23.1&	36.405	N	120.788	W	14		3.9			29	CENTRAL CALIFORNIA. <BRK>. ML 4.2 (BRK). Mo=4.5*10**15 Nm (BRK). Felt (III) at Aromas, Carmel Valley and Dos Palos.
	12	09	50	57.4?	23.08	S	131.12	E	10	G			0.4	4	NORTHERN TERRITORY, AUSTRALIA
	12	10	22	17.6	50.465	N	6.011	E	10	G			0.2	6	GERMANY. ML 2.1 (UCC).
	12	10	32	10.8	39.630	N	22.939	E	10	G			1.0	10	GREECE. ML 2.6 (THE).
	12	10	42	05.0?	36.04	N	27.24	E	10	G			0.5	4	DODECANESE ISLANDS. MD 3.6 (ATH).
	12	11	17	45.9*	52.952	N	169.760	W	33	N	4.8		1.2	45	FOX ISLANDS, ALEUTIAN ISLANDS
	12	13	21	30.2	8.486	N	72.637	W	198	?	4.4		1.1	26	VENEZUELA
o	12	15	28	14.7	4.979	N	126.508	E	62	*	5.4		1.1	97	TALAUD ISLANDS
	12	16	02	02.6*	36.069	N	27.307	E	33	N			0.1	5	DODECANESE ISLANDS. MD 3.6 (ATH).
	12	16	25	30.1?	43.84	N	8.71	E	10	G			0.1	7	CORSICA. ML 2.0 (GEN).
	12	18	21	34.6	22.228	S	69.916	W	42	D	5.0		0.9	30	NORTHERN CHILE. Felt (V) in the Tocopilla area.
	12	18	51	12.2*	32.386	S	179.707	W	83	*	5.0		1.3	10	SOUTH OF KERMADEC ISLANDS
	12	19	50	56.5&	36.340	N	120.370	W	6					19	CENTRAL CALIFORNIA. <BRK>. ML 3.0 (BRK), 3.2 (PAS).
	12	20	10	01.9*	42.299	N	15.535	E	10	G			1.2	5	ADRIATIC SEA
	12	22	17	05.9	53.896	N	131.424	W	10	G	5.3	4.2	1.1	161	QUEEN CHARLOTTE ISLANDS REGION. Felt (IV) at Masset, Port Clements, Juskatla, Tlell, Prince Rupert and on Banilla Island, British Columbia. Also felt (IV) at Ketchikan and Metlakatla, Alaska. Also felt at Kitimat, Lownhill, Sandspit, Skidegate, Smithers and Terrace, British Columbia.
	12	22	48	15.5	53.831	N	131.400	W	10	G	4.2		1.4	22	QUEEN CHARLOTTE ISLANDS REGION. Felt at Prince Rupert, British Columbia. Also felt in the northern part of Graham Island.
	12	23	12	44.6	31.510	S	69.547	W	146	*			0.6	15	SAN JUAN PROVINCE, ARGENTINA
	12	23	33	05.3*	64.989	N	149.243	W	10	G			0.9	5	CENTRAL ALASKA
	12	23	33	15.3?	52.33	N	169.28	W	33	N	4.5		0.9	9	FOX ISLANDS, ALEUTIAN ISLANDS
	13	00	23	15.2	44.268	N	15.271	E	10	G			1.0	16	YUGOSLAVIA. ML 2.9 (KBA), 2.8 (ZAG), 2.6 (LJU). MD 3.0 (TRI).
	13	01	18	29.7?	17.39	S	176.88	W	404	*	4.4		1.2	18	FIJI ISLANDS REGION
	13	01	25	36.0	43.642	N	10.244	E	10	G			0.7	11	CENTRAL ITALY. ML 2.5 (LDG).
a	13	02	07	26.8	16.826	N	99.509	W	28	D	5.3	5.0	1.1	116	NEAR COAST OF GUERRERO, MEXICO. Felt in the Acapulco area.
o	13	03	32	15.2	12.661	N	125.038	E	36	D	5.3	4.6	1.1	113	SAMAR, PHILIPPINE ISLANDS
	13	03	33	35.6	38.854	N	26.494	E	10	G			0.5	6	AEGEAN SEA. MD 3.1 (ATH).
	13	03	56	16.5	64.768	N	5.909	E	33	N			0.9	16	NORWEGIAN SEA. MD 3.2 (BER).
	13	04	02	22.5?	44.54	N	7.28	E	10	G			0.0	4	NORTHERN ITALY. ML 1.7 (GEN).
	13	04	39	43.6*	40.018	N	122.514	W	10	G			1.5	8	NORTHERN CALIFORNIA. ML 2.7 (BRK).
	13	05	05	59.4	36.107	N	27.188	E	43		4.6	3.9	1.3	132	DODECANESE ISLANDS. MD 4.7 (ATH).
	13	05	11	09.1	35.981	N	27.188	E	10	G			0.9	10	DODECANESE ISLANDS. MD 3.9 (ATH).
	13	05	19	00.3%	36.051	N	27.161	E	10	G			1.0	8	DODECANESE ISLANDS
	13	05	47	33.5*	30.222	N	114.440	W	10	G	4.6		1.3	18	GULF OF CALIFORNIA
	13	05	52	48.5&	62.328	N	151.188	W	85					25	CENTRAL ALASKA. <AGS-P>.
	13	06	27	42.4%	36.912	N	4.854	W	10	G			0.7	7	STRAIT OF GIBRALTAR. mbLg 2.7 (MDD).
	13	06	55	07.2	45.667	N	26.428	E	161		4.0		1.4	26	ROMANIA
	13	07	04	14.2	36.115	N	27.174	E	10	G			0.5	7	DODECANESE ISLANDS. MD 3.8 (ATH).
	13	07	11	43.3%	40.500	N	28.144	E	10	G			0.5	5	TURKEY
	13	07	43	47.2	36.131	N	27.170	E	10	G			1.2	13	DODECANESE ISLANDS. ML 4.0 (ATH).
	13	08	16	26.9	36.105	N	27.239	E	10	G			0.9	7	DODECANESE ISLANDS. MD 3.2 (ATH).
	13	08	33	08.0%	39.061	N	27.621	E	10	G			0.8	5	TURKEY
	13	08	46	34.9	36.039	N	27.157	E	10	G			0.8	7	DODECANESE ISLANDS. MD 3.3 (ATH).
	13	09	59	05.5%	39.145	N	27.617	E	10	G			0.6	5	TURKEY
	13	09	59	36.7	44.934	N	8.972	E	10	G			1.2	16	NORTHERN ITALY. ML 2.4 (GEN).
	13	10	22	13.4	36.149	N	27.187	E	10	G			1.2	12	DODECANESE ISLANDS. ML 4.0 (ATH).
	13	10	26	29.9	36.081	N	27.165	E	30		4.5		1.3	34	DODECANESE ISLANDS. ML 4.2 (CSS). MD 4.3 (ATH).
	13	10	33	32.3	36.064	N	27.244	E	10	G			1.1	11	DODECANESE ISLANDS. MD 3.8 (ATH).
	13	11	10	09.3%	43.696	N	12.037	E	10	G			0.8	5	CENTRAL ITALY
	13	11	15	44.5	15.781	N	147.215	E	40	*	5.0		1.0	72	MARIANA ISLANDS REGION
	13	11	16	54.8*	39.346	N	119.753	W	5	G			1.4	8	NEVADA. ML 2.8 (BRK).
	13	11	37	39.1	36.072	N	27.200	E	10	G			0.5	7	DODECANESE ISLANDS. MD 3.5 (ATH).
	13	11	49	30.4	36.104	N	27.193	E	10	G			0.9	8	DODECANESE ISLANDS. MD 3.4 (ATH).
	13	11	56	13.2	36.080	N	27.145	E	10	G			1.2	12	DODECANESE ISLANDS. MD 3.8 (ATH).
	13	12	58	12.4	36.165	N	27.123	E	10	G			1.3	11	DODECANESE ISLANDS. MD 4.0 (ATH).
	13	13	40	22.7?	37.04	N	27.77	E	10	G			1.6	6	TURKEY
	13	13	44	01.0?	45.14	N	18.20	E	10	G			1.4	6	YUGOSLAVIA. ML 2.7 (ZAG), 2.4 (KBA).
	13	13	46	09.7	36.168	N	27.208	E	10	G			0.7	8	DODECANESE ISLANDS
	13	14	03	15.3	36.095	N	27.121	E	10	G			1.3	13	DODECANESE ISLANDS. ML 4.0 (ATH).
	13	14	13	42.6*	22.082	S	170.399	E	28	D	4.9	4.4	1.2	38	LOYALTY ISLANDS REGION
	13	14	30	04.1?	30.83	S	117.75	E	10	G			0.2	4	WESTERN AUSTRALIA
	13	15	06	19.4*	4.646	N	125.128	E	216	?	5.0		1.2	21	TALAUD ISLANDS
	13	17	02	06.0*	18.262	S	175.963	W	272	D	5.2		1.3	46	TONGA ISLANDS
	13	17	17	38.4*	21.967	S	170.169	E	33	N	4.7	4.2	1.5	53	LOYALTY ISLANDS REGION

	13	18 31 06.0*	18.033	N	100.306	W	10	G			1.0	8	GUERRERO, MEXICO
	13	18 31 16.6	15.789	N	147.213	E	48	*	5.1	4.1	1.2	64	MARIANA ISLANDS REGION
	13	18 55 46.6%	16.053	N	61.049	W	10	G			0.5	5	LEEWARD ISLANDS. ML 2.4 (FDF).
	13	19 11 47.2?	7.50	N	94.17	E	33	N	4.1		1.1	7	NICOBAR ISLANDS REGION
	13	19 20 07.0*	17.617	S	167.700	E	22	D	4.9	4.1	1.5	63	VANUATU ISLANDS
a	13	20 03 41.9	10.171	S	117.826	E	36	D	5.2	4.8	1.4	102	SOUTH OF SUMBAWA ISLAND
	13	20 05 10.3	27.602	N	115.091	W	10	G	5.1		1.2	79	OFF W. COAST OF BAJA CALIFORNIA
	13	20 15 58.7	44.197	N	7.495	E	10	G			0.3	10	NORTHERN ITALY. ML 1.7 (GEN).
a	13	20 18 17.7	10.812	S	166.008	E	47	D	4.9		1.2	38	SANTA CRUZ ISLANDS
	13	20 47 55.3*	39.425	N	76.881	W	5	G			0.9	9	CHESAPEAKE BAY REGION. mbLg 2.5 (NEIS). MD 2.6 (NED). Felt (V) at Randallstown; (IV) at Eldersburg, Ellicott City, Granite and Woodstock; (III) at Owings Mills, Maryland.
	13	20 56 57.2	36.082	N	27.158	E	10	G	4.1		1.5	30	DODECANESE ISLANDS. ML 4.3 (CSS), 4.0 (ATH).
	13	21 12 48.9%	39.018	N	27.759	E	10	G			0.7	6	TURKEY
	13	21 53 31.6*	0.272	N	122.017	E	193	?	5.3		1.1	17	MINAHASSA PENINSULA
	13	22 13 54.0%	43.080	N	0.458	W	10	G			0.1	5	PYRENEES. MD 1.0 (STR).
	13	22 18 02.0	32.835	S	70.117	W	123	?			0.7	15	CHILE-ARGENTINA BORDER REGION
	13	22 40 21.8*	6.960	S	147.386	E	33	N	4.2		0.6	6	EAST PAPUA NEW GUINEA REGION. ML 4.6 (PMG).
	13	22 48 06.9	36.073	N	27.303	E	10	G	4.7		1.6	19	DODECANESE ISLANDS. ML 4.0 (CSS), 4.0 (ATH).
	13	23 08 27.2	35.992	N	27.178	E	10	G	4.5		1.2	14	DODECANESE ISLANDS. ML 4.1 (ATH).
	13	23 49 14.3*	10.488	S	124.052	E	33	N	4.2		1.5	9	TIMOR
	13	23 51 06.2	36.065	N	27.058	E	10	G			0.8	9	DODECANESE ISLANDS. MD 3.7 (ATH).
	14	00 09 06.8	36.039	N	27.187	E	10	G			1.5	9	DODECANESE ISLANDS. MD 3.7 (ATH).
	14	00 25 32.0*	6.316	N	74.248	W	238	*	4.5		1.1	9	NORTHERN COLOMBIA
	14	00 28 26.8	36.076	N	27.134	E	10	G			1.0	10	DODECANESE ISLANDS. MD 3.6 (ATH).
	14	01 19 14.1?	21.29	S	169.93	E	80	?	4.9		1.4	27	LOYALTY ISLANDS REGION
	14	01 38 49.9	36.056	N	27.152	E	24		4.5		1.3	33	DODECANESE ISLANDS. ML 4.4 (CSS), 4.0 (ATH).
	14	01 40 27.4%	43.567	N	12.306	E	10	G			0.8	5	CENTRAL ITALY
	14	01 43 49.4?	29.06	N	130.82	E	33	N	4.7		1.6	6	RYUKYU ISLANDS
	14	02 00 20.3*	4.857	S	152.450	E	83	*	4.9		1.2	19	NEW BRITAIN REGION
	14	02 29 23.9	36.127	N	27.102	E	28		4.2		1.3	65	DODECANESE ISLANDS. ML 4.4 (CSS), 4.1 (ATH).
	14	02 32 12.9	36.112	N	27.103	E	10	G	4.1		1.4	16	DODECANESE ISLANDS. ML 4.0 (ATH).
f	14	03 03 19.2	37.819	N	91.971	E	12	G	6.1	6.1	1.1	437	QINGHAI PROVINCE, CHINA. Ms 6.1 (PAS), 6.0 (BRK). Slight damage in the Mangyai-Lenghu area. Depth from broadband displacement seismograms.
	14	03 07 05.2?	42.59	N	129.59	W	10	G			0.2	33	OFF COAST OF OREGON
	14	03 09 41.4	36.151	N	27.171	E	10	G			1.3	17	DODECANESE ISLANDS. ML 4.0 (ATH).
	14	03 33 12.9	45.352	N	150.930	E	33	N	5.5		1.0	228	KURIL ISLANDS
	14	03 34 59.7	44.811	N	6.730	E	10	G			0.6	19	FRANCE. ML 2.7 (LDG), 2.6 (GEN).
	14	03 38 04.6	45.345	N	150.913	E	48	D	5.7	5.7	1.0	301	KURIL ISLANDS
	14	03 47 02.1	35.927	N	27.223	E	10	G			1.4	7	DODECANESE ISLANDS
	14	03 52 46.7	45.310	N	151.021	E	33	N	5.0		0.9	72	KURIL ISLANDS
	14	04 04 49.2*	45.356	N	150.920	E	33	N	4.2		1.2	8	KURIL ISLANDS
	14	04 23 16.3	36.014	N	27.170	E	10	G			1.0	7	DODECANESE ISLANDS. MD 3.6 (ATH).
	14	04 27 10.6?	1.63	N	127.00	E	115	?	4.8		1.2	15	MOLUCCA PASSAGE
	14	04 28 24.0?	45.63	N	150.45	E	33	N	4.5		1.3	7	KURIL ISLANDS
	14	04 42 02.6*	19.059	S	69.790	W	33	N			0.8	5	NORTHERN CHILE
	14	04 57 00.5*	45.236	N	151.081	E	33	N	4.6		1.3	18	KURIL ISLANDS
	14	05 11 01.3*	36.057	N	27.092	E	10	G			1.6	6	DODECANESE ISLANDS
	14	05 12 55.1	36.154	N	27.212	E	10	G			0.6	13	DODECANESE ISLANDS. MD 3.8 (ATH).
	14	05 37 28.9	37.452	N	26.943	E	10	G			1.2	23	DODECANESE ISLANDS. MD 3.8 (ATH).
	14	05 40 37.5?	5.35	N	126.46	E	33	N	5.0		0.9	11	MINDANAO, PHILIPPINE ISLANDS
	14	06 12 32.1	36.174	N	27.126	E	10	G			1.0	16	DODECANESE ISLANDS. ML 4.1 (CSS). MD 3.9 (ATH).
	14	07 08 53.8*	8.208	S	108.818	E	89	?	5.0		1.1	19	JAVA
	14	07 20 11.3*	45.312	N	151.033	E	33	N	4.9		0.9	51	KURIL ISLANDS
	14	07 27 58.3	36.087	N	27.111	E	10	G			1.3	11	DODECANESE ISLANDS. MD 3.9 (ATH).
	14	07 43 38.0	39.545	N	22.183	E	10	G			0.7	12	GREECE. ML 2.8 (THE). MD 3.0 (ATH).
	14	08 22 03.4	36.075	N	27.225	E	10	G			1.4	12	DODECANESE ISLANDS. MD 3.8 (ATH).
	14	08 24 14.9*	36.143	N	27.223	E	10	G			1.7	6	DODECANESE ISLANDS
	14	08 44 51.5	36.118	N	27.149	E	10	G			1.2	10	DODECANESE ISLANDS. MD 3.7 (ATH).
	14	09 12 31.9	43.954	N	8.513	E	10	G			0.9	25	CORSICA. ML 2.8 (GEN), 2.5 (LDG).
	14	09 31 29.8*	29.906	S	177.205	W	33	N	4.9	4.3	1.6	22	KERMADEC ISLANDS. Felt on Raoul Island.
	14	09 41 49.0&	65.059	N	149.088	W	19					18	ALASKA. <AGS-P>.
	14	10 16 33.3%	39.097	N	27.548	E	10	G			1.1	5	TURKEY
	14	10 32 18.9*	45 278	N	151.050	E	33	N	4.8		0.9	42	KURIL ISLANDS
	14	12 28 02.0?	43.80	N	8 83	E	10	G			0.6	7	CORSICA. ML 2.3 (GEN).
	14	12 46 00.7	45 392	N	150.915	E	33	N	4.9	3.8	0.9	60	KURIL ISLANDS
	14	13 04 50.9*	20.065	S	69.545	W	106	*			0.7	7	NORTHERN CHILE
	14	13 47 26.4?	29.51	S	176.38	W	33	N	4.8		1.5	11	KERMADEC ISLANDS REGION
	14	14 38 37.6*	35 407	N	26.082	E	10	G			1.4	9	CRETE. MD 3.7 (ATH).
	14	15 10 11.2%	37.012	N	4.806	W	10	G			1.0	8	SPAIN. mbLg 2.7 (MDD).
	14	15 24 56.1	36.065	N	27 206	E	10	G			0.5	7	DODECANESE ISLANDS. MD 3.4 (ATH).
	14	15 53 15.5	45.734	N	10.580	E	10	G			0.4	8	NORTHERN ITALY
	14	16 53 35.3%	43 755	N	12.315	E	10	G			0.3	5	CENTRAL ITALY
	14	17 08 38.8	35.248	N	26.068	E	22		4.5		1.4	141	CRETE. ML 4.5 (THE). MD 4.5 (ATH). Felt at Ayios Nikolaos and Sitia.
	14	17 27 42.7	37.769	N	14.960	E	10	G			1.2	7	SICILY
	14	17 41 45.2	36.086	N	27.132	E	10	G			1.3	14	DODECANESE ISLANDS. MD 3.8 (ATH).
	14	17 52 11.6	62.561	N	151.223	W	105	?			0.5	12	CENTRAL ALASKA
	14	18 00 52.8*	55.758	N	156.509	W	33	N	4.7		1.0	24	SOUTH OF ALASKA. ML 4.4 (PMR).
	14	19 20 11.4	36.100	N	27.189	E	10	G			1.2	8	DODECANESE ISLANDS
a	14	21 04 03.2	29.709	S	177.467	W	58	*	5.5	6.0	1.3	208	KERMADEC ISLANDS. Ms 5.9 (BRK). Mo=2.0*10**18 Nm (PPT). Felt lightly on Raoul Island.
	14	21 10 30.2*	29.080	S	177.628	W	33	N	5.5	5.7	1.2	27	KERMADEC ISLANDS
	14	21 13 01.9?	45.68	N	1.16	E	10	G			0.9	5	FRANCE. ML 1.6 (LDG).
	14	21 13 24.3%	45.692	N	1.157	E	10	G			0.4	6	FRANCE. ML 2.1 (LDG).
	14	21 21 15.4*	66.933	N	156.514	W	5	G			1.1	9	ALASKA. ML 3.7 (PMR).
	14	21 25 50.4	36.089	N	27.156	E	10	G	4.4		1.5	23	DODECANESE ISLANDS. ML 4.2 (CSS), 4.1 (ATH).
	14	21 28 14.5	5.571	S	128.605	E	339		4.8		1.0	28	BANDA SEA
	14	21 31 25.1	36.029	N	27.162	E	10	G			1.2	14	DODECANESE ISLANDS. MD 3.9 (ATH).
	14	21 40 12.2*	21.348	N	146.098	E	33	N	4	6 5 1	1 2	21	MARIANA ISLANDS REGION
	14	22 19 50.3	43.223	N	29.870	E	10	G			1.3	11	BLACK SEA

	14	22 29 54.4	36.116	N	27.148	E	10	G			1.2	15	DODECANESE ISLANDS. ML 3.8 (ATH).
	14	22 32 40.7?	18.83	N	120.42	E	33	N	4.4		1.2	6	LUZON, PHILIPPINE ISLANDS
	15	00 29 02.1?	48.84	N	0.78	W	10	G			0.1	4	FRANCE. ML 2.6 (LDG).
	15	01 21 51.5	44.025	N	128.352	W	10	G	4.5	4.0	0.6	49	OFF COAST OF OREGON
	15	01 26 45.0	36.152	N	27.240	E	10	G			1.5	9	DODECANESE ISLANDS. MD 3.7 (ATH).
	15	03 19 44.7	30.688	N	103.317	E	22	*	4.8		1.1	48	SICHUAN PROVINCE, CHINA. ML 4.8 (BJI).
	15	04 13 31.8	36.065	N	27.133	E	10	G			1.1	8	DODECANESE ISLANDS. MD 3.6 (ATH).
	15	04 17 13.8*	31.691	S	69.298	W	140	?			0.8	11	SAN JUAN PROVINCE, ARGENTINA
	15	04 48 20.1	36.109	N	27.151	E	10	G			1.3	13	DODECANESE ISLANDS. MD 3.7 (ATH).
	15	04 56 51.7*	9.602	S	110.365	E	33	N	4.6	3.4	1.3	9	SOUTH OF JAVA
	15	05 29 03.4	37.988	N	118.210	W	5	G	4.4		1.1	60	CALIFORNIA-NEVADA BORDER REGION. ML 5.0 (BRK), 4.7 (PAS). Felt (IV) at Lee Vining and Mono City, California. Felt (III) at Benton, California.
	15	05 57 18.4	68.460	N	147.815	W	10	G			0.8	16	ALASKA. ML 3.3 (PMR).
	15	06 18 00.1*	48.784	S	122.324	E	10	G	4.6	4.0	1.1	14	SOUTH OF AUSTRALIA
	15	06 40 56.5?	79.73	N	3.20	E	33	N	3.6		1.5	6	GREENLAND SEA. MD 2.8 (BER).
	15	07 15 48.0	36.091	N	27.158	E	10	G			1.4	8	DODECANESE ISLANDS
	15	08 08 26.6	45.824	N	14.654	E	10	G			1.0	10	YUGOSLAVIA. ML 3.2 (LJU), 2.8 (KBA). Felt (V) in the Velike Lasce area.
	15	09 50 19.5?	4.24	S	127.05	E	10	G	4.5		1.5	8	BANDA SEA
	15	10 02 36.9&	58.912	N	152.698	W	66					19	KODIAK ISLAND REGION. <AGS-P>.
	15	10 12 20.3?	45.87	N	14.65	E	10	G			0.8	4	YUGOSLAVIA
	15	10 16 51.4	53.865	N	131.345	W	10	G	3.7		1.1	18	QUEEN CHARLOTTE ISLANDS REGION. Felt at Prince Rupert, British Columbia. Also felt in the northern part of Graham Island.
	15	10 41 48.4*	37.864	N	20.158	E	10	G			0.9	6	IONIAN SEA. MD 3.3 (ATH).
	15	10 45 00.8?	39.03	N	27.92	E	5	G			0.5	4	TURKEY
	15	11 08 04.8	10.092	N	126.385	E	45	D	5.1		1.4	46	PHILIPPINE ISLANDS REGION
	15	11 11 05.2	47.271	N	153.537	E	52	D	4.9		0.8	104	KURIL ISLANDS
	15	12 42 25.9	24.403	N	122.147	E	25	D	5.1		1.4	123	TAIWAN REGION. Felt (III JMA) at Ilan, Suao and Taipei; (II JMA) at Hsinchu and Hualien; (I JMA) at Keelung and Taichung.
	15	13 21 27.1*	11.311	S	118.587	E	33	N	4.1		1.4	14	SOUTH OF SUMBAWA ISLAND
	15	13 23 27.6?	42.58	N	126.12	W	10	G	4.3		1.3	11	OFF COAST OF OREGON
	15	16 00 10.6	44.854	N	114.047	W	5	G			0.6	10	WESTERN IDAHO. ML 3.0 (BUT).
	15	16 15 14.7&	59.891	N	140.417	W	16					11	SOUTHEASTERN ALASKA. <AGS-P>.
	15	16 31 55.4&	59.143	N	144.616	W	10	G	4.4			53	GULF OF ALASKA. <AGS-P>. ML 4.0 (PMR).
	15	17 20 39.9	37.635	N	22.900	E	10	G	4.0		0.9	44	SOUTHERN GREECE. ML 3.7 (ATH), 3.5 (THE).
	15	17 33 54.9&	65.935	N	150.437	W	88					11	ALASKA. <AGS-P>.
	15	18 41 56.1*	45.045	N	7.329	E	10	G			0.7	6	NORTHERN ITALY. ML 2.2 (GEN).
	15	19 02 48.2?	31.83	S	69.89	W	33	N			1.2	4	SAN JUAN PROVINCE, ARGENTINA
	15	19 07 00.0*	45.054	N	7.517	E	10	G			1.4	6	NORTHERN ITALY. ML 2.1 (GEN).
	15	19 18 06.2	14.972	S	166.804	E	33	N	4.9	4.4	1.2	95	VANUATU ISLANDS
	15	20 19 48.2	38.769	N	24.831	E	7				0.8	33	AEGEAN SEA. ML 3.3 (ATH), 3.2 (THE).
	15	20 49 33.3?	44.38	N	7.20	E	10	G			0.1	4	NORTHERN ITALY. ML 1.7 (GEN).
	15	21 24 19.6	36.093	N	27.261	E	10	G			1.5	7	DODECANESE ISLANDS. MD 3.3 (ATH).
	15	23 47 04.6?	35.03	S	70.84	W	111	?	4.0		1.2	10	CHILE-ARGENTINA BORDER REGION
	15	23 57 33.7	8.414	S	74.199	W	163	D	4.6		0.9	67	PERU-BRAZIL BORDER REGION
	16	00 51 01.1?	34.39	S	71.93	W	10	G			1.2	9	NEAR COAST OF CENTRAL CHILE
	16	01 41 10.1&	59.620	N	145.726	W	10	G	3.7			44	GULF OF ALASKA. <AGS-P>. ML 3.6 (PMR).
	16	02 43 50.8%	44.422	N	7.406	E	10	G			0.6	10	NORTHERN ITALY. ML 3.1 (GEN).
	16	02 51 57.2?	31.25	S	117.45	E	5	G			1.5	4	WESTERN AUSTRALIA
	16	03 32 19.8%	41.723	N	12.744	E	10	G			0.2	7	SOUTHERN ITALY
	16	04 01 46.0*	8.765	N	126.924	E	68	?	4.6		1.7	17	MINDANAO, PHILIPPINE ISLANDS
	16	04 30 03.0&	37.362	N	121.717	W	7					13	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
	16	05 58 27.2*	44.221	N	129.349	W	10	G	4.2		0.4	35	OFF COAST OF OREGON
	16	06 44 16.4&	60.996	N	151.228	W	62					24	KENAI PENINSULA, ALASKA. <AGS-P>.
	16	07 14 44.1	37.234	N	20.940	E	10	G	4.1		1.2	43	IONIAN SEA. ML 4.1 (THE), 3.9 (ATH).
	16	07 24 59.2?	46.51	N	14.78	E	10	G			1.0	4	YUGOSLAVIA. ML 2.1 (KBA). MD 2.3 (LJU).
	16	07 28 00.5?	44.41	N	6.45	E	33	N			0.8	7	FRANCE
a	16	07 36 31.6	31.664	S	178.085	W	23	D	5.4	5.5	1.2	109	KERMADEC ISLANDS REGION. Ms 5.8 (BRK).
a	16	07 56 33.4	31.725	S	177.996	W	33	N	5.4	5.5	1.1	81	KERMADEC ISLANDS REGION
	16	08 12 43.7*	51.303	N	15.587	E	10	G			0.9	9	POLAND. ML 4.1 (VKA), 3.9 (KBA).
	16	08 41 54.8	5.253	S	132.381	E	44	D	5.0	4.9	1.3	33	AROE ISLANDS REGION
	16	09 31 01.9?	43.69	N	10.35	E	10	G			0.3	4	CENTRAL ITALY
	16	10 15 13.5*	17.038	N	102.031	W	33	N	4.0		0.8	8	NEAR COAST OF MICHOACAN, MEXICO
	16	10 22 36.5*	35.458	N	26.865	E	33	N			1.6	7	CRETE
	16	10 34 24.4?	39.06	N	27.67	E	10	G			0.5	4	TURKEY
a	16	10 52 08.2	31.587	S	178.046	W	33	N	5.5	5.4	1.1	103	KERMADEC ISLANDS REGION
	16	11 41 45.7&	62.958	N	149.217	W	75					45	CENTRAL ALASKA. <AGS-P>.
	16	12 01 02.5&	37.070	N	121.943	W	13					11	CENTRAL CALIFORNIA. <BRK> ML 2.6 (BRK).
	16	12 03 45.4*	6.427	S	150.563	E	33	N	4.9		1.1	10	NEW BRITAIN REGION. ML 5.1 (PMG).
	16	12 25 58.1*	5 137	S	137.783	E	93	*	4.0		1.1	9	NEAR S. COAST OF WEST IRIAN
	16	12 41 01.3&	62.123	N	149.647	W	65					20	CENTRAL ALASKA. <AGS-P>.
a	16	12 57 20.7	43.560	N	127.402	W	10	G	4.8	4.9	1 1	104	OFF COAST OF OREGON. ML 5 1 (BRK).
	16	13 44 06.5?	51.49	N	16.40	E	10	G			0.9	5	POLAND
	16	14 11 20.3*	42.194	N	24.251	E	10	G			1.0	6	BULGARIA. ML 2.9 (THE).
	16	14 18 09.5	33.218	N	46.776	E	12	D	4.7		1.2	48	IRAN-IRAQ BORDER REGION. Felt in the Ilam area, Iran.
	16	15 11 33.5%	0.179	S	78.312	W	10	G			0.5	5	ECUADOR
	16	15 11 37.9?	34.56	N	31.17	E	33	N			1.6	7	CYPRUS. ML 3.1 (CSS).
	16	15 38 19.2%	39.225	N	29.153	E	10	G			1.1	7	TURKEY
	16	15 46 56.2%	39.209	N	29.122	E	10	G			1.0	8	TURKEY
	16	16 45 09.9?	5.20	S	154.11	E	408	?	4.6		1.0	8	SOLOMON ISLANDS
	16	18 01 51.9*	29.355	N	129.956	E	33	N	4.3		1.2	12	RYUKYU ISLANDS
	16	19 55 12.8?	5.20	S	147.25	E	220	?	4.9		1.5	6	EAST PAPUA NEW GUINEA REGION
a	16	20 08.22.0&	40.232	N	124.138	W	2	*	5.1	5.5		196	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 5.3 (BRK). Domoge (VII) at Honey Dew. Also slight damage (VI) at Redway, Weott and Whitethorn. Felt (V) at Eureka, Garberville, Leggett, Miranda, Myers Flat, Piercy, Redcrest, Rio Dell, Westport and Willits. Felt in Humboldt, Lake, Mendocino and Trinity Counties.
	16	21 07 56.4&	40.225	N	124.407	W	9					12	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.4 (BRK).
	17	01 20 26.0?	29.22	S	72.01	W	33	N			1.2	15	OFF COAST OF CENTRAL CHILE

	17	01	41	18.5%	38.995	N	16.399	E	10	G		0.4	7	SOUTHERN ITALY
	17	02	04	41.9?	32.34	S	178.01	W	33	N	4.7	1.4	8	SOUTH OF KERMADEC ISLANDS
	17	02	28	59.3*	34.028	N	26.242	E	33	N		1.4	8	CRETE
	17	02	37	08.8?	16.34	N	61.33	W	10	G		0.2	4	LEEWARD ISLANDS. ML 2.1 (FDF).
	17	02	43	51.3	44.417	N	7.516	E	10	G		1.0	25	NORTHERN ITALY. ML 2.8 (LDG).
	17	03	33	39.8?	32.65	S	178.68	W	33	N	4.8 4.1	1.4	7	SOUTH OF KERMADEC ISLANDS
	17	04	14	32.7?	51.47	N	16.08	E	10	G		0.7	9	POLAND. ML 3.4 (VKA).
	17	05	25	33.6%	43.134	N	1.001	W	10	G		0.1	5	PYRENEES. MD 1.0 (STR).
	17	05	29	16.2*	38.301	N	21.642	E	10	G		0.9	5	GREECE. MD 3.0 (ATH).
	17	06	38	05.7	31.673	S	116.995	E	7	D	5.2	1.2	45	WESTERN AUSTRALIA. ML 5.5 (MUN). Felt (VI) at Meckering. Also felt in the Perth area.
	17	07	23	01.9	64.349	N	148.396	W	33	N		1.4	10	CENTRAL ALASKA. ML 4.0 (PMR). Felt (III) at Healy.
	17	07	28	01.4%	44.405	N	6.354	E	10	G		0.6	5	FRANCE. ML 2.3 (LDG).
	17	07	41	15.0%	31.741	S	116.996	E	10	G		0.6	5	WESTERN AUSTRALIA
	17	07	52	51.4	36.052	N	27.091	E	36	*	4.3	1.4	43	DODECANESE ISLANDS. ML 4.4 (CSS), 4.3 (ATH).
	17	09	05	58.6*	9.928	N	126.576	E	33	N	4.9	1.3	15	MINDANAO, PHILIPPINE ISLANDS
	17	10	39	29.6%	1.081	S	78.303	W	10	G		0.3	6	ECUADOR
	17	10	42	14.1?	39.07	N	27.52	E	10	G		0.5	4	TURKEY
	17	11	10	16.5*	9.764	N	126.242	E	33	N	4.6	1.0	16	MINDANAO, PHILIPPINE ISLANDS
	17	11	23	31.2	37.560	N	21.117	E	10	G	4.3	1.0	57	SOUTHERN GREECE. ML 4.0 (THE), 4.0 (ATH).
	17	11	51	26.8?	39.86	N	28.80	E	10	G		0.4	4	TURKEY
	17	11	54	14.7?	38.66	N	23.66	E	10	G		0.1	4	GREECE. ML 2.6 (THE).
a	17	12	05	29.8	43.589	N	127.443	W	10	G	5.4 5.2	1.2	168	OFF COAST OF OREGON
	17	13	23	21.7&	55.874	N	160.886	W	164				5	ALASKA PENINSULA. <PAL>.
	17	13	26	24.1%	41.137	N	28.460	E	10	G		0.5	5	TURKEY
	17	13	35	42.9*	36.895	N	29.379	E	10	G		0.5	5	TURKEY
	17	14	27	45.8	40.213	N	23.904	E	10	G		0.7	10	GREECE. ML 2.5 (THE).
	17	15	39	28.8%	31.724	S	117.006	E	10	G		0.3	5	WESTERN AUSTRALIA
	17	16	11	14.4&	36.878	N	121.630	W	5				15	CENTRAL CALIFORNIA. <BRK>. ML 3.0 (BRK). Felt at Prunedale and San Juan Bautista.
	17	16	21	51.9	37.297	N	20.848	E	57		4.3	1.1	51	IONIAN SEA
	17	16	58	48.9	2.495	S	138.738	E	33	N	4.8 4.9	1.3	31	WEST IRIAN
	17	16	59	31.2*	20.887	S	67.679	W	33	N		1.7	7	SOUTHERN BOLIVIA
	17	17	17	19.9?	43.32	N	128.21	W	10	G		0.3	28	OFF COAST OF OREGON
	17	17	28	26.8?	32.04	S	177.67	W	33	N	4.9	1.5	9	SOUTH OF KERMADEC ISLANDS
	17	17	47	58.4&	62.344	N	147.695	W	68				21	CENTRAL ALASKA. <AGS-P>.
	17	18	18	34.3*	41.102	N	20.179	E	10	G		1.7	5	ALBANIA. ML 2.5 (SKO).
	17	19	19	08.4*	41.119	N	20.222	E	10	G		0.8	6	ALBANIA. ML 2.2 (SKO).
	17	21	08	40.9*	36.116	N	27.296	E	10	G		1.6	8	DODECANESE ISLANDS
	17	21	28	16.3	39.709	N	16.866	E	10	G		1.3	16	SOUTHERN ITALY
	17	22	12	04.5&	59.885	N	153.827	W	142				18	SOUTHERN ALASKA. <AGS-P>.
	17	23	27	18.0&	33.870	N	118.260	W	14				16	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS). Felt (V) at Compton; (IV) at Bellflower, Carson, Harbor City, Paramount and Wilmington; (III) at Artesia, Buena Park, Gardena, Hawthorne, Lakewood, Long Beach, Las Alamitas, Los Angeles, Seal Beach and Torrance.
	18	01	04	31.0	10.797	S	113.653	E	46	D	5.1	1.2	35	SOUTH OF JAVA
	18	01	15	32.6?	40.33	N	127.29	W	10	G		0.4	8	OFF COAST OF NORTHERN CALIFORNIA. ML 3.7 (BRK).
	18	02	10	07.2*	34.443	N	23.949	E	10	G		1.4	13	CRETE. MD 3.9 (ATH).
	18	02	48	22.1?	15.41	S	72.32	W	170	?		1.0	8	SOUTHERN PERU
	18	03	09	23.7	18.250	N	66.777	W	10	G		0.5	5	PUERTO RICO REGION. Felt at Harmigueras.
	18	03	27	07.7	46.108	N	6.314	E	5	G		1.4	25	SWITZERLAND. ML 2.7 (LDG).
	18	03	38	17.7*	39.935	N	23.751	E	10	G		1.2	6	AEGEAN SEA. ML 2.5 (THE).
	18	04	14	39.0&	60.033	N	152.381	W	71				26	SOUTHERN ALASKA. <AGS-P>.
	18	04	43	45.5?	46.53	N	4.47	E	33	N		0.5	8	FRANCE. ML 2.3 (LDG).
	18	05	38	51.1?	3.43	N	123.22	E	513	?	4.4	1.2	17	CELEBES SEA
a	18	05	42	35.9	30.108	S	177.665	W	25	D	5.5 5.3	1.1	135	KERMADEC ISLANDS. Felt on Raoul Island.
	18	06	17	31.3?	37.70	N	3.96	W	33	N		0.2	4	SPAIN. mbLg 2.7 (MDD).
	18	07	28	08.4*	28.611	N	129.529	E	33	N	4.4	1.0	10	RYUKYU ISLANDS
	18	08	00	04.1&	40.265	N	124.337	W	6				6	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.0 (BRK).
	18	08	32	40.1&	40.158	N	124.408	W	5				4	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.0 (BRK).
	18	08	49	39.7*	24.344	N	122.413	E	10	G		1.0	6	TAIWAN REGION
	18	09	22	33.2*	4.385	S	135.261	E	33	N	4.8	1.5	16	WEST IRIAN REGION
	18	09	31	40.8*	23.835	S	67.595	W	33	N		1.5	5	CHILE-ARGENTINA BORDER REGION
	18	10	03	30.7?	39.08	N	27.58	E	10	G		0.6	4	TURKEY
	18	10	43	24.0*	35.251	N	22.694	E	82	*	3.7	1.1	24	MEDITERRANEAN SEA
	18	11	45	26.5&	41.173	N	123.777	W	33	N	4.9 4.7		204	NORTHERN CALIFORNIA. <BRK>. ML 4.6 (BRK). Felt (V) at Hoopa, Klamath, Orick, Salyer, Westhaven and Willow Creek. Felt (IV) at Arcata, Bayside, Blue Lake, Carlotta, Eureka, Fields Landing, Fortuna, Kneeland, Korbel, Loleta, Mirando, Orleans, Redcrest and Trinidad. Felt in Del Norte, Humboldt, Mendocino, Siskiyou and Trinity Counties.
	18	12	21	03.6*	31.869	S	72.691	W	28			1.1	19	OFF COAST OF CENTRAL CHILE
f	18	12	45	23 6	30.141	S	177.688	W	13	D	6 0 5.8	1.1	262	KERMADEC ISLANDS. Ms 5.8 (BRK). Mo=1.3*10**18 Nm (PPT). Felt on Raoul Island.
	18	12	48	26.6	36.220	N	27.133	E	10	G		0.7	10	DODECANESE ISLANDS. MD 3.8 (ATH).
	18	13	15	01.0?	42.30	N	24.01	E	10	G		1.6	7	BULGARIA. ML 2.7 (THE).
	18	14	01	51.4	44.743	N	114.187	W	5	G		0.5	14	WESTERN IDAHO. ML 3.2 (BUT).
	18	14	22	15.2%	39.281	N	29.168	E	10	G		1.9	5	TURKEY
	18	15	01	48.9?	31.08	N	141.05	E	33	N	4.7	1.1	6	SOUTH OF HONSHU, JAPAN
	18	15	34	19.4?	50.47	N	6.02	E	10	G		0.2	4	GERMANY. ML 1.2 (UCC).
	18	15	49	13.5&	58.319	N	154.793	W	99		4.4		85	ALASKA PENINSULA. <AGS-P>.
	18	16	18	07.8%	44.537	N	7.176	E	10	G		0.4	8	NORTHERN ITALY. ML 1.7 (GEN).
	18	16	48	10.8	36.031	N	27.078	E	10	G		1.6	9	DODECANESE ISLANDS. MD 3.7 (ATH).
	18	17	08	58.8	44.123	N	7.377	E	10	G		0.1	10	NORTHERN ITALY. ML 1.6 (GEN).
	18	17	55	28.8	36.097	N	27.198	E	10	G		1.4	8	DODECANESE ISLANDS. MD 3.5 (ATH).
	18	18	16	07.3&	37.157	N	122.025	W	10				14	CENTRAL CALIFORNIA. <BRK> ML 3.0 (BRK).
	18	18	30	00.6	0.032	S	124.603	E	81	*	4.9	1.3	37	MOLUCCA SEA
	18	18	38	09.2*	56.040	S	27.402	W	33	N	5.3	1.3	16	SOUTH SANDWICH ISLANDS REGION
a	18	19	59	22.0	5.286	S	150.609	E	136	D	5.6	1.0	199	NEW BRITAIN REGION
a	18	20	57	49.2	20.760	S	178.487	W	586	D	5.7	1.0	201	FIJI ISLANDS REGION
	18	21	03	22.8	44.271	N	7.385	E	10	G		0.5	28	NORTHERN ITALY. ML 2.6 (LDG), 2.5 (GEN).

	18	22 12 16.4?	35.99	N	27.25	E	33	N			0.2	4	DODECANESE ISLANDS. MD 3.2 (ATH).
	18	22 51 08.5?	41.90	N	23.18	E	10	G			0.3	5	GREECE-BULGARIA BORDER REGION. ML 2.4 (THE).
	18	23 53 20.2	33.730	S	69.951	W	10	G			0.9	11	CHILE-ARGENTINA BORDER REGION
	19	01 08 00.4	34.162	N	26.567	E	84	?	3.8		1.3	21	CRETE
	19	02 23 00.1?	31.68	S	116.97	E	10	G			0.6	4	WESTERN AUSTRALIA
	19	02 52 31.3&	61.715	N	150.352	W	46					36	SOUTHERN ALASKA. <AGS-P>. ML 3.1 (PMR).
	19	03 09 26.0?	33.96	S	70.58	W	99	?			0.1	8	CHILE-ARGENTINA BORDER REGION
	19	03 32 08.7	46.188	N	151.970	E	33	N	5.0		0.7	45	KURIL ISLANDS
	19	05 17 47.7&	36.535	N	121.158	W	8					15	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).
	19	07 01 29.2?	33.91	S	70.55	W	95	?			0.1	9	CHILE-ARGENTINA BORDER REGION
	19	08 46 43.2&	63.196	N	150.566	W	131		4.4			41	CENTRAL ALASKA. <AGS-P>. Felt (III) at McKinley Park.
	19	09 32 00.9%	39.586	N	23.951	E	10	G			0.8	5	AEGEAN SEA
	19	12 13 04.9&	37.637	N	119.053	W	2					33	CENTRAL CALIFORNIA. <BRK>. ML 3.6 (BRK).
	19	12 39 17.9&	35.230	N	118.220	W	4					32	CENTRAL CALIFORNIA. <PAS-P>. ML 3.6 (PAS), 4.0 (BRK). Felt (III) at Mojave.
	19	12 46 16.9	44.470	N	12.045	E	10	G			1.2	11	NORTHERN ITALY
	19	13 09 52.6%	31.818	S	67.837	W	10	G			1.5	6	SAN JUAN PROVINCE, ARGENTINA
	19	14 54 03.6?	2.16	N	127.14	E	33	N	4.6		1.3	8	MOLUCCA PASSAGE
	19	16 36 47.8	36.061	N	27.214	E	10	G			0.8	6	DODECANESE ISLANDS. MD 3.2 (ATH).
	19	16 53 12.0%	35.899	N	27.444	E	10	G			0.9	5	DODECANESE ISLANDS. MD 3.2 (ATH).
	19	17 09 21.2*	15.236	N	60.545	W	33	N			0.3	8	LEEWARD ISLANDS. ML 2.4 (FDF).
	19	17 29 35.3*	7.430	S	126.679	E	325	?	5.1		0.8	9	BANDA SEA
	19	18 44 27.6?	21.76	S	170.14	E	33	N			1.5	17	LOYALTY ISLANDS REGION
	19	18 52 48.7?	16.93	N	100.12	W	10	G			1.2	4	NEAR COAST OF GUERRERO, MEXICO
	19	19 07 46.1*	35.339	N	141.227	E	22	*	4.9		0.9	22	NEAR EAST COAST OF HONSHU, JAPAN
	19	20 12 43.2&	59.798	N	152.179	W	66					11	SOUTHERN ALASKA. <AGS-P>.
	19	20 30 54.6*	21.333	S	68.817	W	125	*	4.6		1.5	14	CHILE-BOLIVIA BORDER REGION
	19	20 50 58.4*	46.221	N	12.592	E	10	G			0.6	5	NORTHERN ITALY. ML 1.7 (KBA).
	19	21 22 58.8*	31.475	S	69.194	W	113		4.5		1.2	13	SAN JUAN PROVINCE, ARGENTINA
	19	21 34 11.6?	40.65	N	22.49	E	10	G			0.1	5	GREECE. ML 1.9 (THE).
	19	22 05 13.7*	19.906	S	47.173	W	10	G			1.5	5	BRAZIL. Felt (VI) at Franca, Pedregulho, Rifaina and Sacramento.
	19	22 33 53.3	36.065	N	27.225	E	10	G			1.3	9	DODECANESE ISLANDS. MD 3.3 (ATH).
	19	23 41 43.8*	61.857	N	4.715	E	10	G			1.1	11	SOUTHERN NORWAY. ML 3.4 (NAO). MD 3.4 (BER). Felt.
	20	00 24 48.1	36.957	N	29.329	E	10	G			1.0	6	TURKEY
	20	00 31 54.0?	50.97	N	19.75	E	33	N			0.4	4	POLAND. ML 2.8 (KRA).
a	20	01 27 09.8	35.832	N	52.954	E	25	D	5.5	5.9	1.0	348	IRAN. Slight damage in the Firuzkuh area. Felt at Tehran.
	20	01 35 17.2&	62.022	N	150.886	W	53					36	CENTRAL ALASKA. <AGS-P>.
	20	01 50 33.6?	38.37	N	73.30	E	160	?	4.4		1.5	7	TAJIK-XINJIANG BORDER REGION
	20	02 11 29.4*	24.641	N	122.641	E	10	G	4.3		1.3	9	TAIWAN REGION
	20	02 15 06.4*	36.053	N	53.309	E	39	D	4.5		1.0	16	IRAN. Felt in the Firuzkuh area.
	20	02 35 26.8	48.101	N	9.277	E	10	G			1.4	11	GERMANY. ML 2.8 (LDG), 2.2 (FUR), 2.1 (KBA).
	20	02 55 54.8	40.097	N	142.314	E	48	D	5.2	5.7	0.9	138	NEAR EAST COAST OF HONSHU, JAPAN
	20	03 41 43.3&	59.435	N	152.972	W	80					19	SOUTHERN ALASKA. <AGS-P>.
	20	04 16 06.4%	39.403	N	28.392	E	10	G			1.3	5	TURKEY
	20	06 46 03.8&	58.045	N	155.608	W	61					22	ALASKA PENINSULA. <AGS-P>.
	20	06 52 56.9*	16.003	N	96.440	W	60	*	4.2		1.3	16	OAXACA, MEXICO
	20	07 02 39.0%	22.798	N	121.091	E	5	G			0.7	5	TAIWAN REGION
a	20	07 20 21.8	15.262	S	173.376	W	34	D	5.5	5.5	1.4	121	TONGA ISLANDS. Ms 5.9 (BRK).
	20	08 07 16.3	39.428	N	28.292	E	10	G			1.3	12	TURKEY
a	20	09 13 13.9	6.649	S	105.911	E	64		5.3		1.0	132	SUNDA STRAIT. Felt (IV) at Jakarta, Java.
	20	11 06 13.3&	38.795	N	122.775	W	4					13	NORTHERN CALIFORNIA. <BRK>. ML 3.4 (BRK). Mo=1.9*10**14 Nm (BRK).
	20	11 35 54.0*	7.656	S	87.617	E	10	G	5.0	4.3	1.1	19	SOUTH INDIAN OCEAN
	20	11 51 27.0*	50.279	N	18.936	E	10	G			1.5	7	POLAND. ML 3.1 (KBA).
	20	11 55 47.7	36.097	N	27.216	E	10	G			1.1	6	DODECANESE ISLANDS. MD 3.8 (ATH).
	20	12 38 56.9*	35.985	N	29.080	E	10	G			0.6	5	EASTERN MEDITERRANEAN SEA
	20	14 03 50.5?	44.22	N	8.24	E	10	G			0.5	4	NORTHERN ITALY. ML 1.5 (GEN).
	20	15 02 50.4	37.779	N	15.020	E	10	G			1.1	11	SICILY. MD 2.8 (ROM).
	20	15 22 57.0	32.618	S	71.586	W	32				0.6	14	NEAR COAST OF CENTRAL CHILE
	20	16 58 17.5	39.909	N	29.127	E	10	G			1.3	9	TURKEY
a	20	16 59 00.8	6.082	S	81.224	W	26	D	5.1	5.2	1.3	41	NEAR COAST OF NORTHERN PERU. Felt (IV) in the Piura area.
	20	18 20 47.2*	29.790	S	72.359	W	20	*	5.3		1.4	20	OFF COAST OF CENTRAL CHILE
	20	18 43 17.3?	34.30	S	97.82	W	10	G	4.9		1.4	26	WEST CHILE RISE
	20	19 16 14.1	34.727	N	26.167	E	10	G			1.4	22	CRETE. MD 3.7 (ATH).
	20	19 17 00.5%	44.223	N	8.253	E	10	G			0.4	6	NORTHERN ITALY. ML 1.8 (GEN).
	20	19 25 20.1	45.153	N	7.175	E	10	G			1.1	80	NORTHERN ITALY. ML 3.8 (GEN), 3.3 (LDG). MD 3.3 (STR).
	20	19 56 46.0	19.978	S	133.706	E	10	G	4.4		1.3	12	NORTHERN TERRITORY, AUSTRALIA
	20	20 19 13.4	62.211	N	150.953	W	87	?			1.1	10	CENTRAL ALASKA
	20	20 29 25.6&	37.175	N	122.043	W	10					12	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).
	20	20 29 38.2%	44.088	N	8.283	E	10	G			0.8	6	NORTHERN ITALY. ML 1.5 (GEN).
	20	20 32 45.8%	44.229	N	8.244	E	10	G			0.3	7	NORTHERN ITALY. ML 1.5 (GEN).
	20	20 35 48.0	44.266	N	8.235	E	10	G			0.7	12	NORTHERN ITALY. ML 2.4 (LDG), 2.2 (GEN).
	20	20 38 43.6%	44.220	N	8.274	E	10	G			0.6	7	NORTHERN ITALY. ML 1.7 (GEN).
	20	20 41 32.1%	44.218	N	8.274	E	10	G			0.7	7	NORTHERN ITALY. ML 1.7 (GEN).
	20	21 15 30.5%	44.248	N	8.258	E	10	G			0.6	6	NORTHERN ITALY. ML 1.7 (GEN).
	20	21 21 14.3?	35.59	N	51.44	E	10	G			1.2	5	IRAN. Felt in the Firuzkuh area.
	20	21 23 43.8*	34.954	N	26.114	E	5	G			1.5	7	CRETE. MD 3.4 (ATH).
	20	21 45 46.5%	44.249	N	8.209	E	10	G			0.1	7	NORTHERN ITALY. ML 1.8 (GEN).
	20	21 54 22.5	39.525	N	24.844	E	10	G			1.3	27	AEGEAN SEA. ML 3.1 (ATH), 2.8 (THE).
	20	21 59 53.7%	36.180	N	53.110	E	10	G			0.6	6	IRAN. Felt in the Firuzkuh area.
	20	22 35 20.0	47.345	N	11.777	E	10	G			0.8	7	AUSTRIA. ML 2.6 (FUR), 2.3 (KBA).
	20	23 07 29.4%	44.206	N	8.294	E	10	G			0.7	7	NORTHERN ITALY. ML 1.7 (GEN).
	20	23 10 07.4%	44.200	N	8.292	E	10	G			0.8	7	NORTHERN ITALY. ML 1.7 (GEN).
	20	23 43 30.9	44.222	N	8.257	E	10	G			0.7	7	NORTHERN ITALY. ML 1.6 (GEN).
	20	23 45 23.4%	44.238	N	8.239	E	10	G			0.3	7	NORTHERN ITALY. ML 1.7 (GEN).
	21	00 32 04.2%	44.264	N	8.185	E	10	G			0.6	7	NORTHERN ITALY. ML 2.2 (GEN).
	21	00 34 47.4?	16.87	N	99.35	W	33	N			1.6	5	NEAR COAST OF GUERRERO, MEXICO
	21	01 02 09.0%	44.232	N	8.234	E	10	G			0.2	5	NORTHERN ITALY. ML 1.5 (GEN).
	21	01 08 16.2?	9.03	S	128.55	E	161	?	4.2		0.7	6	TIMOR SEA
	21	01 08 48.9*	31.571	S	179.457	W	197	*	4.9		1.0	28	KERMADEC ISLANDS REGION

	21	01	37	42.3?	41.49	N	23.61	E	10	G			0.9	6	GREECE-BULGARIA BORDER REGION
a	21	01	59	40.0	51.979	N	170.007	W	33	N	5.2	4.6	1.0	164	FOX ISLANDS, ALEUTIAN ISLANDS
	21	01	59	55.9*	39.444	N	28.360	E	10	G			1.0	5	TURKEY
	21	03	37	41.7%	38.688	N	15.539	E	10	G			1.2	5	SICILY
	21	03	52	42.2?	8.76	N	82.82	W	74	*	4.6		0.9	10	PANAMA-COSTA RICA BORDER REGION. MD 4.6 (UPA).
	21	04	27	04.7*	19.282	S	169.127	E	155	*	4.6		1.0	20	VANUATU ISLANDS
	21	04	52	03.2%	37.985	N	14.601	E	10	G			0.9	6	SICILY
	21	05	15	07.0&	59.161	N	152.054	W	66					9	SOUTHERN ALASKA. <AGS-P>.
	21	05	26	52.3	1.777	N	127.282	E	140	*	5.1		1.2	40	HALMAHERA
	21	05	59	25.2*	51.649	N	16.418	E	10	G			0.9	10	POLAND. ML 3.3 (VKA), 3.2 (KBA).
	21	06	16	22.3*	47.981	N	9.384	E	10	G			1.3	6	GERMANY. ML 2.5 (LDG).
	21	07	31	02.1	29.973	S	71.947	W	33	*	4.9	4.5	1.2	50	NEAR COAST OF CENTRAL CHILE
	21	07	49	41.9*	24.090	S	66.830	W	210		4.5		1.2	16	SALTA PROVINCE, ARGENTINA
	21	07	53	31.9	41.534	N	88.728	E	33	N	4.6		1.0	50	SOUTHERN XINJIANG, CHINA
	21	08	10	10.6?	44.22	N	8.29	E	10	G			0.3	4	NORTHERN ITALY. ML 1.4 (GEN).
	21	08	12	03.6?	22.37	N	121.44	E	10	G			0.1	5	TAIWAN REGION
	21	08	27	18.0	43.391	N	5.426	E	10	G			1.0	19	NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).
	21	09	41	16.5?	44.32	N	7.22	E	10	G			0.1	4	NORTHERN ITALY. ML 1.6 (GEN).
	21	09	49	19.5	23.605	N	121.698	E	28		3.9		0.5	9	TAIWAN
	21	10	12	15.2*	8.565	N	127.825	E	33	N	3.6		0.8	13	PHILIPPINE ISLANDS REGION
	21	10	42	58.3	15.561	N	91.579	W	213		4.5		0.9	97	MEXICO-GUATEMALA BORDER REGION
	21	10	55	49.2&	60.391	N	152.728	W	127					15	SOUTHERN ALASKA. <AGS-P>.
	21	11	42	31.9*	26.028	S	69.763	W	97	?			1.3	7	NORTHERN CHILE
	21	12	32	42.5&	36.140	N	120.020	W	6	G				20	CENTRAL CALIFORNIA. <PAS-P>. ML 3.3 (PAS). Felt (III) at Avenal.
	21	13	10	07.9	2.623	N	79.825	W	15		4.9		1.1	51	SOUTH OF PANAMA
	21	13	20	33.5&	59.779	N	152.960	W	96					57	SOUTHERN ALASKA. <AGS-P>.
	21	13	39	40.7?	35.92	N	51.38	E	10	G			0.3	5	IRAN. Felt in the Firuzkuh area.
	21	13	54	45.7*	34.830	N	28.015	E	33	N			1.5	10	EASTERN MEDITERRANEAN SEA. MD 4.0 (HLW).
	21	14	38	05.4	42.804	N	13.113	E	7				0.9	10	CENTRAL ITALY
	21	15	20	36.1?	35.43	N	141.03	E	33	N	4.1		0.5	6	NEAR EAST COAST OF HONSHU, JAPAN
	21	15	23	13.1*	7.205	S	151.634	E	33	N	4.0		0.7	5	NEW BRITAIN REGION
a	21	16	43	44.6	21.098	S	173.780	W	33	N	5.1	5.0	1.2	69	TONGA ISLANDS
	21	16	52	54.0*	34.419	N	70.560	E	33	N	4.5		1.4	12	AFGHANISTAN
	21	18	12	18.8&	61.471	N	150.646	W	59					25	SOUTHERN ALASKA. <AGS-P>.
	21	18	31	11.8%	41.654	N	12.799	E	5	G			0.5	5	SOUTHERN ITALY
	21	18	44	38.3*	4.858	S	152.297	E	92	*	4.0		0.3	8	NEW BRITAIN REGION
	21	19	07	39.6?	32.81	S	71.94	W	33	N			0.3	8	NEAR COAST OF CENTRAL CHILE
	21	19	09	18.6*	7.859	N	127.012	E	63	*	4.4	3.8	1.0	16	PHILIPPINE ISLANDS REGION
	21	19	10	27.5%	39.504	N	23.563	E	10	G			0.3	5	AEGEAN SEA
	21	19	36	37.0%	41.708	N	12.740	E	10	G			0.2	5	SOUTHERN ITALY
	21	20	26	12.6*	7.198	S	128.077	E	82	?	3.8		1.1	12	BANDA SEA
	21	20	53	41.3?	44.36	N	148.66	E	33	N	4.8		0.5	9	KURIL ISLANDS
	21	21	14	29.3?	41.70	N	12.71	E	10	G			0.2	4	SOUTHERN ITALY
	21	21	26	56.4?	34.75	N	57.29	E	33	N	4.5		1.3	9	IRAN
	21	21	28	01.9?	35.33	N	51.83	E	10	G			0.1	5	IRAN. Felt in the Firuzkuh area.
	21	21	41	51.5	39.976	N	20.493	E	5	G			1.3	11	GREECE-ALBANIA BORDER REGION. MD 3.1 (ATH). ML 3.0 (THE).
	21	21	49	59.6*	32.210	S	70.103	W	113	?			0.8	11	CHILE-ARGENTINA BORDER REGION
	21	21	50	15.3?	27.50	N	140.75	E	483	?	3.8		1.0	10	BONIN ISLANDS REGION
	21	22	10	04.0	34.020	N	70.065	E	33	N	4.7		1.1	32	AFGHANISTAN
	21	22	55	35.7%	39.236	N	28.960	E	10	G			0.9	6	TURKEY
	22	02	31	45.1?	0.64	S	80.80	W	33	N		4.2	0.6	8	NEAR COAST OF ECUADOR
a	22	02	32	04.4	20.929	S	173.870	W	37	D	5.4	5.1	1.2	112	TONGA ISLANDS
	22	02	40	49.9%	40.867	N	22.919	E	10	G			0.9	5	GREECE. ML 1.9 (THE).
	22	03	20	34.6%	29.471	S	68.043	W	33	N			0.8	5	SAN JUAN PROVINCE, ARGENTINA
	22	03	36	10.1	41.709	N	12.688	E	10	G			0.7	14	SOUTHERN ITALY
	22	03	45	21.8?	43.33	N	128.34	W	10	G			0.3	22	OFF COAST OF OREGON
	22	04	23	27.7?	60.79	N	2.74	E	10	G			0.4	4	NORTH SEA. MD 1.9 (BER).
a	22	05	08	54.1	22.127	S	169.993	E	33	N	5.0	4.4	1.4	54	LOYALTY ISLANDS REGION
	22	05	16	12.3	20.902	S	174.016	W	33	N	4.8	5.2	1.3	29	TONGA ISLANDS
	22	05	59	37.2&	60.074	N	152.519	W	94					24	SOUTHERN ALASKA. <AGS-P>.
	22	06	01	10.9&	37.318	N	122.125	W	7					17	CENTRAL CALIFORNIA. <BRK>. ML 3.2 (BRK). Mo=1.5*10**14 Nm (BRK).
	22	06	12	08.6*	43.413	N	149.613	E	33	N	4.4		1.1	14	KURIL ISLANDS REGION
	22	06	38	14.6&	63.355	N	149.507	W	101					42	CENTRAL ALASKA. <AGS-P>.
	22	06	44	42.7?	7.72	S	130.19	E	33	N	3.9		0.1	5	TANIMBAR ISLANDS REGION
o	22	08	25	34.0	31.612	S	178.083	W	33	N	5.2		1.4	35	KERMADEC ISLANDS REGION
	22	09	17	43.4?	36.02	N	27.26	E	10	G			0.9	4	DODECANESE ISLANDS
	22	09	24	14.8?	44.12	N	8.23	E	10	G			0.9	4	NORTHERN ITALY. ML 1.4 (GEN).
	22	09	26	15.7%	44.230	N	8.258	E	10	G			0.2	5	NORTHERN ITALY. ML 1.8 (GEN).
	22	09	28	19.3?	44.24	N	8.27	E	10	G			1.1	4	NORTHERN ITALY. ML 1.6 (GEN).
	22	09	29	56.3?	44.24	N	8.25	E	10	G			0.5	4	NORTHERN ITALY. ML 1.6 (GEN).
	22	09	32	13.8%	44.247	N	8.232	E	10	G			0.2	6	NORTHERN ITALY. ML 1.8 (GEN).
	22	10	25	43.8	41.558	N	14.262	E	9				1.1	17	SOUTHERN ITALY. ML 1.6 (KBA).
	22	10	30	02.7?	38.10	N	4.86	W	10	G			0.3	4	SPAIN. mbLg 2.6 (MDD).
	22	10	59	10.4	40.695	N	29.149	E	10	G			1.1	7	TURKEY
	22	11	04	14.4&	40.308	N	124.413	W	8					7	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.0 (BRK).
	22	11	20	08.8%	44.337	N	8.186	E	10	G			1.2	5	NORTHERN ITALY. ML 1.7 (GEN).
	22	13	18	24.2*	36.593	N	71.258	E	89	?	4.5		1.0	11	AFGHANISTAN-USSR BORDER REGION
	22	16	10	27.8?	30.08	S	71.88	W	173	?			0.3	12	NEAR COAST OF CENTRAL CHILE
	22	16	17	51.9%	46.206	N	1.851	E	10	G			0.6	6	FRANCE. ML 1.7 (LDG).
	22	16	41	06.2*	30.438	S	70.993	W	31				1.6	15	CHILE-ARGENTINA BORDER REGION
	22	17	13	56.1*	5.175	S	153.250	E	10	G	4.1		0.9	6	NEW IRELAND REGION
f	22	17	26	11.4	3.885	N	96.100	E	46	G	6.0	5.8	1.0	494	NORTHERN SUMATERA. Two events about 5.3 seconds apart. Depth from broadband displacement seismograms, based on first event.
	22	18	41	37.4	1.519	S	150.980	E	45	?			1.3	24	NEW IRELAND REGION
	22	18	49	35.0?	11.54	N	92.34	E	33	N	4.8		0.8	5	ANDAMAN ISLANDS REGION
	22	19	33	49.3?	13.43	N	88.97	W	33	N			0.9	6	EL SALVADOR. Felt (II) at San Salvador.
	22	19	52	30.6%	38.002	N	6.527	W	10	G			1.4	7	SPAIN. mbLg 3.3 (MDD).
	22	20	37	07.8&	58.973	N	154.370	W	124					34	ALASKA PENINSULA. <AGS-P>.
	22	21	02	10.8&	61.278	N	149.923	W	38					40	SOUTHERN ALASKA. <AGS-P>. ML 3.6 (PMR). Felt (III) at

													Eagle River and Peters Creek; (II) at Anchorage, Butte and Palmer.
	22	21 32 49.2?	37.69	N	3.93	W	33	N			0.1	4	SPAIN. mbLg 2.6 (MDD).
	22	23 13 57.4%	35.966	N	52.390	E	33	N			1.3	6	IRAN.
	22	23 26 59.9*	39.967	N	30.477	E	10	G			1.4	8	TURKEY
	22	23 45 41.3&	62.569	N	151.308	W	94					19	CENTRAL ALASKA. <AGS-P>.
	23	00 41 05.7	42.523	N	71.544	W	5	G			0.3	6	SOUTHERN NEW ENGLAND. MD 2.5 (WES). mbLg 2.3 (NEIS). Felt (V) at Littleton; (IV) at Ayer, Concord, Nabnasset, Stow and Westford; (III) at Fitchburg, North Billerica, Marlboraugh, Maynord and West Groton, Massachusetts. Felt in Middlesex and Worcester Counties, Massachusetts.
	23	01 00 04.0&	61.578	N	146.307	W	33					21	SOUTHERN ALASKA. <AGS-P>.
	23	01 15 06.8*	30.018	S	72.025	W	38	?	4.6		1.5	19	OFF COAST OF CENTRAL CHILE
	23	01 23 48.1&	61.188	N	140.376	W	0					36	SOUTHERN YUKON TERRITORY, CANADA. <AGS-P>. ML 3.5 (PMR).
	23	02 25 06.6&	36.932	N	121.702	W	10					14	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).
	23	02 48 43.9&	59.983	N	153.526	W	146					50	SOUTHERN ALASKA. <AGS-P>.
	23	03 11 19.9&	36.912	N	121.697	W	10					19	CENTRAL CALIFORNIA. <BRK>. ML 3.0 (BRK). Felt at Watsonville.
	23	03 15 40.0	24.703	N	122.565	E	117		4.8		0.8	36	TAIWAN REGION
	23	04 05 10.5?	50.95	N	174.42	E	33	N	4.4		1.2	7	ALEUTIAN ISLANDS REGION
	23	05 02 55.4	31.809	S	69.471	W	140	*			0.7	16	SAN JUAN PROVINCE, ARGENTINA
	23	07 39 32.6?	23.67	N	120.89	E	10	G			0.0	4	TAIWAN
a	23	07 47 09.5	12.451	S	75.069	W	104	D	5.5		1.1	231	PERU. Felt (V) at Pisco, (IV) at Ica and Lima and (III) at Huancayo. Also felt at Callao.
	23	09 08 37.8*	14.756	S	70.346	W	33	N			0.8	6	PERU
	23	09 29 19.6*	36.056	N	27.275	E	10	G			0.5	5	DODECANESE ISLANDS
	23	09 30 10.7?	16.68	N	99.73	W	33	N			0.8	5	NEAR COAST OF GUERRERO, MEXICO
	23	09 43 49.8&	61.998	N	150.350	W	43					28	SOUTHERN ALASKA. <AGS-P>.
	23	10 00 19.6?	14.62	N	60.89	W	10	G			0.0	4	WINDWARD ISLANDS. ML 1.9 (FDF).
	23	10 33 35.6?	34.52	N	27.75	E	10	G			1.1	5	EASTERN MEDITERRANEAN SEA
	23	10 34 38.6%	40.393	N	23.260	E	10	G			0.2	5	GREECE
	23	11 10 57.1&	40.273	N	124.542	W	6					13	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.4 (BRK).
	23	11 27 43.3&	60.141	N	153.230	W	146		4.4			56	SOUTHERN ALASKA. <AGS-P>.
	23	11 57 04.3	38.810	N	23.476	E	33	N			1.3	17	GREECE. ML 3.3 (ATH), 3.3 (THE).
	23	12 32 20.1?	39.06	N	27.56	E	10	G			0.1	4	TURKEY
	23	13 07 59.1?	40.39	N	25.86	E	10	G			0.4	6	AEGEAN SEA
	23	13 29 21.2*	37.309	N	141.680	E	55	?	4.9		0.9	26	NEAR EAST COAST OF HONSHU, JAPAN
	23	14 04 36.6?	43.82	N	7.03	E	10	G			0.2	6	NEAR SOUTH COAST OF FRANCE
	23	15 33 03.4	38.187	N	21.999	E	10	G			0.7	9	GREECE. ML 2.9 (ATH).
	23	15 40 53.3	25.185	N	96.424	E	33	N	4.7	4.4	1.1	53	BURMA
	23	16 30 09.9?	45.00	N	4.46	E	10	G			0.8	5	FRANCE. MD 1.0 (STR).
	23	16 54 53.0&	59.946	N	151.701	W	56					49	KENAI PENINSULA, ALASKA. <AGS-P>. Felt (II) at Homer.
	23	17 02 53.3	18.112	S	69.719	W	147		4.7		0.8	10	NORTHERN CHILE
	23	17 28 59.8*	22.661	N	120.882	E	5	G			0.6	5	TAIWAN
	23	17 30 58.4	51.568	N	16.165	E	5	G			0.5	13	POLAND. ML 4.1 (VKA), 3.8 (KBA).
	23	17 41 12.6&	61.628	N	146.414	W	30					37	SOUTHERN ALASKA. <AGS-P>.
	23	19 13 13.1%	37.028	N	5.458	W	10	G			0.7	7	SPAIN. mbLg 2.8 (MDD).
	23	19 14 34.6?	39.15	N	27.75	E	10	G			0.5	4	TURKEY
	23	19 42 37.9%	35.298	N	50.744	E	5	G			1.8	5	IRAN. Felt in the Firuzkuh area.
	23	20 06 53.5*	28.507	N	130.423	E	33	N	4.5		1.3	17	RYUKYU ISLANDS
a	23	20 44 46.4	19.129	N	121.236	E	25	D	5.1	4.6	1.2	77	PHILIPPINE ISLANDS REGION
	23	21 24 59.8%	37.037	N	5.470	W	10	G			0.9	8	SPAIN. mbLg 3.0 (MDD).
	23	21 37 30.0%	37.026	N	5.479	W	10	G			0.8	9	SPAIN. mbLg 3.4 (MDD). Felt (III) in the Coripe area.
	23	23 07 06.1	36.026	N	137.531	E	10	G			1.1	11	HONSHU, JAPAN
	23	23 13 28.8*	21.569	N	143.252	E	277	?	4.4		1.0	27	MARIANA ISLANDS REGION
	23	23 16 41.7?	14.93	S	72.23	W	33	N			0.7	5	PERU
	24	00 42 11.3	48.077	N	9.403	E	10	G			1.2	23	GERMANY. ML 3.0 (FUR), 3.1 (LDG), 3.1 (KBA), 3.4 (VKA).
	24	01 06 39.5?	51.12	N	16.03	E	10	G			1.2	5	POLAND. ML 2.0 (KBA).
	24	02 22 50.0%	37.055	N	5.463	W	10	G			0.9	8	SPAIN. mbLg 2.8 (MDD).
	24	03 07 16.9	27.630	N	34.254	E	10	G			0.4	10	RED SEA
	24	03 50 47.6%	37.043	N	5.452	W	10	G			0.9	7	SPAIN. mbLg 2.5 (MDD).
	24	03 51 08.8%	39.124	N	16.750	E	10	G			0.8	11	SOUTHERN ITALY
	24	03 52 01.4%	37.034	N	5.511	W	10	G			0.8	8	SPAIN. mbLg 3.3 (MDD).
	24	03 56 31.4	51.715	N	16.158	E	10	G			0.7	24	POLAND. ML 4.3 (GRF), 4.0 (FUR), 4.3 (VKA), 4.0 (KBA).
	24	03 57 51.5	27.599	N	34.231	E	10	G			0.6	12	RED SEA. MD 4.1 (HLW).
	24	04 05 38.2?	27.62	N	34.14	E	10	G			0.3	4	RED SEA
	24	04 45 05.1	39.171	N	16.925	E	48		4.5		1.2	77	SOUTHERN ITALY
	24	04 46 27.8	48.062	N	9.297	E	10	G			0.9	10	GERMANY. ML 2.9 (LDG), 2.3 (FUR).
	24	04 47 12.7?	39.20	N	17.68	E	10	G			1.4	6	SOUTHERN ITALY
	24	05 04 38.7	40.208	N	29.988	E	10	G			0.6	9	TURKEY
	24	05 07 25.5*	23.947	S	66.667	W	230	*			0.6	9	JUJUY PROVINCE, ARGENTINA
	24	05 17 29.0%	39.146	N	16.687	E	10	G			1.4	8	SOUTHERN ITALY
	24	05 35 26.0%	39.164	N	17.068	E	10	G			0.8	10	SOUTHERN ITALY
	24	07 50 57 0&	63.071	N	149.346	W	77					24	CENTRAL ALASKA. <AGS-P>.
	24	07 53 54 5	23.953	S	70.026	W	10	G	4.7		1.3	14	NEAR COAST OF NORTHERN CHILE. Felt (IV) in the Antofagasto area.
	24	08 01 21.8*	24.009	S	70.156	W	10	G			1.3	5	NEAR COAST OF NORTHERN CHILE. Felt (II) in the Antofagasta area.
	24	08 35 07.1%	40.454	N	23.086	E	10	G			0.7	7	GREECE
	24	09 03 30.9&	41.763	N	112.628	W	10					13	UTAH. <SLC-P>. ML 3.6 (SLC).
	24	09 08 15.0&	64.034	N	148.374	W	116					20	CENTRAL ALASKA. <AGS-P>.
	24	10 06 13.3	49.059	N	155.553	E	44	D	5.3		0.8	129	KURIL ISLANDS
	24	10 45 14.1?	51.00	N	19.98	E	10	G			1.6	4	POLAND. ML 2.7 (KRA).
	24	11 03 45.8?	15.40	N	61.14	W	171				0.6	11	LEEWARD ISLANDS
	24	11 23 39.5?	5.03	S	102.68	E	122	?	4.1		1.1	10	SOUTHERN SUMATERA
	24	11 25 26.3%	40.141	N	16.177	E	10	G			0.8	7	SOUTHERN ITALY
	24	12 14 02.4*	20.637	S	69.052	W	33	N			1.2	6	NORTHERN CHILE
	24	13 17 47.4	35.690	N	26.148	E	124		4.2		1.1	68	CRETE. Felt.
	24	13 54 26.0*	40.203	N	124.280	W	10	G			0.1	6	NEAR COAST OF NORTHERN CALIF. ML 2.9 (BRK).
	24	14 17 03.7%	40.831	N	28.107	E	10	G			0.4	6	TURKEY
	24	14 23 48.8*	31.527	S	68.610	W	109	*			0.6	7	SAN JUAN PROVINCE, ARGENTINA

	24	16 18 59.2	39.187	N	16.949	E	52	*	4.1		1.1	36	SOUTHERN ITALY. MD 3.9 (ATH).
	24	16 19 22.5*	12.752	S	169.703	E	681	*	4.6		1.0	69	SANTA CRUZ ISLANDS REGION
	24	16 21 49.1*	71.922	N	0.351	E	10	G	4.4		0.6	7	NORWEGIAN SEA
	24	16 24 19.0	11.911	N	43.215	E	10	G			1.1	14	ETHIOPIA. ML 4.5 (ARO).
	24	16 35 17.4%	11.883	N	43.268	E	10	G			0.6	7	ETHIOPIA. ML 4.2 (ARO).
	24	16 40 24.0*	39.565	N	16.657	E	10	G			1.5	6	SOUTHERN ITALY
	24	17 14 22.1	36.031	N	137.566	E	5	G			0.7	14	HONSHU, JAPAN
	24	17 55 12.8	20.620	N	99.815	E	41	*			1.1	24	BURMA
	24	18 20 24.4	38.133	N	86.434	W	5	G	4.1		0.7	19	SOUTHERN INDIANA. mbLg 3.8 (NEIS), 4.0 (BLA). Felt (V) at Leavenwarth, Indiana and Rhadelia, Kentucky. Felt (IV) at Mauckport, Magnet, Rome and Saint Croix, Indiana. Also felt (IV) at Battletown, Bradenburg, Ekron, Guston, Howesville, Lewisport, Payneville, Sample, Stephensport, Union Star, Webster and West Point, Kentucky.
	24	18 50 33.9	42.292	N	126.433	W	10	G	4.8	4.7	1.1	61	OFF COAST OF OREGON. ML 4.2 (BRK).
	24	18 59 11.8?	36.35	N	24.39	E	10	G			0.1	4	SOUTHERN GREECE
a	24	19 33 31.1	14.603	N	119.437	E	23	D	5.6	5.8	1.0	137	LUZON, PHILIPPINE ISLANDS
	24	19 51 22.4*	39.103	N	17.031	E	10	G			1.2	7	SOUTHERN ITALY
	24	19 51 57.1?	7.24	S	145.96	E	183	?			0.9	7	NEAR S COAST OF PAPUA NEW GUINEA
	24	20 11 33.2	39.116	N	16.966	E	10	G			0.9	12	SOUTHERN ITALY
	24	20 47 08.8	42.350	N	126.301	W	10	G	4.9	5.0	0.9	67	OFF COAST OF OREGON. ML 4.4 (BRK).
	24	20 55 33.5	43.599	N	127.440	W	10	G	4.5		0.8	58	OFF COAST OF OREGON. ML 4.5 (BRK).
	24	21 09 40.7*	40.087	N	123.080	W	5	G			1.1	6	NORTHERN CALIFORNIA. ML 2.7 (BRK).
	24	22 23 38.6%	42.503	N	13.254	E	10	G			0.2	8	CENTRAL ITALY
	24	22 24 22.0%	11.933	N	43.430	E	27				0.2	10	ETHIOPIA. ML 3.9 (ARO).
	24	23 22 32.8*	12.239	N	141.126	E	154	*	4.7		0.8	13	SOUTH OF MARIANA ISLANDS
	24	23 24 49.3?	30.05	S	174.25	W	30	D	4.3		1.4	8	KERMADEC ISLANDS REGION
	24	23 25 15.2*	36.732	N	26.692	E	10	G			1.5	8	DODECANESE ISLANDS
	25	00 10 06.7?	36.50	N	26.99	E	154	?			0.2	5	DODECANESE ISLANDS. MD 3.0 (ATH).
	25	02 25 57.8?	30.77	S	179.31	W	330	G	4.4		1.1	11	KERMADEC ISLANDS REGION
	25	02 34 00.9&	58.809	N	149.576	W	56		3.7			41	GULF OF ALASKA. <AGS-P>.
	25	02 37 56.6&	58.959	N	149.602	W	50					19	GULF OF ALASKA. <AGS-P>.
	25	02 56 58.2%	39.238	N	28.302	E	10	G			0.8	6	TURKEY
	25	03 28 45.1*	35.912	N	31.872	E	10	G			1.5	6	CYPRUS
	25	04 01 05.6	44.535	N	7.294	E	10	G			0.4	16	NORTHERN ITALY. ML 2.3 (LDG), 2.2 (GEN).
	25	04 13 30.1*	32.430	S	177.816	W	244	?	4.2		1.0	14	SOUTH OF KERMADEC ISLANDS
	25	04 14 34.4*	23.165	S	67.263	W	187	*	4.4		1.3	8	CHILE-ARGENTINA BORDER REGION
	25	04 54 44.3	42.306	N	126.418	W	10	G	4.0		1.0	39	OFF COAST OF OREGON
	25	05 25 09.7	36.167	N	27.164	E	10	G			1.1	8	DODECANESE ISLANDS. MD 3.5 (ATH).
	25	05 48 30.5?	31.03	S	179.08	W	259	?	4.4		1.3	11	KERMADEC ISLANDS REGION
a	25	06 29 21.3*	31.554	S	177.580	W	33	N	5.2	5.1	1.4	36	KERMADEC ISLANDS REGION
	25	06 42 16.4?	43.84	N	7.94	E	10	G			0.5	6	NEAR SOUTH COAST OF FRANCE. ML 1.7 (GEN).
	25	07 34 25.9?	33.92	S	70.54	W	33	N			0.8	5	CHILE-ARGENTINA BORDER REGION
	25	08 28 08.7?	29.06	N	57.06	E	33	N	3.9		1.2	7	SOUTHERN IRAN
	25	09 25 48.5*	41.937	N	126.433	W	10	G	4.2		0.8	35	OFF COAST OF NORTHERN CALIFORNIA
	25	09 37 53.7%	13.099	S	75.347	W	33	N			0.2	5	PERU
	25	09 55 50.8?	39.07	N	27.59	E	10	G			1.1	4	TURKEY
	25	10 44 59.4?	44.10	N	8.15	E	10	G			0.1	4	NORTHERN ITALY. ML 1.6 (GEN).
	25	11 18 54.5?	44.54	N	7.26	E	10	G			0.3	4	NORTHERN ITALY. ML 1.7 (GEN).
	25	11 39 26.0?	35.54	N	51.72	E	10	G			0.8	5	IRAN
	25	12 44 33.0	15.236	N	60.811	W	128	*			0.2	18	LEEWARD ISLANDS
	25	13 07 08.0	36.105	N	27.197	E	10	G			1.3	12	DODECANESE ISLANDS. ML 4.2 (ATH).
	25	13 51 25.1&	36.673	N	121.345	W	4					14	CENTRAL CALIFORNIA. <BRK>. ML 2.7 (BRK).
	25	14 04 31.8&	36.672	N	121.347	W	5					21	CENTRAL CALIFORNIA. <BRK>. ML 3.9 (BRK). Felt (III) at Chualar and Hollister.
	25	18 39 45.2%	39.173	N	16.770	E	10	G			1.3	7	SOUTHERN ITALY
	25	20 29 48.1	36.085	N	27.287	E	37	*	4.0		1.3	16	DODECANESE ISLANDS. ML 4.1 (ATH).
	25	20 47 29.8?	18.55	N	66.23	W	33	N			0.8	5	PUERTO RICO REGION
	25	21 34 33.5	20.116	N	121.493	E	34		4.8	4.3	0.9	55	PHILIPPINE ISLANDS REGION
	26	00 27 11.2&	60.194	N	151.814	W	65					34	KENAI PENINSULA, ALASKA. <AGS-P>.
	26	01 10 23.2&	63.094	N	150.828	W	131					20	CENTRAL ALASKA. <AGS-P>.
	26	01 23 34.3	39.364	N	28.235	E	10	G			1.4	8	TURKEY
	26	01 42 28.3*	31.216	S	68.196	W	10	G			1.3	7	SAN JUAN PROVINCE, ARGENTINA
	26	01 43 17 6*	35.275	N	27.133	E	10	G			1.2	20	DODECANESE ISLANDS. ML 4.1 (ATH).
	26	02 13 12 2	20.236	N	145.461	E	110	*	4.7		1.1	40	MARIANA ISLANDS
	26	02 20 17 4	26.083	N	110.123	W	10	G	4.8		1.3	45	GULF OF CALIFORNIA
	26	02 38 14 5*	36.455	N	70.962	E	148	?	4.1		1.1	11	HINDU KUSH REGION
	26	02 47 46 8&	36 682	N	121.357	W	4					16	CENTRAL CALIFORNIA. <BRK>. ML 2.9 (BRK).
	26	03 10 39 4?	33.75	N	15.10	E	10	G			1.3	11	MEDITERRANEAN SEA
	26	03 26 25.6*	26.662	S	176.337	W	33	N	5.0		1.0	13	SOUTH OF FIJI ISLANDS
	26	03 59 03 9?	0 92	S	79.48	W	33	N			1.0	6	ECUADOR
	26	05 02 30 9*	9.490	S	117.697	E	102	*	4.3		1.2	15	SUMBAWA ISLAND REGION
	26	05 54 30.0&	61.245	N	140.279	W	0					25	SOUTHERN YUKON TERRITORY, CANADA. <AGS-P>.
	26	06 40 51 7?	52 47	S	160.02	E	10	G	4.4		0.2	6	MACQUARIE ISLANDS REGION
	26	08 54 26 4*	41 364	N	29.248	E	10	G			0.6	8	TURKEY
	26	09 40 14 2	36 071	N	27.044	E	10	G			1.2	11	DODECANESE ISLANDS. ML 4.1 (ATH).
	26	10 06 14.8*	14.576	S	75.815	W	33	N	4.6		0.8	13	NEAR COAST OF PERU
	26	11 08 30.0*	14.839	S	76.112	W	33	N	4.3		1.0	12	NEAR COAST OF PERU
	26	11 42 55.6	36.047	N	27.148	E	10	G			1.3	7	DODECANESE ISLANDS
	26	11 47 21.2%	45.383	N	25.406	E	5	G			1.4	7	ROMANIA
	26	13 42 31.5?	56.09	N	6.28	W	10	G			0.5	10	UNITED KINGDOM. ML 3.0 (BGS). Felt (IV) on Colonsay and (II) on Iona.
	26	14 51 42.4?	41.21	N	28.51	E	10	G			1.5	9	TURKEY
	26	16 12 39.4	39 016	N	26.955	E	10	G			1.1	13	TURKEY. MD 3.4 (ATH).
	26	20 13 36.5	53.879	N	132.186	W	10	G	4.0		0.8	16	QUEEN CHARLOTTE ISLANDS REGION. Felt (IV) at Masset and Port Clements, British Columbia. Also felt at Skidegate, British Columbia.
	26	20 49 53.8	40.289	N	27.344	E	10	G			0 6	11	TURKEY. MD 3.2 (ATH).
	26	22 46 19.8	23.347	N	100.242	E	33	N	4.6		1.3	31	YUNNAN PROVINCE, CHINA
	26	23 27 40.3	23.338	N	100.191	E	33	N	4.5		1.2	29	YUNNAN PROVINCE, CHINA
	27	00 30 41.4	39.923	N	23.817	E	10	G			1.0	14	AEGEAN SEA. MD 3.0 (ATH) ML 2.7 (THE).
o	27	00 34 55.0	6.913	S	130.257	E	109	*	5.1		1.2	41	BANDA SEA

27	01	19	00.3*	37.624	N	21.388	E	10			1.5	13	SOUTHERN GREECE. ML 3.4 (ATH), 3.3 (THE).
27	01	37	17.0?	37.05	S	177.90	E	191 ?	4.0		1.0	7	OFF E. COAST OF N. ISLAND, N.Z.
27	01	38	59.1	43.790	N	16.478	E	10 G			1.1	30	YUGOSLAVIA. ML 3.4 (ZAG), 3.2 (KBA). Felt (V) at Potravlje and Otavice.
27	02	08	18.8	42.198	N	15.579	E	13			1.3	33	ADRIATIC SEA. MD 3.9 (TRI). ML 3.3 (KBA).
27	02	45	09.2&	61.590	N	147.769	W	10				34	SOUTHERN ALASKA. <AGS-P>.
27	03	36	03.6&	36.668	N	121.343	W	6				13	CENTRAL CALIFORNIA. <BRK>. ML 2.3 (BRK).
27	03	39	24.4	6.431	S	154.993	E	102 *	4.6		1.3	30	SOLOMON ISLANDS
27	04	48	57.0&	61.731	N	149.974	W	38				44	SOUTHERN ALASKA. <AGS-P>. ML 3.7 (PMR).
27	05	07	22.3&	36.842	N	121.587	W	3				14	CENTRAL CALIFORNIA. <BRK>. ML 2.9 (BRK).
27	05	48	01.7?	15.68	S	167.48	E	136 ?	4.6		0.7	9	VANUATU ISLANDS
27	06	28	52.0?	30.12	N	113.73	W	10 G	4.2		1.1	11	GULF OF CALIFORNIA
27	06	37	01.4*	31.230	S	68.618	W	116 *			0.8	9	SAN JUAN PROVINCE, ARGENTINA
27	07	31	48.3*	52.098	N	169.579	W	33 N	4.7		0.8	18	FOX ISLANDS, ALEUTIAN ISLANDS
27	07	51	31.9&	60.218	N	152.144	W	82				24	SOUTHERN ALASKA. <AGS-P>.
27	08	27	01.0%	39.190	N	27.790	E	10 G			0.4	5	TURKEY
27	08	49	20.7	33.425	N	14.804	E	33 N	4.1		1.2	26	MEDITERRANEAN SEA. MD 3.8 (ATH).
27	09	10	52.9	16.521	S	69.915	W	192	4.8		1.3	32	PERU-BOLIVIA BORDER REGION
27	09	16	06.5?	39.07	N	27.64	E	10 G			0.2	4	TURKEY
27	09	29	11.1	39.149	N	24.341	E	10 G			0.7	14	AEGEAN SEA. ML 3.2 (ATH), 3.0 (THE).
27	10	52	45.1?	40.27	N	27.24	E	10 G			1.4	5	TURKEY
27	11	30	51.7	43.618	N	12.440	E	11			0.9	62	CENTRAL ITALY. MD 3.7 (TRI). ML 3.4 (LDG), 3.8 (KBA).
27	11	45	32.6	49.155	N	6.878	E	10 G			0.8	10	GERMANY. MD 2.6 (UCC), 2.3 (STR).
27	12	36	00.1?	16.71	N	99.86	W	33 N			0.4	5	NEAR COAST OF GUERRERO, MEXICO
27	12	39	24.0?	13.12	N	89.18	W	33 N			0.2	7	EL SALVADOR. Felt (II) at San Salvador.
27	12	57	41.7*	32.081	S	69.646	W	130 ?			0.3	6	MENDOZA PROVINCE, ARGENTINA
27	14	05	50.3	38.119	N	86.438	W	5 G	3.8		0.8	15	SOUTHERN INDIANA. mbLg 3.5 (NEIS). Felt (IV) at Derby, Grantsburg, Magnet, Rome and Saint Croix, Indiana. Also felt (IV) at Battletown and West Point, Kentucky. Felt in Crawford, Harrisan and Perry Counties, Indiana and in Breckinridge and Meade Counties, Kentucky.
27	14	53	26.6?	3.72	S	149.86	E	33 N	4.3		1.2	8	BISMARCK SEA
27	15	11	22.2*	12.873	S	73.891	W	33 N			1.3	8	PERU
27	16	24	41.9	37.506	N	76.686	E	33 N	4.3		1.3	16	SOUTHERN XINJIANG, CHINA
27	16	48	26.4?	70.97	N	11.08	W	10 G	3.9		0.7	6	JAN MAYEN ISLAND REGION. MD 2.4 (BER).
27	16	55	10.7	31.538	S	67.762	W	10 G			0.7	6	SAN JUAN PROVINCE, ARGENTINA
27	18	36	06.9	48.010	N	9.343	E	10 G			1.2	9	GERMANY. ML 2.6 (FUR), 2.8 (LDG).
27	18	38	14.6*	19.006	N	144.954	E	613 ?	4.3		0.2	13	MARIANA ISLANDS
27	19	52	40.2	38.532	N	23.550	E	21	4.4		1.1	70	GREECE. ML 4.2 (ATH), 3.9 (THE).
27	19	59	02.9?	7.20	N	126.44	E	99 ?	4.3		0.6	7	MINDANAO, PHILIPPINE ISLANDS
27	21	21	53.7&	36.678	N	121.350	W	5				18	CENTRAL CALIFORNIA. <BRK>. ML 3.4 (BRK).
27	21	42	55.7&	36.673	N	121.367	W	2				17	CENTRAL CALIFORNIA. <BRK>. ML 3.0 (BRK).
27	22	06	08.9&	38.788	N	122.742	W	7				15	NORTHERN CALIFORNIA. <BRK>. ML 4.4 (BRK). Ma=1.2*10**15 Nm (BRK). Felt (IV) at Cabb. Felt (III) at Lach Lamond and Middletawn.
27	22	50	12.8	41.632	N	22.764	E	10 G			0.9	8	YUGOSLAVIA. ML 2.1 (SKO).
27	23	14	46.4*	12.963	N	143.034	E	140 ?	4.6		0.7	11	SOUTH OF MARIANA ISLANDS
27	23	18	18.2*	38.321	S	74.425	W	33 N	5.0	4.1	1.4	17	OFF COAST OF CENTRAL CHILE
27	23	29	37.9%	39.486	N	28.980	E	10 G			0.6	6	TURKEY
27	23	53	02.4	18.545	N	68.930	W	154 D	4.5		1.0	57	MONA PASSAGE. Felt in the Dominican Republic. Also felt slightly at Aguas Buenas, Puerto Rico.
28	01	10	53.5?	39.86	N	23.85	E	10 G			0.8	8	AEGEAN SEA
28	01	23	56.5?	4.17	S	152.96	E	116 ?	4.3		1.5	7	NEW BRITAIN REGION
28	01	25	28.9?	17.52	S	178.97	E	622 *	4.4		1.2	12	FIJI ISLANDS
28	02	52	44.2*	40.115	N	21.561	E	10 G			1.4	6	GREECE
28	03	58	49.2*	5.883	S	105.670	E	105 *	5.3		1.3	71	SUNDA STRAIT
28	04	20	51.2*	36.451	N	2.589	E	10 G			1.0	16	ALGERIA. mbLg 3.6 (MDD). Felt at Algiers.
28	04	41	42.9	38.186	N	23.028	E	125 *			0.9	26	GREECE
28	04	59	59.1	43.313	N	102.504	W	5 G			0.9	16	SOUTH DAKOTA. mbLg 3.9 (NEIS), 4.0 (TUL). Felt (V) at Oglala; (IV) at Manderson; (III) at Edgemont, Hot Springs, Pine Ridge and Rapid City. Felt (III) at Gordon and (II) at Chodron, Nebroska.
28	06	07	04.7&	55.809	N	155.014	W	98				15	SOUTH OF ALASKA. <AGS-P>.
28	06	08	19.1?	51.51	N	16.22	E	10 G			1.1	4	POLAND. ML 3.2 (VKA).
28	07	28	41.0?	31.08	S	179.10	W	261 ?	4.3		1.2	9	KERMADEC ISLANDS REGION
28	07	36	08.6	49.165	N	6.810	E	10 G			1.1	17	GERMANY. MD 2.8 (STR), 2.9 (UCC). ML 3.0 (KBA).
28	09	14	47.0%	41.132	N	28.649	E	10 G			0.8	6	TURKEY
28	09	34	14.1?	39.11	N	27 61	E	10 G			0.1	4	TURKEY
28	10	01	33.1?	5.23	S	152.94	E	113 ?	3.5		0.6	5	NEW BRITAIN REGION
28	10	06	32.6%	37.741	N	15.022	E	10 G			0.3	5	SICILY
28	10	07	12.3?	37.86	N	15 03	E	10 G			0.0	4	SICILY
28	10	09	25.5%	37.796	N	14 977	E	10 G			1.1	9	SICILY
28	10	14	51.2%	37.787	N	14 970	E	10 G			0.9	8	SICILY
28	10	21	31 6	42.615	N	26.242	E	10 G			1 1	21	BULGARIA
28	10	22	44.5*	42.678	N	26 299	E	10 G			0.7	7	BULGARIA
28	10	24	32.0?	37.76	N	15.07	E	10 G			1.5	4	SICILY
28	10	25	14.3%	41.698	N	12.808	E	10 G			0.5	5	SOUTHERN ITALY
28	11	00	33.1%	37.782	N	15.030	E	10 G			0.8	11	SICILY
28	11	15	30.3*	16.733	S	167.656	E	27 D	5.1		1.3	34	VANUATU ISLANDS
28	11	40	11.3%	39.356	N	28.336	E	10 G			0.4	6	TURKEY
28	12	26	03.4?	37.99	N	14.97	E	10 G			0 9	4	SICILY
28	12	49	12.5*	40.607	N	21.376	E	10 G			1.0	6	GREECE ML 2.7 (SKO), 2.4 (THE).
28	13	54	28.0?	35.54	N	51.72	E	10 G			0.8	5	IRAN
28	17	10	52.3&	63.603	N	149.877	W	146				19	CENTRAL ALASKA. <AGS-P>.
28	17	34	11.9*	7.024	S	150.027	E	33 N	4.2		1 4	5	NEW BRITAIN REGION
28	17	51	30.6	36.120	N	27.119	E	10 G			0.8	16	DODECANESE ISLANDS. ML 4.0 (ATH).
28	18	36	24.2	36.060	N	27.190	E	10 G			1.5	24	DODECANESE ISLANDS ML 3.9 (ATH), 4.2 (CSS).
28	19	36	09.6	36.156	N	27.166	E	10 G			1.0	10	DODECANESE ISLANDS ML 3 9 (ATH).
28	20	24	55.7%	13.120	S	75.892	W	33 N			0.1	5	PERU
28	20	40	42.3*	16.084	S	72.233	W	10 G			1.2	8	NEAR COAST OF PERU
28	21	41	38.9*	30.733	N	41.663	W	10 G	4.6	3.9	0.9	14	NORTH ATLANTIC RIDGE
28	22	43	16.9	30.902	N	41.537	W	18 D	4.8	4 1	0 9	54	NORTH ATLANTIC RIDGE
29	00	11	43.5	41.759	N	24.361	E	10 G			0.8	14	GREECE-BULGARIA BORDER REGION

	29	00	16	43.9	51.676	N	175.303	W	56		5.0	4.5	0.9	117	ANDREANOF ISLANDS, ALEUTIAN IS.
	29	01	07	50.0?	41.71	N	24.29	E	10	G			0.5	5	GREECE-BULGARIA BORDER REGION. ML 2.3 (THE).
	29	02	09	08.8	50.411	N	5.957	E	10	G			1.0	15	BELGIUM. MD 2.3 (UCC). ML 2.6 (LDG).
	29	02	21	07.5%	39.173	N	28.337	E	10	G			0.3	5	TURKEY
	29	02	29	50.8?	9.91	S	123.39	E	33	N	3.9		0.7	5	TIMOR
	29	02	41	23.9	18.271	N	102.547	W	39	D	5.4	4.4	1.1	108	MICHOACAN, MEXICO
	29	02	50	22.5&	59.051	N	145.122	W	10	G				10	GULF OF ALASKA. <AGS-P>.
	29	03	51	41.2	43.970	N	7.435	E	10	G			0.3	6	NEAR SOUTH COAST OF FRANCE. MD 1.0 (STR).
	29	03	51	56.6	40.844	N	23.221	E	10	G			1.2	23	GREECE. ML 3.7 (THE), 3.5 (ATH), 3.7 (SKO).
	29	04	47	01.0%	31.336	S	67.935	W	10	G			0.5	5	SAN JUAN PROVINCE, ARGENTINA
	29	05	28	13.2%	23.568	N	120.940	E	10	G			0.2	5	TAIWAN
	29	06	08	43.0	40.732	N	23.311	E	10	G			0.4	8	GREECE. ML 2.3 (THE), 2.1 (SKO).
	29	06	11	33.9%	23.571	N	120.954	E	10	G			0.4	7	TAIWAN
	29	06	23	32.6%	44.624	N	8.235	E	10	G			0.9	5	NORTHERN ITALY. ML 1.6 (GEN).
	29	06	48	37.7?	31.23	N	39.57	W	20	D	4.4		1.0	11	NORTH ATLANTIC RIDGE
	29	08	16	00.6?	39.20	N	27.80	E	10	G			0.6	4	TURKEY
	29	09	56	36.2?	39.06	N	27.53	E	10	G			0.1	4	TURKEY
	29	10	29	45.1	44.766	N	7.167	E	13				0.6	12	NORTHERN ITALY. ML 2.3 (GEN).
	29	10	37	10.3*	40.190	N	142.324	E	48	D	4.8	4.0	1.2	30	NEAR EAST COAST OF HONSHU, JAPAN
	29	11	09	07.9%	1.061	S	78.183	W	10	G			0.9	5	ECUADOR
	29	12	19	16.4?	43.54	N	7.57	E	10	G			0.2	6	NEAR SOUTH COAST OF FRANCE. ML 2.5 (GEN).
	29	12	54	43.9%	44.592	N	8.245	E	10	G			0.4	6	NORTHERN ITALY. ML 2.1 (GEN).
	29	13	01	45.1	39.964	N	23.936	E	10	G	4.3		0.9	64	AEGEAN SEA. ML 4.0 (THE), 4.1 (ATH).
	29	13	08	36.7	39.953	N	23.820	E	10	G			0.9	10	AEGEAN SEA. ML 2.7 (THE).
	29	13	11	36.6%	44.543	N	8.275	E	10	G			0.2	6	NORTHERN ITALY. ML 2.1 (GEN).
	29	13	13	21.8%	44.551	N	8.281	E	10	G			0.4	6	NORTHERN ITALY. ML 2.1 (GEN).
	29	13	15	42.6%	44.560	N	8.273	E	10	G			0.1	6	NORTHERN ITALY. ML 2.0 (GEN).
	29	13	16	10.6&	34.463	N	106.879	W	12		4.5			46	NEW MEXICO. <SNM>. mbLg 4.8 (TUL). Slight damage (VI) at Jaroles. Felt (V) at Albuquerque and Bosque; (IV) at Belen, Los Lunas, Magdalena and Tome; (III) at Mountainair; (II) at Isleta, Peralta and Socarro.
	29	14	30	14.7?	31.81	S	179.72	W	501	?	3.9		1.2	16	KERMADEC ISLANDS REGION
	29	14	54	07.1	38.342	N	21.883	E	10	G			1.2	13	GREECE. ML 3.0 (THE). MD 3.2 (ATH).
	29	15	05	50.0?	2.44	S	27.80	W	10	G	4.5	4.1	0.5	7	SOUTH ATLANTIC OCEAN
	29	15	35	31.8*	39.991	N	23.770	E	10	G			1.3	8	AEGEAN SEA
	29	15	48	18.6*	41.948	N	141.650	E	33	N	4.4		0.5	6	HOKKAIDO, JAPAN REGION
	29	16	05	38.4	39.980	N	23.694	E	10	G			1.1	14	AEGEAN SEA. MD 3.2 (ATH).
	29	16	56	43.4%	44.343	N	8.260	E	10	G			0.3	5	NORTHERN ITALY. ML 1.8 (GEN).
	29	18	34	41.1	39.955	N	23.771	E	10	G			1.2	9	AEGEAN SEA
	29	19	41	47.4	38.117	N	86.424	W	5	G			0.8	12	SOUTHERN INDIANA. mbLg 2.9 (NEIS). Felt (III) at Magnet and (II) at Leavenworth. Also felt in Meade County, Kentucky.
	29	19	50	57.5	27.188	N	129.417	E	29	D	5.1		1.2	40	RYUKYU ISLANDS
	29	20	01	38.6?	13.91	N	95.57	E	33	N			1.6	5	ANDAMAN ISLANDS REGION
	29	20	18	29.9%	40.831	N	28.066	E	10	G			0.3	5	TURKEY
	29	20	34	20.2	6.104	N	94.683	E	98	D	5.0		0.9	118	NICOBAR ISLANDS REGION
	29	20	57	25.3	51.942	N	169.500	W	33	N	5.0		1.2	89	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.6 (PMR).
	29	21	13	08.4*	36.782	N	26.581	E	10	G			0.7	6	DODECANESE ISLANDS. MD 3.1 (ATH).
	29	21	41	43.5*	8.669	N	127.426	E	33	?	4.7	4.4	1.3	23	PHILIPPINE ISLANDS REGION
	29	23	24	04.8%	36.574	N	23.011	E	10	G			0.3	5	SOUTHERN GREECE. ML 3.0 (ATH).
	30	02	38	08.5	36.070	N	26.910	E	10	G			0.9	9	DODECANESE ISLANDS. MD 3.7 (ATH).
	30	02	54	12.6&	60.245	N	152.582	W	101					21	SOUTHERN ALASKA. <AGS-P>.
	30	03	15	02.2	43.008	N	145.460	E	41	D	5.5	4.3	0.8	284	HOKKAIDO, JAPAN REGION
	30	03	42	16.9%	60.778	N	4.690	E	10	G			0.7	5	SOUTHERN NORWAY. MD 2.1 (BER).
	30	04	10	31.3&	61.376	N	149.991	W	34					50	SOUTHERN ALASKA. <AGS-P>. ML 3.4 (PMR). Felt (IV) at Fort Richardson, (III) at Anchorage and (II) at Palmer.
	30	04	46	47.2*	20.634	S	178.657	W	613	*	4.7		1.0	13	FIJI ISLANDS REGION
	30	05	03	34.7%	39.154	N	16.771	E	10	G			1.5	5	SOUTHERN ITALY
	30	05	07	18.6&	36.543	N	121.177	W	4					16	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK).
	30	05	47	56.2?	18.99	S	168.26	E	149		4.7		0.5	9	VANUATU ISLANDS
	30	07	12	37.8&	61.410	N	150.024	W	35					48	SOUTHERN ALASKA. <AGS-P>. ML 3.3 (PMR). Felt (II) at Anchorage and Palmer.
	30	08	12	12.9%	43.393	N	5.427	E	10	G			0.7	15	NEAR SOUTH COAST OF FRANCE. MD 2.8 (STR).
	30	08	34	05.9	38.203	N	28.844	E	10	G			0.7	13	TURKEY
	30	09	16	07.3?	39.11	N	27.54	E	10	G			0.5	4	TURKEY
	30	10	16	48.1%	38.277	N	29.242	E	10	G			0.3	5	TURKEY
	30	11	10	46.7%	35.763	N	52.276	E	10	G			0.6	6	IRAN. Felt at Firuzkuh.
	30	11	16	24.5&	60.117	N	152.968	W	117					35	SOUTHERN ALASKA. <AGS-P>.
	30	12	43	58.2&	62.138	N	147.906	W	9					50	CENTRAL ALASKA. <AGS-P> ML 2.7 (PMR).
	30	14	01	37.8%	40.442	N	23.485	E	10	G			0.2	5	GREECE
	30	14	19	31.5%	44.319	N	8.371	E	10	G			1.0	6	NORTHERN ITALY. ML 1.9 (GEN).
	30	15	06	26.0	28.599	N	85.714	E	52	?	4.5		1.5	22	NEPAL
	30	16	33	26.2?	45.82	N	16.13	E	10	G			1.3	5	YUGOSLAVIA. ML 2.0 (ZAG), 2.0 (KBA).
	30	17	21	58.3%	18.314	N	66.461	W	33	N			0.6	5	PUERTO RICO REGION
	30	17	41	44.5?	33.12	S	72.42	W	33	N			1.4	8	OFF COAST OF CENTRAL CHILE
a	30	18	14	12.8	23.398	S	179.094	E	548		5.3		1.0	110	SOUTH OF FIJI ISLANDS
	30	18	37	45.1?	5.03	S	139.58	E	33	N	4.4		0.5	4	WEST IRIAN
	30	19	58	45.7	34.396	N	136.306	E	370		4.9		0.8	86	SOUTHERN HONSHU, JAPAN
	30	21	03	54.7?	44.77	N	15.06	E	10	G			0.3	6	YUGOSLAVIA. MD 2.8 (LJU), 2.5 (TRI).
	30	21	30	42.5%	37.898	N	16.070	E	10	G			0.3	5	IONIAN SEA
	30	21	46	15.2%	39.760	N	29.459	E	10	G			0.8	6	TURKEY
	30	22	59	33.6*	71.134	N	6.012	W	10	G			0.1	6	JAN MAYEN ISLAND REGION. MD 2.0 (BER).
	31	00	35	49.2&	61.536	N	146.523	W	30					38	SOUTHERN ALASKA. <AGS-P>.
	31	00	37	44.2	48.064	N	9.291	E	5	G			0.6	11	GERMANY. ML 2.5 (FUR), 2.8 (LDG), 2.2 (KBA).
	31	00	46	13.0?	32.40	S	70.99	W	119	*	4.2		1.3	17	CHILE-ARGENTINA BORDER REGION
	31	00	58	33.4?	44.89	N	11.32	E	10	G			1.4	4	NORTHERN ITALY. ML 2.0 (KBA).
	31	01	08	19.2	34.445	N	106.860	W	10	G			0.7	15	NEW MEXICO. mbLg 4.0 (TUL). Felt (V) at Belen and Bosque, (IV) at Jaroles and (II) at Socorro. Also felt at Bernardo and Los Lunas.
	31	02	04	06.6%	39.158	N	16.736	E	10	G			0.8	8	SOUTHERN ITALY
	31	02	18	19.6?	26.39	N	129.29	E	33	N	4.6		1.2	7	RYUKYU ISLANDS
	31	02	46	08.3	38.377	N	20.291	E	50		4.1		1.1	71	GREECE
	31	02	51	26.1?	44.46	N	6.53	E	10	G			0.1	5	FRANCE ML 1.9 (GEN).

31	03	33	36.1*	19.177	S	69.406	W	117	?		1.0	6 NORTHERN CHILE
31	04	09	24.5&	32.470	N	115.240	W	6	G			3 CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.0 (PAS).
31	05	04	57.8%	46.073	N	8.038	E	10	G		1.0	10 SWITZERLAND
31	07	53	45.6?	31.73	S	71.03	W	10	G		1.3	5 NEAR COAST OF CENTRAL CHILE
31	08	59	29.8?	35.45	N	23.74	E	5	G		1.8	5 CRETE
31	09	15	43.0*	43.483	N	16.233	E	10	G		0.3	5 YUGOSLAVIA
31	09	17	51.3?	29.87	S	178.54	W	194	?	4.7	1.6	13 KERMADEC ISLANDS
31	10	16	14.5	41.415	N	22.662	E	16		4.6	1.1	167 YUGOSLAVIA. ML 4.5 (THE), 4.3 (ATH). Felt (VI) in the Valandovo area.
31	10	33	45.4*	41.329	N	22.686	E	10	G		0.2	5 YUGOSLAVIA. ML 2.1 (SKO).
31	11	35	09.0%	0.181	S	77.763	W	10	G		0.2	6 ECUADOR
31	13	09	10.0*	29.693	N	67.950	E	33	N	4.5	1.4	19 PAKISTAN
31	13	12	13.2&	37.172	N	121.948	W	5				13 CENTRAL CALIFORNIA. <BRK>. ML 2.9 (BRK). Felt at San Jose and Santa Cruz.
31	13	12	49.8&	37.173	N	121.952	W	6				5 CENTRAL CALIFORNIA. <BRK>. ML 2.9 (BRK). Felt at San Jose and Santa Cruz.
31	14	56	30.5*	41.633	N	82.088	E	33	N	4.4	1.3	7 SOUTHERN XINJIANG, CHINA
31	15	00	31.8	39.475	N	26.095	E	15		4.3	1.1	54 TURKEY. ML 3.7 (ATH), 4.0 (THE).
31	15	25	29.7?	49.67	N	6.00	E	10	G		0.8	4 FRANCE
31	15	57	43.0?	16.09	N	98.21	W	33	N		1.2	5 NEAR COAST OF GUERRERO, MEXICO
31	16	01	17.3*	41.240	N	22.632	E	10	G		0.6	5 YUGOSLAVIA. ML 1.8 (SKO).
31	16	23	14.0	37.151	N	21.171	E	10	G		0.8	12 SOUTHERN GREECE. MD 3.6 (ATH).
31	17	46	38.0&	64.026	N	148.190	W	109				26 CENTRAL ALASKA. <AGS-P>.
31	19	12	25.4	37.953	N	24.394	E	10	G		1.2	9 SOUTHERN GREECE. ML 2.7 (ATH).
31	19	28	59.4?	41.24	N	24.13	E	10	G		0.2	4 GREECE-BULGARIA BORDER REGION
31	19	40	25.8	41.411	N	22.715	E	10	G		0.6	21 YUGOSLAVIA. ML 2.9 (SKO), 3.0 (THE). Felt (III) in the Valandovo area.
31	19	58	31.0	39.101	N	25.929	E	28		3.7	1.0	56 AEGEAN SEA. ML 3.8 (ATH), 3.9 (THE).
31	20	03	09.4	41.347	N	22.731	E	10	G		1.3	8 YUGOSLAVIA. ML 1.8 (SKO).
31	20	22	13.6	42.172	N	15.664	E	32			1.2	56 ADRIATIC SEA. ML 4.0 (LDG), 3.5 (KBA).
31	20	29	54.0	42.119	N	15.545	E	10	G		1.1	7 ADRIATIC SEA
31	20	30	41.2&	64.026	N	148.147	W	103				25 CENTRAL ALASKA. <AGS-P>.
31	20	32	14.3?	41.79	N	23.74	E	5	G		0.2	4 GREECE-BULGARIA BORDER REGION
31	20	37	36.8?	22.45	N	121.54	E	10	G		0.6	6 TAIWAN REGION
31	21	00	46.1	16.014	N	92.608	W	192		4.7	1.0	33 CHIAPAS, MEXICO
31	21	48	57.0	42.162	N	15.535	E	10	G		1.0	10 ADRIATIC SEA
31	22	15	01.3%	10.360	N	61.170	W	33	N		0.2	5 TRINIDAD. MD 2.6 (TRN).
31	22	47	12.8&	59.768	N	152.027	W	64				22 SOUTHERN ALASKA. <AGS-P>.
31	22	58	18.6	42.154	N	15.609	E	24			1.1	53 ADRIATIC SEA. MD 4.1 (TRI). ML 4.1 (LDG).
31	23	27	43.8?	45.04	N	5.57	E	10	G		0.1	6 FRANCE

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 07 49 35.57 21.772S 179.361W 600km
5.2mb (43 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 22C
Centroid Location:
Origin Time 07:49:45.9 1.0
Lat 21.70S 0.08 Lon 179.78W 0.08
Dep 627.1 5.2 Half-duration 1.9
Principal Axes:
Scale 10**17 Nm
T Val= 1.59 Plg=62 Azm=128
N -0.19 2 34
P -1.40 28 303
Best Double Couple:Mo=1.5*10**17
NP1:Strike= 29 Dip=17 Slip= 84
NP2: 215 73 92

01 14 49 00.69 10.507S 161.387E 37km
5.2mb (12 obs.) 4.8Msz (3 obs.)
SOLOMON ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 18C
Centroid Location:
Origin Time 14:49: 7.6 0.6
Lat 10.71S 0 10 Lon 160.88E 0 09
Dep 30.1 6.1 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 7.54 Plg=66 Azm=174
N -1.07 22 335
P -6.48 7 68
Best Double Couple:Mo=7.0*10**16
NP1:Strike=181 Dip=43 Slip= 124
NP2: 318 56 63

01 16 07 27.32 7.183S 125.242E 527km
5.2mb (21 obs.)
BANDA SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 21C
Centroid Location:
Origin Time 16.07:30.8 0.8
Lat 7.01S 0.10 Lon 125.52E 0.12
Dep 545.2 6.7 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 11.17 Plg=11 Azm=295
N -2.97 18 201
P -8.20 69 56
Best Double Couple:Mo=9.7*10**16
NP1:Strike= 47 Dip=37 Slip= -59
NP2: 190 59 -111

01 17 21 38.88 19.151S 167.313E 10km
5.2mb (19 obs.) 4.7Msz (5 obs.)
VANUATU ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 24C
Centroid Location:
Origin Time 17:21:50.0 0.7
Lat 19.12S 0.08 Lon 166.44E 0.08
Dep 41.7 4.9 Half-duration 1.7
Principal Axes:
Scale 10**17 Nm
T Val= 1.20 Plg= 9 Azm= 83
N -0.33 11 352
P -0.88 76 212
Best Double Couple:Mo=1.0*10**17
NP1:Strike=186 Dip=37 Slip= -72
NP2: 344 55 -103

02 01 25 06.56 8.344N 127.441E 41km
5.4mb (34 obs.) 4.9Msz (6 obs.)
PHILIPPINE ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 19C
Centroid Location:
Origin Time 01:25: 9.6 0.5
Lot 8.27N 0.05 Lon 127.89E 0.09
Dep 15.0 BDY Half-duration 2.2
Principal Axes:
Scale 10**17 Nm
T Val= 3.77 Plg=21 Azm=241
N -0.88 6 149
P -2.90 68 44
Best Double Couple:Mo=3.3*10**17
NP1:Strike=342 Dip=25 Slip= -76
NP2: 146 66 -96

02 20 21 32.62 13.408N 144 439E 136km
5.7mb (48 obs.)
MARIANA ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 65 Dip=65 Slip= 90
NP2: 245 25 90
Principal Axes:
T Plg=70 Azm=335
P 20 155
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
RADIATED ENERGY
No. of sta: 5 Focal mech. F
Energy 2.1±0.7*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 129 No. of sta: 18
Principal Axes:
Scale 10**17 Nm
T Val= 5.09 Plg=53 Azm=307
N -0.03 15 59
P -5.06 33 159
Best Double Couple:Mo=5.1*10**17
NP1:Strike=292 Dip=19 Slip= 145
NP2: 56 79 74
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 33C
Centroid Location:
Origin Time 20:21:38.3 0.2
Lat 13.09N 0.03 Lon 144.05E 0.04
Dep 147.5 1.4 Half-duration 3.1
Principal Axes:
Scale 10**17 Nm
T Val= 5.76 Plg=61 Azm=330
N 0.12 2 64
P -5.87 29 156
Best Double Couple:Mo=5.8*10**17
NP1:Strike=253 Dip=16 Slip= 99
NP2: 64 74 87

02 21 38 18.61 2.550S 127.713E 34km
5.4mb (25 obs.) 4.7Msz (7 obs.)
CERAM SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 27C
Centroid Location:
Origin Time 21:38:21.3 0.6
Lat 1.81S 0.08 Lon 128.32E 0.10

Dep 55.4 6.7 Half-duration 1.9
Principal Axes:
Scale 10**17 Nm
T Val= 1.76 Plg= 4 Azm=333
N -0.60 49 68
P -1.16 41 240
Best Double Couple:Mo=1.5*10**17
NP1:Strike= 25 Dip=59 Slip=-151
NP2: 279 66 -34

04 05 32 21.04 15.397S 172.850W 54km
6.4mb (45 obs.) 6.4Msz (33 obs.)
SAMOA ISLANDS REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=140 Dip=60 Slip= -90
NP2: 320 30 -90
Principal Axes:
T Plg=15 Azm=230
P 75 50
Comment: The focal mechanism is poorly controlled and corresponds to normal faulting. The preferred fault plane is NP1.
RADIATED ENERGY
No. of sta: 14 Focal mech. F
Energy 1.0±0.2*10**14 Nm
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 39C M.W.: 11S, 22C
Centroid Location:
Origin Time 05:32:30.5 0.2
Lat 15.45S 0.02 Lon 173.17W 0.02
Dep 59.8 1.0 Half-duration 7.1
Principal Axes:
Scale 10**18 Nm
T Val= 6.24 Plg=14 Azm=214
N 0.82 25 311
P -7.06 61 98
Best Double Couple:Mo=6.7*10**18
NP1:Strike=274 Dip=38 Slip=-133
NP2: 144 63 -62

04 18 54 31.52 41.600S 85.278E 10km
5.0mb (8 obs.) 5.1Msz (1 obs.)
SOUTHEAST INDIAN RISE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 16C
Centroid Location:
Origin Time 18:54:39.2 1.5
Lat 41.54S 0.12 Lon 84.96E 0.13
Dep 15.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Val= 4.95 Plg= 0 Azm=174
N 0.60 90 180
P -5.55 0 84
Best Double Couple:Mo=5.2*10**16
NP1:Strike=219 Dip=90 Slip=-180
NP2: 309 90 0

04 22 24 01.17 3.156S 148.464E 33km
5.1mb (9 obs.) 4.4Msz (1 obs.)
BISMARCK SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 16C
Centroid Location:
Origin Time 22:24: 3.7 1.5
Lat 3.08S 0.11 Lon 148.29E 0.14
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 4 75 Plg= 4 Azm=321
N 1.27 68 60
P -6.01 21 230
Best Double Couple:Mo=5.4*10**16
NP1:Strike= 8 Dip=72 Slip=-167
NP2: 274 78 -18

04 23 25 57.19 32.381N 138.821E 248km
5.1mb (54 obs.)
SOUTH OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 14C
Centroid Location:
Origin Time 23:25:59.4 1.4
Lat 32.16N 0.12 Lon 138.79E 0.21
Dep 270.3 6.8 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 5.30 Plg=26 Azm= 62
N 1.82 62 216
P -7.12 11 327
Best Double Couple:Mo=6.2*10**16
NP1:Strike=102 Dip=64 Slip= 169
NP2: 197 80 26

05 07 16 51.78 41.836N 126.796W 10km
4.7mb (19 obs.) 5.1Msz (2 obs.)
OFF COAST OF NORTHERN CALIFORNIA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 26C
Centroid Location:
Origin Time 07:17: 1.0 0.6
Lat 42.28N 0.07 Lon 127.60W 0.07
Dep 15.0 FIX Half-duration 1.9
Principal Axes:
Scale 10**17 Nm
T Val= 1.43 Plg= 0 Azm= 94
N -0.04 0 4
P -1.38 90 180
Best Double Couple:Mo=1.4*10**17
NP1:Strike=184 Dip=45 Slip= -90
NP2: 4 45 -90

05 10 10 21.81 8.800S 106.442E 29km
5.3mb (21 obs.) 5.8Msz (8 obs.)
SOUTH OF JAVA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 18S, 39C
Centroid Location:
Origin Time 10:10:38.5 0.7
Lat 8.75S FIX;Lon 106.53E FIX
Dep 15.0 FIX Half-duration 2.8
Principal Axes:
Scale 10**17 Nm
T Val= 6.09 Plg=51 Azm=245
N -0.61 23 124
P -5.47 29 20
Best Double Couple:Mo=5.8*10**17
NP1:Strike= 64 Dip=26 Slip= 27
NP2: 309 78 113

05 13 03 44.30 19.258S 69.529W 109km
5.0mb (9 obs.)
NORTHERN CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 17C
Centroid Location:
Origin Time 13:03:50.6 0.5
Lat 19.47S 0.05 Lon 69.24W 0.06
Dep 132.0 2.3 Half-duration 1.8
Principal Axes:
Scale 10**17 Nm
T Val= 1.79 Plg=43 Azm= 76
N -0.26 7 172
P -1.53 46 270
Best Double Couple:Mo=1.7*10**17
NP1:Strike= 97 Dip= 7 Slip=-165
NP2: 353 88 -83

05 18 27 00.12 18.863N 106.795W 33km
5.4mb (52 obs.) 5.9Msz (12 obs.)
OFF COAST OF JALISCO, MEXICO
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 38C
Centroid Location:
Origin Time 18:27: 0.2 0.4
Lat 18.54N 0.03 Lon 106.83W 0.03
Dep 15.0 FIX Half-duration 3.8
Principal Axes:
Scale 10**17 Nm
T Val= 10.19 Plg= 0 Azm=239
N -0.23 90 180
P -9.96 0 149
Best Double Couple:Mo=1.0*10**18
NP1:Strike=284 Dip=90 Slip=-180
NP2: 14 90 0

06 21 44 56.26 10.681S 92.987E 15km
5.7mb (46 obs.) 5.5Msz (24 obs.)
SOUTH INDIAN OCEAN
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 60 Dip=73 Slip= 90
NP2: 240 17 90
Principal Axes:
T Plg=62 Azm=330
P 28 150
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
RADIATED ENERGY
No. of sta: 7 Focal mech. C
Energy 7.7±1.6*10**12 Nm
MOMENT TENSOR SOLUTION
Dep 20 No. of sta: 14
Principal Axes:
Scale 10**17 Nm
T Val= 6.93 Plg=43 Azm= 5
N 0.85 32 239
P -7.78 30 128
Best Double Couple:Mo=7.4*10**17
NP1:Strike=166 Dip=33 Slip= 14
NP2: 64 82 122
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 29C
Centroid Location:
Origin Time 21:45: 1.9 0.4
Lat 11.24S 0.05 Lon 92.57E 0.05
Dep 15.0 BDY Half-duration 3.4
Principal Axes:
Scale 10**17 Nm
T Val= 10.31 Plg=61 Azm=163
N 2.87 15 43
P -13.18 24 306
Best Double Couple:Mo=1.2*10**18
NP1:Strike= 8 Dip=25 Slip= 52
NP2: 229 70 106

07 09 06 43.44 15.947S 74.245W 48km
5.9mb (64 obs.) 5.3Msz (7 obs.)
NEAR COAST OF PERU
RADIATED ENERGY
No. of sta: 4 Focal mech. C
Energy 1.4±0.7*10**13 Nm
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 28C
Centroid Location:
Origin Time 09:06:51.1 0.4
Lat 16.31S 0.06 Lon 74.82W 0.11
Dep 30.2 5.1 Half-duration 2.1
Principal Axes:
Scale 10**17 Nm
T Val= 1.88 Plg=53 Azm=133
N -0.05 37 305
P -1.83 4 38
Best Double Couple:Mo=1.9*10**17
NP1:Strike=161 Dip=52 Slip= 140
NP2: 278 59 45

07 13 28 47.47 41.518N 142.053E 70km
5.2mb (54 obs.)
HOKKAIDO, JAPAN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 28C
Centroid Location:
Origin Time 13:28:52.2 0.4
Lat 41.19N 0 05 Lon 141.66E 0.05
Dep 52 0 4.6 Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.32 Plg=72 Azm=270
N 0 36 7 23
P -1.68 16 116
Best Double Couple:Mo=1.5*10**17
NP1:Strike=217 Dip=29 Slip= 105
NP2: 19 62 82

07 20 53 29.23 32.159S 57.447E 10km
5.3mb (35 obs.) 4.8Msz (3 obs.)
ATLANTIC-INDIAN RISE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 24C
Centroid Location:
Origin Time 20:53:36.7 1.0
Lat 31.94S 0.08 Lon 57.54E 0.10
Dep 15.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**17 Nm
T Val= 1.08 Plg= 0 Azm=183
N -0.29 90 180
P -0.79 0 93
Best Double Couple:Mo=0.9*10**17
NP1:Strike=228 Dip=90 Slip=-180
NP2: 318 90 0

08 19 06 44.41 13.254N 143.877E 141km
5.1mb (19 abs.)
SOUTH OF MARIANA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 21C
Centroid Location:
Origin Time 19:06:43.4 1.1
Lat 12.82N 0.09 Lon 143.94E 0.17
Dep 135.0 3.0 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	5.61	72	34
N	-0.13	15	246
P	-5.47	9	153

Best Double Couple:Mo=5.5*10**16

	Strike=	Dip=	Slip=
NP1:	226	38	65
NP2:	77	56	109

08 19 44 34.67 52.038N 169.446W 33km
5.6mb (68 abs.) 5.7Msz (21 abs.)
FOX ISLANDS, ALEUTIAN ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 39C
Centroid Location:
Origin Time 19:44:38.3 0.2
Lat 52.34N 0.03 Lon 169.51W 0.05
Dep 15.0 FIX Half-duration 3.9
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	12.22	63	347
N	1.14	8	240
P	-13.36	26	146

Best Double Couple:Mo=1.3*10**18

	Strike=	Dip=	Slip=
NP1:	218	21	66
NP2:	63	71	99

09 04 58 39.17 51.963N 169.383W 33km
5.4mb (62 abs.) 5.3Msz (13 abs.)
FOX ISLANDS, ALEUTIAN ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 37C
Centraid Location:
Origin Time 04:58:47.2 0.3
Lat 52.31N 0.03 Lon 169.24W 0.05
Dep 15.0 FIX Half-duration 3.0
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	5.61	63	353
N	0.84	11	239
P	-6.44	24	144

Best Double Couple:Mo=6.0*10**17

	Strike=	Dip=	Slip=
NP1:	211	24	60
NP2:	63	70	102

09 14 42 58.25 21.73BS 179.396W 604km
5.4mb (43 abs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 6S, 10C
Centraid Locotion:
Origin Time 14:43: 6.2 2.2
Lat 21.50S 0.17 Lon 179.76W 0.17
Dep 623.210.8 Half-duration 1.5
Principal Axes.
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	11 14	39	88
N	-0 40	29	205
P	-10 74	37	320

Best Double Couple:Mo=1.1*10**17

	Strike=	Dip=	Slip=
NP1:	112	29	177
NP2	205	89	61

09 15 35 49.07 11.591N 95 017E 33km
5.2mb (59 abs.) 5.3Msz (7 abs.)
ANDAMAN ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 21C
Centraid Locotion:
Origin Time 15:35:49.2 0.6
Lat 11.50N 0.03 Lon 95.01E 0 06
Dep 59.4 4.0 Half-duration 2.8
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	4.60	2	124
N	-0.12	80	21
P	-4.48	10	214

Best Double Couple:Mo=4.5*10**17

	Strike=	Dip=	Slip=
NP1:	258	81	-6
NP2:	349	84	-171

09 18 51 29.21 24.753N 95.241E 119km
6.1mb (83 abs.)
BURMA
FAULT PLANE SOLUTION: P-Waves

	Strike=	Dip=	Slip=
NP1:	250	62	37
NP2:	141	58	146

Principal Axes:

	Plg=	Azm=
T	45	107
P	3	14

Comment: The focal mechanism is moderately well cantralled and carresponds to strike-slip foulting with a large reverse campanent. The preferred fault plane is not determined.
RADIATED ENERGY
No. of sta: 4 Focal mech. C
Energy 1.1±0.5*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 119 No. of sta: 9
Principal Axes:
Scale 10**18 Nm

	Val=	Plg=	Azm=
T	3.85	57	167
N	-0.02	3	262
P	-3.83	33	354

Best Double Couple:Mo=3.8*10**18

	Strike=	Dip=	Slip=
NP1:	98	13	106
NP2:	261	78	86

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 28C M.W.: 12S, 23C
Centraid Location:
Origin Time 18:51:36.2 0.2
Lat 24.42N 0.02 Lon 94.95E 0.02
Dep 129.6 1.0 Half-duration 5.0
Principal Axes:
Scale 10**18 Nm

	Val=	Plg=	Azm=
T	3.44	58	142
N	-0.78	24	276
P	-2.67	20	16

Best Double Couple:Mo=3.0*10**18

	Strike=	Dip=	Slip=
NP1:	140	32	139
NP2:	267	69	64

10 03 09 18.85 39.646N 143.288E 34km
5.3mb (41 obs.)
OFF EAST COAST OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 21C
Centraid Location:
Origin Time 03:09:24.7 0.7
Lat 38.92N 0.12 Lon 142.78E 0.10
Dep 15.0 FIX Half-duration 2.6
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	3.65	58	282
N	0.29	3	16
P	-3.94	32	108

Best Double Couple:Mo=3.8*10**17

	Strike=	Dip=	Slip=
NP1:	207	13	101
NP2:	15	77	87

10 03 11 17.63 39.706N 143.306E 37km
5.7mb (48 obs.) 5.5Msz (5 obs.)
OFF EAST COAST OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 26C
Centraid Location:
Origin Time 03:11:21.1 0.6
Lat 40.01N FIX;Lon 142.97E FIX
Dep 15.0 FIX Half-durotion 3.3
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	5.69	49	314
N	0.16	21	197
P	-5.85	33	93

Best Double Couple:Mo=5.8*10**17

	Strike=	Dip=	Slip=
NP1:	132	23	23
NP2:	20	81	111

10 10 06 01.59 52.192S 13.514E 10km
5.5mb (12 obs.) 5.0Msz (3 obs.)
SOUTHWEST OF AFRICA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 19C
Centraid Location
Origin Time 10:06 9.7 0.4
Lat 52.04S 0.03 Lan 14 15E 0.12
Dep 15.0 FIX Half-duratian 2.0
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	1.48	0	203
N	-0.09	0	113
P	-1.38	90	180

Best Double Cauple:Mo=1.4*10**17

	Strike=	Dip=	Slip=
NP1:	293	45	-90
NP2:	113	45	-90

10 11 53 21.65 11.654N 95.143E 33km
5.3mb (46 obs.) 5.4Msz (7 abs.)
ANDAMAN ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 22C
Centroid Location:
Origin Time 11:53:22.8 0.5
Lat 11.71N 0.03 Lon 95.03E 0.05
Dep 61.0 3.2 Half-duration 2.5
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	7.51	7	125
N	-0.31	81	347
P	-7.20	6	216

Best Double Couple:Mo=7.3*10**17

	Strike=	Dip=	Slip=
NP1:	260	81	0
NP2:	170	90	171

10 13 10 12.33 52.117N 169.236W 33km
5.6mb (61 obs.) 5.3Msz (7 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 22C
Centraid Location:
Origin Time 13:10:17.6 0.5
Lat 52.23N 0.09 Lon 169.94W 0.15
Dep 15.0 FIX Half-duration 2.0
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	2.07	60	316
N	-0.56	1	47
P	-1.50	30	138

Best Double Couple:Mo=1.8*10**17

	Strike=	Dip=	Slip=
NP1:	231	15	94
NP2:	47	75	89

10 16 11 46.73 10.073S 123.819E 33km
5.6mb (43 abs.) 4.9Msz (12 obs.)
TIMOR
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 22C
Centroid Location:
Origin Time 16:11:46.8 0.9
Lat 10.32S 0.07 Lon 124.35E 0.08
Dep 58.7 4.1 Half-duration 2.0
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	1.45	57	60
N	0.61	33	252
P	-2.07	5	158

Best Double Couple:Mo=1.8*10**17

	Strike=	Dip=	Slip=
NP1:	218	49	44
NP2:	95	58	129

12 03 24 59.08 12.672N 87.489W 86km
5.3mb (19 abs.)
NEAR COAST OF NICARAGUA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 22C
Centraid Location:
Origin Time 03:25: 3.5 1.1
Lat 12.18N 0.11 Lon 87.65W 0.08
Dep 15.0 FIX Half-duration 2.0
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	2.53	63	75
N	0.34	12	321
P	-2.88	24	226

Best Double Couple:Mo=2.7*10**17

	Strike=	Dip=	Slip=
NP1:	293	24	60
NP2:	145	70	102

12 15 28 14.79 4.979N 126.508E 62km
5.4mb (37 abs.)
TALAUD ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 28C
Centroid Location:

Origin Time 15:28:15.1 0.3
Lat 4.77N 0.05 Lan 126.42E 0.05
Dep 48.4 3.1 Half-duration 2.8
Principal Axes:
Scale 10**17 Nm
T Val= 3.88 Plg=72 Azm=240
N 1.55 11 9
P -5.43 13 102
Best Double Cauple:Mo=4.7*10**17
NP1:Strike=207 Dip=33 Slip= 111
NP2: 2 59 77

13 02 07 26.84 16.826N 99.509W 28km
5.3mb (42 obs.) 5.0Msz (4 obs.)
NEAR COAST OF GUERRERO, MEXICO
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 20C
Centroid Location:
Origin Time 02:07:31.5 1.1
Lat 16.33N 0.09 Lan 99.67W 0.08
Dep 34.2 4.9 Half-duration 1.8
Principal Axes:
Scale 10**16 Nm
T Val= 10.00 Plg=65 Azm= 62
N 0.04 19 284
P -10.03 16 189
Best Double Couple:Mo=1.0*10**17
NP1:Strike=253 Dip=34 Slip= 54
NP2: 114 63 112

13 03 32 15.27 12.661N 125.038E 36km
5.3mb (30 obs.) 4.6Msz (4 obs.)
SAMAR, PHILIPPINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 14C
Centroid Locotion:
Origin Time 03:32:16.4 0.8
Lat 12.71N 0.07 Lan 125.28E 0.11
Dep 22.8 7.9 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 6.85 Plg=67 Azm=217
N -0.05 8 327
P -6.80 21 61
Best Double Couple:Mo=6.8*10**16
NP1:Strike=166 Dip=25 Slip= 110
NP2: 324 67 81

13 20 03 41.92 10.171S 117.826E 36km
5.2mb (24 obs.) 4.8Msz (11 obs.)
SOUTH OF SUMBAWA ISLAND
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 23C
Centraid Locatian:
Origin Time 20:03:49.7 1.2
Lat 10.05S 0.12 Lan 118.09E 0.11
Dep 56.7 5.8 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 11.80 Plg=59 Azm=196
N -3.87 29 353
P -7.94 10 88
Best Double Couple:Mo=9.9*10**16
NP1:Strike=209 Dip=43 Slip= 135
NP2: 335 61 57

13 20 18 17.75 10.812S 166.008E 47km
4.9mb (7 obs.)
SANTA CRUZ ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Dotd Used: GDSN
L.P.B.: 13S, 26C
Centroid Locotion:
Origin Time 20:18:26.2 0.4
Lat 11.14S 0.06 Lan 165.34E 0.05
Dep 53.4 3.6 Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.55 Plg=80 Azm=147
N 0.19 9 353
P -1.74 4 262
Best Double Couple:Mo=1.6*10**17
NP1:Strike=342 Dip=41 Slip= 76
NP2: 181 50 102

14 03 03 19.23 37.819N 91.971E 12km
6.1mb (88 obs.) 6.1Msz (16 obs.)
QINGHAI PROVINCE, CHINA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=260 Dip=72 Slip= 90
NP2: 80 18 90
Principal Axes:
T Plg=63 Azm=170
P 27 350
Comment: The focal mechanism is poorly controlled and correspands to reverse faulting. The preferred foult plane is NP2.
RADIATED ENERGY
No. of sto: 5 Facal mech. M
Energy 2.4±0.7*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 14 No. of sta: 11
Principal Axes:
Scale 10**18 Nm
T Val= 1.12 Plg=72 Azm= 96
N -0.06 17 254
P -1.06 7 346
Best Double Couple:Mo=1.1*10**18
NP1:Strike= 94 Dip=41 Slip= 116
NP2: 241 54 69
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 26C
Centroid Location:
Origin Time 03:03:30.9 0.6
Lat 37.60N 0.05 Lon 92.10E 0.10
Dep 15.0 BDY Half-durotian 3.8
Principal Axes:
Scale 10**18 Nm
T Val= 0.79 Plg=56 Azm=269
N 0.64 32 111
P -1.43 10 15
Best Double Couple:Mo=1.1*10**18
NP1:Strike= 72 Dip=45 Slip= 41
NP2: 310 63 127

14 21 04 03.26 29.709S 177.467W 58km
5.5mb (20 obs.) 6.0Msz (15 obs.)
KERMADEC ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 37C
Centroid Location:
Origin Time 21:04:12.7 0.4
Lat 29.52S 0.03 Lan 177.79W 0.04
Dep 30.1 1.9 Half-duration 4.1
Principal Axes:
Scale 10**18 Nm
T Val= 1.31 Plg=73 Azm=268
N 0.43 6 17
P -1.74 16 109
Best Double Couple:Mo=1.5*10**18
NP1:Strike=207 Dip=30 Slip= 102
NP2: 14 61 83

16 07 36 31.66 31.664S 178.085W 23km
5.4mb (14 obs.) 5.5Msz (14 obs.)
KERMADEC ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 37C
Centraid Location:
Origin Time 07:36:44.8 0.6
Lat 31.53S 0.05 Lan 178.30W 0.05
Dep 15.0 BDY Half-duration 2.6
Principal Axes:
Scale 10**17 Nm
T Val= 3.62 Plg=65 Azm=253
N 0.76 12 12
P -4.38 21 106
Best Double Couple:Mo=4.0*10**17
NP1:Strike=218 Dip=26 Slip= 119
NP2: 6 67 76

16 07 56 33.47 31.725S 177.996W 33km
5.4mb (11 obs.) 5.5Msz (3 obs.)
KERMADEC ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 26C
Centraid Location:
Origin Time 07:56:46.4 1.0
Lat 31.27S 0.07 Lan 178.26W 0 10
Dep 15.0 FIX Half-duration 2.4
Principal Axes:
Scale 10**17 Nm
T Val= 2.39 Plg=77 Azm= 4
N 1.12 12 197
P -3.50 3 106
Best Double Couple:Mo=3.0*10**17
NP1:Strike=183 Dip=44 Slip= 72
NP2: 28 49 107

16 10 52 08.28 31.587S 178.046W 33km
5.5mb (12 obs.) 5.4Msz (12 obs.)
KERMADEC ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 28C
Centraid Locotian:
Origin Time 10:52:15.7 0.5
Lat 31.53S 0.04 Lon 177.86W 0.05
Dep 15.0 FIX Half-durotion 2.3
Principal Axes:
Scale 10**17 Nm
T Val= 2.59 Plg=68 Azm=211
N 0.20 21 12
P -2.79 7 104
Best Double Couple:Mo=2.7*10**17
NP1:Strike=217 Dip=43 Slip= 122
NP2: 356 55 64

16 12 57 20.70 43.560N 127.402W 10km
4.8mb (19 obs.) 4.9Msz (3 obs.)
OFF COAST OF OREGON
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 28C
Centraid Locatian:
Origin Time 12:57:29.1 0.5
Lat 43.46N 0.06 Lan 128.28W 0.06
Dep 15.0 FIX Half-duration 2.3
Principol Axes:
Scale 10**17 Nm
T Val= 2.74 Plg= 4 Azm= 72
N 0.03 81 187
P -2.77 8 342
Best Double Couple:Ma=2.8*10**17
NP1:Strike=117 Dip=82 Slip=-177
NP2: 27 87 -8

16 20 08 22.00 40.232N 124.138W 2km
5.1mb (52 obs.) 5.5Msz (9 obs.)
NEAR COAST OF NORTHERN CALIF.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 23C
Centraid Locatian:
Origin Time 20:08:30.6 0.6
Lat 40.06N 0.05 Lan 124.94W 0.06
Dep 15.0 FIX Half-duration 2.2
Principal Axes:
Scale 10**17 Nm
T Val= 1.73 Plg= 0 Azm=262
N 0.46 90 180
P -2.19 0 172
Best Double Couple:Mo=2.0*10**17
NP1:Strike=307 Dip=90 Slip=-180
NP2: 37 90 0

17 12 05 29.84 43.589N 127.443W 10km
5.4mb (55 obs.) 5.2Msz (7 obs.)
OFF COAST OF OREGON
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 27C
Centraid Locatian:
Origin Time 12:05:36.7 0.5
Lat 43.52N 0.05 Lan 128.50W 0.05
Dep 15.0 FIX Half-duration 2.6
Principal Axes:
Scale 10**17 Nm
T Val= 3.70 Plg=16 Azm= 73
N -0.07 73 273
P -3.62 5 165
Best Double Couple:Mo=3.7*10**17
NP1:Strike=210 Dip=75 Slip= 8
NP2: 118 83 165

18 05 42 35.91 30.108S 177.665W 25km
5.5mb (24 obs.) 5.3Msz (2 obs.)
KERMADEC ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 24C
Centraid Locatian:
Origin Time 05:42:48.8 1.0
Lat 29.67S 0.06 Lan 177.93W 0.09
Dep 31.8 4.4 Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.29 Plg=76 Azm=355
N 0.68 13 196
P -1.97 5 105

Best Double Couple:Mo=1.6*10**17
NP1:Strike=181 Dip=42 Slip= 70
NP2: 27 51 107

18 12 45 23.60 30.141S 177.688W 13km
6.0mb (29 obs.) 5.8Msz (23 obs.)
KERMADEC ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=350 Dip=65 Slip= 90
NP2: 170 25 90
Principal Axes:
T Plg=70 Azm=260
P 20 80
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred foult plane is NP2.
RADIATED ENERGY
No. of sta: 4 Focal mech. M
Energy 2.9±1.3*10**12 Nm
MOMENT TENSOR SOLUTION
Dep 25 No. of sta: 16
Principal Axes:
Scale 10**17 Nm
T Val= 8.40 Plg=62 Azm=294
N 0.43 17 170
P -8.84 22 73
Best Double Couple:Mo=8.6*10**17
NP1:Strike=134 Dip=27 Slip= 51
NP2: 357 69 108
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 34C
Centroid Locotion:
Origin Time 12:45:39.7 0.5
Lat 29.74S 0.03 Lon 178.07W 0.04
Dep 32.5 2.1 Half-durotion 3.8
Principal Axes:
Scale 10**18 Nm
T Val= 1.01 Plg=74 Azm=263
N 0.40 6 15
P -1.41 15 107
Best Double Couple:Mo=1.2*10**18
NP1:Strike=206 Dip=30 Slip= 103
NP2: 12 60 83

18 19 59 22.09 5.286S 150.609E 136km
5.6mb (29 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 22C
Centroid Locotion:
Origin Time 19:59:25.3 0.6
Lat 5.50S 0.06 Lon 150.74E 0.06
Dep 148.4 1.5 Half-duration 2.3
Principal Axes:
Scale 10**17 Nm
T Val= 2.39 Plg= 9 Azm=148
N -0.34 16 241
P -2.04 71 30
Best Double Couple:Mo=2.2*10**17
NP1:Strike=220 Dip=39 Slip=-117
NP2: 72 56 -70

18 20 57 49.29 20.760S 178.487W 586km
5.7mb (40 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 24C
Centroid Locotion:
Origin Time 20:57:56.8 0.8
Lot 20.53S 0.07 Lon 178.87W 0.07
Dep 593.2 4.2 Half-durotion 2.9
Principal Axes:
Scale 10**17 Nm
T Val= 3.55 Plg=42 Azm=143
N 1.53 15 40
P -5.08 44 295
Best Double Couple:Mo=4.3*10**17
NP1:Strike=305 Dip=15 Slip= -4
NP2: 39 89 -105

20 01 27 09.80 35.832N 52.954E 25km
5.5mb (73 obs.) 5.9Msz (22 obs.)
IRAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 34C
Centroid Location:
Origin Time 01:27:13.2 0.2
Lat 35.58N 0.03 Lon 53.29E 0.03
Dep 33.0 FIX Half-durotion 3.7
Principal Axes:
Scale 10**17 Nm
T Val= 9.24 Plg=22 Azm=316
N 1.89 65 105
P -11.13 12 222
Best Double Couple:Mo=1.0*10**18
NP1:Strike=357 Dip=66 Slip= 172
NP2: 91 83 24

20 07 20 21.83 15.262S 173.376W 34km
5.5mb (25 obs.) 5.5Msz (10 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 28C
Centroid Locotion:
Origin Time 07:20:28.5 0.3
Lat 15.91S 0.05 Lon 173.13W 0.05
Dep 15.0 FIX Half-durotion 3.0
Principal Axes:
Scale 10**17 Nm
T Val= 6.14 Plg=47 Azm=324
N 0.16 29 196
P -6.30 28 89
Best Double Couple:Mo=6.2*10**17
NP1:Strike=130 Dip=32 Slip= 20
NP2: 22 79 120

20 09 13 13.96 6.649S 105.911E 64km
5.3mb (22 obs.)
SUNDA STRAIT
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 24C
Centroid Location:
Origin Time 09:13:19.5 0.7
Lat 7.06S 0.07 Lon 106.14E 0.09
Dep 58.8 4.4 Half-durotion 1.8
Principal Axes:
Scale 10**17 Nm
T Val= 1.44 Plg= 6 Azm=139
N -0.10 52 41
P -1.34 37 234
Best Double Couple:Mo=1.4*10**17
NP1:Strike=269 Dip=59 Slip= -24
NP2: 12 69 -147

20 16 59 00.89 6.082S 81.224W 26km
5.1mb (8 obs.) 5.2Msz (2 obs.)
NEAR COAST OF NORTHERN PERU
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 26C
Centroid Locotion:
Origin Time 16:59: 7.3 0.5
Lot 6.53S 0.08 Lon 81.25W 0.08
Dep 15.0 FIX Half-durotion 1.8
Principal Axes:
Scale 10**17 Nm
T Val= 1.64 Plg=63 Azm= 86
N 0.10 5 347
P -1.74 26 255
Best Double Couple:Mo=1.7*10**17
NP1:Strike=334 Dip=19 Slip= 76
NP2: 169 71 95

21 01 59 40.09 51.979N 170.007W 33km
5.2mb (51 obs.) 4.6Msz (6 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 20C
Centroid Locotion:
Origin Time 01:59:44.6 1.8
Lot 52.25N 0.26 Lon 170.57W 0.31
Dep 15.0 FIX Half-durotion 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 7.08 Plg=52 Azm=319
N -0.35 3 226
P -6.74 38 134
Best Double Couple:Mo=6.9*10**16
NP1:Strike=205 Dip= 8 Slip= 69
NP2: 46 83 93

21 16 43 44.67 21.098S 173.780W 33km
5.1mb (13 obs.) 5.0Msz (3 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used GDSN
L.P.B.: 13S, 29C
Centroid Locotion:
Origin Time 16:43:53.4 0.8
Lot 20.95S 0.06 Lon 174.09W 0.08
Dep 15.0 FIX Half-durotion 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.29 Plg=67 Azm=288
N 0.37 3 191
P -1.66 23 100
Best Double Couple:Mo=1.5*10**17
NP1:Strike=184 Dip=23 Slip= 82
NP2: 13 68 93

22 02 32 04.47 20.929S 173.870W 37km
5.4mb (27 obs.) 5.1Msz (11 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 22C
Centroid Locotion:
Origin Time 02:32:12.3 1.6
Lat 20.96S 0.08 Lon 173.78W 0.11
Dep 15.0 FIX Half-duration 1.9
Principal Axes:
Scale 10**17 Nm
T Val= 1.22 Plg=70 Azm= 25
N 0.35 20 198
P -1.57 2 289
Best Double Couple:Mo=1.4*10**17
NP1:Strike= 38 Dip=46 Slip= 118
NP2: 181 51 64

22 05 08 54.12 22.127S 169.993E 33km
5.0mb (6 obs.) 4.4Msz (1 obs.)
LOYALTY ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 21C
Centroid Location:
Origin Time 05:08:59.0 0.7
Lat 22.32S 0.16 Lon 169.67E 0.11
Dep 37.0 6.6 Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Val= 8.29 Plg=60 Azm=348
N -1.04 27 142
P -7.25 11 238
Best Double Couple:Mo=7.8*10**16
NP1:Strike=358 Dip=42 Slip= 134
NP2: 126 62 58

22 08 25 34.07 31.612S 178.083W 33km
5.2mb (4 obs.)
KERMADEC ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 27C
Centroid Location:
Origin Time 08:25:41.7 0.5
Lot 31.55S FIX;Lon 178.12W FIX
Dep 15.0 FIX Half-durotion 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.49 Plg=74 Azm=156
N 0.42 9 31
P -1.91 13 299
Best Double Couple:Mo=1.7*10**17
NP1:Strike= 16 Dip=33 Slip= 73
NP2: 216 58 101

22 17 26 11.46 3.885N 96.100E 46km
6.0mb (88 obs.) 5.8Msz (29 obs)
NORTHERN SUMATERA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=128 Dip=73 Slip= 90
NP2: 308 17 90
Principal Axes:
T Plg=62 Azm= 38
P 28 218
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred foult plane is NP2.
RADIATED ENERGY
No. of sta: 6 Focal mech. C
Energy 1.5±0.4*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 49 No. of sta: 13
Principal Axes:
Scale 10**18 Nm
T Val= 2.26 Plg=66 Azm= 25
N 0.02 1 116

P -2.28 24 207
Best Double Couple:Mo=2.3*10**18
NP1:Strike=298 Dip=21 Slip= 92
NP2: 116 69 89
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 41C
Centroid Location:
Origin Time 17:26:19.2 0.2
Lat 3.55N 0.03 Lon 95.93E 0.03
Dep 50.1 1.9 Half-duration 5.0
Principal Axes:
Scale 10**18 Nm
T Val= 2.33 Plg=72 Azm= 44
N 0.41 0 313
P -2.74 18 223
Best Double Couple:Mo=2.5*10**18
NP1:Strike=313 Dip=27 Slip= 89
NP2: 133 63 90

23 07 47 09.58 12.451S 75.069W 104km
5.5mb (72 obs.)
PERU
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 29C
Centroid Location:
Origin Time 07:47:16.2 0.4
Lat 12.50S 0.04 Lon 74.95W 0.05
Dep 113.4 2.2 Half-duration 2.5
Principal Axes:
Scale 10**17 Nm
T Val= 3.47 Plg= 9 Azm=236
N -0.25 4 145
P -3.22 80 30
Best Double Couple:Mo=3.3*10**17
NP1:Strike=330 Dip=37 Slip= -83
NP2: 142 54 -95

23 20 44 46.46 19.129N 121.236E 25km
5.1mb (18 obs.) 4.6Msz (2 obs.)
PHILIPPINE ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 21C
Centroid Location:
Origin Time 20:44:48.3 0.4
Lat 19.69N 0.06 Lon 121.68E 0.08
Dep 49.0 4.9 Half-duration 1.7
Principal Axes:
Scale 10**17 Nm
T Val= 1.06 Plg=30 Azm= 49
N 0.39 60 222
P -1.45 3 317
Best Double Couple:Mo=1.2*10**17
NP1:Strike= 89 Dip=67 Slip= 160
NP2: 187 71 24

24 19 33 31.11 14.603N 119.437E 23km
5.6mb (27 obs.) 5.8Msz (15 obs.)
LUZON, PHILIPPINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 22C
Centroid Location:
Origin Time 19:33:33.5 0.4
Lat 14.61N 0.04 Lon 118.69E 0.05
Dep 15.0 FIX Half-duration 2.8
Principal Axes:
Scale 10**17 Nm
T Val= 8.70 Plg=57 Azm= 68
N -0.40 13 179
P -8.29 29 277
Best Double Couple:Mo=8.5*10**17
NP1:Strike= 41 Dip=20 Slip= 133
NP2: 176 76 76

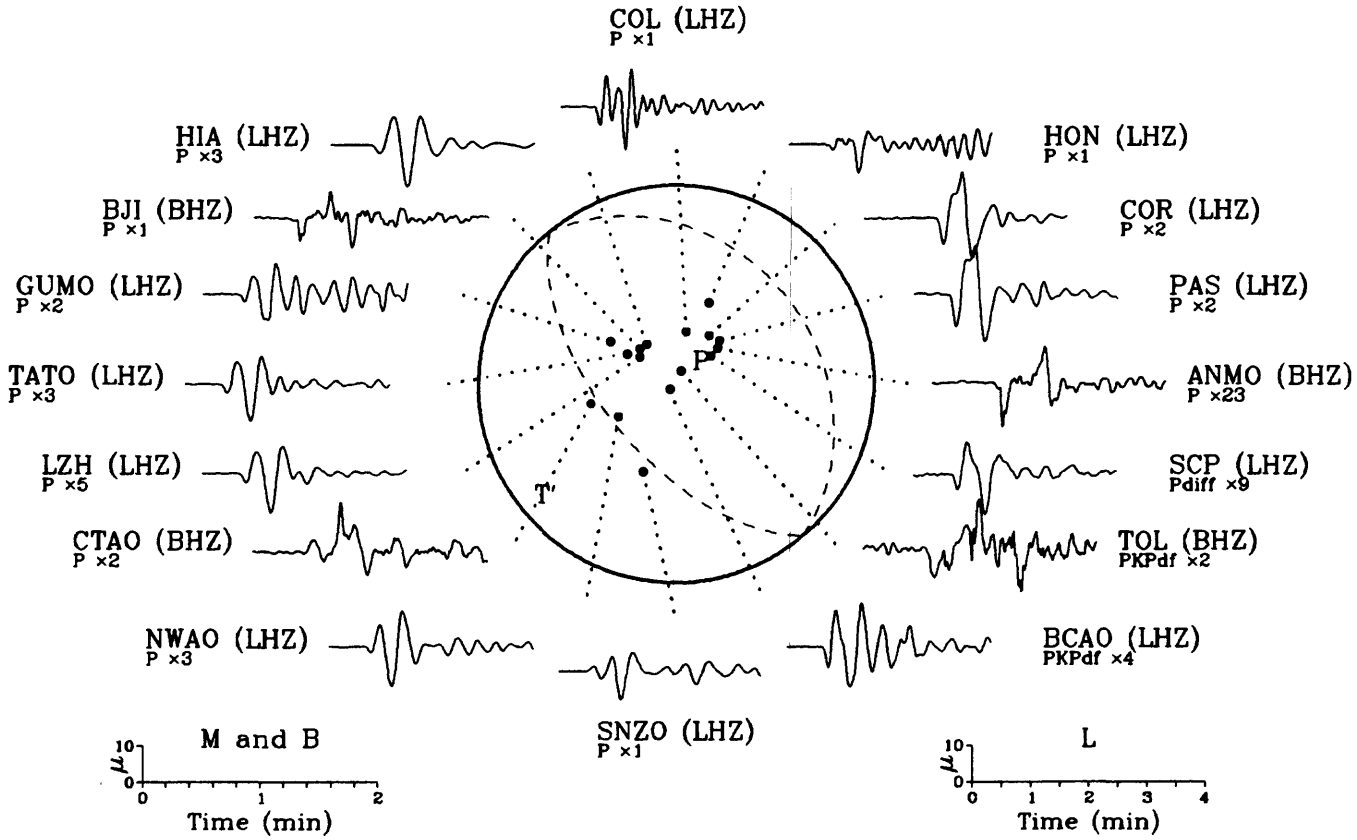
25 06 29 21.36 31.554S 177.580W 33km
5.2mb (9 obs.) 5.1Msz (2 obs.)
KERMADEC ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 17C
Centroid Location:
Origin Time 06:29:41.1 0.7
Lat 31.28S FIX;Lon 178.00W FIX
Dep 143.0 2.8 Half-duration 1.7
Principal Axes:
Scale 10**17 Nm
T Val= 1.48 Plg=39 Azm=281
N 0.09 4 14
P -1.56 50 110
Best Double Couple:Mo=1.5*10**17
NP1:Strike=336 Dip= 7 Slip=-128
NP2: 195 84 -86

27 00 34 55.04 6.913S 130.257E 109km
5.1mb (15 obs.)
BANDA SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 14C
Centroid Location:
Origin Time 00:35: 2.0 1.4
Lat 6.04S 0.12 Lon 129.83E 0.15
Dep 75.0 9.4 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 5.35 Plg=29 Azm=299
N 1.63 56 155
P -6.98 17 38
Best Double Couple:Mo=6.2*10**16
NP1:Strike= 82 Dip=57 Slip= 9
NP2: 347 82 147

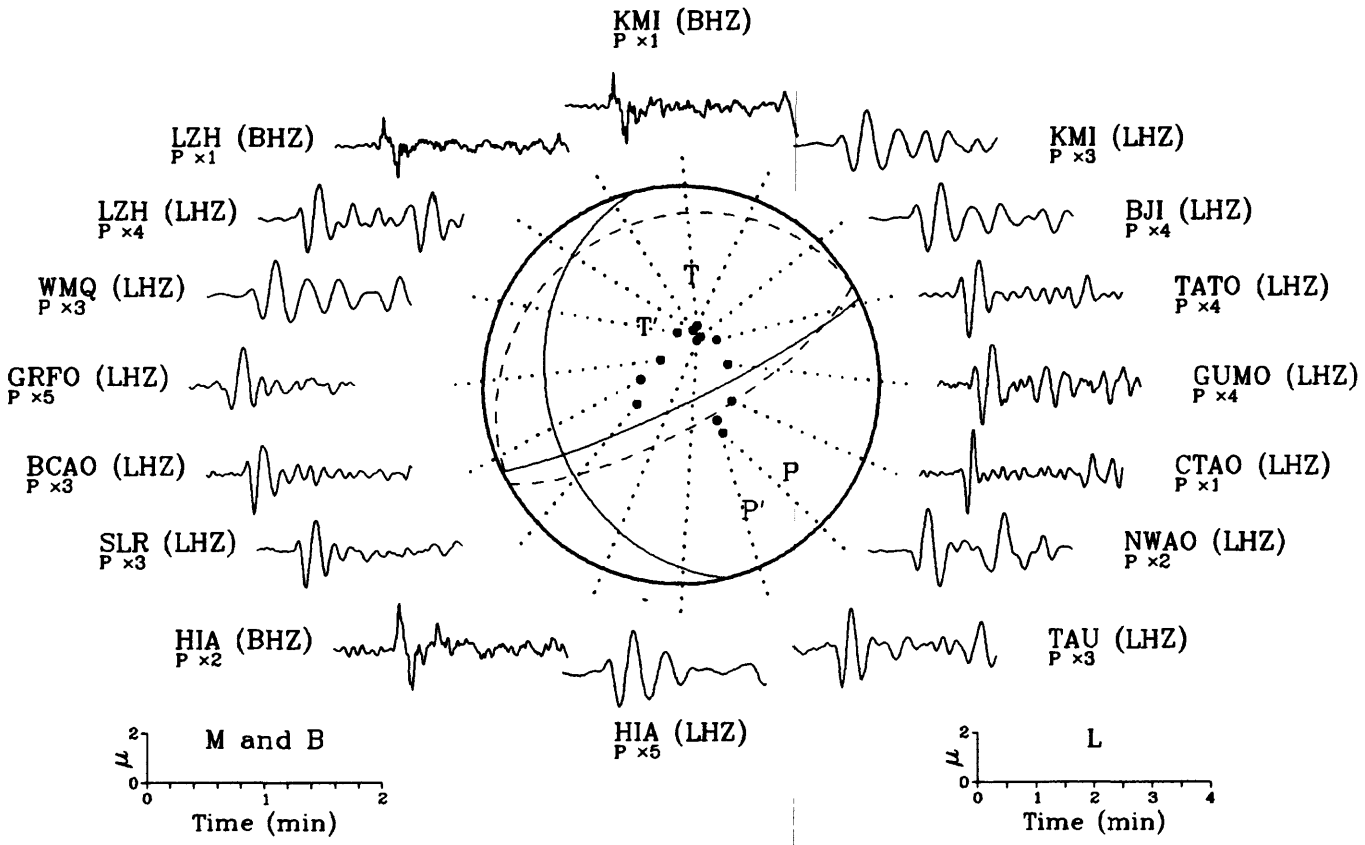
30 18 14 12.85 23.398S 179.094E 548km
5.3mb (22 obs.)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 22C
Centroid Location:
Origin Time 18:14:22.9 0.6
Lat 23.49S 0.09 Lon 178.67E 0.06
Dep 558.6 3.2 Half-duration 2.5
Principal Axes:
Scale 10**17 Nm
T Val= 3.23 Plg= 5 Azm= 62
N -0.03 35 329
P -3.20 55 159
Best Double Couple:Mo=3.2*10**17
NP1:Strike=184 Dip=51 Slip= -42
NP2: 304 59 -132

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

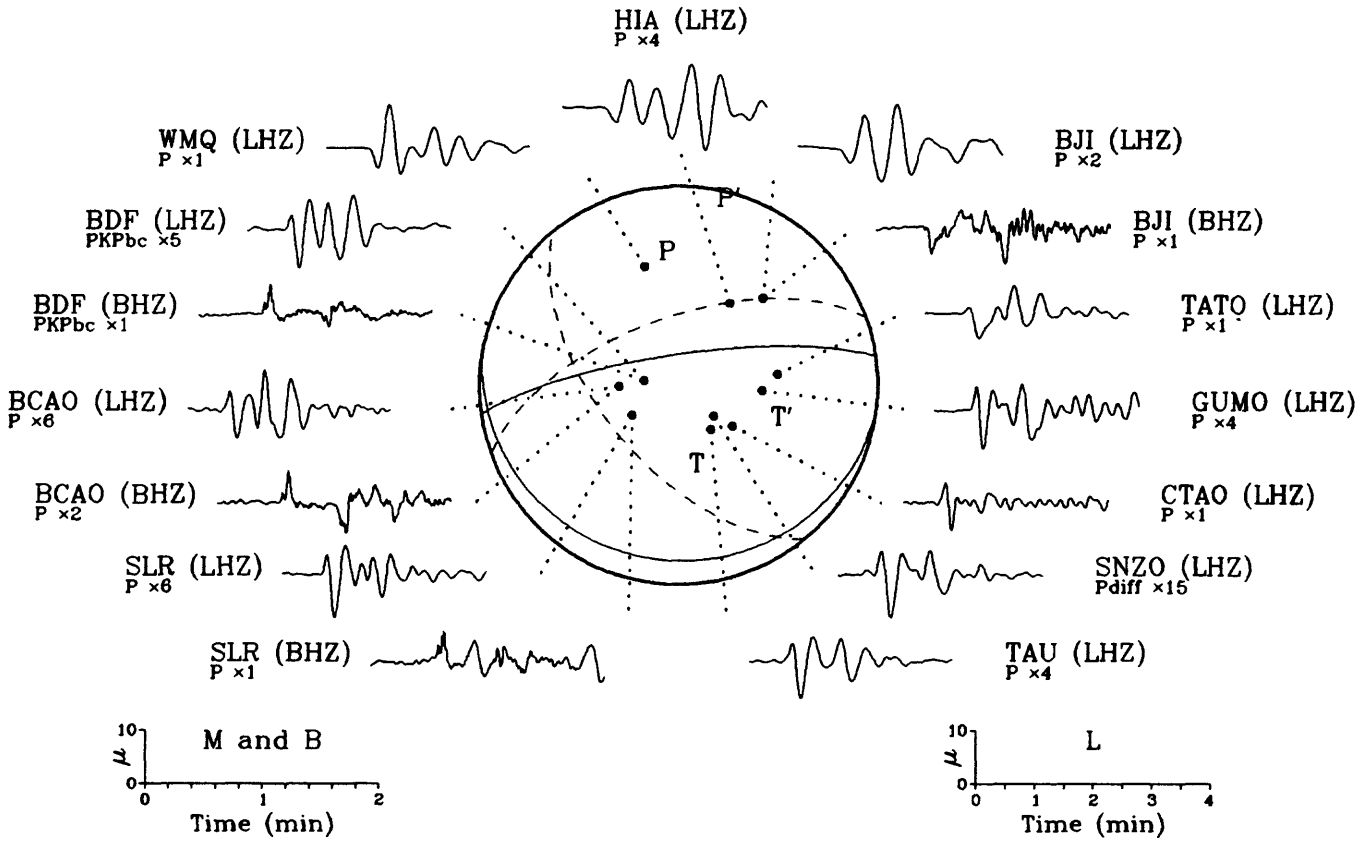
04 January 1990 05:32:21.04
Samoa Islands Region



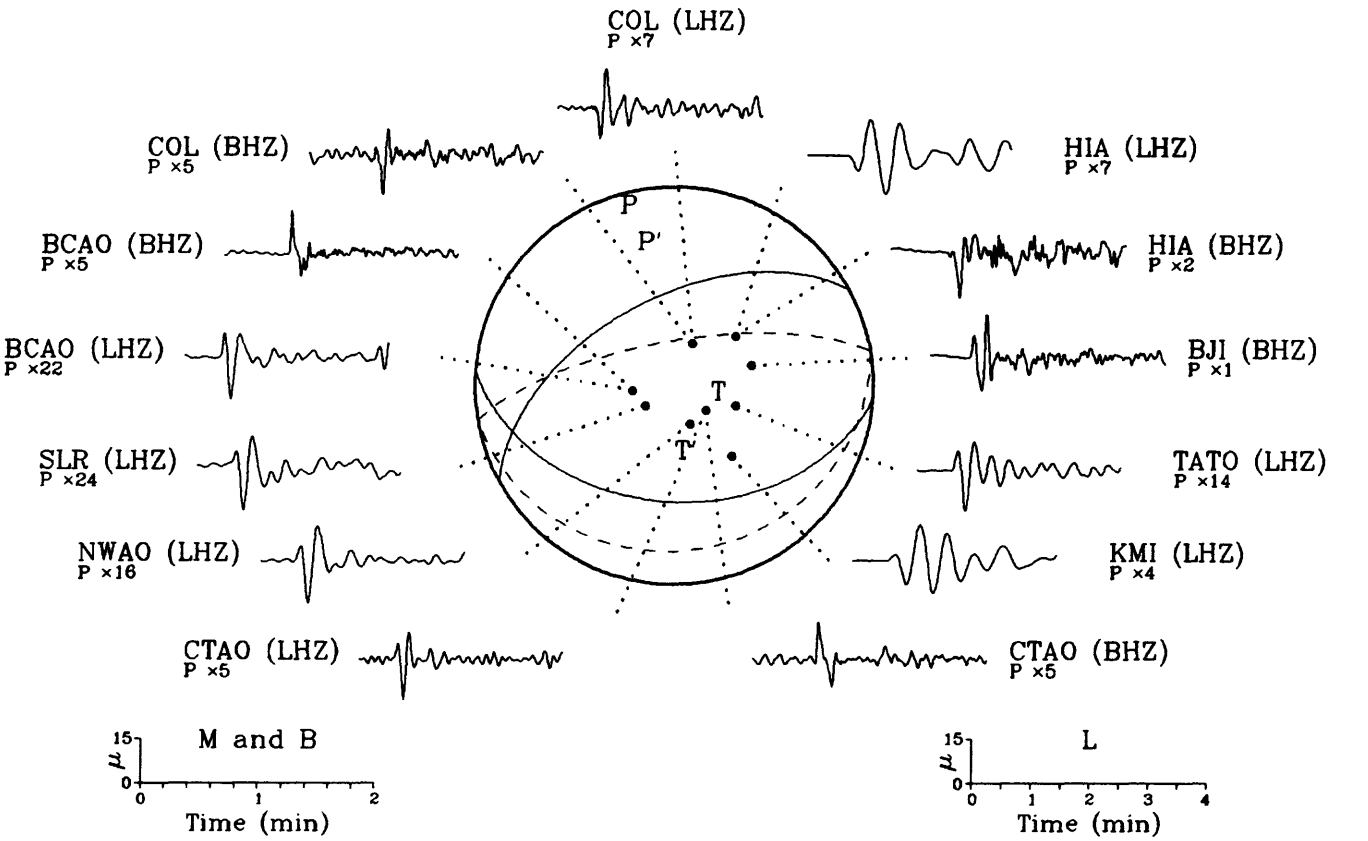
06 January 1990 21:44:56.26
South Indian Ocean



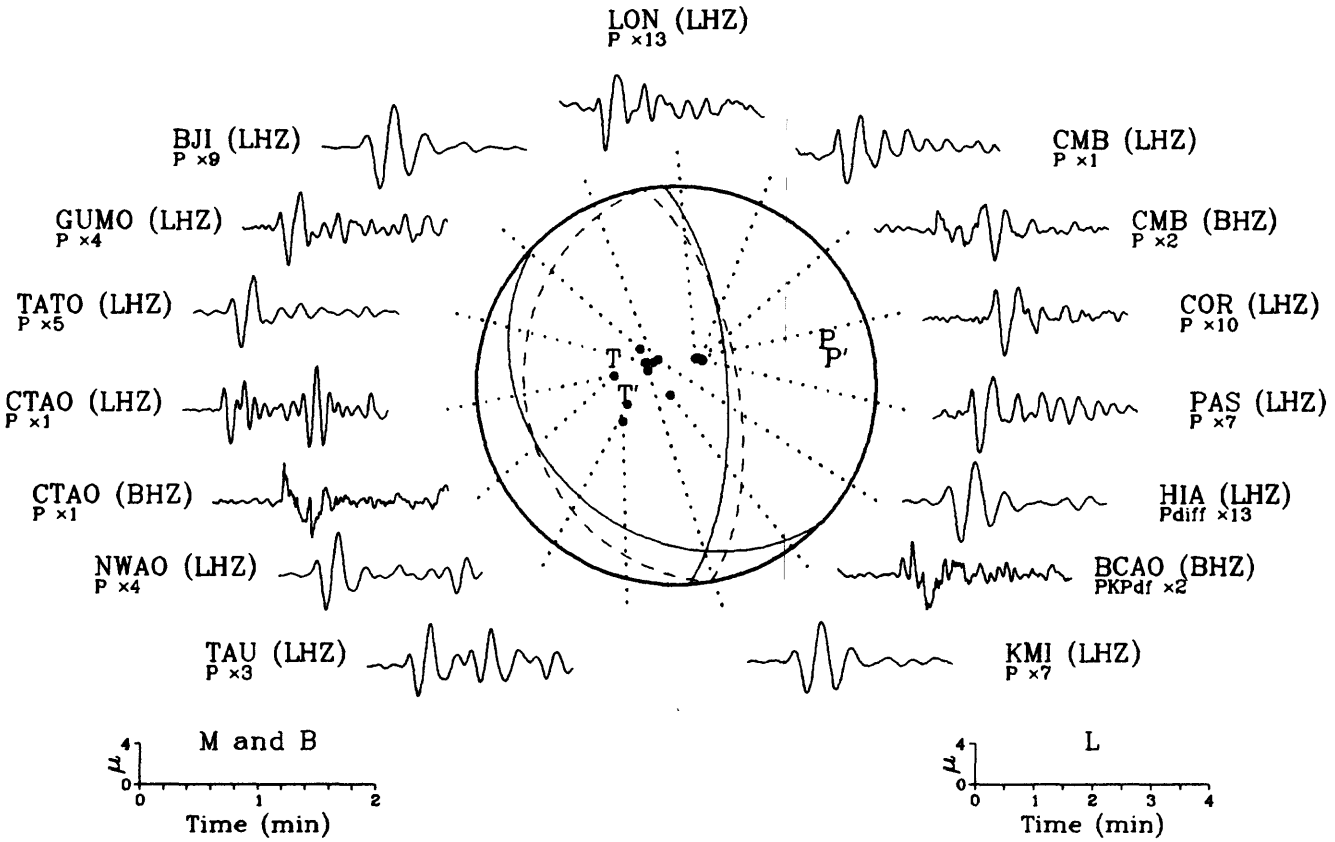
09 January 1990 18:51:29.21
Burma



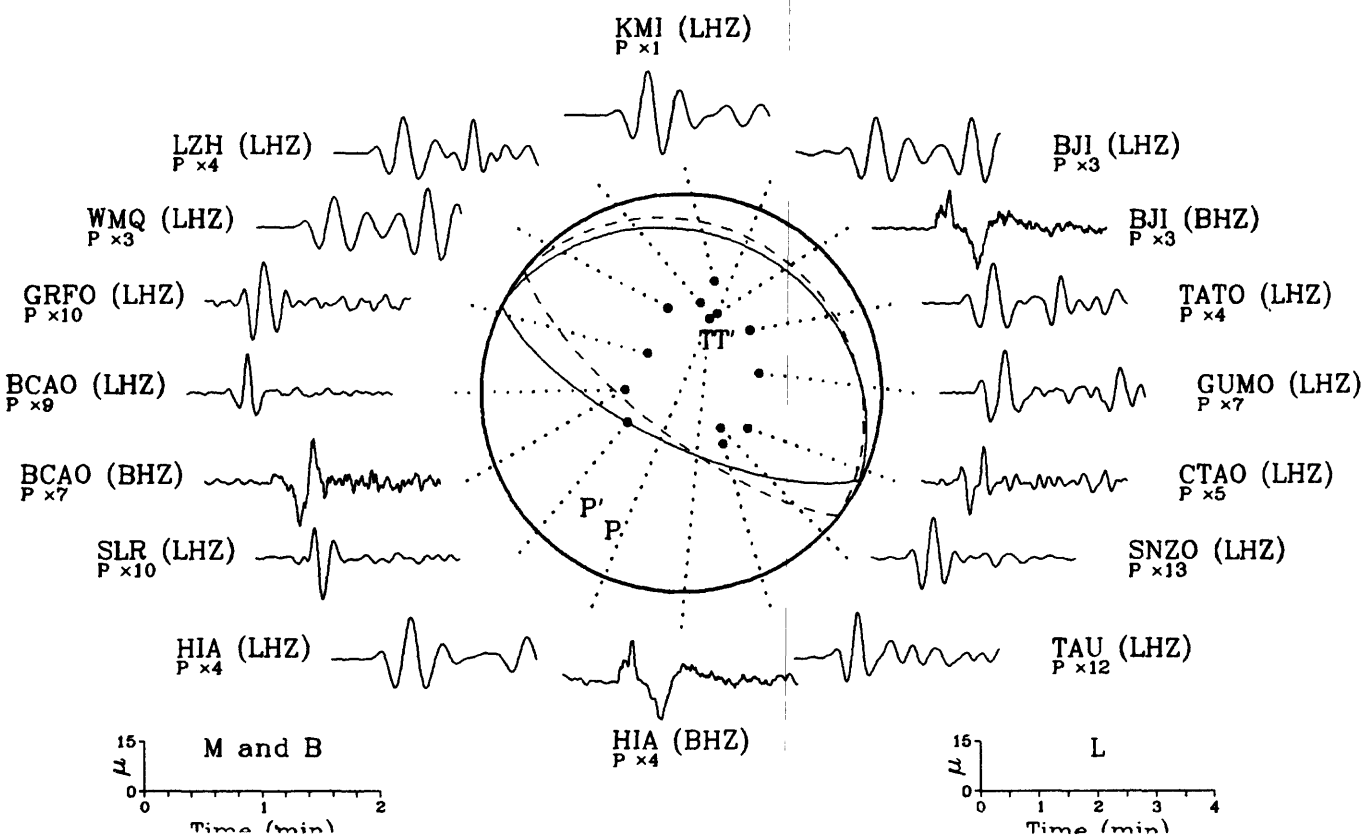
14 January 1990 03:03:19.23
Qinghai Province, China



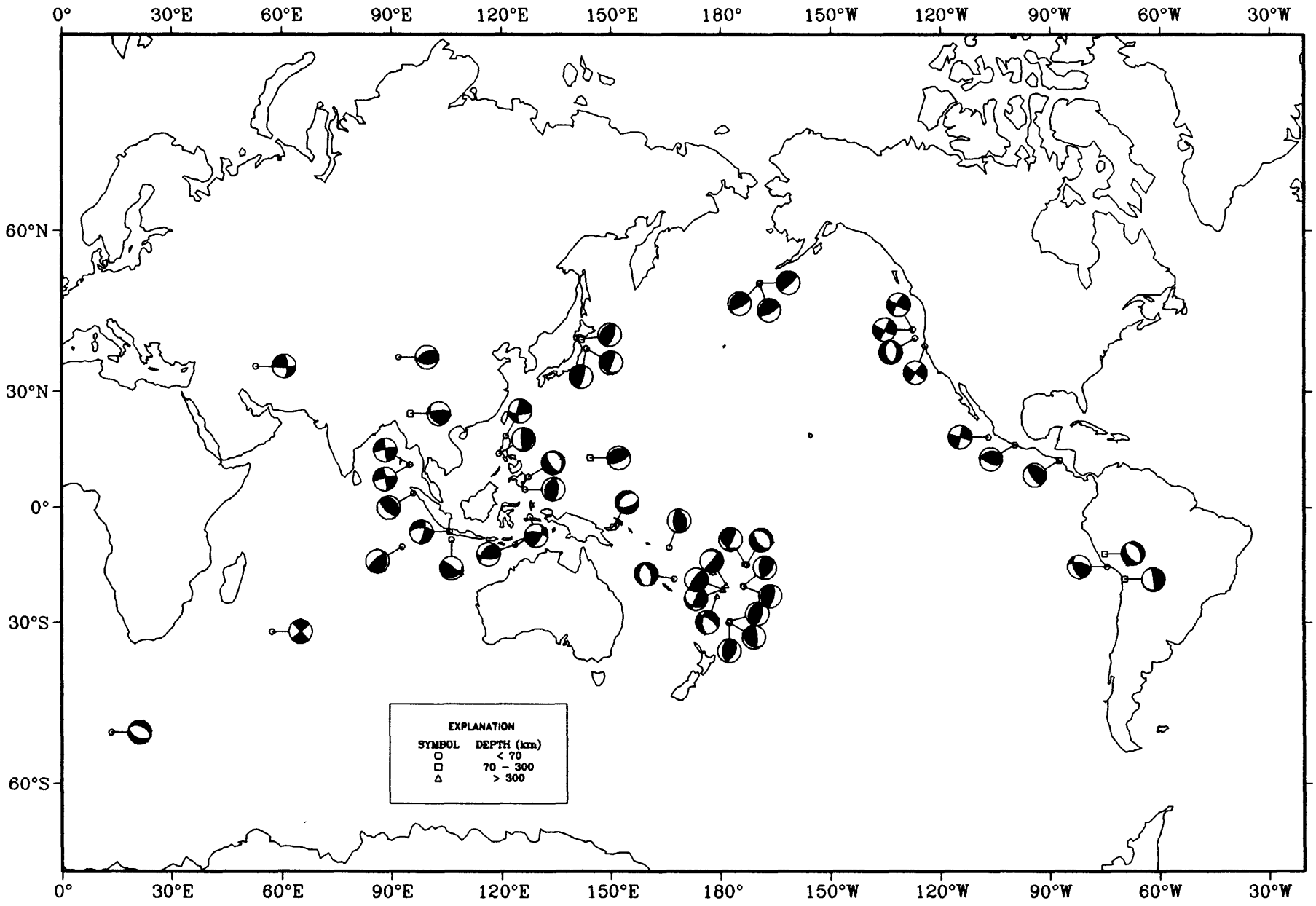
18 January 1990 12:45:23.60
Kermadec Islands



22 January 1990 17:26:11.46
Northern Sumatera



Earthquake Focal Mechanisms for January 1990



SIGNIFICANT EARTHQUAKES OF THE WORLD, 1989

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

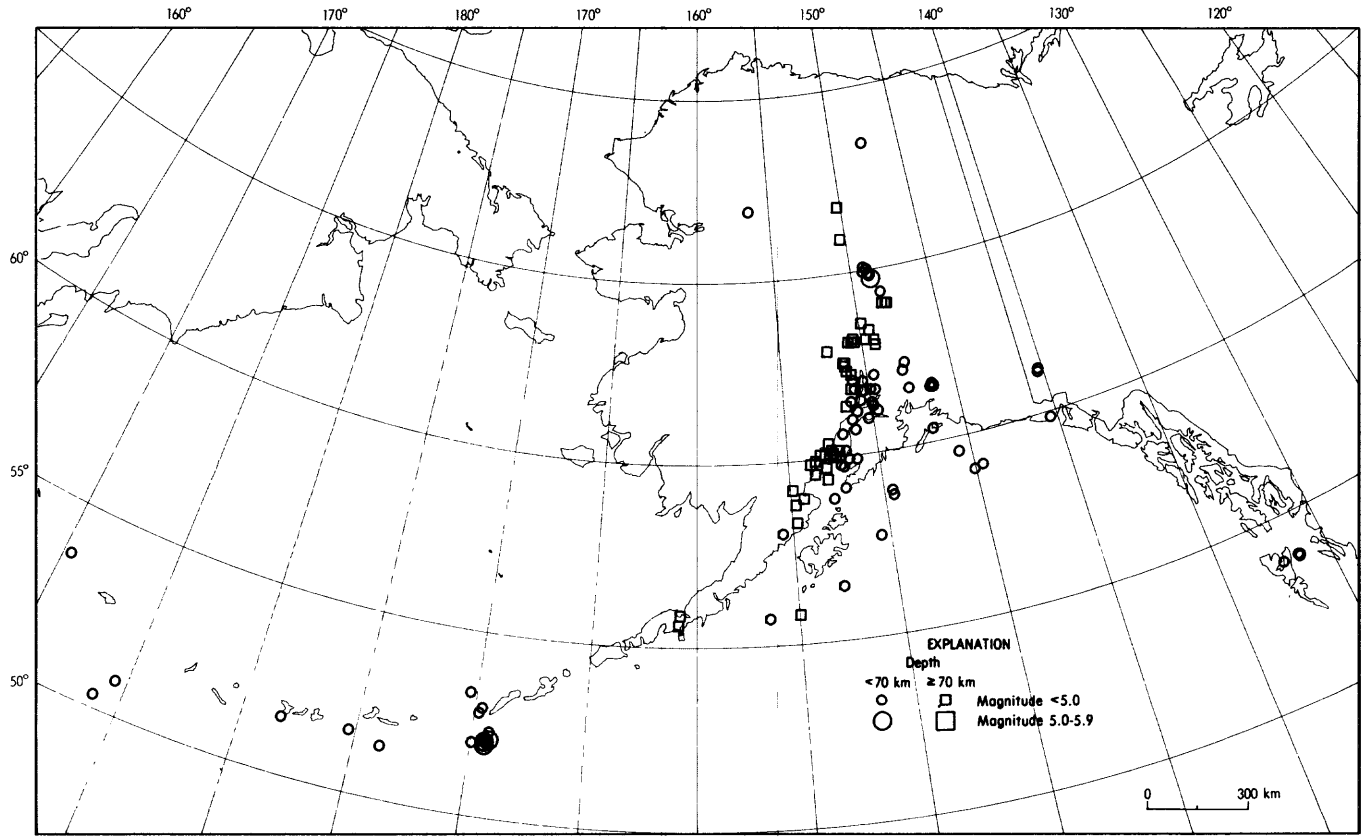
DATE	ORIGIN TIME UTC HR MN SEC	GEOGRAPHIC COORDINATES LAT	LONG	DEPTH	MAGNITUDES GS MB	Msz	SD	NO STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
JAN 10	05 55 01.4	3.162 S	130.556 E	47	5.9	6.5	1 2	206	CERAM. Ms 6.7 (BRK), 6.6 (PAS).
JAN 19	06 53 28.8&	33.920 N	118 630 W	12	5.2	4 8		174	SOUTHERN CALIFORNIA. <PAS-P>. ML 5.0 (PAS), 5.2 (BRK). Several people injured, some broken windows and many items knocked from store shelves in the Malibu-Santa Monica-Redonda Beach area. Slight damage (VI) at Hollywood, Lancaster, Los Angeles, Malibu and Monterey Park. Felt in Kern, Orange, Las Angeles, San Bernardino, San Diego, Santa Barbara, Riverside and Ventura Counties.
JAN 22	23 02 07.1	38.465 N	68 694 E	33 N	5.3		0.9	205	TAJIK SSR. Two hundred seventy-four people killed, many injured, extensive damage (VII) and mudslides in the Gissar area. Nearly all the casualties were caused by mudslides which buried Sharara and two nearby villages. Felt (VI) at Gulkhani and Sarkishti; (V) at Dushanbe and Tursunzade; (IV) at Denau and Nurek.
FEB 10	11 15 24.6	2.305 N	126.760 E	44 G	6.2	6.8	1.3	376	MOLUCCA PASSAGE. Ms 6.6 (BRK), 6.4 (PAS). Felt at Manado and Bitung, Sulawesi.
FEB 19	12 27 09.9	35.964 N	139.788 E	60	5.5		1.1	287	NEAR S. COAST OF HONSHU, JAPAN. One person killed and one injured. Felt (IV JMA) at Takya, Utsunamiya and Mito; (III JMA) at Kumagaya, Chashi, Yokahama and Toteyama; (II JMA) at Shirakawa, Maebashi and Kawaguchi-ko; (I JMA) at Ofunato.
FEB 25	11 26 35.4	29.915 S	177.885 W	31 G	6.1	6.7	1.1	353	KERMADEC ISLANDS Ms 6.6 (BRK), 6.3 (PAS). Felt (V) on Raoul Island.
FEB 27	23 39 10.8	2.301 N	128.009 E	54	5.8	6.0	1.2	183	HALMAHERA. Ms 6.2 (BRK). At least six schools and a number of houses damaged in the Galela area. Two events about 2.5 seconds apart.
MAR 08	11 44 32.3	1.031 N	126.189 E	32 G	5.9	5.6	1.0	307	MOLUCCA PASSAGE. Two hundred thirty-three houses and public buildings damaged and 5,500 people left homeless on Maratai, Indonesia. Sixteen houses damaged and some homeless at Tanawangu, Halmahera.
MAR 10	08 00 48.7	40.027 N	41.816 E	10 G	4.4	4.4	1.3	28	TURKEY. Ten houses collapsed and 120 damaged in the Erzurum-Kars area.
MAR 10	14 14 10.2	4.346 S	152.797 E	53	5.6	5.4	0.9	259	NEW BRITAIN REGION. One person killed by a landslide in the Rabaul area. Felt (V) at Rabaul.
MAR 10	21 49 45.8	13.702 S	34.420 E	30 G	6.2	6.1	0.9	448	MALAWI. Ms 6.6 (BRK). At least two people killed, 100 injured and damage in the Salima area, six people killed and damage in the Dedza area and one person killed and damage in the Mohinji area. About 50,000 left homeless in Malawi. Felt strongly in much of central Malawi. Felt in Niassa and Tete Provinces, Mozambique. Also felt in Zambia.
MAR 11	05 05 00.6	17.766 S	174.761 W	230 G	6.4		1.3	515	TONGA ISLANDS. mb 6.7 (BRK).
MAR 13	13 02 14.7	50.711 N	9 896 E	1 G	5.4	4.7	1.3	324	GERMANY. ML 5.8 (ZUR), 5.7 (GRF), 5.6 (BNS), 5.5 (LDG). Rockburst triggered by blasting at the Ernst Thaelmann Mine near Merkers. Three people injured and 80 percent of buildings damaged in the Vaelkershausen area. Felt in large parts of Germany, as far west as Koln and Dusseldorf. Also felt in France, Czechoslovakia, Switzerland and Austria.
APR 11	03 56 36 9	49 488 N	159 185 E	16 G	6.3	6.6	1.0	545	KURIL ISLANDS REGION. Ms 6.1 (BRK), 6.0 (PAS). Felt (V) at Severa-Kurilsk, Mys Vasilyevo and on Shumshu; (IV) at Petropavlovsk-Kamchatskiy.
APR 15	20 34 08 9	29 987 N	99 195 E	13 G	6.2	6.2	1.2	406	SICHUAN PROVINCE, CHINA. Four people killed, 5 injured and considerable damage in the Batang area. Seven people killed, at least 37 injured and additional damage in the area due to a number of aftershocks.
APR 20	22 59 54.0	57 166 N	121 976 E	26 G	6 1	6.5	0 9	545	EASTERN USSR Ms 6.3 (BRK), 5.9 (PAS). Felt (VI) at Khani, Oleksa and Yuktali; (V) at Ikabya, Kuvykta, Khatymi, Neryungri and Berkakit; (IV) at Yakutsk, Chita and Blogoveshchensk. Also felt strongly at Ust-Nyukzha.
APR 25	14 29 00.5	16.773 N	99.328 W	19 G	6 2	6 8	1 2	380	NEAR COAST OF GUERRERO, MEXICO. Ms 7 1 (BRK), 6.5 (PAS) Three people killed, a few injured and some damage at Mexico City Minor damage reported in the Acapulco area Felt strongly in much of southern Mexico and as far away as Guadalajara

DATE	ORIGIN TIME UTC HR MN SEC	GEOGRAPHIC COORDINATES LAT	LONG	DEPTH	MAGNITUDES GS MB	Msz	SD	NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
APR 27	02 20 04.7	30.601 N	140.589 E	85 G	6.1		1.0	454	SOUTH OF HONSHU, JAPAN. mb 6.6 (BRK). Felt (II JMA) at Tokyo, Toteyama and on Chichi-shima; (I JMA) at Chashi, Hiroo, Onahama and on Hachija-jimo.
MAY 03	09 13 24.2	29.947 N	51.674 E	33 N	5.1	6.2	1.0	46	SOUTHERN IRAN. Four people injured and seven villages severely damaged in the Mamasani area.
MAY 03	05 53 01.1	30.091 N	99.475 E	14 G	6.1	6.1	1.0	422	SICHUAN PROVINCE, CHINA. Two people injured by a landslide which blocked the highway between Chengdu and Batang.
MAY 04	00 22 06.7	11.038 N	68 270 W	16	5.4	5.2	1.0	227	NEAR COAST OF VENEZUELA. More than 2,000 people made homeless in the Tucacas area. Felt strongly in the states of Falcan and Carabobo. Also felt at Caracas and in parts of Aragua and Miranda.
MAY 05	18 28 39.4	8.281 S	71.381 W	593 G	6.4		1.0	589	WESTERN BRAZIL. mb 6.7 (BRK), 6.5 (PAS). Felt at Feija, Brazil and Puya, Ecuador.
MAY 07	00 38 18.5	23 553 N	99.526 E	33 N	5.3	5.6	1.1	266	BURMA-CHINA BORDER REGION. At least one person killed, 91 injured and 5,300 houses destroyed in the Gengma area, China. Felt strongly in Lancang and Menglian Counties. Direct economic losses of more than 54 million dollars were sustained.
MAY 14	00 59 50.4	30.523 S	178.414 W	44 G	5.9	6.6	1.1	396	KERMADEC ISLANDS. Ms 6.4 (BRK), 6.3 (PAS). Felt (IV) on Raoul. Two events about 5 seconds apart.
MAY 23	10 54 46.3	52.341 S	160.568 E	10 G	6.4	8.2	1.3	399	MACQUARIE ISLANDS REGION. Ms 8.0 (BRK), 7.8 (PAS). Felt (V) on Campbell Island. Also felt on Macquarie Island. Small tsunami reported along the southeastern coast of Tasmania and in Jervis Bay and Sydney Harbour, Australia. Complex event.
MAY 27	20 08 37.3	30.167 N	50.921 E	31	5.6	5.8	1.0	405	IRAN. Ms 5.4 (BRK). Seventeen people injured, several houses damaged and about 100 cattle killed in the Da Gobadon area. Felt in the Bushehr-Shiroz area and at Mamasani. Also felt in Kuwait.
MAY 31	05 54 20.5	45.383 S	167.086 E	23 G	5.8	6.3	1.2	278	SOUTH ISLAND, NEW ZEALAND. Ms 6.5 (BRK). Felt strongly in the southwestern part of South Island. Also felt at Wellington.
JUN 08	06 24 09.6	6.837 N	37.878 E	19	5.0	4.8	0.9	91	ETHIOPIA. Minor injuries to a few people and damage at Sodo.
JUN 12	00 04 09.7	21.861 N	89.763 E	6 G	6.1	5.1	0.9	412	BANGLADESH One person killed, at least 100 injured and minor damage in the Banaripara area. Felt throughout eastern Bangladesh from Chittagong to Rangpur. Also felt in Meghalaya, India.
JUN 25	20 37 32.4	1.134 N	79.616 W	15 G	5.9	6.1	1.0	364	NEAR COAST OF ECUADOR. Ms 6.0 (BRK), 6.0 (PAS). Thirty people injured and 12 homes damaged (VII) in the Esmeraldas area. Felt (III) at Guayaquil and (II) at Quito. Felt throughout Ecuador and southwestern Colombia.
JUN 26	03 27 03.9&	19.362 N	155.083 W	9	5.8	6.1		302	HAWAII. <HVO-P>. MD 6.2 (HVO). Ms 6.2 (BRK), 6.2 (PAS). Five people injured slightly, 5 homes destroyed and about 100 homes damaged in the Puna District. Landslides occurred in several places and blocked a road at Hanamu. Slight damage (VI) at Hawaii National Park, Hilo, Honomu and Keaau. Felt (V) at Honokaa, Kapaau, Kurtistown, Ninole, Oakala, Paauhau and Volcano; (IV) at Hakalau, Hawi, Holualoa, Honaunau, Loupahoehoe and Pahala. Felt throughout the island of Hawaii. Also felt on Maui and Oahu. A small tsunami was generated with maximum wave heights (peak-to-trough) of 57 cm. at Honuapa, 21 cm. at Kapaho and 14 cm. at Hilo. Two events about 5 seconds apart.
JUN 26	10 38 39.4	39 112 N	28.242 W	11 G	5.7	5.7	1.1	390	AZORES ISLANDS. Ms 5.4 (BRK). Several people injured slightly and minor damage (VI) on Graciosa. Felt (V) on Terceira and (IV) on Faial, Pica and Sao Jorge.
JUL 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.

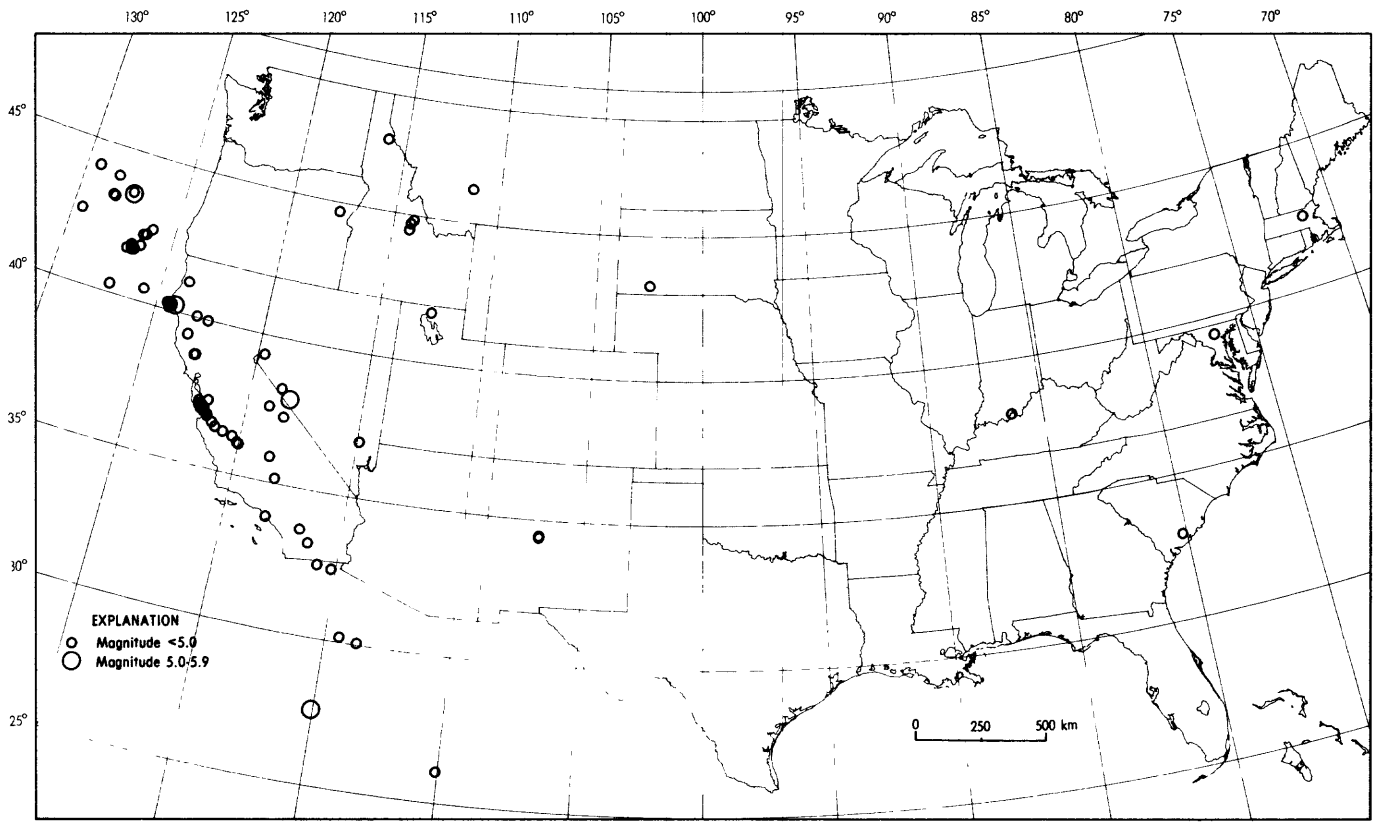
DATE	ORIGIN TIME UTC HR MN SEC	GEOGRAPHIC COORDINATES LAT	LONG	DEPTH	MAGNITUDES GS MB	Msz	SD	NO. STA USED	REGION. CONTRIBUTED MAGNITUDES AND COMMENTS
JUL 14	20 42 40.0	8.081 S	125.129 E	10 G	6.4	6.2	1.2	394	TIMOR. Seven people injured seriously and 38 buildings damaged on Alor
AUG 01	00 18 04.8	4.511 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 Kurimo district. Landslides also blocked the Boliem River. Felt at Womeno.
AUG 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 Mokhachkala.
AUG 08	08 13 27.5&	37.130 N	121 952 W	15	4.9	4.5		60	CENTRAL CALIFORNIA. <BRK>. ML 5.4 (BRK). One person killed, some minor injuries and damage (VI) in the Los Gotos, Campbell and Sorotoga areas Also slight damage (VI) at Ben Lomond, Brookdale, Cupertino, Holy City, Redwood Estates and Santa Cruz. Felt (V) throughout much of the San Francisco Bay area. Felt from San Luis Obispo to Sonoma and east as far as Tracy.
AUG 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 caused in the Galafi-Yoboki area, Djibouti. Ground cracks were observed at Galafi and 4 springs were destroyed in the area. Felt strongly throughout Djibouti. Damage and landslides occurred in northeastern Ethiopia, particularly along the Aseb-Adis Abeba highway. Felt at Aseb.
AUG 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). Felt along the coast of Jalisco. Also felt at Guadalajara and in the southern part of the Mexico City area.
SEP 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 Tagiak; (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.
SEP 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 Lenkoran, Divichi and Siazan, USSR. Some minor damage reported in the area. Felt in northwestern Iran.
SEP 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). Felt in the central and southern regions of the country including Mexico City, Oaxaca, Tuxtla Gutierrez and Villahermosa.
SEP 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.
OCT 01	02 59 06.3	30.960 N	51.421 E	42	5.2	4.7	1.0	246	IRAN. At least 300 homes damaged and four landslides blocked roads in the Deh Barzarg-e Sisakht area. Felt in the Yasuj area.
OCT 07	15 48 29 0	51 314 N	179.028 W	20 G	6.1	6.7	1.0	533	ANDREANOF ISLANDS, ALEUTIAN IS. Ms 6.2 (BRK), 6.1 (PAS). Felt (IV) on Adak and Amchitka. Two events about 2.5 seconds apart.
OCT 13	21 19 57.9	34 726 N	139.531 E	26 D	5.3	4.8	1.2	196	NEAR S. COAST OF HONSHU, JAPAN. Two people injured. Felt (IV JMA) at Yokohama and on Oshima; (III JMA) at Toteyama, Ajiro, Kofu, Mishima and Tokyo; (II JMA) at Kawaguchi-ko and Nagatsuro; (I JMA) at Shizuoka. Also felt (IV) at Yokosuka.
OCT 18	00 04 15.2&	37 036 N	121.883 W	19	6.5	7 1		600	CENTRAL CALIFORNIA. <GS>. ML 7.0 (BRK). Sixty-two people killed, 3,757 injured and damage estimated at 5.6 billion dollars. Maximum intensity IX in parts of Oakland and San Francisco. Numerous landslides occurred in the epicentral area and liquefaction occurred in some areas of Oakland and San Francisco. Felt from Eureka to Los Angeles and east as far as Fallon, Nevada. Also felt in high-rise buildings in San Diego A small tsunami with maximum wave height (peak-to-trough) of 40 cm. was recorded at Monterey. Three events about 1.5 and 3.0 seconds apart, respectively
OCT 18	14 57 22.4	39.893 N	113.884 E	10 D	5.1	5 3	1.3	125	NORTHEASTERN CHINA At least 29 people killed, 150 injured and about 27,500 houses damaged in the Datong-Yongyuan area Felt at Beijing

DATE	ORIGIN TIME UTC HR MN SEC	GEOGRAPHIC COORDINATES LAT	LONG	DEPTH	MAGNITUDES GS MB	Msz	SD	NO STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
OCT 27	21 04 51.8	11.022 S	162.350 E	25 G	6.1	7 0	1 1	354	SOLOMON ISLANDS. Ms 7.1 (BRK), 6.8 (PAS). Felt on Son Cristobol and (IV) on Guodalcanol. Minor landslide and ground fissure at Mwaniwaro Village, Santo Catalino. Two events about 3 seconds apart.
OCT 29	05 25 38.2	39.571 N	143.333 E	10 G	6.0	6.6	1.0	409	OFF EAST COAST OF HONSHU, JAPAN. Ms 6.4 (PAS), 6.1 (BRK). Felt (III JMA) at Hachinohe, Miyoko, Morioko, Ofunoto and Sokoto; (II JMA) at Akito, Aomori, Sendai, Ishinomaki and Mutsu. Felt from central Honshu to Hokkaido. Small tsunami recorded with maximum wave heights 11 cm. at Ofunoto, 10 cm. at Ayukowo, 6 cm. at Miyoko and 3 cm. at Hachinohe.
OCT 29	19 09 12.9	36 788 N	2.44B E	6 G	5.7	5.7	1.2	461	ALGERIA. Ms 5.9 (PAS). At least 30 people killed, 245 injured and damage (VIII) in the Cherchell-Tifaza area. Felt (IV) in the Balearic Islands, Spain.
OCT 29	19 21 52.4	36.745 N	2.443 E	10 G	5.4	5.6	1.1	367	ALGERIA. Additional casualties and damage in the Cherchell-Tifaza area.
NOV 01	18 25 34.9	39.837 N	142.760 E	29 G	6.4	7.4	1.1	550	NEAR EAST COAST OF HONSHU, JAPAN. Ms 7.4 (BRK), 7.1 (PAS). Felt (IV JMA) at Aomori and Morioka; (III JMA) at Misawa; (I JMA) at Yamagata. Also felt (I JMA) in parts of Hokkaido. Tsunami generated with wave heights 56 cm. at Miyoko, 34 cm. at Ayukawa, 24 cm. at Hachinohe and 20 cm. at Ofunato.
NOV 20	03 21 07.8	29.882 N	106.804 E	33 N	5.2	4.7	3.9	177	SICHUAN PROVINCE, CHINA. Four people killed, 161 injured and at least 1,000 homes destroyed in Jiangbei County.
NOV 20	04 19 04.6	29.892 N	57.718 E	18 D	5.6	5.7	1.1	312	SOUTHERN IRAN. Ms 5.5 (BRK). At least three people were killed, 45 injured and damage in the Shahdad area.
NOV 29	01 00 14.8	15.808 S	73.242 W	71 G	6.1		1.1	366	SOUTHERN PERU. mb 6.5 (PAS), 6.1 (BRK). Felt (IV) at Arequipa.
DEC 09	20 38 08.5	0.141 N	123.340 E	151 G	6.2		1.1	427	MINAHASSA PENINSULA. mb 6.8 (PAS).
DEC 15	18 43 45.0	8.337 N	126.729 E	24 G	6.2	7.3	1.4	204	MINDANAO, PHILIPPINE ISLANDS. Ms 7.4 (BRK), 6.9 (PAS). At least one person killed and many injured on Mindanao. Damage (VII RF) at Bislig. Felt (VI RF) at Cotabato and Davao and (I RF) at Dipolog. Also felt (IV RF) on Camiguin, (III RF) on Cebu and (I RF) in southeastern Luzon. Two events about 10.5 seconds apart.
DEC 27	23 26 57.0	32.967 S	151.619 E	10 G	5.4		1.0	132	NEAR S.E. COAST OF AUSTRALIA. MD 5.5 (CNB). Twelve people killed, more than 100 injured and estimated 1.1 billion U.S. dollars damage (VIII) caused in the Newcastle area. Damage occurred as far away as Liverpool, Scone and Gladstone. Felt in a 200,000 sq. km. area of New South Wales and the Australian Capital Territory from Albury and Cooma to Coffs Harbour and Inverell and as far west as Narromine. Also felt by people in high-rise buildings in Gold Coast and Melbourne. Believed to be the first earthquake in Australian history that has caused deaths.
DEC 30	23 18 51 6	3 406 S	145.966 E	38 D	5.6	6.6	1.3	144	NEAR N COAST OF PAPUA NEW GUINEA. Ms 7.0 (BRK), 6.4 (PAS). Felt (III) on Karkar and Manam.

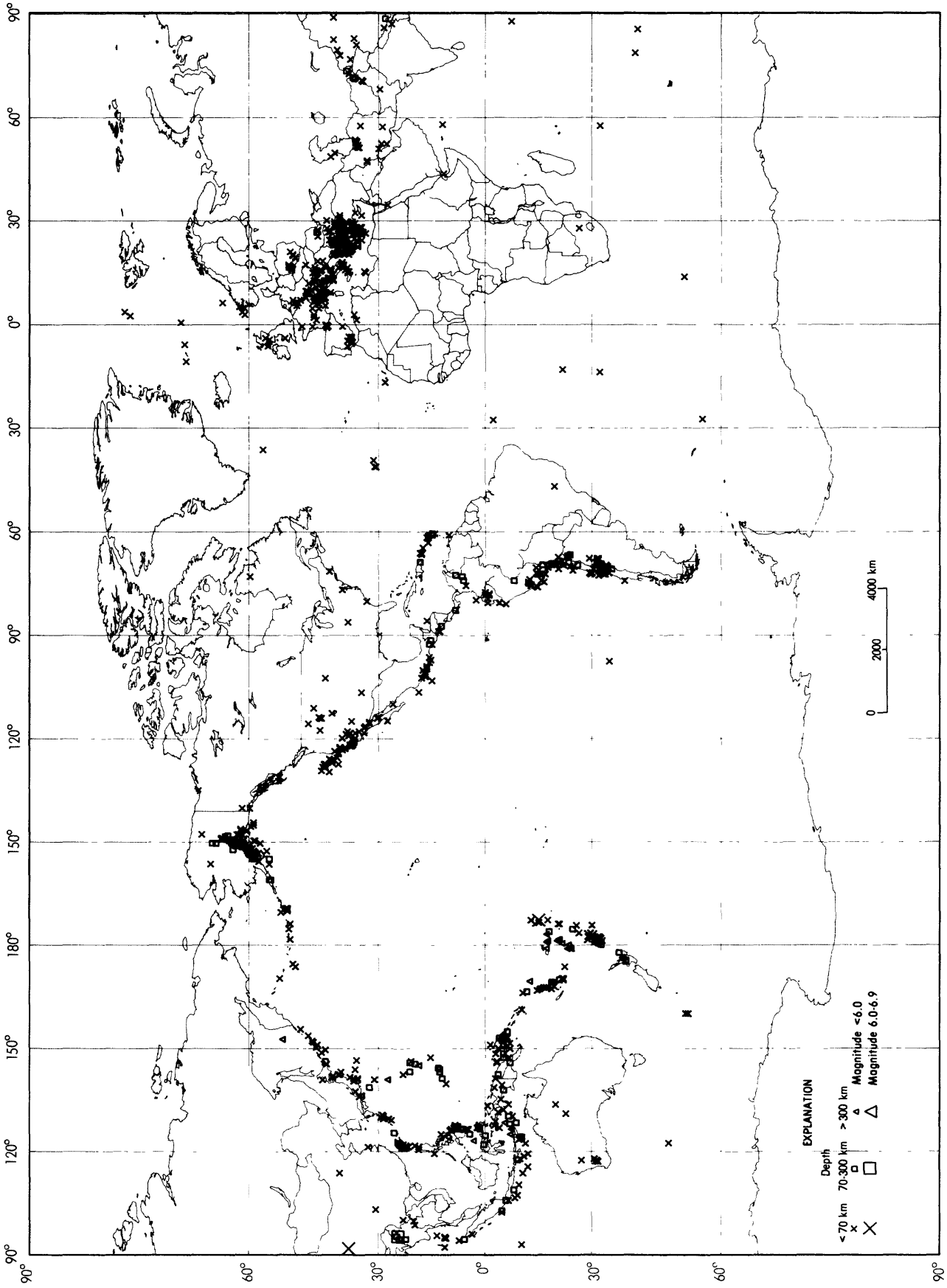
Compiled by Waverly J Person



Earthquake epicenters in Alaska and adjacent regions for January, 1990 (C. Stover).



Earthquake epicenters in the conterminous United States and adjacent regions for January, 1990 (C. Stover).



Earthquakes located in January, 1990 (C. Stover).

EXPLANATION OF ABBREVIATIONS AND SYMBOLS APPEARING IN THIS PUBLICATION

Abbreviations in Heading

MB – Body wave magnitudes.
Msz – Vertical surface wave magnitudes.
UTC – Coordinated Universal Time. HR MN SEC – Hour, minute, second.
SD – Standard Deviation from the arithmetic mean of residuals.
Na. 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 Labaratoire 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 Labaratoire 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). Addenda to OF 85-714 are printed at the end of the Earthquake Data Report for this month.

Symbols Following Depth

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

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

G Indicates the depth was restrained by a geophysicist.

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

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

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

Symbols Following Origin Time

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

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

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

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

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

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

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

TRAVEL-TIME TABLES

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

MACROSEISMIC INFORMATION

Macroseismic information is compiled from various sources, including newspaper articles, Foreign Broadcast Information Service messages, U.S. Geological Survey Earthquake Reports and seismological station reports. Macroseismic information for southwestern France is contributed by Dr. Pierre Stahl, Pau. 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 ≥ 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 adopted 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 Boatwright and Choy (1986), where the energy flux in the P waves is integrated directly. No correction for source directivity or frequency-dependent interference of the depth phases is incorporated into these estimates of radiated energy. Data used are either direct P waves (for deep earthquakes) or the P wave group consisting of P, pP and sP (for shallow earthquakes) from GDSN and other stations that contribute digital data to the NEIC within two months of the occurrence of an event. The data are processed using the method of Harvey and Choy (1982) so that they are flat to velocity from low frequencies (generally 0.01 Hz) to at least 2.0 Hz. The effect of attenuation is corrected with the frequency-dependent t* of Choy and Cormier (1986). The focal mechanism used is either the P-wave first-motion solution (F), the USGS moment tensor solution (M) or the Harvard centroid solution (C).

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

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

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

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

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

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

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

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

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

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

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

These solutions hove been obtained from very long period Royleigh wove doto in the period range 180–310 seconds (R1 and R2 troins) using o two step moment tensor inversion method os described in Romonowicz and Guillemont (1984) ond Romanowicz and Monfret (1986). Parameters solved for ore centroid time, seismic moment, depth and moment tensor. Origin time and epicentral coordinates are kept fixed os given in the USGS Quick Epicenter Determinations (QED) or PDE. For shallow earthquakes the precision on depth is in generol no greoter than +/– 10 km.

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

Romonowicz, B. and Guillemont, P., 1984, An experiment in the retrievol of depth ond source mechanism of large earthquakes using very long-period Rayleigh wove doto: Bulletin of the Seismologicol Society of America, v. 74, no. 2, p. 417–437.

Romonowicz, B. and Monfret, T., 1986, Source process times ond depths of lorge earthquakes by moment tensor inversion of mantle wove doto and the effect of loteral heterogeneity: Annales de Geophysique, v. B4, no. 3, p. 271–282.

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

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

1. DATA USED; currently both GDSN ond IDA doto are used. The numbers following the entries L. P. BODY WAVES and MANTLE WAVES indicote 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 doto. Mantle waves are routinely used in inversion for sources with moments greater thon 10**19 Newton-meters (Nm).

2. CENTROID LOCATION; hypocentrol parameters obtained by adding perturbations resulting from inversion to the parameters reported in the PDE; standord errors follow the individual entries. If o given porameter 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 brood-bond body woves, this is indicoted by the letters BDY. The default depth for shallow eorthquokes is increosed to 15 km. in order to improve the stability of solutions; it wos 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 ore given in o spherical coordinote system: MRR = Mrr; MTT = $M_{\theta\theta}$; MFF = $M_{\phi\phi}$; MRT = $M_{r\theta}$; MRF = $M_{r\phi}$; MTF = $M_{\theta\phi}$. In another frequently used notation: MRR = 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-ordinotes ore standard errors, colculoted under the usual ossumption of uncorrelated errors in the doto. The lateral heterogeneity of the Eorth, however, cleorly leods to systematic errors, and so the errors listed probably underestimate the true error in the solution.

4. PRINCIPAL AXES; rotation of the mament tensor into the principal axes system. Most of the solutions are predominontly of the dauble couple type: the lorgest positive eigenvolue corresponds to the tension oxis (T); the usually small, intermediate eigenvolue is associated with the null axis (N); the smollest negative eigenvalue is identified with the compression oxis (P). PLG ore the plunges and AZM the azimuths of the axes.

5. BEST DOUBLE COUPLE. If the eigenvalue (T) is σ_1 ond (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) ond second (NP2) nodal plones are colculated from the directions of the P, T, and N oxes. The remoinder is a lineor-vector dipole (Knopoff and Randoll, 1970); in *most cases the mognitude of LVD is smoll. Althaugh all such decompositions are highly non-unique, this particulor* one is the best in estimoting the starting solution for the non-linear, constrained dauble couple inverse problem. The angles strike, dip, and slip ore defined using the convention of Aki and Richards (1980, p. 106) and ore the angles designated there os ϕ_s, δ, λ, respectively.

A. M. Dziewonski, J. Durek, G. Ekstrom, J. H. Woodhouse ond G. Zwort, Department of Geological Sciences, Harvord University, Cambridge, MA 02138

Aki, K. and Richords, P. G., Quantitotive Seismology, Volume 1, W. H. Freemon, Son Froncisca, 1980, 557 pp.

Dziewonski, A. M., Chou, T. A., ond Woodhause, J. H., 1980, Determination af earthquoke source parameters from wavefarm doto for studies of global ond regionol seismicity: Journol af Geophysicol Research, v. 86, p. 2825–2852.

Knopoff, L. and Randall, M. J., 1970, The compensated lineor-vector dipole: A possible mechanism for deep eorthquakes: 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 woveforms: Journal of Geophysical Research, v. 89, p. 5953–5986.

OTHER SEISMIC MOMENTS

1. The seismic mament (Mo) contributed by the University af California, Berkeley (BRK), is given for regionol eorthquakes bosed on Wood-Anderson torsion seismograms recorded within 300 km of the epicenter with peak-to-peak omplitudes 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-peok omplitude in mm, D is the duration in seconds from the time of the S-wave onset to the lost time that the peok-to-peak omplitude exceeds C/3, and Δ is the epicentral distance in km. Seismic moments quoted in "Preliminary Determination of Epicenters" ore converted to Newton-meters (1 Newton-meter = 10**-7 dyne-cm).

   Balt, B.A. and Herraiz, M. 1983, Simplified estimation of seismic moment from seismograms: Bulletin of the Seismolagical 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, Popeete, French Palynesia (PPT). These moments are computed from the mantle Rayleigh wove using the method of Talondier, Reymond ond 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: Geophysicol Reseorch Letters, v. 14, no. 8, p. 840–843.

☆U.S. GOVERNMENT PRINTING OFFICE: 1990—832-414

PRELIMINARY DETERMINATION OF EPICENTERS

MONTHLY LISTING

U.S. DEPARTMENT OF THE INTERIOR / GEOLOGICAL SURVEY

National Earthquake Information Center

FEBRUARY 1990

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	11	08.2	36.282	N	70.660	E	137	*	4.5		1.5	30	HINDU KUSH REGION
	01	01	25	32.6	9.857	S	160.136	E	52	*	4.9		1.0	29	SOLOMON ISLANDS. Felt at Honiara.
	01	02	12	15.8?	16.60	N	100.23	W	33	N			1.2	5	NEAR COAST OF GUERRERO, MEXICO
	01	03	27	32.6?	35.65	N	26.66	E	10	G			0.6	4	CRETE. MD 3.4 (ATH).
	01	03	33	29.6*	24.296	N	123.775	E	10	G	4.6		1.4	11	SOUTHWESTERN RYUKYU ISLANDS
	01	03	38	48.0*	1.580	S	123.446	E	44	?	4.4		0.8	6	SULAWESI
	01	05	06	23.2	2.667	S	134.959	E	46	*	5.1	4.4	1.1	57	WEST IRIAN REGION
	01	05	43	02.5*	37.901	N	16.039	E	10	G			0.1	5	IONIAN SEA
	01	05	51	15.1&	59.939	N	152.266	W	81					41	SOUTHERN ALASKA. <AGS-P>.
	01	06	24	14.8	42.204	N	15.566	E	10	G			1.4	112	ADRIATIC SEA. ML 4.8 (ZAG), 4.7 (KBA), 4.4 (LDG), 4.3 (TTG). MD 4.7 (TRI).
	01	06	55	20.9*	42.200	N	15.554	E	10	G			0.4	5	ADRIATIC SEA
	01	07	10	27.8	38.179	N	26.587	E	10	G			1.2	9	AEGEAN SEA. MD 3.3 (ATH).
	01	07	11	54.5?	31.72	S	117.10	E	33	N			0.2	4	WESTERN AUSTRALIA
a	01	11	16	24.0	7.912	N	126.909	E	63	*	4.9		1.3	56	MINDANAO, PHILIPPINE ISLANDS
	01	11	49	43.9	46.956	N	10.583	E	10	G			1.2	9	NORTHERN ITALY. ML 2.4 (KBA).
	01	13	45	16.1*	42.489	N	24.155	E	10	G			0.6	5	BULGARIA
	01	14	18	40.0&	60.847	N	131.269	W	18	G				5	SOUTHERN YUKON TERRITORY, CANADA. <PGC-P>. ML 3.8 (PGC).
	01	16	05	47.4?	33.22	N	141.18	E	33	N	4.5		0.7	8	OFF EAST COAST OF HONSHU, JAPAN
	01	17	00	53.6*	2.970	S	130.155	E	33	N	4.6		0.9	7	CERAM
	01	17	06	02.8*	5.816	S	154.569	E	413	*			0.7	13	SOLOMON ISLANDS
	01	17	37	55.1*	35.330	N	26.860	E	10	G			0.9	5	CRETE. MD 3.7 (ATH).
a	01	18	33	53.8	8.247	N	126.712	E	61	D	5.3		1.2	113	MINDANAO, PHILIPPINE ISLANDS
	01	19	28	19.3*	8.046	N	126.928	E	38	D	4.4		1.4	12	MINDANAO, PHILIPPINE ISLANDS
	01	19	33	44.8%	38.008	N	24.398	E	10	G			0.7	5	AEGEAN SEA. ML 2.5 (ATH).
	01	20	19	42.6%	28.864	S	67.362	W	10	G			0.3	7	LA RIOJA PROVINCE, ARGENTINA
	01	20	27	40.2?	31.20	S	68.42	W	97	?			0.8	5	SAN JUAN PROVINCE, ARGENTINA
	01	21	47	43.5&	61.720	N	150.927	W	62					34	SOUTHERN ALASKA. <AGS-P>.
	01	22	25	07.1	43.987	N	8.604	E	10	G			1.0	27	CORSICA. ML 2.8 (GEN), 2.7 (LDG). MD 2.3 (STR).
	01	22	28	42.7*	23.280	N	120.105	E	10	G			1.1	7	TAIWAN
	01	23	07	50.4*	24.116	N	121.661	E	10	G	3.5		0.5	5	TAIWAN
	01	23	25	53.8?	13.64	N	91.86	W	10	G	4.2		1.5	8	NEAR COAST OF GUATEMALA
	02	01	28	21.6*	25.368	S	70.138	E	10	G	5.1	4.6	0.8	20	MID-INDIAN RISE
	02	01	56	38.7	32.176	S	69.437	W	138	*			0.7	17	MENDOZA PROVINCE, ARGENTINA
	02	02	03	06.7	48.011	N	9.341	E	10	G			1.2	16	GERMANY. ML 2.9 (LDG), 2.3 (GRF). MD 2.1 (STR).
	02	02	52	46.7	37.798	N	15.036	E	10	G			0.9	9	SICILY
	02	03	24	05.2	37.814	N	15.000	E	10	G			1.4	16	SICILY
	02	03	26	44.1	37.779	N	15.016	E	10	G			0.8	8	SICILY
	02	03	36	17.6	37.786	N	15.033	E	10	G			1.0	7	SICILY
	02	04	18	03.9	44.588	N	8.317	E	10	G			0.9	19	NORTHERN ITALY. ML 2.6 (GEN), 2.5 (LDG).
	02	04	41	03.0*	12.692	N	145.064	E	33	N	4.5		0.4	6	SOUTH OF MARIANA ISLANDS. Felt (III) in central Guam.
	02	05	19	02.4	37.788	N	14.982	E	19				1.0	16	SICILY
	02	05	35	09.8?	51.23	N	15.98	E	10	G			1.6	5	POLAND. ML 2.8 (KBA).
	02	06	02	10.5	40.335	N	29.266	E	10	G			1.4	10	TURKEY
	02	06	24	08.0*	17.645	S	168.027	E	72		4.8		0.8	16	VANUATU ISLANDS
	02	06	52	09.4&	61.478	N	151.013	W	68					38	SOUTHERN ALASKA. <AGS-P>.
	02	07	02	32.0&	62.715	N	149.688	W	69					28	CENTRAL ALASKA. <AGS-P>.
	02	07	49	08.6&	44.390	N	112.737	W	0					20	EASTERN IDAHO. <BUT>. ML 3.9 (BUT).
	02	08	53	15.4?	31.34	S	69.17	W	33	N			1.0	4	SAN JUAN PROVINCE, ARGENTINA
	02	09	27	17.9&	36.818	N	121.597	W	3					14	CENTRAL CALIFORNIA. <BRK>. ML 3.0 (BRK).
	02	09	39	19.8?	11.97	N	87.35	W	33	N	4.2		0.8	9	NEAR COAST OF NICARAGUA
	02	10	05	10.0	40.282	N	29.269	E	10	G			1.2	7	TURKEY
	02	10	30	50.4	0.468	S	79.057	W	10	G			0.6	11	ECUADOR
	02	11	27	40.2*	17.402	N	94.792	W	104	*	3.9		1.3	16	CHIAPAS, MEXICO
	02	11	54	24.0*	34.654	N	86.872	E	33	N	3.6		1.4	11	TIBET
	02	12	47	17.4*	51.196	N	15.783	E	10	G			1.5	8	POLAND. ML 2.7 (KRA).
	02	13	21	53.5	38.258	N	28.829	E	5	G			1.1	19	TURKEY

Annual Subscriptions: Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.
Back issues: Books and Open-File Reports Section, U.S. Geological Survey, Box 25425, Denver, CO 80225.

	02	13	42	20.0?	8.21	S	127.80	E	174	?			1.5	6	TIMOR
	02	14	04	25.5•	42.219	N	76.270	E	33	N	4.4		1.5	11	ALMA-ATA REGION. Felt (III) at Alma-Ata.
a	02	14	49	09.4	18.407	S	176.924	E	10	G	5.6	5.7	1.3	160	FIJI ISLANDS REGION. Felt (V) at Singatoka and Navua; (IV) at Nadi, Viti Levu. Felt throughout Viti Levu.
	02	14	53	14.7&	36.825	N	121.592	W	1					13	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK).
	02	15	20	21.3•	31.079	S	71.672	W	33	N			0.8	14	NEAR COAST OF CENTRAL CHILE
	02	15	29	34.7%	35.736	N	52.103	E	10	G			0.9	6	IRAN
	02	15	56	56.1•	18.723	S	71.337	W	47	•	4.7		1.5	14	OFF COAST OF NORTHERN CHILE
	02	16	48	46.1•	24.199	S	69.681	W	33	N			0.9	6	NORTHERN CHILE
	02	16	55	45.9?	13.71	S	166.89	E	33	N	4.4		1.3	11	VANUATU ISLANDS
	02	17	58	19.0•	18.683	S	71.409	W	33	N			1.7	5	OFF COAST OF NORTHERN CHILE
a	02	18	34	46.2	18.073	S	178.307	W	576	D	5.3		1.0	201	FIJI ISLANDS REGION
a	02	18	53	40.3	5.294	S	151.099	E	44	•	5.7	5.5	1.1	134	NEW BRITAIN REGION
	02	19	25	37.3	33.880	S	70.071	W	10	G			1.4	14	CHILE-ARGENTINA BORDER REGION
	02	19	26	58.9?	32.54	N	49.15	E	33	N	4.0		0.7	6	WESTERN IRAN
	02	19	32	31.4&	61.360	N	151.516	W	77					48	SOUTHERN ALASKA. <AGS-P>.
	02	19	58	59.7	33.773	S	69.967	W	10	G			0.2	9	CHILE-ARGENTINA BORDER REGION
	02	19	59	23.0	44.049	N	8.620	E	10	G			1.0	23	NORTHERN ITALY. ML 2.5 (LDG), 2.4 (GEN).
	02	21	04	14.5	41.415	N	22.703	E	10	G			1.2	7	YUGOSLAVIA. ML 2.5 (SKO).
	02	22	17	17.0%	46.964	N	5.750	E	10	G			0.6	8	FRANCE. ML 2.3 (LDG).
	02	23	58	00.3?	15.14	N	60.27	W	28				0.2	7	LEEWARD ISLANDS. ML 2.5 (LDG).
	03	00	01	54.3	47.037	N	10.598	E	5	G			1.3	35	AUSTRIA. ML 3.4 (FUR), 3.0 (LDG), 2.9 (KBA). Felt (V) at Pfunds.
	03	00	18	51.4&	36.875	N	122.152	W	7					13	CENTRAL CALIFORNIA. <BRK>. ML 3.1 (BRK).
	03	01	07	09.7	36.419	N	1.727	E	10	G			0.8	16	ALGERIA. mbLg 3.4 (MDD).
	03	01	53	55.3?	43.31	N	1.63	W	10	G			0.8	10	PYRENEES
	03	02	23	43.8•	7.910	N	126.859	E	81	?	4.4		1.0	19	MINDANAO, PHILIPPINE ISLANDS
	03	02	31	45.7•	4.724	S	153.515	E	91	•	4.6		0.8	18	NEW IRELAND REGION
	03	03	15	29.8•	0.397	S	124.578	E	33	N	4.5		1.0	13	MOLUCCA SEA
	03	03	39	16.4?	33.56	S	71.82	W	10	G			0.2	6	NEAR COAST OF CENTRAL CHILE
a	03	04	43	42.9	3.065	S	126.361	E	85	•	5.1		1.2	47	BURU
	03	05	10	42.4•	32.151	S	71.098	W	80	?			1.0	13	NEAR COAST OF CENTRAL CHILE
	03	05	37	21.9•	24.228	S	68.490	W	33	N			1.2	7	CHILE-ARGENTINA BORDER REGION
	03	05	55	39.6	31.388	S	67.923	W	10	G			1.1	14	SAN JUAN PROVINCE, ARGENTINA
	03	06	33	10.2•	39.751	N	20.565	E	10	G			1.2	5	GREECE-ALBANIA BORDER REGION. MD 3.1 (ATH).
	03	07	26	29.4%	44.561	N	7.294	E	10	G			0.3	10	NORTHERN ITALY. ML 2.2 (GEN).
	03	07	30	54.2	18.672	N	64.647	W	62		5.0		0.9	144	VIRGIN ISLANDS. Felt in U.S. and British Virgin Islands. Also felt on Culebra, Vieques and eastern Puerto Rico.
	03	08	23	56.2	39.208	N	23.757	E	5	G			1.4	16	AEGEAN SEA. ML 3.3 (ATH).
o	03	09	54	55.6	51.125	N	130.238	W	10	G	5.2	5.4	1.1	103	QUEEN CHARLOTTE ISLANDS REGION. ML 5.0 (PGC).
	03	10	00	42.7•	32.111	S	71.671	W	97	?	3.7		1.2	15	NEAR COAST OF CENTRAL CHILE
	03	10	59	21.0•	58.948	S	25.531	W	33	N	4.8		0.7	16	SOUTH SANDWICH ISLANDS REGION
	03	11	12	33.8•	41.447	N	22.389	E	10	G			1.0	7	YUGOSLAVIA. ML 2.3 (SKO).
	03	11	57	30.5	36.040	N	27.126	E	10	G			1.0	10	DODECANESE ISLANDS
	03	12	04	50.8	7.050	S	129.191	E	172	•	5.1		1.3	51	BANDA SEA
	03	12	17	26.0?	50.98	N	130.51	W	10	G			0.1	5	VANCOUVER ISLAND REGION. ML 3.7 (PGC).
	03	12	27	45.3%	10.524	N	61.957	W	10	G			1.1	7	TRINIDAD. MD 3.0 (TRN).
	03	13	00	54.6•	17.063	S	121.707	E	10	G			1.5	14	WESTERN AUSTRALIA
	03	13	03	03.8?	45.00	N	14.46	E	10	G			0.6	4	ADRIATIC SEA. ML 2.1 (KBA).
	03	13	18	07.7	44.410	N	6.925	E	10	G			0.4	13	FRANCE. ML 2.2 (GEN), 2.1 (LDG).
	03	16	35	20.1?	15.12	N	60.27	W	28	•			0.4	6	LEEWARD ISLANDS. ML 2.5 (LDG).
	03	16	37	24.1&	62.455	N	151.788	W	98					44	CENTRAL ALASKA. <AGS-P>.
	03	17	56	58.3?	37.50	N	73.12	E	33	N			0.4	7	TAJIK SSR
	03	18	49	00.3•	39.933	N	24.056	E	10	G			0.8	10	AEGEAN SEA. MD 3.2 (ATH).
	03	18	56	49.5&	61.623	N	151.335	W	68					25	SOUTHERN ALASKA. <AGS-P>.
	03	18	57	57.4	39.985	N	23.900	E	10	G			1.0	26	AEGEAN SEA. ML 3.5 (ATH).
	03	19	44	25.2•	39.997	N	24.013	E	5	G			1.4	11	AEGEAN SEA
	03	20	06	24.6&	40.055	N	123.050	W	23					13	NORTHERN CALIFORNIA. <BRK>. ML 3.1 (BRK).
o	03	22	27	30.8	2.282	S	125.086	E	37	•	5.2	4.3	1.2	47	CERAM SEA
	03	22	50	20.2•	41.438	N	22.647	E	10	G			1.4	6	YUGOSLAVIA. ML 2.0 (SKO).
	03	23	22	45.0	37.890	N	20.012	E	16		4.0		1.1	20	IONIAN SEA. MD 3.8 (ATH).
	03	23	52	31.4	24.255	S	67.110	W	180		4.7		1.1	39	CHILE-ARGENTINA BORDER REGION
	04	01	05	35.9%	43.567	N	11.793	E	33	N			1.6	8	CENTRAL ITALY
	04	01	06	05.5&	49.289	N	119.536	W	10	G				11	BRITISH COLUMBIA. <PGC>. ML 2.3 (PGC). Felt mildly from Penticton to Oliver with mast reports from Okonagan Falls and Kaladen.
	04	02	02	23.1	28.064	N	130.076	E	25	D	5.1		1.1	86	RYUKYU ISLANDS
	04	02	04	20.8•	50.116	N	153.338	E	209	?	4 5		0.6	27	KURIL ISLANDS
	04	02	15	21.2	51.152	N	130.452	W	10	G	3.8		1.4	25	QUEEN CHARLOTTE ISLANDS REGION. ML 4.1 (PGC).
	04	02	30	41.1	37.474	N	20.968	E	56		5.0		1.1	99	IONIAN SEA. MD 4.5 (ATH).
	04	02	47	16.8•	17.675	S	178.769	W	571		4.6		1.0	41	FIJI ISLANDS REGION
	04	03	12	59.4&	61.507	N	146 404	W	22					35	SOUTHERN ALASKA. <AGS-P>.
	04	04	02	47.4&	36.860	N	121.612	W	5					12	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK).
	04	04	52	48.7	36.034	N	27.108	E	10	G			0.9	7	DODECANESE ISLANDS
	04	05	08	24.2&	62.330	N	151.391	W	90					40	CENTRAL ALASKA. <AGS-P>.
	04	06	07	01.6	22.377	S	70.141	W	60	•	4.7		1.5	27	NEAR COAST OF NORTHERN CHILE
	04	06	15	37.4?	24.43	N	122.45	E	10	G			1.4	5	TAIWAN REGION
	04	06	22	58.3?	46.48	N	152.08	E	124	?	4.4		1.1	13	KURIL ISLANDS
	04	06	23	45.4?	2.96	N	98.11	E	117	•	4.3		0.9	7	NORTHERN SUMATERA
	04	07	10	43.4•	44.200	N	10.257	E	10	G			0.8	6	NORTHERN ITALY
	04	07	27	04.9?	35.89	N	53.23	E	33	N			0.9	6	IRAN. Felt in the Firuz Kuh area.
	04	07	50	21.2	39.688	N	24.117	E	37	•	3.8		1.0	53	AEGEAN SEA. ML 3.6 (ATH).
o	04	07	58	14.0	10.233	S	110.290	E	46	D	5.7	5.4	1.1	210	SOUTH OF JAVA
	04	08	05	59.0•	31.940	S	71.051	W	10	G			0.8	10	NEAR COAST OF CENTRAL CHILE
	04	08	13	13.6	46.174	N	13.593	E	10	G			0.9	10	AUSTRIA. MD 3.1 (LJU), 2.6 (TRI). ML 2.4 (KBA).
	04	08	46	15.7?	34.92	S	71.94	W	10	G			0.3	8	NEAR COAST OF CENTRAL CHILE
	04	09	06	38.0%	39.128	N	27.611	E	10	G			0.5	5	TURKEY
	04	09	22	15.2	46.182	N	13.604	E	10	G			1.2	12	AUSTRIA. ML 2.6 (KBA). MD 2.9 LJU), 2.7 (TRI). Felt (IV) in the Tolmin area, Yugoslavia.
	04	10	32	18.7	44.604	N	6.762	E	10	G			0.3	8	FRANCE. ML 2.0 (GEN).
	04	10	57	40.9?	19.59	S	169.26	E	57	?	4.8		1.3	11	VANUATU ISLANDS
	04	11	34	33.7?	19.31	S	175.02	W	210	G	4.3		1.4	10	TONGA ISLANDS

	04	12	17	55.3*	31.355	S	68.649	W	105	*		0.6	8	SAN JUAN PROVINCE, ARGENTINA
	04	12	50	57.4	4.846	S	153.320	E	65		5.0	0.8	61	NEW IRELAND REGION
	04	14	47	41.0?	0.39	S	132.77	E	33	N	4.5 3.7	1.5	7	WEST IRIAN REGION
	04	14	50	27.1*	32.496	N	98.133	E	33	N	3.7	1.3	8	SICHUAN PROVINCE, CHINA
	04	15	04	53.6*	6.864	S	153.707	E	35	*	4.7 3.6	0.9	18	NEW BRITAIN REGION
	04	16	36	15.8&	59.583	N	152.974	W	99				25	SOUTHERN ALASKA. <AGS-P>.
	04	16	55	03.9	7.452	S	128.617	E	118	*	5.0	1.0	74	BANDA SEA
	04	16	55	36.2	36.106	N	1.940	E	10	G		0.9	18	ALGERIA. ML 3.8 (LDG. mbLg 3.4 (MDD).
	04	18	15	52.7*	9.715	N	126.353	E	55	?	4.6	1.1	27	MINDANAO, PHILIPPINE ISLANDS
	04	19	05	38.8*	14.573	N	146.932	E	33	N	5.0	1.1	21	MARIANA ISLANDS
	04	19	34	42.1%	22.874	N	121.618	E	10	G		0.9	6	TAIWAN REGION
	04	19	35	13.4	32.872	S	71.477	W	13			0.5	10	NEAR COAST OF CENTRAL CHILE
	04	20	07	57.7?	18.58	N	65.64	W	122	*		1.3	7	PUERTO RICO REGION
	04	20	26	13.1	22.374	S	68.423	W	101		5.3	1.3	69	NORTHERN CHILE. Felt (III) at Antofagasta.
	04	20	29	03.1	37.515	N	21.598	E	10	G	3.9	1.3	12	SOUTHERN GREECE. ML 3.3 (ATH).
	04	20	34	42.2	28.078	N	57.619	E	39	*	4.8 4.5	1.3	107	SOUTHERN IRAN
	04	21	05	15.9*	47.928	N	9.399	E	10	G		1.2	10	GERMANY. ML 2.9 (LDG), 2.4 (KBA), 2.0 (GRF). MD 2.6 (KRW).
	04	21	15	57.2%	47.993	N	4.704	E	10	G		0.3	7	FRANCE. ML 2.3 (LDG).
	04	21	21	14.2%	44.059	N	7.923	E	10	G		0.4	6	NORTHERN ITALY. ML 1.7 (GEN).
	04	21	33	55.4	18.951	N	65.844	W	60	*	4.6	1.1	41	PUERTO RICO REGION
	04	21	54	58.5	53.104	N	172.675	E	33	N	4.8	1.2	23	NEAR ISLANDS, ALEUTIAN ISLANDS
	04	21	55	11.3*	18.761	N	65.896	W	33	N		0.8	9	PUERTO RICO REGION
	04	23	27	25.6*	8.141	N	127.086	E	33	N	4.4	1.2	13	PHILIPPINE ISLANDS REGION
	04	23	59	56.3?	62.06	N	2.40	E	10	G		0.7	4	NORWEGIAN SEA. MD 2.2 (BER).
	05	00	51	01.9&	33.500	N	116.450	W	9				21	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS). Felt (III) at North Palm Springs and Worner Springs. Also felt at Anza, Indio and Palm Desert.
	05	01	12	37.5*	38.125	N	29.325	E	33	N		1.2	7	TURKEY
	05	01	21	11.2*	35.190	N	28.389	E	10	G		1.0	5	EASTERN MEDITERRANEAN SEA. MD 2.8 (ATH).
	05	02	06	47.7*	24.877	N	92.425	E	33	N	4.1	1.1	8	INDIA-BANGLADESH BORDER REGION
	05	02	09	04.9	24.062	S	66.989	W	196		4.6	1.0	16	SALTA PROVINCE, ARGENTINA
	05	03	24	50.8&	59.930	N	153.223	W	129				26	SOUTHERN ALASKA. <AGS-P>.
	05	03	30	36.6&	36.248	N	120.385	W	7				14	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).
	05	03	33	00.8	50.426	N	6.079	E	10	G		1.0	10	GERMANY. ML 2.7 (LDG). MD 2.1 (UCC).
	05	03	41	16.2*	47.945	N	9.307	E	10	G		1.0	6	GERMANY. ML 2.9 (LDG), 2.2 (GRF).
	05	04	04	54.2	42.176	N	15.540	E	10	G		1.2	36	ADRIATIC SEA. ML 3.0 (KBA).
	05	04	55	20.2*	1.004	S	78.445	W	10	G		1.2	8	ECUADOR
f	05	05	16	46.1	37.047	N	71.250	E	110	G	6.1	1.0	552	AFGHANISTAN-USSR BORDER REGION. Slight damage (VI) at Khorog. Felt (V) at Ishkashim, Kulyab, Garm, Nurek, Dushanbe and Obigarm; (IV) at Pyondzh; (III) at Andizhan, Fergana, Tashkent, Namongan and Leninabod, USSR. Felt (IV) at Kobul, Afghanistan. Also felt at Islamabad, Peshawar and Rowalpindi, Pakistan and in the Srinogar area, Kashmir. Depth from broadband displacement seismograms.
	05	07	03	13.3	14.044	N	61.160	W	180		4.4	0.6	23	WINDWARD ISLANDS
	05	07	17	44.5	36.749	N	2.534	E	10	G	4.3	1.1	43	ALGERIA. mbLg 3.7 (MDD).
	05	08	11	26.3	43.969	N	8.682	E	9			0.7	27	CORSICA. ML 3.2 (LDG), 3.0 (GEN). MD 2.4 (STR).
	05	09	20	04.4	32.081	N	98.323	E	10	G	5.0	1.0	22	SICHUAN PROVINCE, CHINA
	05	09	28	46.2	36.450	N	70.462	E	206	*	4.6	1.0	43	HINDU KUSH REGION
	05	09	29	34.8?	5.91	S	131.37	E	141	?	4.1	0.7	6	BANDA SEA
	05	09	48	45.8?	34.35	S	71.08	W	33	N		0.3	7	NEAR COAST OF CENTRAL CHILE
	05	10	17	36.9	43.575	N	7.973	E	11			0.3	14	NEAR SOUTH COAST OF FRANCE. ML 2.2 (GEN). MD 1.7 (STR).
	05	10	23	25.2&	39.504	N	111.517	W	10				14	UTAH. <SLC-P>. ML 3.1 (SLC). Felt (III) at Moroni and Wales. Also felt at Mt. Pleasant.
	05	10	26	08.1&	38.803	N	122.805	W	4				16	NORTHERN CALIFORNIA. <BRK>. ML 3.1 (BRK).
	05	10	53	07.3*	14.317	N	61.170	W	33	N		0.2	5	WINDWARD ISLANDS. ML 2.0 (FDF).
	05	13	13	07.2*	39.439	N	16.407	E	10	G		1.4	6	SOUTHERN ITALY
	05	16	13	19.7*	44.215	N	113.591	W	5	G		0.5	9	EASTERN IDAHO. ML 3.3 (BUT).
	05	16	18	11.2*	37.222	N	28.278	E	10	G		1.2	6	TURKEY
	05	17	19	13.7*	20.347	S	167.912	E	33	N	4.2	1.4	15	LOYALTY ISLANDS
	05	19	01	47.7*	33.313	S	67.854	W	10	G		1.2	12	MENDOZA PROVINCE, ARGENTINA
	05	19	36	46.1*	37.066	N	71.851	E	135	?	4.0	1.5	13	AFGHANISTAN-USSR BOROER REGION
	05	21	14	30.0?	4.72	S	147.93	E	156	*	4.8	1.2	10	BISMARCK SEA
	05	21	19	55.1*	36.932	N	141.377	E	56	*	4.6	1.3	25	NEAR EAST COAST OF HONSHU, JAPAN
	05	23	04	03.8	45.893	N	13.860	E	10	G		0.7	7	NORTHERN ITALY. MD 2.9 (TRI), 2.8 (LJU). ML 1.6 (KBA).
	05	23	23	18.2	44.009	N	7.445	E	10	G		0.6	15	NORTHERN ITALY. ML 2.0 (LDG), 1.9 (GEN).
	05	23	37	16.0	39.654	N	20.717	E	5	G		0.6	8	GREECE-ALBANIA BORDER REGION MD 3.3 (ATH).
	05	23	49	25.8*	36.574	N	73.248	E	75	?	4.0	1.3	12	NORTHWESTERN KASHMIR
	05	23	57	04.2*	6.371	N	126.007	E	33	N	5.0	0.6	9	MINDANAO, PHILIPPINE ISLANDS
	06	01	11	30.2	38.546	N	25.746	E	10	G		1.1	15	AEGEAN SEA. ML 3.3 (ATH)
	06	02	15	38.1%	44.755	N	6.804	E	10	G		0.5	5	FRANCE
	06	02	49	58.0	43.677	N	12.075	E	33	N		1.0	38	CENTRAL ITALY. MD 2.9 (TRI). ML 3.1 (LDG), 2.5 (KBA).
	06	05	13	32.3*	34.979	N	121.163	W	10	G		0.5	9	OFF COAST OF CALIFORNIA. ML 2.7 (BRK).
	06	06	56	03.9&	36.852	N	121.620	W	3				14	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK).
	06	07	34	29.3	10.117	N	72.593	W	44		5.3 4.5	0.8	266	VENEZUELA. Felt (IV) at Volledupar, Colombia. Felt in much of northern Colombia. Also felt at Maracaibo and Merida.
	06	07	41	27.4	36.553	N	4.498	W	90			0.5	23	STRAIT OF GIBRALTAR. MD 3.0 (RBA).
	06	08	08	45.3	32.136	N	131.124	E	130	*	4.7	0.7	26	KYUSHU, JAPAN
	06	11	06	55.6	36.186	N	71.349	E	118	*	5.0	1.3	31	AFGHANISTAN-USSR BORDER REGION. Felt (III) at Ishkashim, Khorog and Dushanbe, USSR.
	06	11	26	01.2?	17.93	N	62.09	W	10	G		0.2	9	LEEWARD ISLANDS. ML 3.5 (FDF).
	06	12	16	33.7&	62.249	N	148.434	W	31				41	CENTRAL ALASKA. <AGS-P>. ML 3.1 (PMR).
	06	12	25	49.0?	19.99	N	62.15	W	33	N		0.6	16	LEEWARD ISLANDS. ML 4.3 (FDF).
	06	12	32	20.0&	59.258	N	152.512	W	66				16	SOUTHERN ALASKA. <AGS-P>.
	06	14	29	11.2*	8.845	S	119.360	E	141	?	4.3	0.9	11	FLORES ISLAND REGION
	06	14	54	35.6?	20.73	S	172.77	E	33	N	4.8	1.2	6	VANUATU ISLANDS REGION
	06	15	03	24.6	49.421	N	129.697	W	10	G	4.2	1.3	31	VANCOUVER ISLAND REGION
	06	17	25	40.7*	31.771	S	70.337	W	138	?		0.4	10	CHILE-ARGENTINA BORDER REGION
	06	18	14	08.0&	34.977	N	121.077	W	11				21	OFF COAST OF CALIFORNIA. <BRK>. ML 3.9 (BRK), 3.6 (PAS) Felt at the Diablo Canyon Nuclear Power Plant.

	06	18	19	32.6%	1.006	S	77.978	W	10	G			0.7	6	ECUADOR
	06	18	28	42.3*	34.976	N	121.122	W	10	G			0.6	8	OFF COAST OF CALIFORNIA. ML 2.6 (BRK).
	06	19	08	09.2	47.976	N	9.139	E	12				1.3	22	GERMANY. MD 2.7 (KRW). ML 2.5 (FUR), 2.6 (KBA).
	06	20	06	23.6	44.306	N	9.774	E	5	G			0.7	15	NORTHERN ITALY
	06	20	19	08.1*	38.753	N	14.356	E	10	G			1.5	5	SICILY
	06	22	43	24.0	10.489	S	110.178	E	33	N	4.6		1.0	13	SOUTH OF JAVA
	06	22	52	23.8	6.590	N	73.263	W	200		4.9		1.2	53	NORTHERN COLOMBIA
	06	23	50	24.3	17.278	N	61.004	W	27		4.5		0.7	28	LEEWARD ISLANDS. ML 4.0 (FDF).
	06	23	51	01.5	39.012	N	20.220	E	33	N			1.3	44	GREECE-ALBANIA BORDER REGION. ML 3.7 (ATH), 3.7 (TTG).
	07	01	52	29.5*	7.030	S	129.328	E	172	*	4.6		1.2	18	BANDA SEA
	07	02	07	09.8	40.490	N	21.314	E	5	G			1.0	17	GREECE. MD 3.6 (ATH). ML 3.1 (SKO).
	07	02	12	41.7*	22.043	S	170.281	E	43	*	4.6		1.4	35	LOYALTY ISLANDS REGION
	07	02	20	04.4*	45.689	N	26.701	E	142	*			0.7	16	ROMANIA
	07	02	43	37.7	50.417	N	5.962	E	12				0.8	20	BELGIUM. ML 3.0 (LDG). MD 2.4 (UCC).
	07	03	34	04.1	39.350	N	73.154	E	10	G	4.7		1.2	27	TAJIK-XINJIANG BORDER REGION
	07	04	16	03.1?	9.90	S	124.44	E	33	N	4.1		1.5	7	TIMOR
	07	05	28	35.0*	26.080	N	103.107	E	10	G			1.2	6	YUNNAN PROVINCE, CHINA. ML 3.7 (BJI).
	07	06	02	55.6	9.783	N	124.715	E	61	*	4.9	3.9	1.1	43	MINDANAO, PHILIPPINE ISLANDS
	07	06	24	00.6*	17.702	S	179.052	W	558		5.0		0.9	50	FIJI ISLANDS REGION
	07	07	41	39.9&	32.908	N	80.163	W	9					18	SOUTH CAROLINA. <GLD>. MD 2.7 (GLD). mbLg 2.9 (NEIS). Felt at Middleton Gardens and Summerville.
	07	07	58	01.6?	17.74	N	65.49	W	10	G			0.2	5	PUERTO RICO REGION. Felt at San Juan and Naranjito.
	07	08	19	56.2*	15.276	N	61.329	W	155	*			0.4	17	LEEWARD ISLANDS
	07	08	33	52.7%	44.238	N	7.505	E	10	G			0.5	7	NORTHERN ITALY. ML 2.2 (GEN).
	07	09	29	41.7	8.202	N	126.683	E	86	*	4.6		1.2	40	MINDANAO, PHILIPPINE ISLANDS
	07	10	20	58.4?	23.71	S	174.93	W	45	D	4.8	4.7	0.9	21	TONGA ISLANDS REGION
	07	10	32	39.7	18.912	N	120.559	E	12		4.8	4.3	0.9	51	LUZON, PHILIPPINE ISLANDS
	07	10	58	33.1&	36.850	N	121.628	W	7					14	CENTRAL CALIFORNIA. <BRK>. ML 3.0 (BRK).
	07	11	03	43.3%	35.506	N	24.096	E	33	N			0.8	6	CRETE. MD 3.6 (ATH).
	07	11	44	58.7	47.475	N	115.980	W	0	G			0.3	16	MONTANA. ML 2.9 (BUT). Possible rockburst.
	07	12	02	14.1&	35.629	N	98.827	W	5	G				9	OKLAHOMA. <TUL>. MD 2.5 (TUL).
	07	13	37	00.5?	51.32	N	16.28	E	10	G			1.2	5	POLAND. ML 2.9 (KBA).
	07	14	12	14.9&	36.928	N	121.702	W	8					33	CENTRAL CALIFORNIA. <BRK>. ML 4.0 (BRK). Felt (V) at Aromas, Gilroy and Watsonville; (IV) at Aptos, Ben Lamond, Castroville, Hollister, La Selva Beach, San Juan Bautista and Soquel; (III) at Chualar and Monterey.
	07	14	16	54.6*	25.000	N	123.511	E	33	N	3.9		1.2	14	NORTHEAST OF TAIWAN
	07	14	36	26.9*	36.023	N	27.292	E	33	N			0.9	5	DODECANESE ISLANDS. MD 3.6 (ATH).
	07	14	51	09.7*	11.283	S	162.906	E	33	N	3.9		0.6	8	SOLOMON ISLANDS
	07	15	32	30.8*	32.633	N	142.095	E	33	N	4.3		0.5	7	SOUTH OF HONSHU, JAPAN
	07	16	22	57.7	38.700	N	20.866	E	5	G			1.4	14	GREECE. MD 3.4 (ATH).
	07	17	08	03.5&	61.884	N	150.401	W	47					41	SOUTHERN ALASKA. <AGS-P>.
	07	19	15	46.8*	34.166	N	33.432	E	10	G			1.6	5	CYPRUS. ML 3.5 (CSS).
	07	20	14	05.4	40.465	N	21.278	E	10	G			0.6	7	GREECE. MD 3.3 (ATH). ML 2.8 (SKO).
	07	22	00	52.2*	34.365	N	76.647	E	84	?	4.6		1.1	17	EASTERN KASHMIR
	07	22	29	35.0*	36.811	N	71.498	E	33	N	4.3		0.5	8	AFGHANISTAN-USSR BORDER REGION
	07	23	00	04.6	6.776	S	129.274	E	33	N	4.8		1.0	13	BANDA SEA
	08	01	43	16.6	40.556	N	21.375	E	5	G			1.0	15	GREECE. MD 3.3 (ATH). ML 3.3 (SKO).
	08	01	53	22.6	53.138	N	1.159	W	10	G			1.1	32	UNITED KINGDOM. ML 3.5 (LDG). MD 3.6 (UCC).
	08	02	06	22.5*	37.270	N	15.171	E	10	G			1.4	5	SICILY
	08	02	45	25.4	13.551	N	90.035	W	98		4.8		1.1	113	NEAR COAST OF GUATEMALA. Felt (III) at San Salvador, El Salvador.
	08	03	27	27.1	31.467	S	67.955	W	33	N			0.1	7	SAN JUAN PROVINCE, ARGENTINA
	08	03	45	00.1	38.734	N	20.310	E	18				1.1	18	GREECE. MD 3.6 (ATH).
	08	04	33	43.2*	47.467	N	152.621	E	96	?	4.6		0.8	17	KURIL ISLANDS
	08	04	34	21.6	38.963	N	16.233	E	10	G			1.0	11	SOUTHERN ITALY
	08	04	56	59.8*	24.542	N	123.604	E	33	N	4.0		0.6	7	SOUTHWESTERN RYUKYU ISLANDS
	08	05	05	17.5	37.056	N	3.568	W	10	G			0.8	7	SPAIN. mbLg 2.9 (MDD).
f	08	07	15	32.2	9.755	N	124.694	E	26	G	6.2	6.6	1.4	322	MINDANAO, PHILIPPINE ISLANDS. Ms 6.5 (BRK), 6.3 (PAS). Mo=3.0*10**19 Nm (PPT). Felt (VII RF) on Bohol; (VI) at Cebu; (V) at Cagayan de Oro and on Camiguin; (IV) at Cotabato and (III) at Palo. Also felt on Negros. Two events about 2 seconds apart. Depth from broadband displacement seismograms, based on second event.
	08	07	21	58.5*	9.788	N	124 619	E	33	N	5.2		1.2	17	MINDANAO, PHILIPPINE ISLANDS
	08	07	39	51.1	9.674	N	124.858	E	33	N	5.2		1.4	58	MINDANAO, PHILIPPINE ISLANDS
o	08	07	46	59.7	9.725	N	124.625	E	30	D	6.0	6.5	1.2	248	MINDANAO, PHILIPPINE ISLANDS. Felt (V RF) on Mactan.
	08	07	47	28.9	39.153	N	23.736	E	8		4.7		1.0	44	AEGEAN SEA. ML 4.0 (ATH).
	08	08	00	36.7&	64.479	N	152.085	W	6					47	CENTRAL ALASKA. <AGS-P>. ML 3.7 (PMR).
	08	08	21	41.8?	16.65	N	95.57	W	33	N			0.5	5	OAXACA, MEXICO
	08	08	23	30.3	27.971	S	137.274	E	10	G	4.5		1.4	16	SOUTH AUSTRALIA
	08	08	26	42.2	9.707	N	124.489	E	33	N	5.3		1.1	61	MINDANAO, PHILIPPINE ISLANDS
	08	09	06	14.9?	46.02	N	16.25	E	10	G			0.1	5	YUGOSLAVIA. ML 2.8 (ZAG), 2.7 (KBA).
	08	09	09	38.0*	33.048	N	47.196	E	89	*	4.7		1.0	13	WESTERN IRAN
	08	09	18	16.7?	45.37	N	2.53	E	10	G			0.6	4	FRANCE. MD 2.3 (STR).
	08	09	47	32.3&	36.675	N	121.345	W	3					19	CENTRAL CALIFORNIA. <BRK>. ML 3.4 (BRK). Felt (IV) at Freedom and (III) at Aromas and Marina.
	08	09	48	23.5*	9.589	N	124.546	E	33	N	4.9		1.5	34	MINDANAO, PHILIPPINE ISLANDS
	08	10	10	34.6?	9.35	N	124.48	E	33	N	4.8		1.0	9	MINDANAO, PHILIPPINE ISLANDS
	08	10	36	04.2*	25.180	N	123.716	E	139	*	3.6		0.7	8	NORTHEAST OF TAIWAN
	08	11	23	44.8	46.188	N	13.643	E	10	G			0.7	12	AUSTRIA. ML 2.7 (KBA). MD 3.1 (LJU), 2.9 (TRI).
	08	12	07	29.7	25.170	N	123.688	E	37	*	4.4		1.3	33	NORTHEAST OF TAIWAN
	08	12	19	53.3*	25.654	N	123.337	E	151	*	4.3		1.5	21	NORTHEAST OF TAIWAN
	08	13	14	07.8?	9.19	N	125.56	E	175	?	4.0		1.5	12	MINDANAO, PHILIPPINE ISLANDS
	08	13	18	25.7*	20.864	N	100.919	E	33	N			1.1	6	SOUTHEAST ASIA
	08	13	24	15.2?	24.90	N	123.67	E	33	N			0.6	7	SOUTHWESTERN RYUKYU ISLANDS
	08	14	13	59.3	25.176	N	123.630	E	52	*	4.7	4.4	1.0	35	NORTHEAST OF TAIWAN
	08	14	34	55.4?	16.16	S	73.62	W	33	N			1.2	5	NEAR COAST OF PERU
	08	14	49	44.7	9.753	N	124.816	E	53	*	4.7		1.0	29	MINDANAO, PHILIPPINE ISLANDS
	08	15	14	04.9?	19.30	N	65.08	W	10	G			0.1	5	PUERTO RICO REGION
	08	15	47	31.4	36.259	N	12.100	W	10	G	5.0		1.2	175	NORTH ATLANTIC OCEAN. mbLg 5.0 (MDD). MD 4.7 (RBA). Felt (III) at Lisbon and Coimbra, Portugal.

	08	17	13	33.4	45.954	N	2.825	E	10	G			0.5	15	FRANCE. ML 2.6 (LDG). MD 2.1 (STR).
	08	17	50	15.7	38.988	N	16.198	E	20				0.8	16	SOUTHERN ITALY
	08	18	17	17.7*	36.690	N	29.033	E	10	G			0.6	5	TURKEY
	08	18	18	33.2%	43.087	N	0.831	W	10	G			0.2	7	PYRENEES. MD 1.0 (STR).
	08	18	27	23.2*	0.855	N	120.272	E	61	*	4.7		1.2	22	MINAHASSA PENINSULA
	08	18	31	01.8?	8.19	N	126.05	E	33	N	4.9	4.0	1.1	10	MINDANAO, PHILIPPINE ISLANDS
	08	20	17	52.2	36.642	N	27.045	E	158		4.5		1.1	124	DODECANESE ISLANDS
	08	20	28	12.8?	29.82	N	90.45	E	33	N			0.8	6	TIBET
	08	22	55	14.8?	3.49	S	129.89	E	109	?	4.1		1.4	10	CERAM
	08	23	13	38.4	43.826	N	18.695	E	10	G			1.4	23	YUGOSLAVIA. ML 2.7 (TTG).
	08	23	53	34.2&	64.470	N	146.918	W	12					25	CENTRAL ALASKA. <AGS-P>.
	09	01	22	18.6	9.742	N	124.843	E	56	*	5.1	4.3	1.0	75	MINDANAO, PHILIPPINE ISLANDS
	09	02	01	12.1	9.651	N	124.489	E	63	*	4.6		0.8	23	MINDANAO, PHILIPPINE ISLANDS
	09	02	41	11.5	39.445	N	23.915	E	18				1.3	29	AEGEAN SEA. ML 3.3 (ATH).
	09	02	42	08.3*	66.245	N	149.560	W	33	N			0.6	12	ALASKA
	09	03	53	19.4*	18.863	N	145.777	E	33	N	4.8		0.9	15	MARIANA ISLANDS
	09	03	57	04.6*	33.957	N	138.813	E	33	N	4.2		0.9	6	SOUTH OF HONSHU, JAPAN
	09	04	04	34.5	26.066	N	98.900	E	10	G	4.7		1.1	42	BURMA-CHINA BORDER REGION
	09	04	22	20.4?	31.17	S	68.57	W	86	?			0.7	5	SAN JUAN PROVINCE, ARGENTINA
	09	04	41	34.4*	27.127	N	44.462	W	10	G	4.7	4.1	0.9	18	NORTH ATLANTIC RIDGE
	09	04	58	13.2%	44.177	N	10.008	E	10	G			1.3	8	NORTHERN ITALY
	09	06	16	02.4	45.148	N	7.074	E	10	G			0.6	13	NORTHERN ITALY. ML 2.5 (LDG), 2.3 (GEN).
	09	09	16	40.8	44.348	N	7.281	E	14				0.7	17	NORTHERN ITALY. ML 2.4 (GEN).
a	09	09	31	47.6	36.775	N	2.477	E	12	D	5.0	4.4	1.1	318	ALGERIA. mbLg 4.9 (MDD). Felt in the Algiers area. Also felt (III) at Santa Pola, Spain.
	09	11	16	54.5*	36.699	N	2.500	E	10	G	4.3		1.0	24	ALGERIA. mbLg 4.0 (MDD). Felt at Algiers.
	09	11	19	56.4*	36.640	N	2.581	E	10	G			1.0	31	ALGERIA. mbLg 3.9 (MDD). Felt at Algiers.
	09	12	57	29.5	31.551	S	69.144	W	120	D	4.7		1.1	53	SAN JUAN PROVINCE, ARGENTINA. Felt (II) at Mendoza.
	09	13	09	53.8*	36.713	N	2.477	E	10	G	4.1		1.1	25	ALGERIA. mbLg 3.9 (MDD).
	09	13	19	30.2*	36.794	N	2.500	E	10	G	4.2		1.1	26	ALGERIA. mbLg 3.8 (MDD).
	09	14	10	49.6	41.972	N	20.419	E	10	G			1.5	16	ALBANIA. ML 3.2 (SKO), 2.7 (TTG).
	09	15	23	26.9%	38.916	N	26.959	E	10	G			1.3	6	AEGEAN SEA
	09	15	47	46.4%	40.262	N	29.188	E	10	G			0.3	8	TURKEY
	09	15	51	23.0	29.925	N	80.730	E	33	N	4.6		1.0	39	NEPAL-INDIA BORDER REGION
	09	16	12	05.4	30.346	N	50.551	E	59	*	4.5		0.9	15	IRAN
	09	16	24	55.1*	39.990	N	143.848	E	23		4.6	4.1	1.3	39	OFF EAST COAST OF HONSHU, JAPAN
	09	16	49	33.0*	45.849	N	15.903	E	10	G			1.5	7	YUGOSLAVIA. MD 2.5 (TRI). ML 2.4 (KBA). Felt at Zagreb.
	09	17	01	22.2*	9.873	N	124.799	E	34		4.8		1.2	17	MINDANAO, PHILIPPINE ISLANDS
	09	17	03	41.6	38.752	N	20.341	E	10	G			1.2	26	GREECE. MD 3.5 (ATH).
	09	17	09	18.3	14.984	S	75.667	W	9		5.4		1.0	128	NEAR COAST OF PERU. Felt (III) at Ica.
	09	17	10	46.3%	44.358	N	7.340	E	10	G			0.6	7	NORTHERN ITALY. ML 2.2 (GEN).
	09	17	39	02.0*	33.571	N	116.375	W	10	G			0.7	5	SOUTHERN CALIFORNIA. ML 2.9 (NEIS).
	09	17	57	26.4	31.677	N	121.032	E	10	G	5.0	4.3	1.2	72	EASTERN CHINA. One person injured slightly and minor damage in the Changshu area. Felt at Jiaxing, Nanjing, Nantong, Shanghai and Wuxi.
	09	18	08	35.6	9.734	N	124.820	E	69	*	4.8		1.1	44	MINDANAO, PHILIPPINE ISLANDS
	09	18	20	00.2*	41.088	N	31.853	E	10	G			0.9	5	TURKEY
	09	19	53	23.0*	10.547	S	120.293	E	58	?	4.0		1.4	13	SUMBA ISLAND REGION
	09	20	11	41.6?	30.10	N	90.23	E	33	N			0.6	6	TIBET
	09	20	12	39.3	45.852	N	11.008	E	15				1.2	39	NORTHERN ITALY. ML 3.4 (KBA), 3.0 (LDG). MD 3.3 (TRI).
	09	21	33	40.3	9.886	S	119.050	E	42	*	4.6		0.9	33	SUMBA ISLAND REGION
	09	22	29	06.3*	3.499	N	82.992	W	33	N	4.9		1.2	21	SOUTH OF PANAMA
a	09	22	30	23.5	26.972	N	140.315	E	436	*	4.7		0.8	110	BONIN ISLANDS REGION
	09	23	17	33.9*	31.813	S	70.019	W	107	?			0.6	11	CHILE-ARGENTINA BORDER REGION
	09	23	19	39.6%	38.897	N	26.951	E	10	G			1.3	6	AEGEAN SEA
	10	00	41	54.5?	33.30	N	49.22	E	33	N			1.2	5	WESTERN IRAN
	10	00	58	48.6*	9.580	N	124.499	E	33	N	4.4		1.2	20	MINDANAO, PHILIPPINE ISLANDS
	10	01	24	50.8*	10.080	N	125.245	E	52	D	4.5		1.5	21	LEYTE, PHILIPPINE ISLANDS
	10	01	32	04.2?	41.53	N	12.35	E	10	G			0.6	6	SOUTHERN ITALY
	10	01	32	15.0	9.817	N	125.004	E	33	N	4.8	4.4	1.2	31	MINDANAO, PHILIPPINE ISLANDS
	10	02	09	28.6*	10.148	N	124.816	E	33	N	4.6		0.6	10	LEYTE, PHILIPPINE ISLANDS
	10	02	46	13.2	18.784	S	71.271	W	51		5.0		1.2	37	OFF COAST OF NORTHERN CHILE
	10	02	54	00.9*	15.015	S	75.747	W	33	N	4.7		0.8	12	NEAR COAST OF PERU
a	10	03	27	41.2	42.343	S	172.798	E	10		6.0	6.0	1.3	102	SOUTH ISLAND, NEW ZEALAND. ML 6.0 (WEL). Slight damage in Canterbury Province where seiches were observed on some lakes. Felt at Blenheim, Christchurch, Greymouth and Nelson. Also felt at Wellington and Wanganui, North Island.
	10	03	34	31.9	18.756	S	71.456	W	34		4.8	5.9	0.9	22	OFF COAST OF NORTHERN CHILE
a	10	03	54	47.7*	42.347	S	172.595	E	10	G	5.0	5.7	1.5	26	SOUTH ISLAND, NEW ZEALAND
	10	03	57	29.2*	42.163	S	172.483	E	10	G	5.1		1.4	11	SOUTH ISLAND, NEW ZEALAND
	10	04	03	47.9*	19.243	S	71.470	W	33	N	4.9		1.3	7	OFF COAST OF NORTHERN CHILE
	10	04	50	00.6	50.086	N	155.916	E	114	D	4.8		1.0	66	KURIL ISLANDS
	10	06	45	10.2	3.449	N	82.848	W	10	G	5.0		1.0	62	SOUTH OF PANAMA
	10	06	56	13.3	3.452	N	82.865	W	10	G	5.2		0.9	77	SOUTH OF PANAMA
	10	07	52	39.4*	3.450	N	82.947	W	10	G	4.2		0.9	21	SOUTH OF PANAMA
	10	08	03	28.9	3.571	N	82.749	W	10	G	4.8		0.8	42	SOUTH OF PANAMA
	10	09	29	18.1*	19.117	S	71.624	W	33	N			0.7	6	OFF COAST OF NORTHERN CHILE
	10	09	42	07.6?	39.16	N	27.50	E	10	G			1.0	4	TURKEY
	10	09	43	28.8	51.205	N	178.964	W	33	N	4.9		0.8	58	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.6 (PMR).
	10	09	57	16.8?	2.85	N	95.99	E	33	N			1.1	7	OFF W COAST OF NORTHERN SUMATERA
	10	10	35	57.8*	15.327	N	104.360	W	33	N	5.0		1.1	33	OFF COAST OF MICHOACAN, MEXICO
	10	11	00	15.0%	41.606	N	12.630	E	10	G			0.7	8	SOUTHERN ITALY
	10	12	40	59.2	17.813	N	94.944	W	133	D	4.6		0.7	47	CHIAPAS, MEXICO. Felt on the Isthmus of Tehuantepec.
	10	12	51	10.5*	7.334	S	128.867	E	197	?	4.1		1.3	12	BANDA SEA
a	10	13	12	14.2	5.263	S	151.271	E	10	G	5.3	4.6	1.2	48	NEW BRITAIN REGION
	10	13	44	33.1%	18.111	N	66.470	W	10	G			0.5	5	PUERTO RICO REGION
	10	13	58	07.9	10.506	S	120.304	E	33	N	4.6		1.1	21	SUMBA ISLAND REGION
	10	14	15	55.9%	44.328	N	11.098	E	10	G			1.4	5	NORTHERN ITALY
	10	14	30	55.6%	44.058	N	7.925	E	10	G			0.2	7	NORTHERN ITALY. ML 2.3 (GEN).
	10	14	32	09.7*	7.704	S	128.368	E	163	?	4.3		1.3	10	BANDA SEA
	10	14	37	53.7*	29.736	N	139.033	E	438	*	4.4		0.8	18	SOUTH OF HONSHU, JAPAN
	10	14	59	03.9*	47.859	N	9.059	E	10	G			1.5	8	GERMANY. ML 2.8 (LDG), 2.1 (KBA).

	10	15 12 32.4%	44.064	N	7.911	E	10	G			0.4	7	NORTHERN ITALY. ML 2.1 (GEN).
	10	15 13 59.2	44.065	N	7.935	E	10	G			0.3	7	NORTHERN ITALY. ML 2.0 (GEN).
	10	15 50 22.2%	44.066	N	7.953	E	10	G			0.3	5	NORTHERN ITALY. ML 1.8 (GEN).
	10	16 58 49.6	9.839	N	125.005	E	61	•	5.0		1.0	44	MINDANAO, PHILIPPINE ISLANDS
	10	17 08 35.5•	6.293	S	154.754	E	79	?	5.0		1.3	23	SOLOMON ISLANDS
a	10	17 12 10.4	3.170	S	80.829	W	57	D	5.5		1.0	145	PERU-ECUADOR BORDER REGION
	10	17 49 37.5?	32.27	S	71.84	W	10	G			0.5	7	NEAR COAST OF CENTRAL CHILE
	10	18 40 29.2?	3.22	S	81.75	W	33	N	5.1		0.4	5	NEAR COAST OF NORTHERN PERU
	10	18 52 30.3&	60.084	N	153.106	W	124					24	SOUTHERN ALASKA. <AGS-P>.
	10	18 59 16.8•	41.779	N	20.303	E	10	G			0.6	5	ALBANIA
	10	19 47 57.6•	39.344	N	27.766	E	10	G			0.9	7	TURKEY
	10	20 01 58.8•	9.905	N	125.022	E	33	N	4.7		0.9	10	MINDANAO, PHILIPPINE ISLANDS
a	10	20 45 39.1	51.623	N	178.043	E	61	D	5.3		1.0	292	RAT ISLANDS, ALEUTIAN ISLANDS
	10	20 55 16.3?	9.72	N	124.51	E	33	N	5.1		1.1	12	MINDANAO, PHILIPPINE ISLANDS
	10	22 23 31.7?	3.42	S	103.04	W	10	G	4.5	3.5	1.2	27	NORTHERN EASTER I. CORDILLERA
	10	22 41 55.3?	44.01	N	7.57	E	10	G			0.2	6	NORTHERN ITALY. MD 1.0 (STR).
	10	22 47 29.5?	30.98	S	68.31	W	33	N			0.6	5	SAN JUAN PROVINCE, ARGENTINA
	10	23 04 08.3•	3.846	S	104.331	E	297	•	4.6		1.2	27	SOUTHERN SUMATERA
	10	23 51 00.7	31.294	S	70.225	W	33	N			1.0	12	CHILE-ARGENTINA BORDER REGION
	11	00 19 37.3•	28.152	S	67.633	W	146	•			1.1	10	LA RIOJA PROVINCE, ARGENTINA
	11	00 31 04.4&	40.403	N	125.358	W	6					7	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.5 (BRK).
	11	01 12 19.2	0.903	N	125.958	E	57	•	5.1	4.3	1.3	51	MOLUCCA PASSAGE
	11	02 01 50.8•	30.665	S	71.765	W	150	?			0.6	14	NEAR COAST OF CENTRAL CHILE
	11	02 02 22.4&	58.928	N	143.061	W	10	G				7	GULF OF ALASKA. <AGS-P>.
	11	02 10 46.6&	61.571	N	150.943	W	68					22	SOUTHERN ALASKA. <AGS-P>.
	11	03 06 21.2•	7.542	S	130.037	E	174	?	4.7		1.3	10	TANIMBAR ISLANDS REGION
	11	04 04 12.0%	40.024	N	27.342	E	10	G			0.4	7	TURKEY
	11	04 07 16.1%	42.653	N	13.067	E	10	G			0.7	8	CENTRAL ITALY
	11	05 01 25.5•	34.185	N	25.035	E	33	N			1.4	12	CRETE. MD 4.0 (ATH).
	11	06 23 36.5•	39.169	N	15.203	E	29	•			1.5	7	SOUTHERN ITALY
	11	06 34 52.5•	8.564	S	128.106	E	318	?	4.2		0.4	9	TIMOR SEA
	11	07 00 35.9	45.008	N	7.609	E	10	G	4.3		1.3	155	NORTHERN ITALY. ML 4.9 (GRF), 4.8 (LDG). MD 4.6 (TRI), 4.5 (STR).
	11	07 07 46.8	44.957	N	7.571	E	10	G			0.6	42	NORTHERN ITALY. ML 2.7 (GEN), 2.7 (LDG).
	11	07 22 51.9?	28.05	S	179.55	W	419	?	4.0		0.6	15	KERMADEC ISLANDS REGION
	11	09 05 10.0	50.309	N	7.384	E	5	G			1.4	8	GERMANY. MD 2.6 (UCC).
	11	09 13 34.3%	40.468	N	27.884	E	10	G			0.6	7	TURKEY
	11	09 16 13.7%	39.099	N	27.584	E	10	G			1.0	5	TURKEY
	11	09 27 08.8&	31.920	N	116.220	W	6	G				6	BAJA CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
	11	09 32 17.1?	31.55	S	68.84	W	87	?			0.2	5	SAN JUAN PROVINCE, ARGENTINA
	11	09 56 40.9	9.849	N	125.015	E	31	D	4.8	4.3	1.1	49	MINDANAO, PHILIPPINE ISLANDS
	11	11 23 53.8•	3.876	S	81.745	W	33	D	5.0		1.0	32	NEAR COAST OF NORTHERN PERU
	11	11 43 50.2	44.323	N	149.993	E	43	D	4.4		1.1	37	KURIL ISLANDS
	11	12 10 28.2	5.326	S	151.391	E	33	N	5.4	4.5	1.3	55	NEW BRITAIN REGION
	11	12 29 58.2%	40.257	N	29.179	E	10	G			0.8	9	TURKEY
	11	12 38 41.6?	7.74	S	129.18	E	181	?	4.6		1.7	7	BANDA SEA
	11	13 37 07.3	31.141	S	69.733	W	133	•			1.0	16	SAN JUAN PROVINCE, ARGENTINA
	11	13 54 08.6	6.376	S	146.797	E	63	D	5.1		1.1	65	EAST PAPUA NEW GUINEA REGION
	11	14 10 47.2	37.849	N	20.754	E	33	N	4.1		1.4	60	IONIAN SEA. ML 3.9 (ATH), 3.5 (TTG).
	11	14 43 59.7%	41.741	N	19.592	E	10	G			1.2	7	ALBANIA
	11	14 48 59.2	41.743	N	19.443	E	10	G			1.1	16	ALBANIA. ML 3.0 (TTG).
	11	15 48 18.3•	42.815	S	75.838	W	31	D	5.3		1.3	34	OFF COAST OF SOUTHERN CHILE
a	11	17 46 06.1	36.331	N	140.916	E	46	D	5.4	5.2	0.9	228	NEAR EAST COAST OF HONSHU, JAPAN. Felt (IV JMA) at Mita, (III JMA) at Chiba and Onahama and (II JMA) at Tokya and Yokahama.
	11	18 10 59.2•	43.226	N	21.272	E	10	G			1.7	6	YUGOSLAVIA. ML 2.5 (SKO).
	11	18 45 23.1?	8.44	S	118.39	E	33	N	4.5		1.0	12	SUMBAWA ISLAND REGION
	11	18 50 23.7	40.355	N	140.734	E	132		4.5		0.9	37	HONSHU, JAPAN
	11	19 23 13.0•	9.709	N	124.888	E	50	D	4.7		0.9	22	MINDANAO, PHILIPPINE ISLANDS
	11	19 30 53.6•	31.293	S	71.699	W	118	?			0.9	13	NEAR COAST OF CENTRAL CHILE
	11	20 13 00.8	43.148	N	0.192	W	10	G			1.0	18	PYRENEES. ML 3.7 (LDG). Felt (IV) at Arthez d'Asson and in the Bearn area, France.
	11	20 41 34.4?	39.51	N	28.98	E	10	G			0.7	4	TURKEY
a	11	21 58 39.4	31.184	S	177.634	W	29	D	5.3	5.0	1.5	49	KERMADEC ISLANDS REGION. Felt on Raoul Island.
	11	22 03 55.1	38.012	N	14.466	E	10	G			1.3	7	SICILY
	11	22 16 24.2•	33.311	S	71.951	W	10	G			1.1	14	NEAR COAST OF CENTRAL CHILE
	11	23 03 26.9•	9.650	N	124.491	E	33	N	4.8	4.2	0.9	17	MINDANAO, PHILIPPINE ISLANDS
	11	23 45 00.1&	63.005	N	150.382	W	105					33	CENTRAL ALASKA. <AGS-P>.
	12	01 00 32.0&	61.565	N	146.239	W	38					19	SOUTHERN ALASKA. <AGS-P>.
	12	01 08 12.7	46.822	N	9.763	E	10	G			1.3	27	SWITZERLAND. ML 3.0 (FUR), 3.0 (LDG), 2.8 (KBA).
	12	01 13 11.7	18.042	S	178.507	W	563		5.0		0.9	83	FIJI ISLANDS REGION
	12	01 34 40.6	5.583	N	0.326	W	10	G			0.3	7	NORTHWEST AFRICA. MG 2.7 (KUK).
	12	01 48 17.7&	36.855	N	121.612	W	5					21	CENTRAL CALIFORNIA. <BRK>. ML 3.9 (BRK). Mo=1.2•10••15 Nm (BRK). Felt (III) at Aromas, Gilroy and Moss Landing.
	12	02 51 53.4&	36.855	N	121.613	W	6					14	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK).
	12	02 55 47.9?	48.66	N	3.72	W	10	G			0.9	13	FRANCE. ML 3.2 (LDG).
	12	03 13 28.8&	64.814	N	147.766	W	18					11	CENTRAL ALASKA. <AGS-P>.
	12	03 26 03.5&	61.340	N	150.296	W	42					34	SOUTHERN ALASKA. <AGS-P>.
o	12	03 30 52.8	5.186	S	151.777	E	49	D	5.1	4.7	1.1	75	NEW BRITAIN REGION
	12	05 51 34.2	49.143	S	122.328	E	10	G	5.0		0.9	35	SOUTH OF AUSTRALIA
	12	06 24 19.9	48.176	N	7.014	E	10	G			0.5	13	FRANCE. ML 3.0 (LDG).
	12	08 48 55.9•	10.330	N	125.602	E	98	?	4.5		1.2	6	LEYTE, PHILIPPINE ISLANDS
	12	09 14 16.8?	39.10	N	27.47	E	10	G			0.3	4	TURKEY
	12	10 57 31.0•	33.340	S	71.939	W	10	G			1.3	12	NEAR COAST OF CENTRAL CHILE
	12	11 01 13.5%	39.109	N	27.573	E	10	G			1.6	5	TURKEY
	12	11 30 05.2%	39.242	N	29.061	E	10	G			1.0	11	TURKEY
	12	11 34 54.4	45.618	N	6.960	E	10	G			0.2	10	FRANCE. ML 2.1 (GEN).
	12	11 52 42.9?	41.47	N	12.56	E	10	G			0.5	6	SOUTHERN ITALY
	12	12 16 11.9?	4.76	S	151.27	E	33	N	4.5		0.6	9	NEW BRITAIN REGION
	12	12 22 18.7?	4.04	S	150.55	E	112	?	4.7		1.7	7	NEW BRITAIN REGION
a	12	12 25 33.5	5.256	S	151.330	E	15	D	5.5	5.2	1.2	147	NEW BRITAIN REGION. Ms 5.4 (BRK).
	12	12 38 29.9?	4.58	S	134.93	E	33	N	4.7		0.6	6	WEST IRIAN REGION

	12	12	43	49.3?	3.67	S	134.82	E	33	N	4.5	1.6	7	WEST IRIAN REGION
	12	12	54	28.9	44.397	N	7.401	E	10	G		0.4	10	NORTHERN ITALY. ML 1.9 (GEN).
	12	13	04	38.0*	14.252	S	167.283	E	10	G	4.5 4.8	1.4	18	VANUATU ISLANDS
	12	13	28	08.5*	9.617	N	124.591	E	64	*	4.7 4.3	1.2	24	MINDANAO, PHILIPPINE ISLANDS
o	12	13	44	29.2	44.130	N	128.926	W	10	G	5.1 5.2	0.9	127	OFF COAST OF OREGON
	12	14	30	10.2&	59.353	N	154.443	W	161				21	SOUTHERN ALASKA. <AGS-P>.
	12	15	12	33.6?	38.82	S	175.90	E	33	N		1.1	9	NORTH ISLAND, NEW ZEALAND
	12	15	24	30.3*	31.829	S	68.016	W	10	G		1.2	6	SAN JUAN PROVINCE, ARGENTINA
	12	15	42	06.5	36.131	N	27.153	E	10	G	4.5	1.5	33	DODECANESE ISLANDS. ML 4.3 (ATH), 4.2 (CSS).
	12	16	09	15.4?	11.30	N	61.37	W	33	N		0.5	4	WINDWARD ISLANDS. MD 2.7 (TRN).
	12	16	49	07.7&	37.053	N	121.887	W	11				13	CENTRAL CALIFORNIA. <BRK>. ML 2.7 (BRK).
	12	17	18	00.9?	31.26	S	68.48	W	106	?		0.4	5	SAN JUAN PROVINCE, ARGENTINA
	12	19	50	59.3?	36.16	N	141.54	E	10	G		0.3	5	NEAR EAST COAST OF HONSHU, JAPAN
	12	19	53	43.8?	15.32	N	61.23	W	117	?		0.3	9	LEEWARD ISLANDS
	12	20	23	30.1*	51.193	N	179.242	W	33	N	4.8	1.2	54	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.0 (PMR).
	12	20	48	06.3%	39.271	N	16.731	E	10	G		1.1	7	SOUTHERN ITALY
	12	20	51	01.4%	39.239	N	16.519	E	10	G		1.1	5	SOUTHERN ITALY
	12	22	06	26.9?	39.76	N	20.70	E	10	G		0.8	6	GREECE-ALBANIA BORDER REGION
	12	22	28	31.4%	43.065	N	0.628	W	10	G		0.6	5	PYRENEES. MD 1.0 (STR).
	12	23	31	00.2*	9.899	N	124.613	E	33	N	4.8	1.1	15	MINDANAO, PHILIPPINE ISLANDS
	12	23	39	14.2*	6.107	N	92.218	E	33	N	4.3	0.7	7	NICOBAR ISLANDS REGION
	12	23	56	38.0	31.193	S	48.919	W	30	D	5.5 4.4	1.4	90	SOUTH ATLANTIC OCEAN. Felt (III) at Porto Alegre, Brazil.
	13	00	07	36.7*	31.334	N	140.377	E	33	N	4.9	0.9	23	SOUTH OF HONSHU, JAPAN
	13	00	25	04.6*	38.181	N	72.264	E	33	N	4.3	0.4	8	TAJIK SSR
	13	01	49	16.4?	43.21	N	0.60	W	10	G		0.1	4	PYRENEES. MD 1.0 (STR).
	13	02	28	42.6?	31.18	S	68.89	W	33	N		1.9	5	SAN JUAN PROVINCE, ARGENTINA
	13	02	51	40.3*	13.744	N	90.601	W	33	N	4.8	1.0	30	NEAR COAST OF GUATEMALA
	13	04	40	26.8	42.212	N	25.163	E	5	G		1.5	7	BULGARIA
	13	05	54	38.6%	43.077	N	0.451	W	10	G		0.4	5	PYRENEES. MD 1.0 (STR).
	13	08	04	53.6	36.274	N	141.148	E	41	D	4.9	1.2	69	NEAR EAST COAST OF HONSHU, JAPAN
	13	08	28	05.2?	40.81	N	28.33	E	10	G		0.5	4	TURKEY
	13	09	15	28.7	42.182	N	15.564	E	10	G	3.9	1.2	81	ADRIATIC SEA. ML 4.4 (ZAG), 4.0 (VKA), 4.0 (KBA), 3.7 (TTG).
	13	09	50	27.7%	38.259	N	14.964	E	33	N		0.5	5	SICILY
	13	11	27	00.6	52.120	N	177.890	E	123	D	4.8	1.0	64	RAT ISLANDS, ALEUTIAN ISLANDS
	13	12	09	09.3	39.134	N	23.417	E	10	G		1.1	16	AEGEAN SEA. ML 3.2 (ATH).
	13	12	21	36.2	2.353	N	96.819	E	41	D	4.7 4.2	1.1	37	NORTHERN SUMATERA
	13	13	30	58.2	23.077	S	66.211	W	239		4.5	1.2	70	JUJUY PROVINCE, ARGENTINA
	13	14	31	03.2?	54.75	S	130.61	W	10	G	4.9 4.7	1.1	9	SOUTH PACIFIC CORDILLERA
	13	14	38	31.2%	43.265	N	12.497	E	10	G		0.8	6	CENTRAL ITALY
	13	15	47	28.0*	16.971	N	122.080	E	33	N	4.6	0.6	9	LUZON, PHILIPPINE ISLANDS
	13	16	17	00.0&	59.389	N	153.564	W	113				20	SOUTHERN ALASKA. <AGS-P>.
	13	17	07	38.9?	40.29	N	142.58	E	33	N	4.1	0.7	8	NEAR EAST COAST OF HONSHU, JAPAN
	13	18	30	01.6?	31.76	S	69.67	W	33	N		1.4	4	SAN JUAN PROVINCE, ARGENTINA
	13	19	26	03.8*	37.419	N	71.484	E	33	N		0.4	8	AFGHANISTAN-USSR BORDER REGION
	13	20	13	36.5*	31.477	N	102.376	E	33	N		1.7	6	SICHUAN PROVINCE, CHINA
	13	20	19	26.3?	40.32	N	24.06	E	10	G		1.0	6	AEGEAN SEA
	13	20	25	47.3?	17.33	N	60.97	W	33	N		0.5	9	LEEWARD ISLANDS. ML 3.6 (FDF).
	13	21	09	22.1?	36.85	N	27.58	E	10	G		0.4	4	DODECANESE ISLANDS. MD 3.6 (ATH).
	13	21	13	07.4	26.011	N	98.980	E	33	N	4.8 4.3	1.2	44	BURMA-CHINA BORDER REGION. ML 5.2 (BJI).
	13	21	41	40.9*	36.637	N	71.071	E	119	?	4.1	0.6	12	AFGHANISTAN-USSR BORDER REGION
	13	21	56	29.9&	59.570	N	137.207	W	18	G			5	SOUTHEASTERN ALASKA. <PGC>. ML 3.8 (PGC).
	13	22	19	07.8&	38.830	N	122.760	W	1				12	NORTHERN CALIFORNIA. <BRK>. ML 3.3 (BRK).
	14	00	05	21.8*	32.012	N	141.807	E	10	G	4.3	0.9	16	SOUTH OF HONSHU, JAPAN
	14	00	31	21.7	41.227	N	20.034	E	5	G		0.9	17	ALBANIA. ML 3.0 (SKO), 2.5 (TTG).
	14	01	37	48.0	9.803	N	124.948	E	64	*	4.7	1.1	43	MINDANAO, PHILIPPINE ISLANDS
	14	02	21	29.2*	33.238	S	71.772	W	10	G		1.4	11	NEAR COAST OF CENTRAL CHILE
	14	02	46	09.1	33.652	N	38.570	W	10	G	4.8 4.7	1.0	38	NORTH ATLANTIC RIDGE
	14	03	11	03.3&	37.632	N	118.942	W	6				19	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.1 (BRK).
	14	05	24	30.7	23.236	N	99.361	E	33	N	4.2	1.5	15	BURMA-CHINA BORDER REGION. ML 4.5 (BJI).
	14	05	26	22.5?	31.24	S	73.22	W	33	N		1.0	10	OFF COAST OF CENTRAL CHILE
	14	05	49	32.4	23.128	N	99.605	E	33	N	4.7	1.4	48	BURMA-CHINA BORDER REGION
	14	06	49	48.3	31.362	S	67.823	W	10	G		1.3	9	SAN JUAN PROVINCE, ARGENTINA
	14	07	58	10.1*	24.092	N	122.612	E	33	N	4.4	1.5	13	TAIWAN REGION
	14	08	18	33.4%	41.870	N	19.899	E	10	G		0.8	5	ALBANIA
	14	08	31	37.8	41.243	N	20.066	E	10	G		0.9	7	ALBANIA. ML 1.3 (SKO).
	14	08	37	25.5*	9.513	N	124.286	E	58	?	4.2	1.0	10	MINDANAO, PHILIPPINE ISLANDS
	14	09	25	44.1?	43.80	N	7.35	E	10	G		0.6	7	NEAR SOUTH COAST OF FRANCE
	14	09	32	04.2&	61.403	N	149.780	W	28				26	SOUTHERN ALASKA. <AGS-P>.
	14	10	15	40.3*	49.260	S	163.817	E	33	N	5.0	1.5	13	AUCKLAND ISLANDS REGION
	14	10	30	03.0?	39.13	N	27.53	E	10	G		0.7	4	TURKEY
	14	11	16	25.2&	62.221	N	151.422	W	91				20	CENTRAL ALASKA. <AGS-P>.
	14	11	25	16.2*	24.411	S	179.808	W	567	?	5.0	0.8	19	SOUTH OF FIJI ISLANDS
	14	12	14	06.7&	36.862	N	121.623	W	5				15	CENTRAL CALIFORNIA. <BRK>. ML 2.7 (BRK).
	14	12	17	01.7%	40.773	N	29.153	E	10	G		1.2	9	TURKEY
	14	12	27	14.4	26.286	S	27.507	E	5	G	4.5	0.9	12	REPUBLIC OF SOUTH AFRICA. mbLg 3.8 (BUL).
	14	13	12	56.9&	36.945	N	121.688	W	6				15	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
	14	14	07	45.1*	9.800	N	124.989	E	33	N	3.8	0.5	8	MINDANAO, PHILIPPINE ISLANDS
	14	14	50	22.3*	37.456	N	71.618	E	33	N	4.1	1.1	9	AFGHANISTAN-USSR BORDER REGION
	14	15	08	51.7?	61.51	N	3.48	E	10	G		1.5	7	NORWEGIAN SEA. MD 1.5 (BER).
	14	15	55	03.1	26.343	S	27.384	E	5	G		1.4	12	REPUBLIC OF SOUTH AFRICA. mbLg 3.9 (BUL).
	14	15	55	54.0	46.356	N	6.665	E	10	G		1.0	92	SWITZERLAND. ML 4.0 (LDG). MD 3.6 (STR). mbLg 3.5 (UCC).
	14	16	39	43.7?	4.09	S	143.27	E	83	?	3.3	0.1	5	PAPUA NEW GUINEA
	14	16	44	33.5	6.777	S	108.023	E	266	*	4.3	0.8	30	JAVA
	14	18	03	57.3	6.273	N	126.352	E	88	*	5.2	1.1	79	MINDANAO, PHILIPPINE ISLANDS
	14	20	33	34.5*	17.038	S	69.674	W	184	*		1.2	11	PERU-BOLIVIA BORDER REGION
	14	20	51	53.3*	29.258	S	71.637	W	33	N	4.4	1.3	18	NEAR COAST OF CENTRAL CHILE
	14	23	01	52.5*	3.284	N	73.998	W	33	N		0.4	7	COLOMBIA
	15	00	13	38.1	44.325	N	112.780	W	5	G		0.8	12	EASTERN IDAHO. ML 3.6 (BUT).
	15	00	26	50.1	0.212	S	125.171	E	63	*	5.0	1.3	58	MOLUCCA SEA
	15	01	15	14.7*	26.226	S	27.375	E	5	G		1.6	9	REPUBLIC OF SOUTH AFRICA. mbLg 3.7 (BUL)

	15	02 09 53.6&	63.112	N	150.832	W	125				12	CENTRAL ALASKA. <AGS-P>.
	15	02 20 18.7	36.123	N	27.196	E	10	G	3.2	1.2	7	DODECANESE ISLANDS. MD 3.3 (ATH).
	15	02 23 09.4*	50.733	N	18.519	E	10	G		1.5	8	POLAND. ML 3.7 (KBA), 3.4 (VKA).
	15	02 24 33.7*	20.819	N	143.807	E	33	N	4.8	1.0	22	MARIANA ISLANDS REGION
	15	03 43 41.3%	37.442	N	22.342	E	10	G		1.4	7	SOUTHERN GREECE. ML 3.0 (ATH).
	15	04 39 01.5*	41.294	N	142.248	E	33	N	4.6	1.3	18	HOKKAIDO, JAPAN REGION
	15	04 56 13.8	38.691	N	15.253	E	261		4.4	1.1	108	SICILY
	15	05 11 58.7	22.718	N	122.778	E	33	N	4.2	1.3	24	TAIWAN REGION. ML 4.4 (BJI).
	15	06 23 20.5	36.142	N	27.266	E	10	G		1.4	7	DODECANESE ISLANDS. MD 3.6 (ATH).
	15	06 26 43.8	36.149	N	27.242	E	10	G		1.0	7	DODECANESE ISLANDS. MD 3.7 (ATH).
	15	07 41 44.9*	37.437	N	22.470	E	10	G		1.6	6	SOUTHERN GREECE. MD 3.5 (ATH).
	15	07 56 08.7?	30.15	S	68.50	W	28	?		0.6	5	SAN JUAN PROVINCE, ARGENTINA
	15	08 31 06.9	46.814	N	146.187	E	342	*	4.5	0.8	45	NORTHWEST OF KURIL ISLANDS
	15	09 54 39.5&	36.868	N	121.628	W	6				15	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).
	15	10 18 35.4	45.135	N	23.035	E	10	G		1.4	9	ROMANIA
	15	11 13 39.4?	33.90	N	26.20	E	33	N		0.4	6	EASTERN MEDITERRANEAN SEA
	15	14 39 27.3	44.547	N	6.851	E	10	G		0.4	16	FRANCE. ML 2.5 (GEN).
	15	15 40 57.6*	44.535	N	6.800	E	10	G		0.7	5	FRANCE. ML 2.2 (GEN).
	15	17 17 16.3%	38.525	N	26.812	E	10	G		1.6	8	AEGEAN SEA
	15	18 29 06.7*	5.269	S	151.354	E	33	N	4.7	1.3	13	NEW BRITAIN REGION
	15	18 34 59.1&	47.922	N	121.923	W	16				39	WASHINGTON. <SEA>. CL 3.4 (SEA). ML 3.2 (NEIS). Felt (IV) at Gold Bar and Startup. Felt (III) at Darrington, Granite Falls, Snohamish and Sultan.
	15	19 23 03.9&	61.395	N	145.997	W	31		3.8		72	SOUTHERN ALASKA. <AGS-P>. ML 4.5 (PMR). Felt (IV) at Glennallen and Valdez and (III) at Anchorage, Copper Center, Gakona, Girdwood, Moose Pass, Palmer and Seward.
	15	19 45 49.2*	14.388	N	119.107	E	33	N	4.6	1.3	9	LUZON, PHILIPPINE ISLANDS
	15	19 53 06.1	0.106	S	123.086	E	99	*	4.5	0.9	17	MINAHASSA PENINSULA
	15	19 59 37.0	14.399	N	119.389	E	34	D	4.8	1.1	27	LUZON, PHILIPPINE ISLANDS
	15	20 23 14.0?	24.05	N	122.67	E	10	G		0.7	4	TAIWAN REGION
	15	21 09 51.9*	5.163	S	151.209	E	33	N	3.9	0.9	8	NEW BRITAIN REGION
	15	21 31 39.8	53.273	N	167.241	W	33	N	4.5	1.0	21	FOX ISLANDS, ALEUTIAN ISLANDS
	15	21 51 23.5?	37.18	N	28.95	E	10	G		0.7	4	TURKEY
	15	21 55 27.4	53.359	N	167.218	W	33	N	4.5	0.6	22	FOX ISLANDS, ALEUTIAN ISLANDS
a	15	22 08 01.5	5.225	S	151.355	E	16	D	5.7 4.9	1.1	149	NEW BRITAIN REGION
	16	00 15 18.5	14.392	N	119.229	E	30	D	5.1	1.1	49	LUZON, PHILIPPINE ISLANDS
	16	00 30 37.8	14.414	N	119.390	E	33	D	4.8 4.1	1.1	36	LUZON, PHILIPPINE ISLANDS
	16	02 54 02.2&	60.770	N	150.955	W	48				25	KENAI PENINSULA, ALASKA. <AGS-P>.
	16	04 25 59.2	23.852	N	121.835	E	33	N	4.0	0.7	9	TAIWAN
	16	05 13 21.0*	8.826	S	117.612	E	110	?	4.1	1.0	11	SUMBAWA ISLAND REGION
	16	05 55 03.2	35.918	N	54.405	E	23	D	4.8 4.3	1.0	74	IRAN. ML 5.0 (MHI). Felt in the Emamshahr area.
a	16	06 22 09.8*	22.295	S	174.329	W	33	N	5.1 5.0	1.2	34	TONGA ISLANDS REGION
	16	07 14 28.3?	6.36	S	147.36	E	69	*	3.8	1.7	6	EAST PAPUA NEW GUINEA REGION
	16	07 14 45.7&	60.014	N	153.215	W	135				33	SOUTHERN ALASKA. <AGS-P>.
	16	07 43 16.4%	37.771	N	29.181	E	10	G		1.1	6	TURKEY
	16	07 46 35.2%	33.029	S	70.559	W	33	N		0.8	9	CHILE-ARGENTINA BORDER REGION
	16	07 49 30.8	8.770	N	83.095	W	33	N	5.2	1.1	116	COSTA RICA
	16	08 14 23.6?	17.66	N	65.97	W	33	N		0.3	5	PUERTO RICO REGION
	16	09 37 56.5	45.007	N	111.774	W	5	G		0.7	11	MONTANA. ML 3.3 (BUT).
	16	10 18 29.6%	33.758	S	71.293	W	33	N		0.5	8	NEAR COAST OF CENTRAL CHILE
	16	10 44 21.6%	44.501	N	6.759	E	5	G		0.2	6	FRANCE. ML 2.3 (GEN).
	16	10 48 33.6&	36.873	N	121.628	W	7				14	CENTRAL CALIFORNIA. <BRK>. ML 3.3 (BRK). Felt at Prunedale, Salinas and San Jose.
	16	10 55 17.6?	44.56	N	128.54	W	10	G		0.4	23	OFF COAST OF OREGON
	16	11 08 34.6%	43.066	N	0.766	W	10	G		0.3	5	PYRENEES. MD 1.0 (STR).
	16	11 58 17.5	9.884	N	124.996	E	21	D	4.8 3.6	1.2	38	MINDANAO, PHILIPPINE ISLANDS
	16	12 42 10.0*	14.612	N	120.192	E	33	N	4.5	0.7	6	LUZON, PHILIPPINE ISLANDS
	16	12 45 48.9*	31.990	S	69.674	W	150	?		0.5	13	SAN JUAN PROVINCE, ARGENTINA
a	16	13 28 42.8	49.121	N	127.714	W	10	G	5.2 4.9	1.0	164	VANCOUVER ISLAND REGION. Felt at Port Alice and on Nootka Island. Felt mildly at Holberg, Port Hardy and Sointula.
	16	15 02 18.3%	39.273	N	28.241	E	10	G		1.5	7	TURKEY
a	16	15 12 46.4	3.121	S	80.683	W	76	D	5.0	1.2	37	PERU-ECUADOR BORDER REGION
	16	15 15 31.5	36.146	N	27.212	E	10	G		1.2	7	DODECANESE ISLANDS. MD 3.6 (ATH).
	16	17 25 35.3*	40.207	N	23.951	E	5	G		1.3	5	GREECE
	16	17 38 04.4	42.997	N	0.414	W	10	G		1.4	12	PYRENEES. ML 3.0 (LDG). Felt (III) in the Bearn area, France.
	16	18 06 41.8	3.424	S	129.046	E	33	N	4.7 3.5	0.9	28	CERAM
	16	18 58 38.8*	29.855	S	65.690	W	33	N		1.4	10	SANTIAGO DEL ESTERO PROV., ARG.
	16	18 59 02.6%	40.711	N	29.880	E	10	G		1.1	7	TURKEY
	16	19 18 54.2%	62.238	N	1.157	E	33	N		1.0	12	NORWEGIAN SEA. MD 2.9 (BER).
	16	20 29 36.8*	22.572	N	93.820	E	33	N		0.6	7	BURMA-INDIA BORDER REGION
	16	21 00 01.6	40.579	N	25.768	E	5	G		1.2	7	AEGEAN SEA. MD 3.0 (ATH).
o	16	21 02 53.7	3.564	S	140.272	E	47	D	5.3 4.8	0.8	120	WEST IRIAN
a	16	21 29 53.3	15.816	N	147.277	E	33	N	5.2 4.9	1.0	111	MARIANA ISLANDS REGION
	16	21 37 37.1%	44.523	N	6.794	E	10	G		0.6	5	FRANCE. ML 1.7 (GEN).
	16	21 46 25.1	49.200	N	7.051	E	10	G		0.3	6	GERMANY. MD 2.2 (UCC).
	16	21 54 14.5?	31.42	S	68.78	W	82	?		0.4	5	SAN JUAN PROVINCE, ARGENTINA
	16	22 16 46.2	40.732	N	27.480	E	10	G		0.7	14	TURKEY. MD 3.5 (ATH).
	16	22 22 12.5%	38.796	N	27.609	E	10	G		0.8	6	TURKEY
	16	22 50 51.9*	9.690	N	124.421	E	33	N	4.9	0.9	22	MINDANAO, PHILIPPINE ISLANDS
	16	22 51 32.6?	19.62	S	179.51	W	617	*	4.6	1.1	19	FIJI ISLANDS REGION
	16	23 32 39.0	33.626	S	71.666	W	31			0.6	16	NEAR COAST OF CENTRAL CHILE
	16	23 34 52.5%	36.920	N	4.808	W	10	G		1.5	8	STRAIT OF GIBRALTAR. mbLg 2.8 (MDD).
	16	23 58 06.7&	36.962	N	121.743	W	13				5	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).
	17	00 44 04.8&	61.620	N	146.787	W	3				37	SOUTHERN ALASKA. <AGS-P>.
	17	00 59 03.0	68.598	N	148.444	W	10	G	4.6 4.3	1.1	49	ALASKA
	17	01 04 10.0	33.507	N	141.085	E	33	N	5.0 4.2	1.3	36	OFF EAST COAST OF HONSHU, JAPAN
a	17	01 22 06.8*	4.567	S	105.583	W	10	G	5.5 5.8	1.4	42	NORTHERN EASTER I. CORDILLERA
	17	01 22 42.1?	19.60	S	175.62	W	208	?	4.9	1.4	16	TONGA ISLANDS
	17	01 24 27.6*	15.942	N	98.105	W	33	N	5.0 4.9	1.0	39	OFF COAST OF GUERRERO, MEXICO. Felt slightly at Mexico City.

	17	01	38	06.0	16.089	N	97.934	W	33	N	5.2	1.0	95	OAXACA, MEXICO. Felt slightly at Mexico City.
	17	01	50	48.3?	15.59	N	97.95	W	33	N	4.6	1.1	15	NEAR COAST OF OAXACA, MEXICO
	17	02	11	31.5&	63.547	N	150.077	W	11		4.3		72	CENTRAL ALASKA. <AGS-P>. ML 4.8 (PMR). Felt (III) at Cantwell and McKinley Park.
a	17	02	28	01.8	29.533	N	130.732	E	66	G	5.9	1.1	402	RYUKYU ISLANDS. Felt (III JMA) on Yaku. Depth from broadband displacement seismograms.
a	17	02	50	56.5	15.835	N	147.197	E	32	D	5.6 5.6	1.1	144	MARIANA ISLANDS REGION
	17	03	02	21.9%	11.023	N	61.849	W	33	N		0.8	5	WINDWARD ISLANDS. MD 2.7 (TRN).
	17	03	18	36.2	15.920	N	97.943	W	16	D	4.8	1.0	62	NEAR COAST OF OAXACA, MEXICO
	17	03	21	07.9*	15.944	N	98.064	W	20	D	4.8	1.0	23	OFF COAST OF GUERRERO, MEXICO
	17	03	42	59.6*	16.329	N	97.881	W	33	N	4.8	1.2	30	OAXACA, MEXICO
	17	03	46	03.5&	34.350	N	117.210	W	5				14	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS). Felt (III) at Crestline, Lake Arrowhead, San Bernardino and Victorville.
	17	04	44	37.3*	8.333	N	126.707	E	33	N	4.5 4.0	1.1	28	MINDANAO, PHILIPPINE ISLANDS
	17	05	39	19.0&	63.515	N	150.038	W	10				43	CENTRAL ALASKA. <AGS-P>. ML 3.4 (PMR).
	17	05	52	04.5*	50.626	N	175.116	E	33	N	4.3	1.1	14	RAT ISLANDS, ALEUTIAN ISLANDS
	17	06	37	03.3*	38.781	N	26.584	E	10	G		0.5	5	AEGEAN SEA. MD 3.0 (ATH).
	17	06	37	55.9*	14.422	N	119.392	E	33	N	4.6	1.0	12	LUZON, PHILIPPINE ISLANDS
	17	07	03	09.0	38.718	N	26.472	E	10	G		1.1	23	AEGEAN SEA. ML 3.7 (ATH).
	17	07	04	15.8*	36.819	N	71.513	E	105	?	4.7	1.6	19	AFGHANISTAN-USSR BORDER REGION
	17	09	01	52.8&	59.343	N	152.857	W	83				28	SOUTHERN ALASKA. <AGS-P>.
	17	10	00	49.1?	42.32	N	19.11	E	10	G		0.8	4	YUGOSLAVIA. ML 2.2 (TTG).
	17	12	00	19.7	40.767	N	27.478	E	10	G		1.1	10	TURKEY
	17	12	31	37.1	41.635	N	144.090	E	31	D	5.0 4.3	1.0	75	HOKKAIDO, JAPAN REGION
	17	12	38	56.9*	41.728	N	144.033	E	30	D	4.8	1.2	35	HOKKAIDO, JAPAN REGION
	17	13	05	24.0%	10.936	N	62.057	W	88	?		0.4	11	NEAR COAST OF VENEZUELA. MD 3.6 (TRN).
	17	14	01	02.9*	36.077	N	31.907	E	10	G		0.7	5	TURKEY. ML 3.4 (CSS).
	17	15	06	36.4?	31.52	S	69.04	W	33	N		1.0	4	SAN JUAN PROVINCE, ARGENTINA
	17	15	23	20.6?	36.74	N	2.53	E	10	G	4.1	0.6	6	ALGERIA. mbLg 3.4 (MDD).
	17	16	17	50.2?	31.18	S	68.59	W	103	?		0.3	5	SAN JUAN PROVINCE, ARGENTINA
	17	16	30	51.1	16.790	N	61.807	W	33	N		1.2	12	LEEWARD ISLANDS. ML 3.3 (FDF).
	17	16	46	19.4	42.176	N	15.551	E	10	G		0.6	9	ADRIATIC SEA
	17	17	37	58.6?	14.45	N	97.53	W	33	N		1.0	6	OFF COAST OF OAXACA, MEXICO
	17	18	15	54.5	36.457	N	137.661	E	10	G	4.4 4.2	1.1	20	HONSHU, JAPAN
	17	18	27	31.9*	16.744	N	98.529	W	72	*	3.7	1.5	12	NEAR COAST OF GUERRERO, MEXICO
	17	18	31	14.1%	44.313	N	7.236	E	10	G		0.1	5	NORTHERN ITALY. ML 1.8 (GEN).
	17	18	36	22.7	42.614	N	16.551	E	10	G		1.1	14	ADRIATIC SEA. ML 2.5 (TTG).
	17	18	42	12.3*	20.159	S	169.147	E	33	N	4.9	1.5	12	VANUATU ISLANDS
	17	18	48	36.7&	36.815	N	121.557	W	3				9	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
	17	18	54	06.3?	40.84	N	27.56	E	10	G		1.0	4	TURKEY
	17	18	58	07.7	51.987	N	169.549	W	33	N	4.9	1.0	89	FOX ISLANDS, ALEUTIAN ISLANDS
	17	19	40	53.0?	31.38	S	68.66	W	94	?		0.1	5	SAN JUAN PROVINCE, ARGENTINA
	17	19	55	09.0	40.120	N	19.846	E	10	G	3.4	1.4	39	ALBANIA. MD 3.2 (ATH).
	17	20	14	59.0*	36.416	N	137.787	E	10	G	4.1 4.1	1.1	5	HONSHU, JAPAN
	17	20	16	33.9	40.491	N	21.546	E	10	G		0.9	8	GREECE. ML 2.9 (SKO). MD 3.1 (ATH).
	17	20	31	08.7&	36.808	N	121.555	W	3				13	CENTRAL CALIFORNIA. <BRK>. ML 3.0 (BRK).
	17	21	10	48.3?	18.91	S	177.65	W	580	*	4.8	1.2	20	FIJI ISLANDS REGION
	17	22	24	48.1&	36.802	N	121.548	W	5				10	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).
	17	22	28	12.0&	36.943	N	121.595	W	3				10	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
	17	22	40	16.7?	46.81	S	10.91	W	10	G	4.7	1.3	7	SOUTH ATLANTIC RIDGE
	17	23	43	31.2%	39.234	N	29.108	E	5	G		1.2	12	TURKEY
	18	00	28	45.8	38.183	N	15.094	E	10	G		0.7	16	SICILY
	18	03	57	46.3	2.351	N	127.007	E	70	?	4.8	1.1	32	MOLUCCA PASSAGE
	18	04	47	12.8%	42.363	N	13.824	E	5	G		1.0	6	CENTRAL ITALY
	18	05	00	23.9*	14.129	S	166.418	E	33	N	4.6 3.8	1.2	22	VANUATU ISLANDS
	18	05	16	27.3	39.521	N	28.696	E	10	G		1.2	26	TURKEY. MD 3.8 (ATH).
	18	08	21	30.1	40.137	N	19.918	E	5	G		0.9	9	ALBANIA
	18	08	39	52.2?	42.71	N	8.96	E	10	G		0.6	6	CORSICA. ML 2.4 (LDG).
	18	08	44	14.1?	32.14	S	71.57	W	33	N		1.1	9	NEAR COAST OF CENTRAL CHILE
	18	08	48	48.1	50.272	N	129.889	W	10	G	4.6	1.1	61	VANCOUVER ISLAND REGION
	18	12	02	09.0?	33.19	S	72.12	W	33	N		1.3	12	OFF COAST OF CENTRAL CHILE
	18	12	05	30.8*	36.148	N	27.258	E	10	G		1.7	5	DODECANESE ISLANDS
	18	12	05	39.7*	38.048	N	22.247	E	10	G		1.6	8	GREECE. ML 2.9 (ATH).
a	18	12	21	58.0	5.516	S	149.432	E	142	G	5.9	1.0	252	NEW BRITAIN REGION. Depth from broadband displacement seismograms.
	18	12	23	28.8?	44.06	N	7.03	E	10	G		0.1	4	NORTHERN ITALY. ML 1.8 (GEN).
	18	12	28	50.2*	50.561	N	130.311	W	10	G		0.7	19	VANCOUVER ISLAND REGION. ML 3.4 (PGC).
	18	12	34	25.5	36.232	N	27.022	E	10	G	3.9	1.3	24	DODECANESE ISLANDS ML 4.2 (CSS), 4.1 (ATH).
	18	13	49	36.0*	28.827	S	67.324	W	213	?		1.1	17	LA RIOJA PROVINCE, ARGENTINA
	18	14	51	53.7*	35.976	N	27.160	E	5	G		1.4	6	DODECANESE ISLANDS. MD 3.4 (ATH).
	18	15	34	19.7?	50.48	N	173.66	W	33	N	4.0	1.3	12	ANDREANOF ISLANDS, ALEUTIAN IS.
	18	15	52	59.9&	33.510	N	116.450	W	9				27	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.1 (PAS). Felt (V) at Anza and La Quinta; (IV) at Alpine, Coachella, Idyllwild, Santa Ysabel and Warner Springs; (III) at Carlsbad, Cathedral City, Hemet, India, Mecca, North Palm Springs, Pala, Ramona, Santee and Thermal.
	18	15	54	55.5&	33.510	N	116.450	W	9				3	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
	18	16	00	56.4	42.084	N	15.689	E	10	G		0.8	8	ADRIATIC SEA
	18	16	23	13.4?	36.61	N	2.58	E	10	G		0.5	6	ALGERIA. mbLg 3.4 (MDD).
	18	17	08	31.9%	31.177	S	67.947	W	10	G		0.5	5	SAN JUAN PROVINCE, ARGENTINA
	18	18	12	47.2*	29.078	N	90.031	E	10	G	4.5	1.3	10	TIBET
	18	19	03	36.3	39.155	N	8.991	W	10	G		1.1	17	PORTUGAL. mbLg 3.6 (MDD).
	18	19	14	55.5%	10.925	N	62.145	W	85	G		0.2	7	NEAR COAST OF VENEZUELA. MD 2.9 (TRN).
	18	20	10	48.7	42.177	N	16.445	E	10	G	3.9	1.4	131	ADRIATIC SEA. ML 4.7 (ZAG), 4.4 (KBA), 4.4 (TTG), 4.2 (ROM).
	18	20	19	44.2*	33.507	N	116.371	W	10	G		0.7	5	SOUTHERN CALIFORNIA. ML 3.0 (PAS).
	18	21	43	36.4	39.378	N	28.238	E	10	G		1.0	13	TURKEY. MD 3.2 (ATH).
	18	21	47	27.4&	33.520	N	116.450	W	11				10	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	18	21	58	47.1*	38.265	N	22.253	E	33	N		0.7	5	GREECE. ML 2.8 (ATH).
	18	22	45	20.6	26.695	S	64.830	W	33	N		1.4	23	TUCUMAN PROVINCE, ARGENTINA. Felt in the San Miguel de Tucuman area.
	18	22	47	26.8?	18.06	S	117.88	E	33	N	4.3	1.2	13	NORTHWEST OF AUSTRALIA

	18	22	51	18.3*	51.535	S	159.765	E	10	G		1.1	11	NORTH OF MACQUARIE ISLAND
	18	23	12	12.7&	40.645	N	127.543	W	5		3.5		15	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.9 (BRK).
	18	23	45	57.4?	31.65	S	68.18	W	10	G		1.0	4	SAN JUAN PROVINCE, ARGENTINA
	18	23	46	52.3?	15.26	N	61.32	W	33	N		0.5	5	LEEWARD ISLANDS. ML 2.3 (FDF).
	19	00	51	12.9*	7.265	S	128.976	E	201	?	4.9	0.6	11	BANDA SEA
	19	01	27	24.7	39.180	N	23.430	E	10	G		1.4	7	AEGEAN SEA. ML 2.9 (ATH).
	19	01	58	56.6	43.030	N	17.832	E	10	G		1.5	25	YUGOSLAVIA. ML 3.0 (TTG), 2.8 (KBA).
	19	02	12	48.5%	32.120	S	69.601	W	33	N		1.1	6	MENDOZA PROVINCE, ARGENTINA
	19	04	18	17.6?	43.21	N	129.27	W	10	G		0.3	26	OFF COAST OF OREGON
	19	04	25	22.5	43.714	N	127.800	W	10	G	4.5	0.6	56	OFF COAST OF OREGON
	19	04	56	46.6	15.198	N	61.178	W	10	G		0.5	8	LEEWARD ISLANDS. ML 2.6 (FDF).
f	19	05	34	37.0	40.347	S	176.102	E	24	G	5.9 6.3	1.1	376	NORTH ISLAND, NEW ZEALAND. Ms 6.3 (BRK), 6.0 (PAS). ML 6.0 (WEL). Mo=1.8*10**18 Nm (PPT). Estimated 440,000 U.S. dollars domage in the Dannevirke-Palmerston North oreo; Moximum intensity VII. Some cracks in roads reported in the oreo. Felt from Hamiltan to Wellington, North Island ond ot Blenheim, South Island. Depth from broadband displacement seismograms.
	19	05	43	44.4	36.105	N	27.176	E	10	G	4.3	1.5	63	DODECANESE ISLANDS. ML 4.5 (CSS), 4.2 (ATH). MD 4.1 (HLW).
	19	06	05	11.8*	36.034	N	27.216	E	10	G		1.6	7	DODECANESE ISLANDS. MD 3.6 (ATH).
a	19	06	48	10.1	15.465	S	166.385	E	12	G	6.4 6.7	1.2	375	VANUATU ISLANDS. Ms 6.8 (BRK), 6.5 (PAS). Mo=2.0*10**19 Nm (PPT). Two events about 2 seconds apart. Depth from broadband displacement seismograms, based on second event.
	19	07	02	09.2%	38.969	N	27.096	E	10	G		0.4	6	TURKEY
	19	07	15	23.4%	38.939	N	27.060	E	10	G		0.7	6	TURKEY
	19	07	28	12.1*	15.748	S	166.280	E	33	N	4.6	1.4	29	VANUATU ISLANDS
	19	08	41	19.3*	50.354	N	129.997	W	10	G	4.0	1.7	17	VANCOUVER ISLAND REGION
	19	08	45	42.5*	32.516	S	71.919	W	10	G		1.0	9	NEAR COAST OF CENTRAL CHILE
	19	08	56	39.4*	15.677	S	166.295	E	30	D	4.6	1.2	33	VANUATU ISLANDS
	19	09	11	45.7*	50.331	N	129.949	W	10	G	4.3	1.6	15	VANCOUVER ISLAND REGION
	19	10	04	36.1*	16.903	S	166.037	E	33	N	4.6	0.4	5	VANUATU ISLANDS
	19	11	02	06.5	17.983	N	65.356	W	10	G	4.5	1.2	37	PUERTO RICO REGION. ML 4.7 (FDF). MD 4.5 (SJG). Felt on Vieques. Also felt on St. Thomas and St. Croix, Virgin Islands.
	19	11	27	15.5*	15.651	S	166.277	E	33	N	4.5	1.4	29	VANUATU ISLANDS
	19	11	28	29.3	39.001	N	122.916	W	10	G		0.7	13	NORTHERN CALIFORNIA. ML 2.5 (BRK).
	19	13	22	07.1*	16.648	N	96.283	W	77	*	4.2	1.4	11	OAXACA, MEXICO. Felt at Oaxaca.
	19	13	43	01.6*	15.696	S	166.352	E	31	D	4.5	1.5	17	VANUATU ISLANDS
	19	14	24	30.6?	37.96	N	4.42	W	10	G		0.6	4	SPAIN. mbLg 2.8 (MDD).
	19	16	39	56.5	6.652	S	129.322	E	215	*	5.3	1.2	57	BANDA SEA
	19	16	46	54.4*	16.534	S	174.926	W	168	D	5.1	1.3	87	TONGA ISLANDS
	19	17	24	30.8?	31.54	S	68.56	W	93	?		0.5	5	SAN JUAN PROVINCE, ARGENTINA
	19	17	43	51.7?	44.50	N	6.75	E	10	G		0.5	4	FRANCE. ML 1.6 (GEN).
	19	18	59	16.4	31.105	N	41.339	W	10	G	4.8	0.6	35	NORTH ATLANTIC RIDGE
	19	20	03	36.2?	31.28	S	68.60	W	88	?		0.6	5	SAN JUAN PROVINCE, ARGENTINA
	19	20	35	27.1*	15.922	N	147.334	E	33	N	4.3	1.0	20	MARIANA ISLANDS REGION
	19	20	56	37.3	36.124	N	27.164	E	10	G	4.4	1.5	81	DODECANESE ISLANDS. ML 4.6 (CSS), 4.2 (ATH). MD 4.4 (HLW).
	19	21	07	43.0	36.168	N	27.146	E	10	G	4.6	1.4	117	DODECANESE ISLANDS. ML 4.6 (CSS), 4.6 (ATH). MD 4.4 (HLW).
	19	21	23	56.1	36.169	N	27.172	E	10	G		0.8	8	DODECANESE ISLANDS. MD 3.7 (ATH).
	19	21	33	29.8?	16.49	S	178.22	W	457	*	4.8	1.2	21	FIJI ISLANDS REGION
	19	21	34	00.9%	36.182	N	27.182	E	10	G		1.3	6	DODECANESE ISLANDS. MD 3.2 (ATH).
	19	21	45	49.4	36.111	N	27.202	E	10	G		1.6	27	DODECANESE ISLANDS. ML 4.1 (CSS), 4.0 (ATH).
	19	22	04	03.6	36.216	N	27.116	E	10	G		1.3	19	DODECANESE ISLANDS. ML 3.9 (ATH), 3.8 (CSS).
	19	22	24	12.4	36.304	N	21.799	E	70	*	4.0	1.2	55	SOUTHERN GREECE
	19	22	51	44.6	43.415	N	5.436	E	10	G		0.7	15	NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).
	19	23	04	50.4?	31.20	S	68.35	W	94	?		0.6	5	SAN JUAN PROVINCE, ARGENTINA
	19	23	18	14.9	34.517	N	24.873	E	65	*	4.1	1.2	39	CRETE
	19	23	29	53.2?	16.28	N	99.56	W	10	G		1.4	7	NEAR COAST OF GUERRERO, MEXICO
	19	23	48	45.8	33.897	N	46.590	E	50		4.9	0.8	19	IRAN-IRAQ BORDER REGION. Felt at Islamabad, Iran.
	20	00	47	09.6*	29.288	N	142.434	E	33	N	4.6	0.8	12	SOUTH OF HONSHU, JAPAN
	20	01	34	07.9?	31.60	S	69.67	W	33	N		1.6	5	SAN JUAN PROVINCE, ARGENTINA
	20	03	20	51.0?	31.29	S	68.69	W	84	?		0.3	5	SAN JUAN PROVINCE, ARGENTINA
	20	04	37	35.5	45.885	N	11.107	E	10	G		1.2	10	NORTHERN ITALY. ML 2.5 (KBA).
	20	05	15	48.0*	37.068	N	112.104	E	10	G		1.6	9	NORTHEASTERN CHINA. ML 3.6 (BJI)
	20	05	55	03.7	32.592	N	44.204	E	33		4.6	1.0	70	IRAQ. Felt at Baghdad.
	20	06	47	40.5*	38.806	N	29.076	E	10	G		1.4	5	TURKEY
f	20	06	53	39.8	34.706	N	139.252	E	14	G	6.1 6.4	1.3	380	NEAR S. COAST OF HONSHU, JAPAN. Ms 6.4 (BRK), 6.4 (PAS). Mo=7.0*10**18 Nm (PPT). Felt (IV JMA) at Tokyo ond Yokohoma; (III JMA) at Chiba ond Kumagaya; (II JMA) at Kofu ond Nagaya. Depth from broadband displacement seismograms.
	20	07	16	30.0*	5.492	S	152.376	E	33	N	4.4	1.1	8	NEW BRITAIN REGION
	20	07	17	51.8	34.595	N	139.243	E	11	D	5.0	1.2	55	NEAR S. COAST OF HONSHU, JAPAN
	20	08	43	11.1	36.189	N	27.063	E	10	G	4.3	1.3	40	DODECANESE ISLANDS. ML 4.3 (ATH), 4.3 (CSS).
	20	08	44	11.6?	31.33	S	68.26	W	101	?		0.4	5	SAN JUAN PROVINCE, ARGENTINA
a	20	09	15	22.8	46.922	N	153.996	E	34	D	5.6 5.4	0.8	265	KURIL ISLANDS
	20	09	48	29.5*	34.546	N	139.212	E	10	G	4.2	1.3	14	NEAR S. COAST OF HONSHU, JAPAN
	20	10	39	57.2	18.175	N	94.705	E	44	D	4.9 4.8	1.2	69	BURMA
	20	11	07	54.1	0.832	N	127.250	E	212	D	5.1	1.1	48	HALMAHERA
	20	11	27	04.8	42.502	N	20.035	E	10	G		1.3	11	YUGOSLAVIA. ML 2.9 (TTG).
	20	11	44	20.9	44.024	N	16.749	E	10	G		1.4	40	YUGOSLAVIA. MD 3.8 (TRI). ML 3.7 (TTG), 3.6 (ZAG), 3.6 (KBA), 3.5 (VKA).
	20	11	55	00.5?	39.15	N	27.60	E	10	G		0.1	4	TURKEY
	20	12	59	43.9*	41.381	N	19.624	E	10	G		1.4	7	ALBANIA. MD 2.8 (ATH).
	20	13	01	11.8	41.274	N	19.778	E	10	G		1.2	26	ALBANIA. MD 3.4 (ATH). ML 3.0 (TTG).
	20	13	05	39.5%	34.884	N	110.473	E	33	N		1.3	6	EASTERN CHINA. ML 3.3 (BJI).
	20	13	06	52.3	41.286	N	19.804	E	10	G		1.5	12	ALBANIA. MD 3.1 (ATH).
	20	13	12	28.0	41.192	N	19.689	E	10	G		1.1	28	ALBANIA. MD 3.2 (ATH). ML 2.7 (TTG).
	20	14	09	22.0*	14.373	N	119.217	E	10	G	4.8	1.0	38	LUZON, PHILIPPINE ISLANDS

	20	14	18	56.6%	16.714	S	128.531	E	10	G			1.0	7	WESTERN AUSTRALIA
	20	14	56	59.7	47.870	N	16.030	E	10	G			1.5	14	AUSTRIA. ML 3.5 (K8A), 3.0 (FUR), 2.9 (VKA). Felt (V) at Puchberg.
	20	15	24	37.1*	4.362	S	151.139	E	315	?	4.2		0.4	11	NEW BRITAIN REGION
	20	15	40	02.9	36.412	N	137.717	E	10	G	4.1		1.3	10	HONSHU, JAPAN
	20	15	52	26.1	36.475	N	137.680	E	5	G	4.2		0.8	7	HONSHU, JAPAN
	20	15	56	44.6?	14.22	N	143.35	E	170	*	3.9		0.9	9	MARIANA ISLANDS REGION
	20	16	12	15.6&	63.147	N	150.655	W	123					43	CENTRAL ALASKA. <AGS-P>.
	20	16	15	42.1	36.465	N	137.692	E	10	G			0.8	8	HONSHU, JAPAN
	20	16	29	52.1*	15.371	N	92.099	W	33	N	4.8		1.0	9	MEXICO-GUATEMALA BORDER REGION
	20	16	31	32.1	41.202	N	19.710	E	10	G			1.4	28	AL8ANIA. MD 3.5 (ATH). ML 3.0 (TTG).
	20	16	36	25.2	40.709	N	20.774	E	10	G			1.0	6	GREECE-ALBANIA BORDER REGION. MD 2.9 (ATH).
	20	17	25	27.7	14.736	N	147.098	E	33	N	4.8		0.5	25	MARIANA ISLANDS REGION
	20	17	47	33.8%	31.629	S	67.595	W	33	N			1.1	6	SAN JUAN PROVINCE, ARGENTINA
	20	18	14	01.8*	36.132	N	27.170	E	10	G			1.0	5	DODECANESE ISLANDS. MD 3.3 (ATH).
a	20	18	17	56.2	21.559	S	170.437	E	161		5.3		1.0	87	LOYALTY ISLANDS REGION
	20	18	41	39.4	41.221	N	19.627	E	10	G			1.2	51	AL8ANIA. ML 4.1 (SKO). MD 3.8 (ATH). Felt (III) at Tirana.
a	20	18	48	04.0	25.413	S	116.169	W	10	G	5.3	5.5	1.1	70	EASTER ISLAND CORDILLERA
	20	18	53	05.1	31.229	S	68.620	W	114	*			0.9	19	SAN JUAN PROVINCE, ARGENTINA
	20	19	25	08.1*	37.213	N	29.996	E	10	G			0.3	5	TURKEY
	20	19	25	35.9*	5.454	S	129.564	E	196	*	4.8		0.9	9	8ANDA SEA
	20	19	33	44.3*	38.328	N	20.655	E	10	G			0.8	5	GREECE. MD 3.0 (ATH).
	20	19	46	41.8*	3.856	N	97.279	E	33	N	4.5		1.1	9	NORTHERN SUMATERA
	20	20	08	28.6?	31.29	S	68.46	W	98	?			0.7	5	SAN JUAN PROVINCE, ARGENTINA
	20	20	40	14.5?	33.88	S	72.35	W	33	N			1.1	16	OFF COAST OF CENTRAL CHILE
	20	21	43	07.8	42.953	N	13.935	E	10	G			1.0	25	CENTRAL ITALY. ML 3.0 (KBA).
	20	21	54	04.7*	34.491	S	179.208	E	33	N	4.7		0.6	8	SOUTH OF KERMADEC ISLANDS
	20	22	30	42.6?	41.83	N	12.80	E	10	G			0.4	4	SOUTHERN ITALY
	20	22	34	58.8?	41.91	N	12.77	E	10	G			0.0	4	SOUTHERN ITALY
	20	22	51	46.9*	40.735	N	20.805	E	10	G			1.3	6	GREECE-AL8ANIA BORDER REGION. MD 2.9 (ATH). ML 2.3 (SKO).
	20	22	56	01.9?	29.55	S	70.56	W	110	?			1.2	8	CENTRAL CHILE
	20	23	02	10.0?	31.54	S	67.78	W	10	G			0.8	5	SAN JUAN PROVINCE, ARGENTINA
	21	00	12	18.7%	44.546	N	6.865	E	10	G			0.5	6	FRANCE. ML 1.7 (GEN).
	21	00	24	45.8	36.034	N	27.215	E	61	*	3.8		1.4	52	DODECANESE ISLANDS. MD 4.2 (ATH).
	21	00	33	31.4&	38.365	N	118.913	W	14					12	CALIFORNIA-NEVADA 8ORDER REGION. <BRK>. ML 3.1 (BRK).
	21	01	16	37.1	52.641	N	168.237	W	33	N	4.8		1.1	75	FOX ISLANDS, ALEUTIAN ISLANDS
	21	03	19	50.4*	34.383	N	139.454	E	33	N	4.6		1.2	22	NEAR S. COAST OF HONSHU, JAPAN
	21	03	51	39.3*	38.355	N	118.900	W	10	G			0.6	5	CALIFORNIA-NEVADA BORDER REGION. ML 2.5 (NEIS).
	21	04	41	13.2	38.609	N	119.493	W	5	G			1.1	8	CALIFORNIA-NEVADA BORDER REGION. ML 2.8 (BRK).
	21	04	58	03.4*	45.855	N	151.627	E	33	N	4.6		0.4	10	KURIL ISLANDS
	21	05	06	11.6%	37.386	N	2.261	W	10	G			0.6	13	SPAIN. mbLg 3.3 (MDD). Felt (IV) at Fines and Partaloo; (III) at Albox and Olula del Rio.
	21	05	20	19.4&	61.280	N	150.674	W	49					24	SOUTHERN ALASKA. <AGS-P>.
	21	05	40	11.3?	11.52	S	112.20	E	33	N	4.3		1.0	7	SOUTH OF JAVA
	21	05	45	00.8%	43.119	N	0.618	W	10	G			0.2	6	PYRENEES. MD 1.0 (STR).
	21	07	21	17.3*	28.082	N	82.430	E	33	N	4.8		1.2	14	NEPAL. Felt in southwestern Nepal.
	21	08	13	06.1?	43.74	N	127.81	W	10	G	4.3		0.4	22	OFF COAST OF OREGON
	21	08	16	12.2?	11.13	N	61.52	W	33	N			0.6	4	WINDWARD ISLANDS. MD 2.4 (TRN).
	21	12	02	19.3	34.014	N	106.544	W	5	G			0.8	10	NEW MEXICO. ML 3.6 (NEIS). Felt.
	21	12	04	29.1	40.522	N	29.192	E	10	G			0.9	8	TURKEY
	21	12	33	34.6	50.433	N	5.942	E	10	G			0.9	19	BELGIUM. ML 2.3 (GSH), 2.8 (LDG), 2.3 (UCC).
	21	13	22	34.3*	26.273	S	27.268	E	5	G			1.2	6	REPUBLIC OF SOUTH AFRICA. mbLg 3.5 (BUL).
	21	13	22	35.6*	42.598	N	24.007	E	10	G			0.5	6	BULGARIA
	21	13	46	21.9	42.188	N	16.585	E	10	G			1.2	15	ADRIATIC SEA. ML 3.0 (TTG).
	21	14	10	46.8	29.253	N	142.220	E	42	D	4.7	3.9	0.9	39	SOUTH OF HONSHU, JAPAN
	21	14	15	45.7?	44.14	N	142.28	E	33	N	5.1		0.8	10	HOKKAIDO, JAPAN REGION
	21	15	24	31.5*	36.203	N	9.380	W	33	N			1.0	13	WEST OF GIBRALTAR. MD 3.1 (RBA).
a	21	18	20	14.5	16.903	N	62.326	W	110	G	5.9		0.9	473	LEEWARD ISLANDS. Felt (V) on Guadeloupe and (II) on Martinique. Felt on Antigua, Barbuda, Montserrat, Nevis, St. Kitts and St. Martin. Depth from broadband displacement seismograms.
	21	18	29	52.9?	19.94	S	177.51	W	637	?	4.8		0.4	10	FIJI ISLANDS REGION
	21	18	46	08.6?	31.93	S	69.84	W	33	N			1.0	4	SAN JUAN PROVINCE, ARGENTINA
	21	19	11	14.8?	37.13	N	16.35	E	10	G			0.8	5	IONIAN SEA
	21	19	29	26.2	8.320	S	119.984	E	192	*	4.5		0.9	16	FLORES ISLAND REGION
	21	19	37	51.8?	31.58	S	69.61	W	33	N			1.5	5	SAN JUAN PROVINCE, ARGENTINA
	21	20	13	34.9?	28.44	S	69.87	W	134	?			0.9	14	CHILE-ARGENTINA BORDER REGION
	21	20	34	48.0?	2.96	N	129.38	E	33	N	4.9		1.2	10	HALMAHERA
	21	20	39	53.1	52.102	N	174.369	E	33	N	4.9	4.4	1.0	144	NEAR ISLANDS, ALEUTIAN ISLANDS
	21	20	50	56.4*	16.327	N	99.079	W	37	*	4.1		1.4	16	NEAR COAST OF GUERRERO, MEXICO
	21	21	28	18.3*	16.773	N	61.988	W	10	G			0.4	7	LEEWARD ISLANDS. ML 2.8 (FDF).
	21	21	33	32.2?	0.18	N	80.20	W	58	?	4.8		0.9	12	NEAR COAST OF ECUADOR
	21	22	12	11.8&	53.790	N	166.568	W	18					8	FOX ISLANDS, ALEUTIAN ISLANDS. <PAL>.
	21	22	14	37.9	19.981	N	121.810	E	42	*	5.0		1.0	32	PHILIPPINE ISLANDS REGION
	21	22	31	59.6	15.069	N	119.199	E	33	N	4.7		1.0	33	LUZON, PHILIPPINE ISLANDS
	22	00	40	23.3?	14.86	N	60.81	W	33	N			0.1	4	WINDWARD ISLANDS. ML 2.2 (FDF).
	22	02	23	01.4*	31.902	S	67.306	W	10	G			1.0	7	SAN JUAN PROVINCE, ARGENTINA
	22	02	50	20.4*	31.694	S	72.704	W	10	G			0.7	16	OFF COAST OF CENTRAL CHILE
	22	03	26	22.3	16.108	N	122.453	E	42	*	4.7	4.3	0.9	35	LUZON, PHILIPPINE ISLANDS
	22	03	49	36.3?	29.81	S	68.64	W	10	G			0.8	6	SAN JUAN PROVINCE, ARGENTINA
	22	04	26	13.7*	16.082	N	122.542	E	33	N	4.4		1.3	15	LUZON, PHILIPPINE ISLANDS
	22	04	30	19.2*	16.093	N	122.584	E	33	N	4.3	4.0	0.8	15	LUZON, PHILIPPINE ISLANDS
	22	05	26	23.4	44.407	N	7.339	E	10	G			0.6	19	NORTHERN ITALY. ML 2.3 (GEN), 2.4 (STR), 2.4 (LDG).
	22	05	32	50.4&	33.190	N	115.560	W	1					6	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
	22	06	08	01.8*	9.597	S	109.906	E	33	N	4.3		0.2	6	SOUTH OF JAVA
	22	06	09	31.5&	62.975	N	151.148	W	125					23	CENTRAL ALASKA. <AGS-P>.
	22	06	33	50.9*	31.842	S	72.141	W	20				1.2	19	OFF COAST OF CENTRAL CHILE
	22	06	47	08.9?	14.66	N	97.52	W	33	N			0.4	5	OFF COAST OF OAXACA, MEXICO
	22	07	38	33.8?	31.58	S	68.30	W	87	?			0.0	5	SAN JUAN PROVINCE, ARGENTINA
	22	07	47	33.9	15.514	S	166.268	E	33	N	5.0	4.6	1.0	83	VANUATU ISLANDS
	22	08	27	25.4?	2.37	N	89.86	W	10	G	4.5	4.0	1.1	7	GALAPAGOS ISLANDS REGION

	22	08	39	18.0•	45.462	N	26.232	E	150	?			1.0	10	ROMANIA
	22	08	57	51.2?	14.52	N	97.70	W	33	N			1.6	5	OFF COAST OF OAXACA, MEXICO
	22	09	40	03.8•	31.790	S	72.244	W	33	N			0.6	16	OFF COAST OF CENTRAL CHILE
	22	10	58	11.5&	59.314	N	153.190	W	92					29	SOUTHERN ALASKA. <AGS-P>.
	22	11	05	04.8?	31.11	S	68.11	W	10	G			1.2	4	SAN JUAN PROVINCE, ARGENTINA
	22	11	47	32.9&	40.530	N	127.657	W	5	G	4.2			16	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.9 (BRK).
	22	12	51	43.9	5.659	N	94.231	E	57	D	5.0		1.1	48	NORTHERN SUMATERA
	22	12	56	29.2%	39.071	N	16.700	E	10	G			0.7	6	SOUTHERN ITALY
	22	13	02	24.6•	38.132	N	21.935	E	10	G			1.2	5	GREECE. MD 3.1 (ATH).
	22	13	11	57.8	21.872	S	179.365	W	600		5.2		0.9	151	FIJI ISLANDS REGION
	22	13	31	12.6?	16.02	N	122.41	E	55	?	4.5		1.3	7	LUZON, PHILIPPINE ISLANDS
	22	13	33	13.3	29.216	N	90.092	E	26	•	5.0	4.2	1.2	50	TIBET
	22	13	52	23.4&	37.120	N	121.515	W	5					12	CENTRAL CALIFORNIA. <BRK>. ML 2.7 (BRK).
	22	14	02	09.7?	34.38	S	69.94	W	33	N			0.4	7	CHILE-ARGENTINA BORDER REGION
	22	14	17	52.7?	10.51	S	166.11	E	225	•	4.6		0.7	15	SANTA CRUZ ISLANDS
	22	14	59	29.0?	30.38	S	71.34	W	155	?			0.6	12	NEAR COAST OF CENTRAL CHILE
	22	15	19	51.0•	15.738	N	147.268	E	33	N			0.7	10	MARIANA ISLANDS REGION
	22	16	03	43.8	36.102	N	27.372	E	10	G			1.5	6	DODECANESE ISLANDS. MD 3.4 (ATH).
	22	16	38	18.6?	30.56	S	68.84	W	33	N			0.4	5	SAN JUAN PROVINCE, ARGENTINA
	22	16	44	32.1	24.764	S	68.860	W	103	D	5.2		1.1	97	CHILE-ARGENTINA BORDER REGION
a	22	16	51	51.0	11.458	S	66.380	E	12	G	5.7	5.6	0.9	331	MID-INDIAN RISE. Complex event. Depth from broadband displacement seismograms.
	22	17	19	36.5	16.183	N	122.451	E	39	•	4.9		1.0	51	LUZON, PHILIPPINE ISLANDS
	22	17	48	19.3	40.714	N	23.615	E	10	G			1.4	13	GREECE. MD 3.0 (ATH).
	22	18	48	34.7&	59.854	N	152.568	W	84					46	SOUTHERN ALASKA. <AGS-P>.
o	22	18	59	45.1	11.654	N	86.622	W	32	D	5.1	5.2	1.2	141	NEAR COAST OF NICARAGUA. Felt in Nicaragua and in the Liberia area, Costa Rica.
	22	19	37	40.8	51.302	N	15.751	E	13				1.1	29	POLAND. ML 3.8 (KBA), 4.2 (VKA), 4.1 (GRF).
	22	22	00	57.9•	7.522	S	129.543	E	105	?	4.8		1.1	9	BANDA SEA
	22	22	03	05.1•	15.820	N	147.281	E	43	?	4.6		0.9	23	MARIANA ISLANDS REGION
	22	22	07	00.1•	24.946	N	93.104	E	52	•	5.1		1.3	18	BURMA-INDIA BORDER REGION
	22	22	20	45.5?	16.58	N	61.10	W	33	N			0.1	5	LEEWARD ISLANDS. ML 2.3 (FDF).
	22	22	37	11.3?	31.33	S	68.53	W	96	?			0.6	5	SAN JUAN PROVINCE, ARGENTINA
	22	22	59	20.7	35.331	N	23.142	E	5	G	4.2		1.0	40	CRETE. ML 3.8 (ATH).
	22	23	04	31.1?	38.99	N	112.96	E	33	N			1.0	4	NORTHEASTERN CHINA. ML 3.3 (BJI).
	22	23	42	17.8•	7.323	N	94.443	E	33	N	4.6		0.9	14	NICOBAR ISLANDS REGION
	22	23	51	19.3&	61.621	N	152.025	W	120					23	SOUTHERN ALASKA. <AGS-P>.
	23	00	12	35.5	38.045	N	29.041	E	10	G			1.5	8	TURKEY
	23	01	27	42.9	35.262	N	23.174	E	5	G	3.8		1.2	28	CRETE. ML 3.7 (ATH).
	23	01	28	53.4•	40.694	N	30.176	E	10	G			1.3	9	TURKEY
	23	04	22	40.9&	64.468	N	146.934	W	13					28	CENTRAL ALASKA. <AGS-P>.
	23	04	41	30.5&	60.390	N	147.696	W	4					54	SOUTHERN ALASKA. <AGS-P>. ML 3.2 (PMR).
	23	04	54	41.1	7.986	N	126.620	E	75	•	5.1		1.2	75	MINDANAO, PHILIPPINE ISLANDS
	23	04	54	49.4?	45.14	N	7.04	E	10	G			0.6	4	NORTHERN ITALY. ML 2.1 (GEN).
	23	04	57	03.9?	37.11	N	29.27	E	10	G			0.1	4	TURKEY
	23	04	58	14.7?	27.04	N	32.73	E	10	G			0.8	4	ARAB REPUBLIC OF EGYPT. MD 4.0 (HLW).
	23	05	44	03.0•	11.825	S	166.647	E	294	?	4.6		1.0	23	SANTA CRUZ ISLANDS
	23	05	53	45.6%	41.716	N	12.703	E	10	G			0.1	6	SOUTHERN ITALY
	23	07	00	49.2&	60.412	N	152.118	W	78					29	SOUTHERN ALASKA. <AGS-P>.
	23	07	03	43.0%	41.687	N	12.647	E	10	G			0.5	6	SOUTHERN ITALY
	23	07	11	54.2	37.101	N	29.243	E	10	G			1.4	6	TURKEY
	23	07	20	35.0%	35.480	N	23.499	E	10	G			1.3	7	CRETE. MD 3.7 (ATH).
	23	08	01	59.2?	51.58	N	16.17	E	10	G			0.6	8	POLAND. ML 3.6 (KBA).
	23	09	00	43.6?	39.14	N	27.58	E	10	G			1.0	4	TURKEY
	23	09	10	37.3&	60.205	N	153.224	W	145		3.8			62	SOUTHERN ALASKA. <AGS-P>.
	23	09	44	28.7?	36.05	N	51.59	E	10	G			0.2	5	IRAN
	23	10	43	48.3•	27.959	N	139.939	E	506	•	4.0		0.4	14	BONIN ISLANDS REGION
	23	10	50	59.3•	28.303	S	62.988	W	599	•	4.6		0.9	23	SANTIAGO DEL ESTERO PROV., ARG.
	23	11	40	38.8%	39.126	N	27.607	E	10	G			1.3	5	TURKEY
	23	11	56	08.6?	39.32	N	27.64	E	10	G			0.8	4	TURKEY
	23	12	08	47.3&	63.233	N	149.543	W	90					35	CENTRAL ALASKA. <AGS-P>.
	23	12	43	16.0?	32.83	S	150.69	E	10	G			0.8	4	NEW SOUTH WALES, AUSTRALIA. ML 3.0 (CNB), 2.4 (COO). Felt at Newcastle.
	23	13	22	32.4?	32.02	S	70.16	W	10	G			1.1	5	CHILE-ARGENTINA BORDER REGION
	23	14	25	18.3•	29.321	N	90.114	E	10	G	4.3		0.8	10	TIBET
	23	15	10	22.3?	1.18	S	78.28	W	10	G			0.1	4	ECUADOR
	23	15	13	19.3?	1.74	N	123 72	E	33	N	4.8		1.0	9	MINAHASSA PENINSULA
	23	15	22	23.0	37 191	N	22.880	E	10	G	3.8		1.0	19	SOUTHERN GREECE. MD 3.3 (ATH).
	23	15	23	05.9•	7.613	N	94.393	E	68	?	4.5		1.0	14	NICOBAR ISLANDS REGION
	23	15	40	16.4•	7.376	N	94.513	E	44	?	4.6		1.2	16	NICOBAR ISLANDS REGION
	23	15	46	09.9%	16.415	N	98.977	W	33	N			0.7	5	NEAR COAST OF GUERRERO, MEXICO
	23	16	51	19.8	37.557	N	21.252	E	33	N	4.0		1.2	34	SOUTHERN GREECE. MD 3.6 (ATH).
	23	16	59	37.8•	38.463	N	26.760	E	10	G			0.6	5	AEGEAN SEA
	23	17	22	26.0	43.415	N	5.429	E	10	G			0.8	14	NEAR SOUTH COAST OF FRANCE. MD 2.6 (STR).
	23	17	45	27.6	17.852	S	178.510	W	542	•	4.8		0.9	74	FIJI ISLANDS REGION
	23	17	51	58.6?	28.24	N	84.58	E	33	N			0.9	5	NEPAL
	23	18	24	14.9?	31.17	S	68.34	W	97	?			0.5	5	SAN JUAN PROVINCE, ARGENTINA
	23	19	02	18.7	48.557	N	128.442	W	10	G	4.7		1.2	62	VANCOUVER ISLAND REGION
	23	19	51	52.1	34.034	S	68.459	W	38	•			1.0	19	MENDOZA PROVINCE, ARGENTINA
	23	20	20	23.0%	39.544	N	29.001	E	10	G			0.3	5	TURKEY
	23	20	40	23.3	25.357	N	124.494	E	140		4.3		0.8	29	NORTHEAST OF TAIWAN
	23	21	29	06.1	8.455	S	158.824	E	122	•	4.9		0.9	26	SOLOMON ISLANDS
	23	21	35	24.7•	44.417	N	114.039	W	5	G			0.4	8	WESTERN IDAHO. ML 3.4 (BUT).
	23	22	40	12.7&	41.199	N	113.179	W	7					10	UTAH. <SLC-P>. ML 3.0 (SLC).
	23	22	59	13.3	34.436	N	25.286	E	54		4.5		1.2	123	CRETE. MD 4.5 (HLW).
	23	23	22	54.4	35.290	N	23.221	E	5	G	4.3		1.3	73	CRETE. ML 3.9 (ATH). MD 4.4 (HLW).
	23	23	55	27.5	36.101	N	27.179	E	32		4.2		1.4	36	DODECANESE ISLANDS. ML 4.0 (ATH), 4.3 (CSS).
	24	01	03	54.8	44.102	N	11.962	E	23				1.1	26	NORTHERN ITALY. ML 2.9 (KBA), 2.9 LDG).
	24	01	06	13.7?	43.95	N	11.99	E	10	G			0.5	4	CENTRAL ITALY
	24	02	32	44.0?	16.48	N	60.72	W	10	G			0.2	5	LEEWARD ISLANDS. ML 3.2 (FDF).
	24	05	06	07.9?	7.03	S	126.62	E	430	?	4.3		0.9	9	BANDA SEA
	24	05	27	29.2	43.370	N	12.363	E	48	•			0.9	53	CENTRAL ITALY
	24	05	54	25.6%	37.849	N	1.906	W	10	G			0.8	5	SPAIN. mbLg 2.6 (MDD).

	24	06	18	37.6*	35.328	N	23.205	E	10	G	4.4	1.2	11	CRETE
	24	06	34	51.3*	43.981	N	7.348	E	10	G		0.4	5	NEAR SOUTH COAST OF FRANCE. ML 1.4 (GEN).
	24	06	38	22.8%	39.895	N	15.759	E	10	G		0.3	7	SOUTHERN ITALY
	24	08	16	01.4?	29.03	S	178.26	W	33	N	4.3	0.6	8	KERMADEC ISLANDS. Felt on Raoul Island.
	24	08	23	53.9%	35.508	N	23.570	E	10	G		1.2	5	CRETE. MD 3.5 (ATH).
	24	09	02	15.6*	20.243	S	69.592	W	33	N		0.8	5	NORTHERN CHILE
	24	09	39	58.2%	35.764	N	23.746	E	10	G		1.4	7	CRETE. MD 3.5 (ATH).
	24	09	40	43.1	50.413	N	5.964	E	10	G		1.1	23	BELGIUM. ML 2.4 (GSH), 3.0 (LDG).
	24	09	41	55.3	31.764	S	68.751	W	12		4.1	0.9	16	SAN JUAN PROVINCE, ARGENTINA
	24	10	42	49.8?	39.12	N	27.64	E	10	G		1.1	4	TURKEY
	24	11	39	44.4*	35.517	N	25.200	E	33	N		1.4	6	CRETE. MD 3.9 (ATH).
	24	11	39	48.4&	59.289	N	151.893	W	57				21	KENAI PENINSULA, ALASKA. <AGS-P>.
	24	14	10	23.6*	38.014	N	28.967	E	10	G		1.3	8	TURKEY
	24	14	35	15.4	39.166	N	27.645	E	10	G		0.4	8	TURKEY
	24	15	14	29.1?	30.84	S	72.21	W	33	N		0.2	6	OFF COAST OF CENTRAL CHILE
	24	15	19	36.8	35.310	N	23.170	E	10	G	4.5	1.5	21	CRETE. MD 3.9 (ATH).
	24	15	52	19.4%	42.299	N	13.666	E	10	G		1.2	6	CENTRAL ITALY
	24	15	54	50.2?	22.99	S	178.32	W	421	?	4.7	1.1	23	SOUTH OF FIJI ISLANDS
	24	16	02	02.7	12.469	S	166.862	E	295	?	4.7	1.2	42	SANTA CRUZ ISLANDS
	24	16	05	49.8&	60.652	N	150.357	W	44				24	KENAI PENINSULA, ALASKA. <AGS-P>.
	24	16	24	59.6?	39.11	N	27.44	E	10	G		0.5	4	TURKEY
	24	16	38	58.7*	11.753	N	87.342	W	10	G	4.8	0.4	13	NEAR COAST OF NICARAGUA
	24	18	32	53.4?	26.31	S	177.21	W	178	?	4.7	0.6	14	SOUTH OF FIJI ISLANDS
	24	18	43	51.4	15.047	S	167.282	E	135	*	5.3	0.9	122	VANUATU ISLANDS
a	24	19	13	14.8	15.523	S	175.236	W	33	N	5.7 6.0	1.1	161	TONGA ISLANDS. Ms 5.9 (BRK). Mo=1.6*10**18 Nm (PPT).
	24	19	30	57.7%	44.386	N	11.099	E	10	G		1.1	5	NORTHERN ITALY
	24	19	55	30.5?	13.83	N	90.97	W	33	N		0.3	6	NEAR COAST OF GUATEMALA
	24	20	44	05.5&	58.616	N	153.999	W	81				14	KODIAK ISLAND REGION. <AGS-P>.
	24	21	29	41.1?	39.60	N	16.16	E	10	G		0.2	4	SOUTHERN ITALY
	24	22	00	27.5*	5.208	S	151.404	E	125	*	4.3	1.0	13	NEW BRITAIN REGION
	24	23	04	18.5%	46.560	N	0.566	E	10	G		1.5	15	FRANCE. ML 2.7 (LDG).
	25	00	51	51.0?	31.26	S	68.61	W	90	?		0.5	5	SAN JUAN PROVINCE, ARGENTINA
	25	01	04	49.8?	31.46	S	68.88	W	82	?		0.1	5	SAN JUAN PROVINCE, ARGENTINA
	25	01	30	46.6%	46.359	N	0.999	W	10	G		1.1	12	FRANCE. ML 2.9 (LDG).
	25	01	41	41.6	36.232	N	27.231	E	10	G		1.0	7	DODECANESE ISLANDS. MD 3.4 (ATH).
	25	01	43	38.8&	58.556	N	142.773	W	10	G	5.1		124	GULF OF ALASKA. <AGS-P>.
	25	01	45	44.0	39.514	N	28.311	E	13			0.7	8	TURKEY
	25	02	49	51.2*	35.102	N	26.205	E	10	G		1.3	9	CRETE. MD 3.7 (ATH).
	25	02	54	41.9?	45.90	N	3.22	E	10	G		0.7	4	FRANCE
	25	03	00	35.3?	29.52	S	178.25	W	75	?	4.7	1.4	9	KERMADEC ISLANDS
o	25	03	08	15.8	10.553	S	165.190	E	25	D	5.4 5.1	1.0	59	SANTA CRUZ ISLANDS
	25	04	39	23.0?	11.15	S	163.05	E	33	N	4.5 4.5	1.5	9	SOLOMON ISLANDS
	25	05	05	24.5	36.125	N	27.241	E	22		3.9	1.2	16	DODECANESE ISLANDS. ML 4.0 (CSS).
	25	05	10	37.3?	9.27	N	123.57	E	84	*	4.1	1.0	7	NEGROS, PHILIPPINE ISLANDS
	25	05	21	39.3	41.954	N	21.499	E	10	G		1.4	13	YUGOSLAVIA. ML 3.4 (SKO), 2.9 (TTG). Felt (V) at Skopje.
	25	05	53	13.3*	44.467	N	149.285	E	33	N	4.7	0.8	20	KURIL ISLANDS
	25	06	25	46.4	38.237	N	21.886	E	10	G		1.2	16	GREECE. MD 3.4 (ATH).
	25	06	37	32.3?	15.59	N	97.43	W	67	?	4.6	0.8	8	NEAR COAST OF OAXACA, MEXICO
	25	07	04	32.3	36.069	N	70.894	E	80	*	4.6	1.4	28	HINDU KUSH REGION
	25	08	01	53.6	24.057	S	66.954	W	209	*	4.4	0.9	14	SALTA PROVINCE, ARGENTINA
	25	08	04	58.0&	37.090	N	121.865	W	6				17	CENTRAL CALIFORNIA. <BRK>. ML 3.1 (BRK). Felt in the Sonto Cruz Mountains.
	25	08	11	26.0&	62.945	N	150.940	W	114				39	CENTRAL ALASKA. <AGS-P>.
	25	08	47	53.7*	36.567	N	70.472	E	33	N	3.8	0.6	7	HINDU KUSH REGION
	25	08	58	43.0?	39.13	N	27.55	E	10	G		0.3	4	TURKEY
	25	09	05	10.7?	17.81	S	178.91	W	628	?	4.9	0.7	12	FIJI ISLANDS REGION
	25	09	45	42.8?	2.47	N	128.25	E	33	N	4.0	0.4	6	HALMAHERA
	25	10	00	23.4%	59.662	N	6.249	E	10	G		0.9	11	SOUTHERN NORWAY. MD 3.0 (BER). Felt (IV) in Rogoland and Hordaland Counties.
	25	10	28	23.8&	62.609	N	149.775	W	68				40	CENTRAL ALASKA. <AGS-P>.
	25	10	30	42.1*	42.345	N	142.452	E	33	N	4.6	0.9	9	HOKKAIDO, JAPAN REGION
	25	11	25	54.7*	18.058	S	167.624	E	10	G	4.6 3.8	0.9	13	VANUATU ISLANDS
	25	11	57	25.7	0.316	S	124.490	E	113	?	4.6	0.9	22	MOLUCCA SEA
	25	12	02	46.2	38.139	N	21.990	E	10	G		1.1	6	GREECE. MD 3.1 (ATH).
	25	12	08	07.7*	31.952	S	179.573	W	316	?	4.1	1.1	26	KERMADEC ISLANDS REGION
	25	12	49	44.8	38.134	N	28.902	E	21	*		1.0	7	TURKEY
	25	12	57	05.7	23.367	N	121.785	E	48		4.1	1.1	28	TAIWAN
	25	13	29	11.0*	41.602	N	74.843	E	33	N	4.2	1.2	6	KIRGHIZ SSR
	25	13	37	32.0?	28.70	S	176.54	W	60	G	4.7	1.3	9	KERMADEC ISLANDS REGION
	25	13	41	33.5?	40.67	N	29.85	E	10	G		1.0	4	TURKEY
	25	14	12	01.2?	31.41	S	68.70	W	81	?		0.1	5	SAN JUAN PROVINCE. ARGENTINA
	25	14	35	17.2	39.491	N	28.269	E	10	G		1.4	10	TURKEY
	25	14	36	16.4	36.903	N	71.309	E	103	D	4.8	1.1	61	AFGHANISTAN-USSR BORDER REGION. Felt (III) at Khorog, USSR.
o	25	14	57	39.6	20.011	S	177.843	W	572		4.8	1.1	102	FIJI ISLANDS REGION
	25	18	58	01.1	43.644	N	127.508	W	10	G	4.0	1.1	53	OFF COAST OF OREGON
	25	19	17	11.2	35.775	N	27.289	E	10	G		0.4	6	DODECANESE ISLANDS. MD 3.4 (ATH).
	25	20	52	11.4	36.179	N	27.107	E	10	G		1.1	7	DODECANESE ISLANDS. MD 3.4 (ATH).
	25	21	40	23.1*	5.195	S	151.175	E	33	*	4.6 3.5	1.0	15	NEW BRITAIN REGION
	25	21	53	10.8*	25.332	S	70.855	W	75	?		0.8	8	NEAR COAST OF NORTHERN CHILE
	25	22	05	42.7	36.209	N	27.192	E	10	G		1.5	9	DODECANESE ISLANDS. MD 3.8 (ATH).
	25	22	21	03.7?	47.42	N	12.37	E	10	G		0.6	4	AUSTRIA. ML 1.9 (KBA).
	25	22	23	28.9*	32.008	S	69.723	W	138	?		0.4	10	MENDOZA PROVINCE, ARGENTINA
	25	22	36	50.0?	44.51	N	7.28	E	10	G		0.2	4	NORTHERN ITALY. ML 1.7 (GEN).
a	25	22	51	09.1	18.042	S	69.135	W	141	D	5.5	1.1	247	NORTHERN CHILE
	25	23	16	04.7	20.740	S	176.296	W	238	*	4.9	1.1	39	FIJI ISLANDS REGION
	25	23	51	36.9?	5.32	S	151.52	E	55	?	4.2	0.5	6	NEW BRITAIN REGION
	26	00	31	24.1*	25.336	N	142.367	E	33	N	4.9	0.7	12	VOLCANO ISLANDS REGION
	26	01	31	24.5*	25.262	N	94.140	E	50	?	4.8	1.2	12	BURMA-INDIA BORDER REGION
	26	02	42	10.5	39.055	N	21.843	E	10	G		1.4	11	GREECE. MD 3.2 (ATH).
	26	03	11	59.8%	38.597	N	14.390	E	17			0.9	19	SICILY
	26	06	00	44.5	37.164	N	30.211	E	111	*		0.9	20	TURKEY MD 4.3 (HLW).

	26	06	20	13.4	23.030	N	94.011	E	90	*	5.0	0.6	12	BURMA-INDIA BORDER REGION
	26	07	34	46.8?	49.47	S	108.81	E	10	G	4.9	0.4	10	SOUTHEAST INDIAN RISE
	26	08	07	10.0	42.140	N	19.525	E	15	*		0.7	14	YUGOSLAVIA. ML 2.5 (TTG).
	26	08	28	49.9	40.050	N	21.954	E	10	G		0.9	9	GREECE. MD 3.4 (ATH).
	26	08	34	13.8	14.351	N	146.939	E	49	D	5.1	0.9	19	MARIANA ISLANDS
	26	08	45	00.7*	3.677	S	140.285	E	33	N	4.0 3.6	1.0	10	WEST IRIAN
	26	10	16	09.9%	18.134	N	65.888	W	10	G		0.2	5	PUERTO RICO REGION
	26	11	39	41.1&	58.485	N	143.399	W	10	G			41	GULF OF ALASKA. <AGS-P>. ML 4.0 (PMR).
	26	12	10	55.4*	34.487	N	27.049	E	10	G		1.5	8	EASTERN MEDITERRANEAN SEA. MD 3.8 (ATH).
	26	12	14	33.6*	4.526	S	143.671	E	33	N	4.0	0.8	9	PAPUA NEW GUINEA
	26	12	44	16.2%	39.126	N	27.548	E	10	G		0.5	5	TURKEY
	26	13	18	29.1*	31.434	S	69.094	W	130	*		1.3	15	SAN JUAN PROVINCE, ARGENTINA
	26	14	06	48.4	47.460	N	12.002	E	10	G		1.1	6	AUSTRIA. ML 3.2 (FUR), 2.6 (KBA).
	26	15	01	19.7?	44.40	N	7.43	E	10	G		0.0	4	NORTHERN ITALY. ML 1.5 (GEN).
	26	15	16	41.8&	37.445	N	118.735	W	15				19	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.8 (BRK). Felt at Friant and Northfork, Californio.
	26	16	19	28.4*	36.093	N	122.498	E	33	N		1.4	10	EASTERN CHINA. ML 4.3 (BJI).
	26	16	28	11.5	40.713	N	34.192	E	10	G		0.4	7	TURKEY
	26	17	19	44.9	39.672	N	16.806	E	10	G		1.0	15	SOUTHERN ITALY
	26	17	46	58.6	36.172	N	120.220	W	10	G		0.7	11	CENTRAL CALIFORNIA. ML 2.6 (BRK).
	26	18	13	59.8	9.577	S	149.798	E	33	N	5.2 3.9	1.0	43	EAST PAPUA NEW GUINEA REGION
	26	18	21	26.2	29.845	N	67.526	E	17	*	5.4 5.2	0.9	72	PAKISTAN
	26	18	28	29.7?	31.19	S	68.52	W	87	?		0.4	5	SAN JUAN PROVINCE, ARGENTINA
a	26	18	29	11.3	26.682	S	114.763	W	10	G	5.2 5.2	0.8	76	EASTER ISLAND REGION
	26	18	59	10.3	38.541	N	26.878	E	10	G		1.0	27	AEGEAN SEA. MD 3.8 (ATH).
a	26	19	06	36.4	26.651	S	114.726	W	14	G	5.6 6.1	1.1	197	EASTER ISLAND REGION. Ms 6.1 (BRK). Mo=3.0*10**18 Nm (PPT). Depth from broadband displacement seismograms.
	26	19	31	00.5	37.106	N	29.281	E	10	G		1.0	8	TURKEY
	26	19	45	40.5&	37.255	N	121.668	W	6				14	CENTRAL CALIFORNIA. <BRK>. ML 3.1 (BRK). Felt in the San Felipe Valley.
	26	20	30	14.4	57.450	N	7.064	E	10	G		0.8	16	NORTH SEA. ML 4.0 (NAO). Felt.
	26	21	10	38.9	44.636	N	111.062	W	5	G		0.4	9	HEBGEN LAKE REGION. ML 3.2 (BUT). Largest of 15 events with magnitudes of 2.4 or greater over the past 20 hours (BUT).
	26	21	28	53.2?	42.29	N	22.65	E	10	G		0.7	4	BULGARIA. ML 2.7 (SKO).
	26	21	49	43.5*	11.712	S	117.348	E	33	N	4.6	1.5	7	SOUTH OF SUMBAWA ISLAND
	26	21	54	26.4*	40.319	N	63.747	E	33	N	4.4	0.7	8	UZBEK SSR. Felt (III) at Gazli.
	26	22	10	47.0	44.629	N	111.070	W	5	G		0.4	9	HEBGEN LAKE REGION. ML 3.0 (BUT).
	26	22	59	33.7*	56.180	N	160.409	E	33	N	4.3	0.3	6	KAMCHATKA
	27	00	01	49.3	38.911	N	24.819	E	10	G		1.0	11	AEGEAN SEA. ML 3.1 (ATH).
	27	00	18	06.2?	31.21	S	68.38	W	102	?		0.5	5	SAN JUAN PROVINCE, ARGENTINA
	27	01	39	34.0*	4.650	S	136.756	E	33	N	4.4	1.5	8	WEST IRIAN REGION
	27	02	57	13.7?	42.92	N	12.85	E	10	G		0.7	4	CENTRAL ITALY
	27	03	11	59.6%	42.924	N	12.901	E	10	G		0.8	5	CENTRAL ITALY
	27	03	26	10.6	36.457	N	71.448	E	126	*	4.9	1.2	63	AFGHANISTAN-USSR BORDER REGION. Felt (III) at Ishkashim and Khorog, USSR.
	27	04	18	19.6&	60.205	N	153.044	W	134				23	SOUTHERN ALASKA. <AGS-P>.
	27	04	37	42.6?	31.80	S	69.77	W	33	N		0.7	5	SAN JUAN PROVINCE, ARGENTINA
	27	05	20	18.7*	4.373	N	94.741	E	33	N	3.9	1.4	6	OFF W COAST OF NORTHERN SUMATERA
	27	05	41	12.7?	3.24	S	141.23	E	62	?	3.6	0.5	7	PAPUA NEW GUINEA
	27	06	34	46.7?	17.93	N	65.74	W	10	G		1.0	4	PUERTO RICO REGION
	27	08	00	53.8%	40.706	N	27.399	E	10	G		0.7	9	TURKEY
	27	08	28	25.7*	4.382	S	153.775	E	180		4.9	0.8	18	NEW IRELAND REGION
	27	09	15	26.2	38.060	N	21.821	E	10	G		1.1	6	GREECE. ML 3.1 (ATH).
	27	09	27	37.6&	55.857	N	161.526	W	197				4	ALASKA PENINSULA. <PAL>.
a	27	09	28	54.1	17.159	S	64.141	W	601		5.4	1.1	282	BOLIVIA
	27	10	04	33.0*	31.357	N	86.870	E	33	N	4.1	1.5	15	TIBET
	27	10	14	50.4?	61.12	N	2.48	E	10	G		0.3	7	NORWEGIAN SEA
	27	11	24	37.3	38.130	N	22.080	E	10	G		1.5	10	GREECE. ML 3.1 (ATH).
	27	12	33	03.1	51.296	N	175.276	W	33	N	4.9	0.8	31	ANDREANOF ISLANDS, ALEUTIAN IS.
	27	13	16	12.5%	40.443	N	15.289	E	10	G		0.9	5	SOUTHERN ITALY
	27	13	16	14.3?	8.64	S	126.67	E	188	?	4.5	0.0	5	TIMOR
	27	13	23	22.0&	33.953	N	106.588	W	5	G			27	NEW MEXICO. <SNM>. MD 3.9 (SNM). Felt (IV) at Socorro and (III) at San Antonio.
	27	13	27	08.5%	40.766	N	27.729	E	10	G		0.2	5	TURKEY
	27	13	55	43.8?	17.73	N	65.51	W	10	G		0.2	4	PUERTO RICO REGION
	27	14	19	30.2*	10.291	N	126.970	E	33	N	4.8	1.3	25	PHILIPPINE ISLANDS REGION
	27	14	31	25.4%	33.949	S	71.182	W	33	N		0.1	5	NEAR COAST OF CENTRAL CHILE
	27	14	54	08.0?	8.34	S	130.24	E	136	?	4.7	1.0	14	TANIMBAR ISLANDS REGION
	27	15	55	38.2	9.823	N	124.803	E	33	N	5.0 4.3	1.1	51	MINDANAO, PHILIPPINE ISLANDS
	27	16	17	09.9	26.872	S	26.736	E	5	G	4.6	0.9	8	REPUBLIC OF SOUTH AFRICA
	27	16	47	27.6	36.043	N	27.092	E	10	G		1.2	5	DODECANESE ISLANDS
	27	18	13	06.9*	61.703	N	151.636	W	100	?		0.4	8	SOUTHERN ALASKA
	27	19	51	05.3?	36.10	N	27.20	E	10	G		0.4	4	DODECANESE ISLANDS
	27	20	15	35.6	1.799	S	129.102	E	33	N	5.0 4.3	1.1	34	HALMAHERA
	27	21	49	56.0	52.013	N	166.897	W	33	N	5.3 4.5	1.1	155	FOX ISLANDS, ALEUTIAN ISLANDS
	27	23	15	19.4*	31.949	S	68.205	W	112	?		0.3	7	SAN JUAN PROVINCE, ARGENTINA
	27	23	35	20.0?	36.08	N	27.13	E	10	G		0.2	4	DODECANESE ISLANDS
	28	02	00	01.2?	31.03	S	68.96	W	33	N		1.2	4	SAN JUAN PROVINCE, ARGENTINA
	28	02	01	45.7	21.257	S	68.743	W	138	*	4.9	1.0	16	CHILE-BOLIVIA BORDER REGION
	28	02	19	24.0	40.303	N	22.043	E	5	G		1.0	9	GREECE. MD 3.5 (ATH).
	28	04	00	46.2?	2.54	S	129.10	E	33	N	3.9	0.6	7	CERAM
	28	04	21	53.4&	62.563	N	152.548	W	138				40	CENTRAL ALASKA. <AGS-P>.
	28	04	57	15.8?	31.34	S	68.65	W	100	G		0.1	4	SAN JUAN PROVINCE, ARGENTINA
	28	07	19	25.3?	30.91	S	67.44	W	10	G		1.3	4	SAN JUAN PROVINCE, ARGENTINA
	28	07	49	13.0?	33.11	S	72.39	W	139	*		1.6	11	OFF COAST OF CENTRAL CHILE
	28	10	53	46.1	40.256	N	29.585	E	10	G		1.5	7	TURKEY
	28	11	56	37.7	43.054	N	13.783	E	10	G		1.4	9	CENTRAL ITALY. ML 2.7 (KBA).
	28	12	15	55.6	43.067	N	13.699	E	10	G		1.4	28	CENTRAL ITALY. ML 3.2 (ROM), 3.4 (KBA). MD 3.8 (TRI).
	28	12	21	46.9	6.791	N	123.727	E	607	*	4.6	0.8	36	MINDANAO, PHILIPPINE ISLANDS
	28	13	07	00.8&	37.560	N	118.455	W	5				14	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.1 (BRK).
	28	13	21	05.8?	40.60	N	27.80	E	10	G		1.1	5	TURKEY
	28	13	22	27.7	15.638	N	60.764	W	32			0.6	14	LEEWARD ISLANDS. ML 2.9 (FDF).

	28	13 23 42.1	42.990 N	1.016 W	29			1.0	69	PYRENEES. ML 4.2 (LDG). mbLg 3.9 (MDD). Felt (V) at Ochagavia; (IV) at Navascues and Isaba, Spain. Felt (V) at Larrau and in the Basque and Bearn districts, France.
	28	14 15 28.7	33.188 S	69.550 W	28	3.8		1.2	15	CHILE-ARGENTINA BORDER REGION
	28	15 18 33.5	44.057 N	11.423 E	10 G			0.7	7	NORTHERN ITALY. ML 2.3 (KBA).
	28	15 21 55.3	50.680 N	16.650 E	10 G			0.8	6	POLAND. ML 3.4 (KBA), 3.7 (VKA).
	28	16 07 01.8%	44.426 N	6.453 E	10 G			0.4	6	FRANCE
	28	16 10 22.6	8.990 N	126.636 E	57 *	5.2	4.2	1.1	74	MINDANAO, PHILIPPINE ISLANDS
	28	16 43 51.1?	31.37 S	68.71 W	85 ?			0.2	5	SAN JUAN PROVINCE, ARGENTINA
	28	17 29 25.4%	31.156 S	67.959 W	10 G			0.2	5	SAN JUAN PROVINCE, ARGENTINA
	28	17 41 09.5&	31.660 N	115.910 W	6 G				5	BAJA CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
a	28	18 01 22.6	15.482 S	166.313 E	10 G	5.1	4.6	1.0	90	VANUATU ISLANDS
	28	18 55 09.9*	17.039 N	95.886 E	33 N			0.1	5	BURMA
	28	19 33 48.1*	34.788 N	26.028 E	5 G			0.7	5	CRETE
	28	20 05 31.7	13.969 S	34.107 E	33 N	5.1	4.1	0.9	44	MALAWI
	28	20 37 24.1&	34.140 N	117.700 W	6				20	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS). Foreshock.
	28	20 54 22.3*	13.645 S	33.934 E	33 N	4.7		1.5	13	MALAWI
	28	21 13 32.1	2.710 N	79.765 W	13	4.8	3.8	1.1	36	SOUTH OF PANAMA
	28	21 37 24.7*	21.711 N	143.052 E	303 ?	4.1		0.6	10	MARIANA ISLANDS REGION
	28	21 55 57.6?	38.93 N	20.39 E	10 G			1.1	6	GREECE
	28	22 11 45.3?	15.35 N	94.17 W	33 N			0.9	5	NEAR COAST OF OAXACA, MEXICO
	28	22 18 21.6	13.852 S	34.063 E	33 N	4.9	3.8	1.2	32	MALAWI. mbLg 4.4 (BUL).
	28	23 20 35.6?	15.87 N	60.41 W	24 *			0.4	6	LEEWARD ISLANDS. ML 2.6 (FDF).
	28	23 38 52.4*	6.363 S	153.866 E	63 *	4.2		0.7	12	NEW BRITAIN REGION
a	28	23 43 36.6&	34.140 N	117.700 W	5	5.5	5.5		191	SOUTHERN CALIFORNIA. <PAS-P>. ML 5.2 (PAS), 6.2 (BRK). Thirty people received minor injuries and damage was estimated to be at least 12.7 million dollars. Some damage (VII) at Claremont, Covina, La Verne, Montclair, Mount Baldy, Ontario, Pomona, San Dimas, Upland and Walnut. Slight damage (VI) at Arcadia, Azusa, China, Colton, Compton, Glendora, Lincoln Heights, Lytle Creek, Pico Rivera and West Covina. Felt from Santa Barbara to Ensenada, Mexico and northeast as far as Las Vegas, Nevada.
	28	23 46 54.1&	34.130 N	117.720 W	6 G				1	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).

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 11 16 24.04 7.912N 126.909E 63km
4.9mb (15 obs.)
MINDANAO, PHILIPPINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 16C
Centroid Location:
Origin Time 11:16:21.4 1.3
Lat 7.57N 0.16 Lon 126.94E 0.22
Dep 27.414.3 Half-duration 1.3
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	4.25	58	259
N	-0.92	14	13
P	-3.33	28	111

Best Double Couple:Mo=3.8*10**16
NP1:Strike=234 Dip=21 Slip= 133
NP2: 9 74 75

01 18 33 53.86 8.247N 126.712E 61km
5.3mb (31 obs.)
MINDANAO, PHILIPPINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 22C
Centroid Location:
Origin Time 18:33:53.5 0.4
Lat 8.06N 0.07 Lon 127.18E 0.08
Dep 16.7 3.4 Half-duration 2.1
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	1.87	71	226
N	-0.08	15	7
P	-1.79	11	100

Best Double Couple:Mo=1.8*10**17
NP1:Strike=208 Dip=36 Slip= 116
NP2: 357 58 72

02 14 49 09.48 18.407S 176.924E 10km
5.6mb (31 obs.) 5.7Msz (18 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 38C
Centroid Location:
Origin Time 14:49:17.6 0.5
Lat 18.46S 0.03 Lon 176.70E 0.04
Dep 15.0 FIX Half-duration 4.0
Principal Axes:
Scale 10**18 Nm

	Val=	Plg=	Azm=
T	1.34	1	277
N	-0.01	83	181
P	-1.32	7	7

Best Double Couple:Mo=1.3*10**18
NP1:Strike= 52 Dip=85 Slip= -4
NP2: 142 86 -174

02 18 34 46.20 18.073S 178.307W 576km
5.3mb (41 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 33C
Centroid Location:
Origin Time 18:34:57.0 0.5
Lat 17.64S 0.04 Lon 178.91W 0.04
Dep 589.9 2.3 Half-duration 2.8
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	4.73	9	15
N	0.71	23	109
P	-5.43	65	266

Best Double Couple:Mo=5.1*10**17
NP1:Strike= 80 Dip=42 Slip=-126
NP2: 304 58 -62

02 18 53 40.35 5.294S 151.099E 44km
5.7mb (31 obs.) 5.5Msz (10 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 33C
Centroid Location:
Origin Time 18:53:43.3 0.4
Lat 5.18S 0.03 Lon 151.06E 0.04
Dep 42.9 4.3 Half-duration 3.0
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	5.76	6	149
N	0.82	82	286
P	-6.58	5	59

Best Double Couple:Mo=6.2*10**17
NP1:Strike=194 Dip=82 Slip= 180
NP2: 284 90 8

03 04 43 42.95 3.065S 126.361E 85km
5.1mb (11 obs.)
BURU
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 21C
Centroid Location:
Origin Time 04:43:39.7 1.1
Lat 2.36S 0.10 Lon 126.03E 0.16
Dep 34.6 9.5 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	6.19	40	278
N	-0.12	50	101
P	-6.07	2	9

Best Double Couple:Mo=6.1*10**16
NP1:Strike= 61 Dip=62 Slip= 29
NP2: 316 64 148

03 09 54 55.63 51.125N 130.238W 10km
5.2mb (22 obs.) 5.4Msz (15 obs.)
QUEEN CHARLOTTE ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 32C
Centroid Location:
Origin Time 09:54:58.8 0.3
Lat 50.99N FIX;Lon 130.69W FIX
Dep 15.0 FIX Half-duration 2.1
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	2.29	0	113
N	-0.56	90	180
P	-1.73	0	23

Best Double Couple:Mo=2.0*10**17
NP1:Strike=158 Dip=90 Slip=-180
NP2: 248 90 0

03 22 27 30.81 2.282S 125.086E 37km
5.2mb (10 obs.) 4.3Msz (2 obs.)
CERAM SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 22C
Centroid Location:
Origin Time 22:27:32.4 0.8
Lat 2.06S 0.13 Lon 125.17E 0.16
Dep 31.710.1 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	5.52	7	299
N	0.62	55	199
P	-6.34	34	33

Best Double Couple:Mo=5.9*10**16
NP1:Strike= 71 Dip=62 Slip= -21
NP2: 171 72 -150

04 07 58 14.07 10.233S 110.290E 46km
5.7mb (37 obs.) 5.4Msz (16 obs.)
SOUTH OF JAVA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 38C
Centroid Location:

Origin Time 07:58:14.3 0.6
Lat 10.73S 0.05 Lon 110.75E 0.05
Dep 45.0 3.1 Half-duration 3.1
Principal Axes:
Scale 10**17 Nm
T Val= 7.53 Plg= 9 Azm=357
N -3.32 0 267
P -4.21 81 175
Best Double Couple:Mo=5.9*10**17
NP1:Strike= 87 Dip=36 Slip= -89
NP2: 267 54 -90

05 05 16 46.15 37.047N 71.250E 110km
6.1mb (102 obs.)
AFGHANISTAN-USSR BORDER REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=235 Dip=55 Slip= 70
NP2: 87 40 116
Principal Axes:
T Plg=72 Azm= 94
P 8 339
Comment: The focal mechanism is moderately well controlled and corresponds to reverse faulting with a moderate strike-slip component. The preferred fault plane is NP1.
RADIATED ENERGY
No. of sta: 5 Focal mech. M
Energy 5.9±2.5*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 120 No. of sta: 12
Principal Axes:
Scale 10**18 Nm
T Val= 2.55 Plg=68 Azm=105
N 0.54 21 270
P -3.09 5 2
Best Double Couple:Mo=2.8*10**18
NP1:Strike=114 Dip=44 Slip= 121
NP2: 254 53 64
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 32C M.W.: 12S, 18C
Centroid Location:
Origin Time 05:16:53.5 0.2
Lat 36.56N 0.02 Lon 70.84E 0.03
Dep 113.5 1.1 Half-duration 4.9
Principal Axes:
Scale 10**18 Nm
T Val= 2.65 Plg=53 Azm= 99
N 0.41 36 260
P -3.05 9 357
Best Double Couple:Mo=2.8*10**18
NP1:Strike=121 Dip=48 Slip= 142
NP2: 239 63 49

08 07 15 32.23 9.755N 124.694E 26km
6.2mb (82 obs.) 6.6Msz (32 obs.)
MINDANAO, PHILIPPINE ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 32 Dip=62 Slip= 55
NP2: 268 44 137
Principal Axes:
T Plg=58 Azm=253
P 10 146
Comment: The focal mechanism is moderately well controlled and corresponds to reverse faulting with a large strike-slip component. The preferred fault plane is not determined.
RADIATED ENERGY
No. of sta: 6 Focal mech. M
Energy 1.8±0.7*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 21 No. of sta: 14
Principal Axes:
Scale 10**19 Nm
T Val= 1.25 Plg=69 Azm=287
N 0.27 18 75
P -1.53 10 169
Best Double Couple:Mo=1.4*10**19
NP1:Strike=280 Dip=38 Slip= 120
NP2: 63 58 69
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 43C M.W.: 14S, 34C
Centroid Location:
Origin Time 07:15:35.9 0.2
Lat 9.79N 0.02 Lon 124.85E 0.02
Dep 16.2 0.9 Half-duration 9.6
Principal Axes:
Scale 10**19 Nm
T Val= 1.61 Plg=81 Azm=340
N -0.14 2 240
P -1.48 9 149
Best Double Couple:Mo=1.5*10**19
NP1:Strike=237 Dip=36 Slip= 87
NP2: 61 54 92

08 07 46 59.78 9.725N 124.625E 30km
6.0mb (66 obs.) 6.5Msz (9 obs.)
MINDANAO, PHILIPPINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 6S, 18C M.W.: 9S, 20C
Centroid Location:
Origin Time 07:47: 5.2 0.4
Lat 9.71N 0.03 Lon 124.86E 0.04
Dep 15.0 FIX Half-duration 7.4
Principal Axes:
Scale 10**18 Nm
T Val= 8.66 Plg=79 Azm=312
N 0.24 2 55
P -8.89 11 145
Best Double Couple:Mo=8.8*10**18
NP1:Strike=238 Dip=34 Slip= 94
NP2: 53 56 87

09 09 31 47.63 36.775N 2.477E 12km
5.0mb (44 obs.) 4.4Msz (2 obs.)
ALGERIA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 27C
Centroid Location:
Origin Time 09:31:53.9 0.8
Lat 36.26N 0.17 Lon 2.83E 0.19
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 7.40 Plg=63 Azm=132
N 1.60 1 225
P -9.00 27 316
Best Double Couple:Mo=8.2*10**16
NP1:Strike= 49 Dip=18 Slip= 95
NP2: 225 72 88

09 22 30 23.52 26.972N 140.315E 436km
4.7mb (24 obs.)
BONIN ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 23C
Centroid Location:
Origin Time 22:30:26.6 0.8
Lat 26.87N 0.08 Lon 139.92E 0.08
Dep 435.6 4.8 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 9.03 Plg=15 Azm=112
N -1.50 8 204
P -7.53 73 321
Best Double Couple:Mo=8.3*10**16
NP1:Strike=190 Dip=31 Slip=-105
NP2: 28 60 -81

10 03 27 41.28 42.343S 172.798E 10km
6.0mb (12 obs.) 6.0Msz (19 obs.)
SOUTH ISLAND, NEW ZEALAND
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=175 Dip=83 Slip= 7
NP2: 84 83 173
Principal Axes:
T Plg=10 Azm= 40
P 0 130
Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting with a small reverse component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 14 No. of sta: 7
Principal Axes:
Scale 10**18 Nm
T Val= 1.26 Plg= 8 Azm= 19
N 0.01 78 151
P -1.27 9 287
Best Double Couple:Mo=1.3*10**18
NP1:Strike= 63 Dip=78 Slip=-180
NP2: 333 90 -12
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 30C
Centroid Location:
Origin Time 03:27:43.6 0.6
Lat 42.41S 0.05 Lon 172.78E 0.06
Dep 15.0 FIX Half-duration 3.4
Principal Axes:
Scale 10**17 Nm
T Val= 9.66 Plg=20 Azm= 25
N 2.29 55 147
P -11.95 27 284
Best Double Couple:Mo=1.1*10**18
NP1:Strike= 67 Dip=56 Slip=-174
NP2: 333 85 -34

10 03 54 47.72 42.347S 172.595E 10km
5.0mb (4 obs.) 5.7Msz (1 obs.)
SOUTH ISLAND, NEW ZEALAND
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 22C
Centroid Location:
Origin Time 03:54:49.2 1.4
Lat 42.19S FIX;Lon 172.74E FIX
Dep 15.0 FIX Half-duration 2.6
Principal Axes:
Scale 10**17 Nm
T Val= 4.28 Plg=17 Azm= 22
N -0.37 52 135
P -3.91 33 280
Best Double Couple:Mo=4.1*10**17
NP1:Strike= 65 Dip=54 Slip=-167
NP2: 328 80 -37

10 13 12 14.23 5.263S 151.271E 10km
5.3mb (11 obs.) 4.6Msz (1 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 18C
Centroid Location:
Origin Time 13:12:21.8 1.2
Lat 5.35S 0.09 Lon 150.91E 0.13
Dep 32.910.9 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 7.74 Plg=13 Azm=208
N -0.05 48 313
P -7.69 39 107
Best Double Couple:Mo=7.7*10**16
NP1:Strike=256 Dip=53 Slip=-159
NP2: 152 73 -39

10 17 12 10.49 3.170S 80.829W 57km
5.5mb (44 obs.)
PERU-ECUADOR BORDER REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 34C
Centroid Location:
Origin Time 17:12:14.0 0.5
Lat 3.54S 0.06 Lon 81.07W 0.09
Dep 15.0 FIX Half-duration 2.3
Principal Axes:
Scale 10**17 Nm
T Val= 2.43 Plg=31 Azm=101
N 0.16 56 252
P -2.60 13 3
Best Double Couple:Mo=2.5*10**17
NP1:Strike=138 Dip=58 Slip= 167
NP2: 235 79 32

10 20 45 39.15 51.623N 178.043E 61km
5.3mb (73 obs.)
RAT ISLANDS, ALEUTIAN ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 30C
Centroid Location:
Origin Time 20:45:47.0 0.4
Lat 52.04N 0.09 Lon 177.45E 0.07
Dep 36.5 4.7 Half-duration 1.9
Principal Axes:
Scale 10**17 Nm
T Val= 1.32 Plg=25 Azm= 97
N 0.09 40 211
P -1.42 40 345
Best Double Couple:Mo=1.4*10**17
NP1:Strike=138 Dip=42 Slip=-167
NP2: 38 81 -49

11 17 46 06.17 36.331N 140.916E 46km
5.4mb (68 obs.) 5.2Msz (15 obs.)
NEAR EAST COAST OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN

L.P.B.: 12S, 28C
Centroid Location:
Origin Time 17:46: 9.0 0.3
Lat 35.99N 0.04 Lon 140.88E 0.04
Dep 38.9 2.6 Half-duration 2.7
Principal Axes:
Scale 10**17 Nm
T Val= 3.39 Plg=74 Azm=302
N 0.44 3 203
P -3.83 15 112
Best Double Couple:Mo=3.6*10**17
NP1:Strike=198 Dip=30 Slip= 85
NP2: 24 60 93

11 21 58 39.45 31.184S 177.634W 29km
5.3mb (8 obs.) 5.0Msz (5 obs.)
KERMADEC ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 29C
Centroid Location:
Origin Time 21:58:50.3 0.8
Lat 30.34S 0.06 Lon 177.98W 0.06
Dep 45.0 4.0 Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.29 Plg=75 Azm=270
N 0.55 3 12
P -1.83 15 103
Best Double Couple:Mo=1.6*10**17
NP1:Strike=198 Dip=31 Slip= 96
NP2: 10 60 86

12 03 30 52.82 5.186S 151.777E 49km
5.1mb (12 obs.) 4.7Msz (3 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 29C
Centroid Location:
Origin Time 03:30:58.2 0.4
Lat 5.41S 0.06 Lon 151.96E 0.08
Dep 18.4 3.8 Half-duration 1.9
Principal Axes:
Scale 10**17 Nm
T Val= 1.57 Plg=63 Azm= 46
N -0.15 23 259
P -1.42 13 163
Best Double Couple:Mo=1.5*10**17
NP1:Strike=225 Dip=38 Slip= 50
NP2: 92 62 117

12 12 25 33.57 5.256S 151.330E 15km
5.5mb (30 obs.) 5.2Msz (17 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 31C
Centroid Location:
Origin Time 12:25:39.7 0.3
Lat 5.25S 0.04 Lon 150.88E 0.04
Dep 21.2 4.1 Half-duration 2.8
Principal Axes:
Scale 10**17 Nm
T Val= 4.45 Plg= 6 Azm=196
N 0.20 56 294
P -4.65 34 102
Best Double Couple:Mo=4.6*10**17
NP1:Strike=244 Dip=62 Slip=-158
NP2: 144 71 -29

12 13 44 29.22 44.130N 128.926W 10km
5.1mb (20 obs.) 5.2Msz (4 obs.)
OFF COAST OF OREGON
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 28C
Centroid Location:
Origin Time 13:44:31.7 0.6
Lat 44.15N FIX;Lon 128.91W FIX
Dep 15.0 FIX Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 2.04 Plg= 0 Azm=105
N -0.45 90 180
P -1.59 0 15
Best Double Couple:Mo=1.8*10**17
NP1:Strike=150 Dip=90 Slip=-180
NP2: 240 90 0

15 22 08 01.55 5.225S 151.355E 16km
5.7mb (24 obs.) 4.9Msz (12 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 21C
Centroid Location:
Origin Time 22:08:10.2 0.4
Lat 4.97S 0.04 Lon 150.79E 0.04
Dep 21.7 3.5 Half-duration 2.3
Principal Axes:
Scale 10**17 Nm
T Val= 2.57 Plg= 0 Azm=200
N -0.27 47 290
P -2.30 43 110
Best Double Couple:Mo=2.4*10**17
NP1:Strike=254 Dip=61 Slip=-147
NP2: 147 61 -33

16 06 22 09.81 22.295S 174.329W 33km
5.1mb (9 obs.) 5.0Msz (5 obs.)
TONGA ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 21C
Centroid Location:
Origin Time 06:22:19.1 1.8
Lat 21.61S 0.10 Lon 174.25W 0.13
Dep 15.0 FIX Half-duration 1.8
Principal Axes:
Scale 10**16 Nm
T Val= 10.27 Plg=69 Azm=302
N 1.53 0 32
P -11.80 21 122
Best Double Couple:Mo=1.1*10**17
NP1:Strike=212 Dip=24 Slip= 90
NP2: 32 66 90

16 13 28 42.83 49.121N 127.714W 10km
5.2mb (41 obs.) 4.9Msz (7 obs.)
VANCOUVER ISLAND REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 20C
Centroid Location:
Origin Time 13:28:52.3 0.6
Lat 49.16N 0.08 Lon 128.79W 0.08
Dep 15.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**17 Nm
T Val= 1.41 Plg=12 Azm= 73
N -0.01 77 229
P -1.41 5 342
Best Double Couple:Mo=1.4*10**17
NP1:Strike=117 Dip=78 Slip= 175
NP2: 208 85 12

16 15 12 46.48 3.121S 80.683W 76km
5.0mb (10 obs.)
PERU-ECUADOR BORDER REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 16C
Centroid Location:
Origin Time 15:12:45.0 0.7
Lat 3.93S 0.07 Lon 81.18W 0.12
Dep 76.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 8.93 Plg=21 Azm=113
N 1.35 53 235
P -10.28 28 11
Best Double Couple Mo=9.6*10**16
NP1:Strike=154 Dip=54 Slip=-174
NP2: 61 85 -36

16 21 02 53.73 3.564S 140.272E 47km
5.3mb (23 obs) 4.8Msz (4 obs.)
WEST IRIAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 19C
Centroid Location:
Origin Time 21:03: 0.1 0.6
Lat 3.38S 0.05 Lon 139.89E 0.07
Dep 31.0 4.6 Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Val= 8.42 Plg=71 Azm=283
N 1.90 19 112
P -10.33 3 21
Best Double Couple:Mo=9.4*10**16
NP1:Strike= 92 Dip=45 Slip= 63
NP2: 308 51 115

16 21 29 53.35 15.816N 147.277E 33km
5.2mb (25 obs.) 4.9Msz (12 obs.)
MARIANA ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 17C
Centroid Location:
Origin Time 21:29:58.0 0.7
Lat 15.68N 0.10 Lon 147.33E 0.08
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 8.06 Plg=69 Azm=315
N -0.78 13 189
P -7.28 17 95
Best Double Couple:Mo=7.7*10**16
NP1:Strike=166 Dip=30 Slip= 64
NP2: 16 63 104

17 01 22 06.80 4.567S 105.583W 10km
5.5mb (5 obs.) 5.8Msz (2 obs.)
NORTHERN EASTER I. CORDILLERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 33C
Centroid Location:
Origin Time 01:22:16.5 0.6
Lat 4.50S 0.05 Lon 106.03W 0.06
Dep 15.0 FIX Half-duration 2.3
Principal Axes:
Scale 10**17 Nm
T Val= 6.74 Plg= 3 Azm=325
N 0.20 87 114
P -6.94 2 235
Best Double Couple:Mo=6.8*10**17
NP1:Strike= 10 Dip=87 Slip= 179
NP2: 100 89 3

17 02 28 01.82 29.533N 130.732E 66km
5.9mb (80 obs.)
RYUKYU ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=217 Dip=70 Slip= 70
NP2: 84 28 133
Principal Axes:
T Plg=60 Azm= 98
P 22 322
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: 6 Focal mech. F
Energy 2.0±0.5*10**13 Nm
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 25C
Centroid Location:
Origin Time 02:28: 5.0 0.3
Lat 29.28N 0.03 Lon 130.45E 0.04
Dep 44.3 3.6 Half-duration 4.0
Principal Axes:
Scale 10**18 Nm
T Val= 1.79 Plg=55 Azm=107
N -0.02 21 231
P -1.77 26 332
Best Double Couple:Mo=1.8*10**18
NP1:Strike=102 Dip=27 Slip= 144
NP2: 224 75 68

17 02 50 56.55 15.835N 147.197E 32km
5.6mb (29 obs.) 5.6Msz (3 obs.)
MARIANA ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 20C
Centroid Location:
Origin Time 02:50:54.5 1.8
Lat 15.94N 0.15 Lon 147.43E 0.22
Dep 15.0 FIX Half-duration 2.3
Principal Axes:
Scale 10**17 Nm
T Val= 3.06 Plg=17 Azm=139
N -0.55 7 46
P -2.51 72 294
Best Double Couple:Mo=2.8*10**17
NP1:Strike=240 Dip=29 Slip= -75
NP2: 43 62 -98

18 12 21 58.09 5.516S 149.432E 142km
5.9mb (50 obs.)

NEW BRITAIN REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 55 Dip=54 Slip=-100
NP2: 252 37 -77
Principal Axes:
T Plg= 8 Azm=152
P 78 288
Comment: The focal mechanism is moderately well controlled and corresponds to normal faulting with a small strike-slip component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 146 No. of sta: 11
Principal Axes:
Scale 10**17 Nm
T Val= 6.34 Plg= 3 Azm=178
N 0.27 30 86
P -6.62 60 273
Best Double Couple:Mo=6.5*10**17
NP1:Strike=295 Dip=49 Slip= -49
NP2: 62 55 -127
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 27C
Centroid Location:
Origin Time 12:22: 5.9 0.6
Lat 5.57S 0.05 Lon 149.07E 0.04
Dep 152.6 1.0 Half-duration 3.3
Principal Axes:
Scale 10**17 Nm
T Val= 8.06 Plg= 2 Azm=171
N -0.31 14 81
P -7.75 76 267
Best Double Couple:Mo=7.9*10**17
NP1:Strike=276 Dip=45 Slip= -70
NP2: 68 48 -109

19 05 34 37.04 40.347S 176.102E 24km
5.9mb (36 obs.) 6.3Msz (18 obs.)
NORTH ISLAND, NEW ZEALAND
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=242 Dip=79 Slip= -90
NP2: 62 11 -90
Principal Axes:
T Plg=34 Azm=332
P 56 152
Comment: The focal mechanism is poorly controlled and corresponds to normal faulting. The preferred fault plane is NP1.
MOMENT TENSOR SOLUTION
Dep 20 No. of sta: 10
Principal Axes:
Scale 10**18 Nm
T Val= 3.11 Plg=32 Azm=329
N 0.18 10 233
P -3.29 56 128
Best Double Couple:Mo=3.2*10**18
NP1:Strike= 91 Dip=16 Slip= -51
NP2: 231 77 -100
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 35C
Centroid Location:
Origin Time 05:34:38.4 0.3
Lat 40.76S 0.04 Lon 176.09E 0.06
Dep 32.1 2.1 Half-duration 5.2
Principal Axes:
Scale 10**18 Nm
T Val= 2.92 Plg=24 Azm=316
N -0.54 21 216
P -2.38 57 90
Best Double Couple:Mo=2.7*10**18
NP1:Strike= 81 Dip=28 Slip= -41
NP2: 209 72 -112

19 06 48 10.12 15.465S 166.385E 12km
6.4mb (42 obs.) 6.7Msz (33 obs.)
VANUATU ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=109 Dip=70 Slip= 11
NP2: 15 80 160
Principal Axes:
T Plg=22 Azm=331
P 7 63
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: 6 Focal mech. C
Energy 1.9±0.8*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 32 No. of sta: 8
Principal Axes:
Scale 10**19 Nm
T Val= 2.18 Plg=16 Azm=328
N 0.00 73 169
P -2.17 6 60
Best Double Couple:Mo=2.2*10**19
NP1:Strike=105 Dip=74 Slip= 7
NP2: 13 83 164
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 35C M.W.: 10S, 23C
Centroid Location:
Origin Time 06:48:17.9 0.2
Lat 15.54S 0.02 Lon 166.19E 0.02
Dep 15.0 FIX Half-duration 9.0
Principal Axes:
Scale 10**19 Nm
T Val= 1.33 Plg=32 Azm=100
N 0.65 35 345
P -1.98 39 221
Best Double Couple:Mo=1.7*10**19
NP1:Strike=246 Dip=35 Slip= -7
NP2: 342 86 -125

20 06 53 39.89 34.706N 139.252E 14km
6.1mb (97 obs.) 6.4Msz (29 obs.)
NEAR S. COAST OF HONSHU, JAPAN
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 70 Dip=82 Slip= 173
NP2: 161 83 8
Principal Axes:
T Plg=11 Azm= 26
P 1 295
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: 6 Focal mech. F
Energy 5.3±2.1*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 37 No. of sta: 15
Principal Axes:
Scale 10**18 Nm
T Val= 2.34 Plg= 6 Azm=206
N 0.23 71 98
P -2.58 18 298
Best Double Couple:Mo=2.5*10**18
NP1:Strike=341 Dip=73 Slip= -9
NP2: 73 82 -163
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 28C M.W.: 10S, 20C
Centroid Location:
Origin Time 06:53:45.3 0.2
Lat 34.62N 0.02 Lon 139.05E 0.02
Dep 32.2 1.7 Half-duration 5.6
Principal Axes:
Scale 10**18 Nm
T Val= 4.16 Plg=15 Azm=219
N 0.35 75 41
P -4.50 1 309
Best Double Couple:Mo=4.3*10**18
NP1:Strike=355 Dip=79 Slip= 10
NP2: 263 80 169

20 09 15 22.84 46.922N 153.996E 34km
5.6mb (69 obs.) 5.4Msz (2 obs.)
KURIL ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 17C
Centroid Location:
Origin Time 09:15:23.4 0.9
Lat 46.85N 0.12 Lon 154.74E 0.12
Dep 34.5 7.9 Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 2.94 Plg=68 Azm= 72
N 0.13 15 204
P -3.08 16 298
Best Double Couple:Mo=3.0*10**17
NP1:Strike= 50 Dip=32 Slip= 120
NP2: 196 63 73

20 18 17 56.29 21.559S 170.437E 161km
5.3mb (18 obs.)
LOYALTY ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 23C
Centroid Location:
Origin Time 18:18: 4.8 0.8
Lat 21.53S 0.07 Lon 169.80E 0.06
Dep 157.3 2.0 Half-duration 2.3
Principal Axes:
Scale 10**17 Nm
T Val= 3.46 Plg=18 Azm=321
N -0.77 71 144
P -2.69 1 51
Best Double Couple:Mo=3.1*10**17
NP1:Strike= 98 Dip=76 Slip= 13
NP2: 5 78 166

20 18 48 04.03 25.413S 116.169W 10km
5.3mb (17 obs.) 5.5Msz (4 obs.)
EASTER ISLAND CORDILLERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 31C
Centroid Location:
Origin Time 18:48:15.8 0.7
Lat 25.84S 0.04 Lon 116.44W 0.06
Dep 15.0 FIX Half-duration 2.7
Principal Axes:
Scale 10**17 Nm
T Val= 3.73 Plg= 0 Azm=245
N -0.35 90 180
P -3.38 0 155
Best Double Couple:Mo=3.5*10**17
NP1:Strike=290 Dip=90 Slip=-180
NP2: 20 90 0

21 18 20 14.55 16.903N 62.326W 110km
5.9mb (64 obs.)
LEEWARD ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=170 Dip=85 Slip= 90
NP2: 350 5 90
Principal Axes:
T Plg=50 Azm= 80
P 40 260
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 30C
Centroid Location:
Origin Time 18:20:20.9 0.2
Lat 16.75N 0.03 Lon 61.85W 0.03
Dep 110.3 1.8 Half-duration 3.2
Principal Axes:
Scale 10**17 Nm
T Val= 6.73 Plg=43 Azm= 75
N -0.32 7 339
P -6.41 46 242
Best Double Couple:Mo=6.6*10**17
NP1:Strike=234 Dip= 7 Slip= -14
NP2: 339 88 -97

22 16 51 51.06 11.458S 66.380E 12km
5.7mb (58 obs.) 5.6Msz (23 obs.)
MID-INDIAN RISE
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=215 Dip=82 Slip= -8
NP2: 306 82 -172
Principal Axes:
T Plg= 0 Azm= 81
P 11 171
Comment: The focal mechanism is moderately well 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. M
Energy 1.6±0.5*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 22 No. of sta: 12
Principal Axes:
Scale 10**17 Nm
T Val= 7.56 Plg= 4 Azm= 85
N 0.73 82 326
P -8.29 7 176

Best Double Couple:Mo=7.9*10**17
NP1:Strike=220 Dip=83 Slip= -2
NP2: 310 88 -173
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 19S, 45C
Centroid Location:
Origin Time 16:51:56.3 0.4
Lat 11.58S 0.05 Lon 66.39E 0.04
Dep 15.0 FIX Half-duration 3.0
Principal Axes:
Scale 10**17 Nm
T Val= 6.22 Plg= 0 Azm=235
N -1.52 30 145
P -4.70 60 325
Best Double Couple:Mo=5.5*10**17
NP1:Strike=351 Dip=52 Slip= -51
NP2: 119 52 -129

22 18 59 45.19 11.654N 86.622W 32km
5.1mb (36 obs.) 5.2Msz (7 obs.)
NEAR COAST OF NICARAGUA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 19C
Centroid Location:
Origin Time 18:59:46.9 0.5
Lat 11.36N 0.08 Lon 87.36W 0.08
Dep 17.8 3.8 Half-duration 2.2
Principal Axes:
Scale 10**17 Nm
T Val= 2.00 Plg=63 Azm=334
N -0.32 23 123
P -1.68 13 218
Best Double Couple:Mo=1.8*10**17
NP1:Strike=336 Dip=38 Slip= 130
NP2: 109 62 63

24 19 13 14.87 15.523S 175.236W 33km
5.7mb (36 obs.) 6.0Msz (26 obs.)
TONGA ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=125 Dip=75 Slip= -3
NP2: 216 87 -165
Principal Axes:
T Plg= 8 Azm=349
P 13 81
Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting with a moderate normal component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 18 No. of sta: 9
Principal Axes:
Scale 10**18 Nm
T Val= 1.98 Plg= 9 Azm=352
N -0.23 81 178
P -1.74 1 82
Best Double Couple:Mo=1.9*10**18
NP1:Strike=127 Dip=83 Slip= 6
NP2: 36 84 173
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 40C M.W.: 9S, 16C
Centroid Location:
Origin Time 19:13:19.4 0.2
Lat 15.38S 0.02 Lon 175.36W 0.02
Dep 15.0 FIX Half-duration 4.0
Principal Axes:
Scale 10**18 Nm
T Val= 1.63 Plg= 4 Azm=340
N 0.20 62 76
P -1.84 28 248
Best Double Couple:Mo=1.7*10**18
NP1:Strike= 27 Dip=68 Slip=-162
NP2: 291 74 -23

25 03 08 15.81 10.553S 165.190E 25km
5.4mb (10 obs.) 5.1Msz (10 obs.)
SANTA CRUZ ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 33C
Centroid Location:
Origin Time 03:08:20.2 0.5
Lat 10.57S FIX;Lon 165.19E FIX
Dep 15.0 FIX Half-duration 2.4
Principal Axes:
Scale 10**17 Nm
T Val= 3.07 Plg=59 Azm=275
N 0.31 12 26
P -3.38 28 123
Best Double Couple:Mo=3.2*10**17
NP1:Strike=243 Dip=20 Slip= 129
NP2: 23 74 77

25 14 57 39.64 20.011S 177.843W 572km
4.8mb (31 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 16C
Centroid Location:
Origin Time 14:57:47.2 0.8
Lat 19.57S 0.09 Lon 178.31W 0.09
Dep 573.3 4.6 Half-duration 1.8
Principal Axes:
Scale 10**16 Nm
T Val= 11.05 Plg=18 Azm= 34
N 1.77 22 131
P -12.82 61 267
Best Double Couple:Mo=1.2*10**17
NP1:Strike= 93 Dip=33 Slip=-133
NP2: 321 67 -66

25 22 51 09.19 18.042S 69.135W 141km
5.5mb (67 obs.)
NORTHERN CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 30C
Centroid Location:
Origin Time 22:51:16.3 0.4
Lat 18.35S 0.04 Lon 68.72W 0.05
Dep 141.5 2.0 Half-duration 2.5
Principal Axes:
Scale 10**17 Nm
T Val= 3.37 Plg=16 Azm= 79
N -0.02 0 169
P -3.36 74 261
Best Double Couple:Mo=3.4*10**17
NP1:Strike=169 Dip=29 Slip= -91
NP2: 350 61 -89

26 18 29 11.34 26.682S 114.763W 10km
5.2mb (12 obs.) 5.2Msz (1 obs.)
EASTER ISLAND REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 20C
Centroid Location:
Origin Time 18:29:18.9 0.8
Lat 27.05S 0.08 Lon 114.72W 0.10
Dep 15.0 FIX Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 0.86 Plg= 0 Azm=207
N 0.18 0 117
P -1.04 90 180
Best Double Couple:Mo=0.9*10**17
NP1:Strike=297 Dip=45 Slip= -90
NP2: 117 45 -90

26 19 06 36.44 26.651S 114.726W 14km
5.6mb (27 obs.) 6.1Msz (18 obs.)
EASTER ISLAND REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 40C M.W.: 11S, 17C
Centroid Location:
Origin Time 19:06:44.7 0.2
Lat 27.24S 0.03 Lon 114.91W 0.03
Dep 15.0 FIX Half-duration 4.5
Principal Axes:
Scale 10**18 Nm
T Val= 1.41 Plg=10 Azm= 39
N 0.09 10 131
P -1.50 75 265
Best Double Couple:Mo=1.5*10**18
NP1:Strike=117 Dip=36 Slip=-108
NP2: 318 56 -78

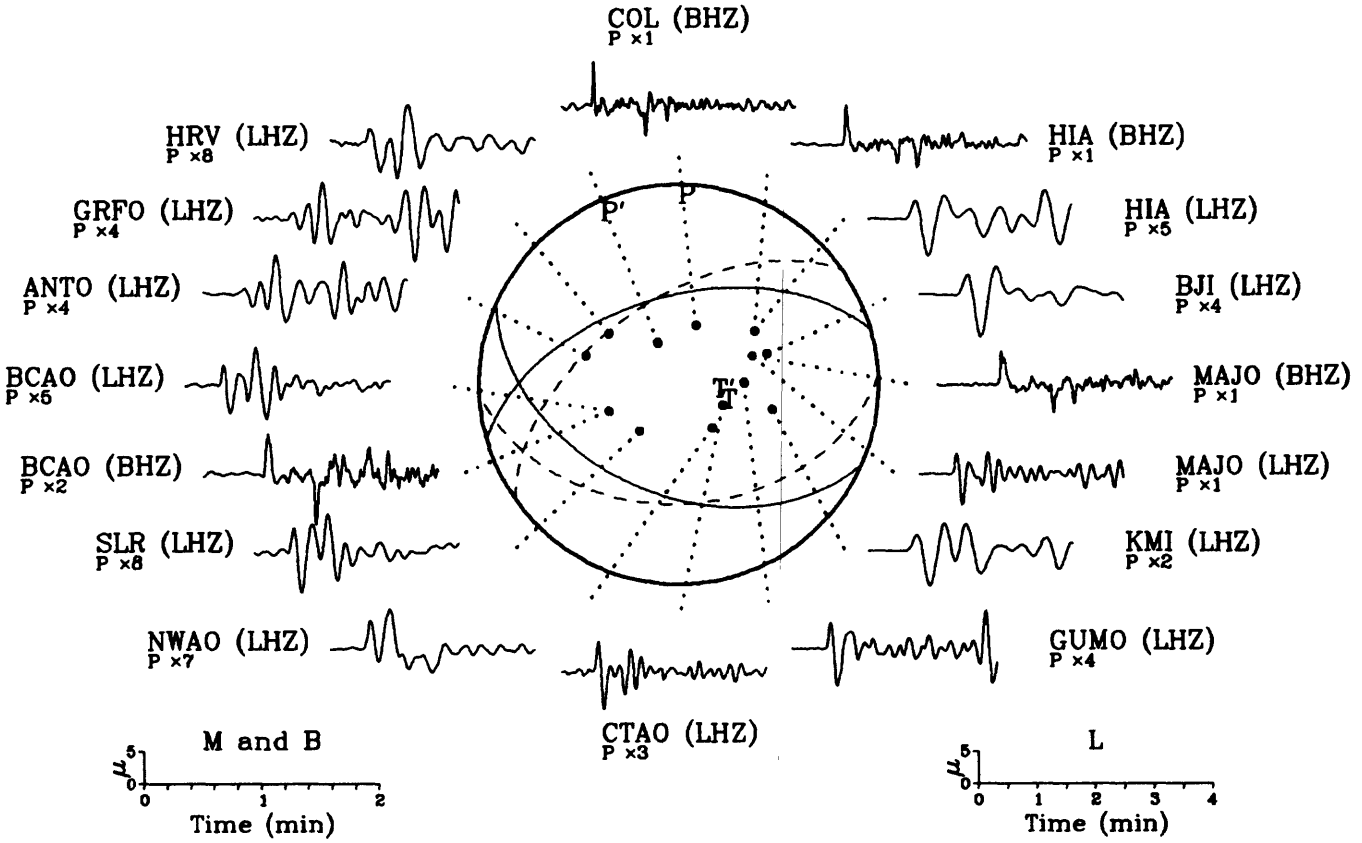
27 09 28 54.16 17.159S 64.141W 601km
5.4mb (66 obs.)
BOLIVIA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 33C
Centroid Location:
Origin Time 09:29: 3.4 0.4
Lat 17.14S 0.04 Lon 64.09W 0.05
Dep 618.6 2.6 Half-duration 3.1
Principal Axes:
Scale 10**17 Nm
T Val= 7.84 Plg=43 Azm=290
N 0.44 19 182
P -8.28 41 75
Best Double Couple:Mo=8.1*10**17
NP1:Strike= 96 Dip=19 Slip= 4
NP2: 2 89 109

28 18 01 22.65 15.482S 166.313E 10km
5.1mb (17 obs.) 4.6Msz (3 obs.)
VANUATU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 17C
Centroid Location:
Origin Time 18:01:27.4 0.9
Lat 15.42S 0.13 Lon 166.00E 0.12
Dep 33.8 8.1 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 4.47 Plg= 5 Azm=226
N 0.43 4 135
P -4.89 83 8
Best Double Couple:Mo=4.7*10**16
NP1:Strike=320 Dip=40 Slip= -84
NP2: 132 50 -95

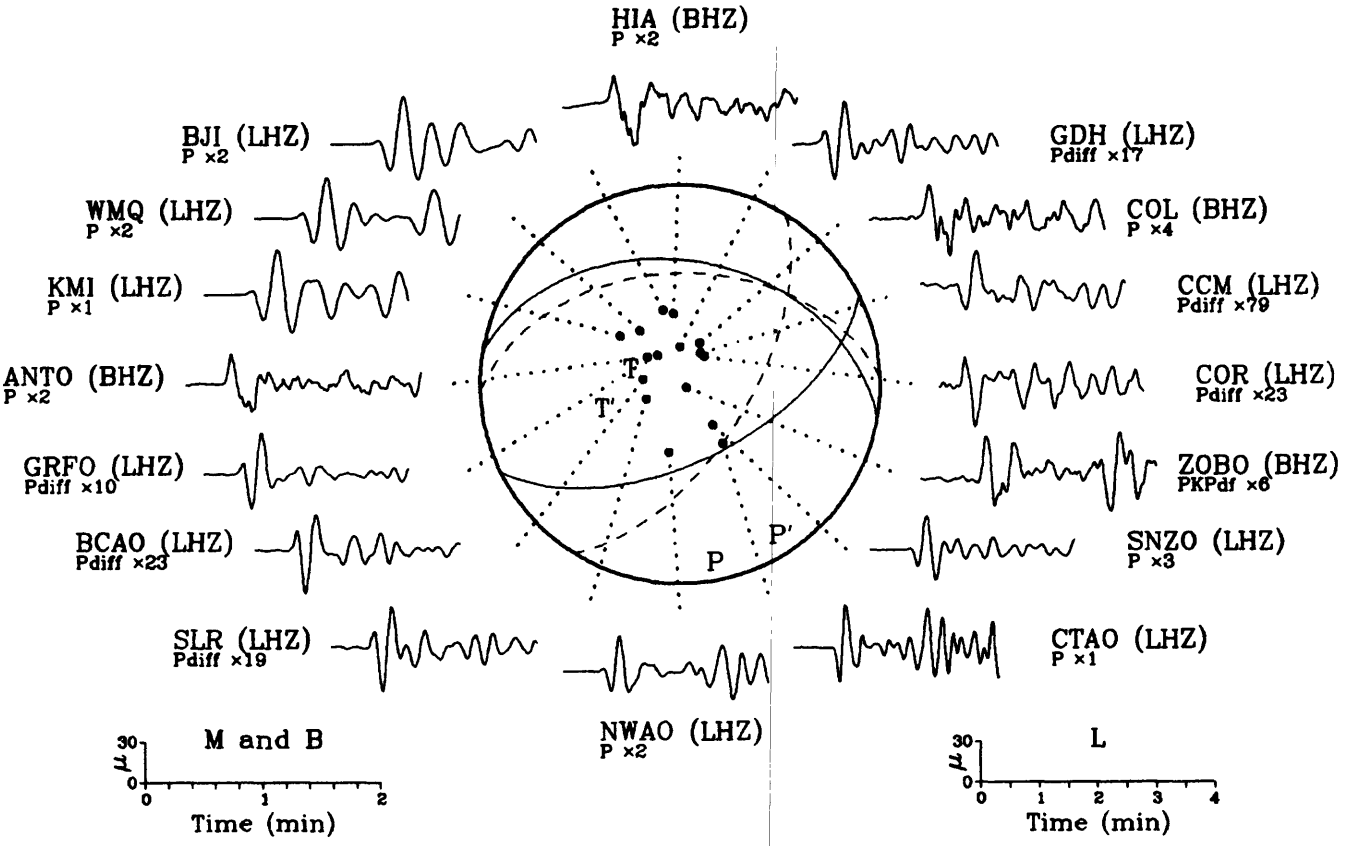
28 23 43 36.60 34.140N 117.700W 5km
5.5mb (58 obs.) 5.5Msz (7 obs.)
SOUTHERN CALIFORNIA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 28C
Centroid Location:
Origin Time 23:43:45.5 0.9
Lat 34.11N 0.06 Lon 118.06W 0.06
Dep 15.0 FIX Half-duration 2.8
Principal Axes.
Scale 10**17 Nm
T Val= 3.46 Plg=19 Azm=264
N 1.03 70 69
P -4.49 5 172
Best Double Couple:Mo=4.0*10**17
NP1:Strike=307 Dip=73 Slip= 169
NP2: 40 80 17

Compiled by Pingsheng Chong, Willis S. Jacobs, Christina K. Lavonne, John H. Minsch, Russell E. Needhom, Waverly J. Person, Bruce W. Presgrave and William H. Schmieder.

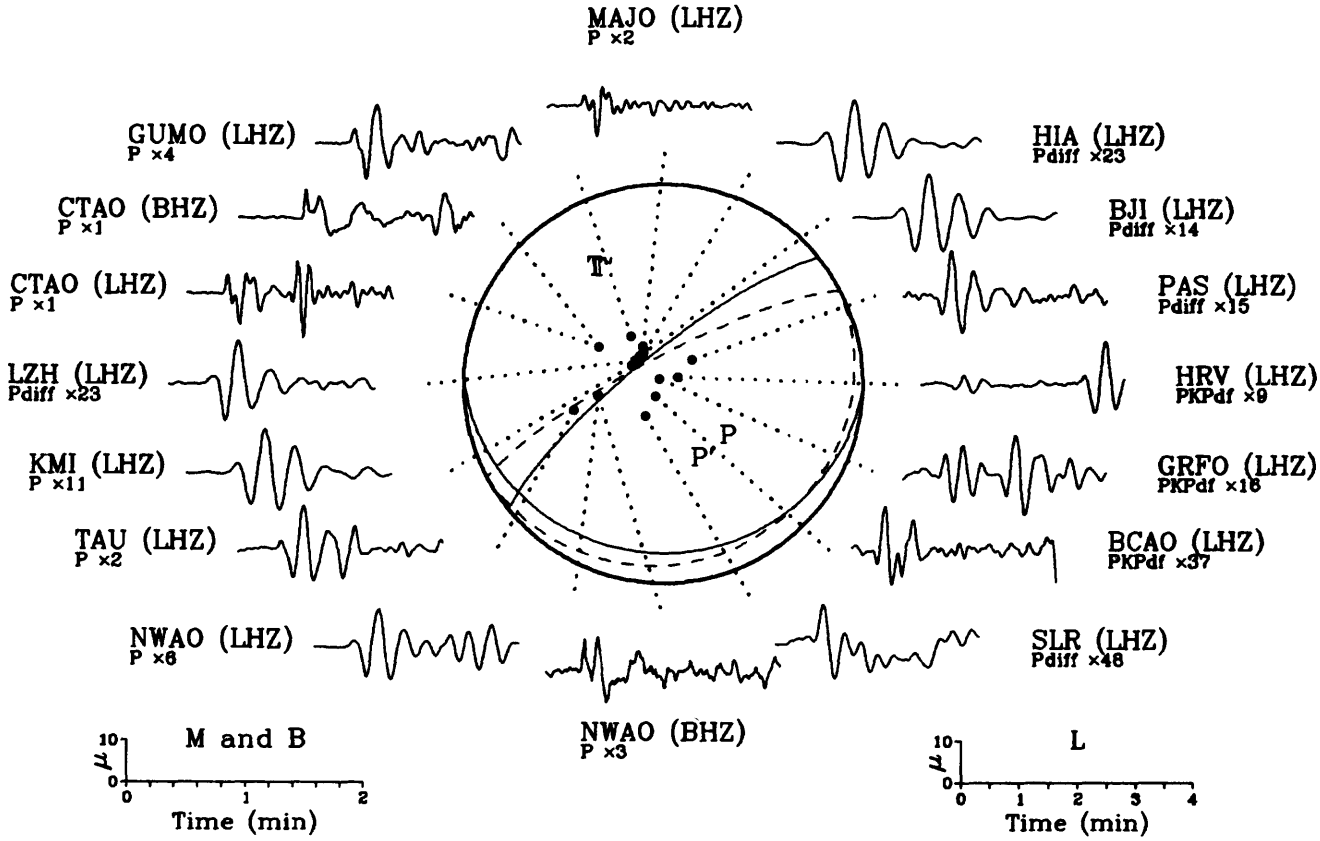
05 February 1990 05:16:46.15
Afghanistan–USSR Border Region



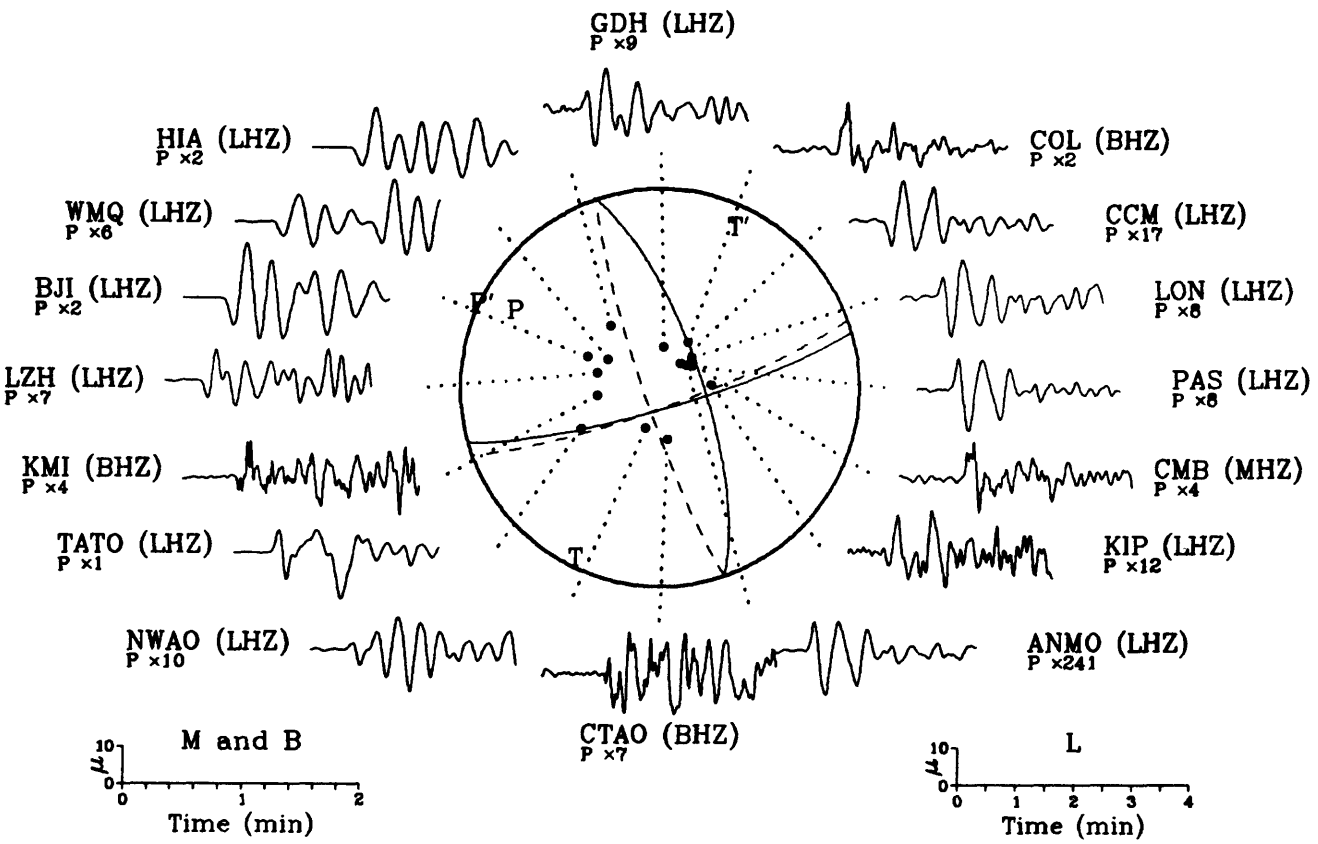
08 February 1990 07:15:32.23
Mindanao, Philippine Islands



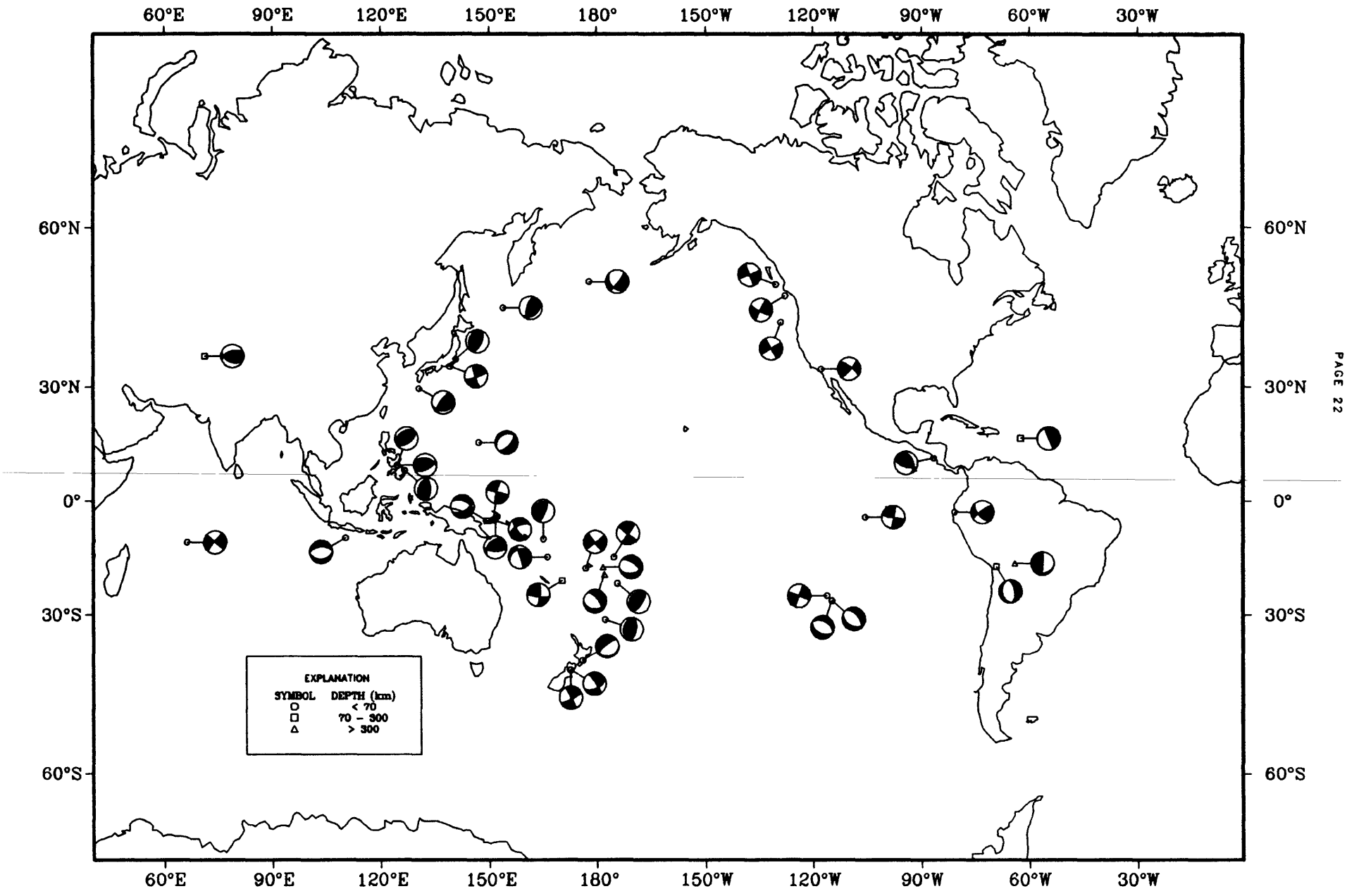
19 February 1990 05:34:37.04
North Island, New Zealand

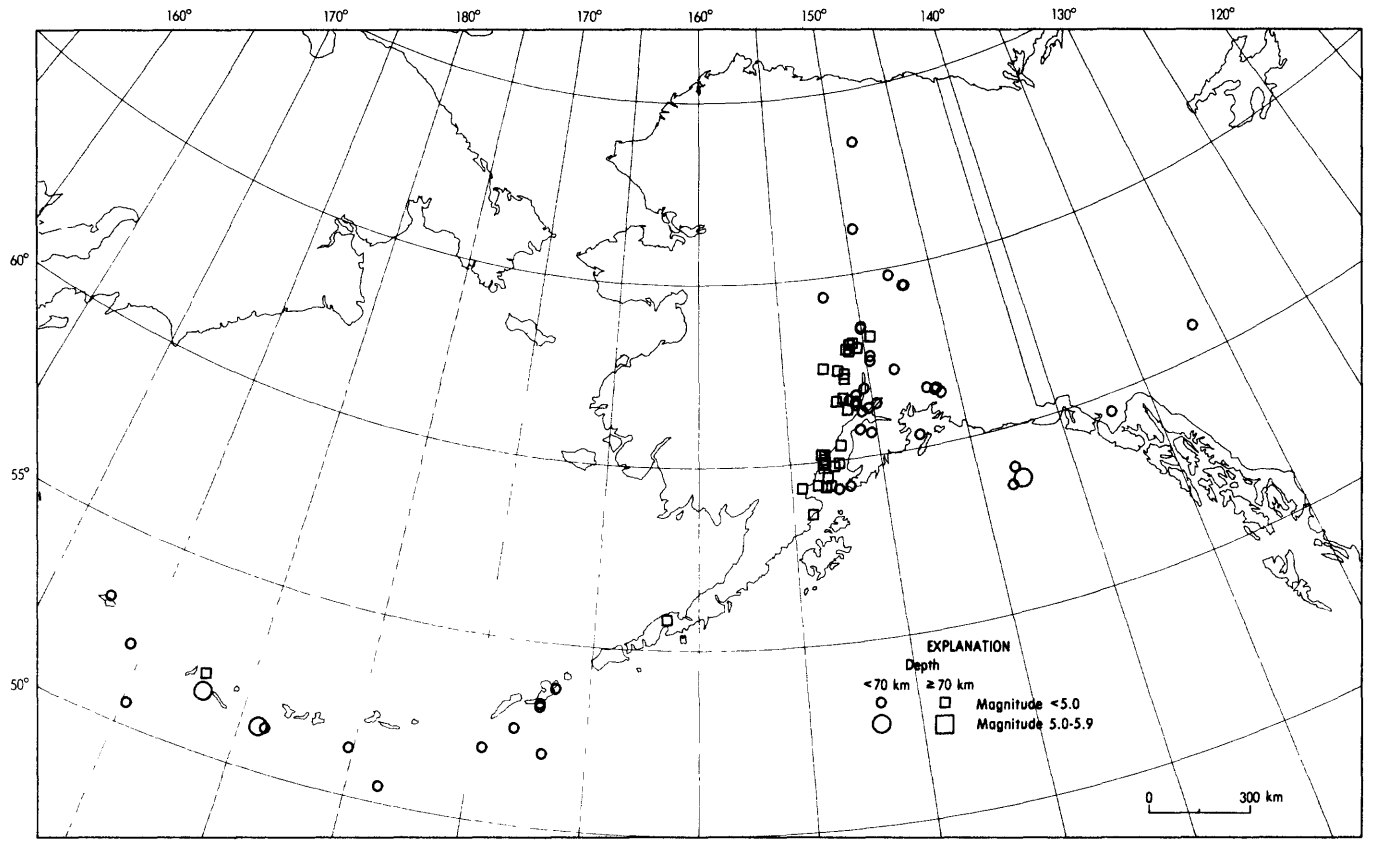


20 February 1990 06:53:39.89
Near S. Coast of Honshu, Japan

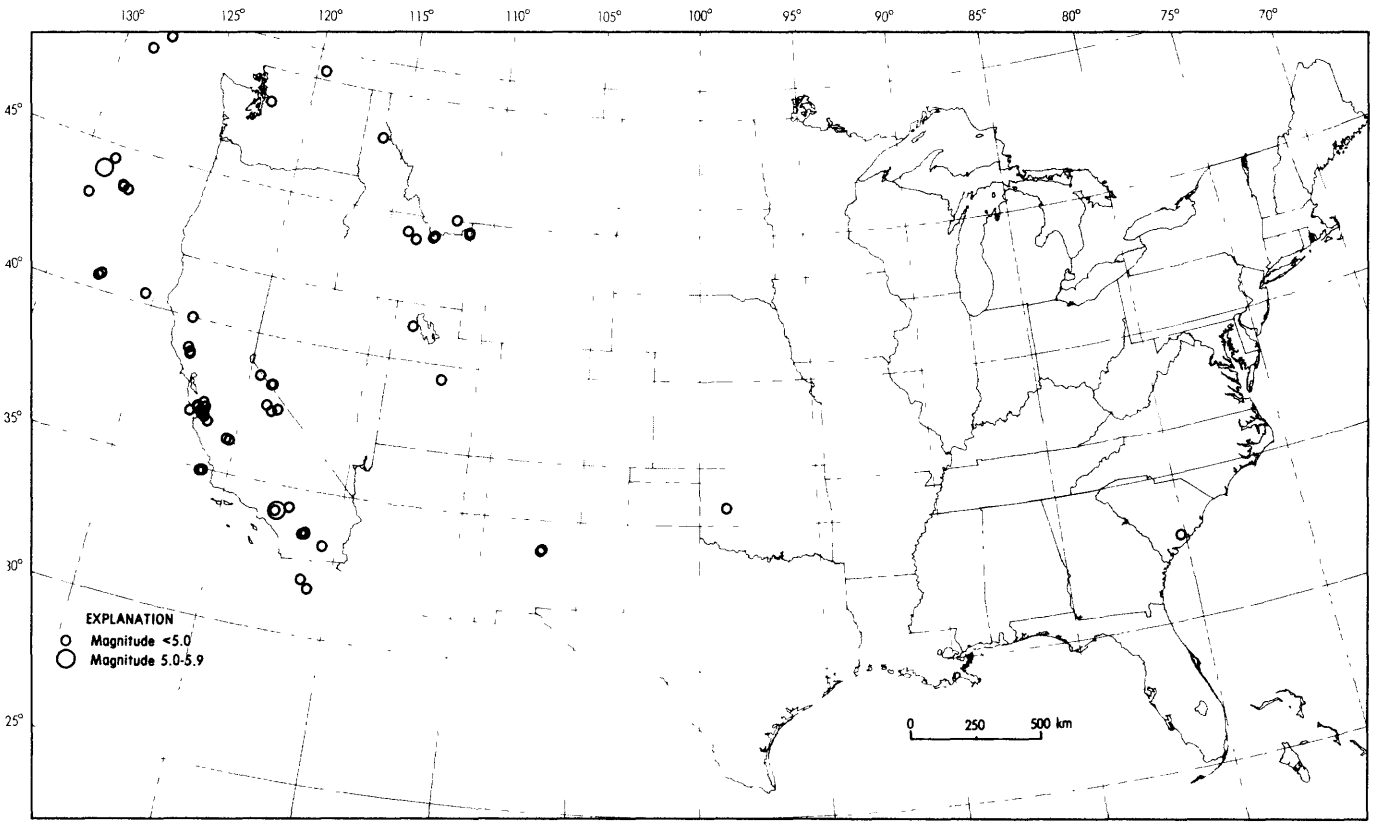


Earthquake Focal Mechanisms for February 1990

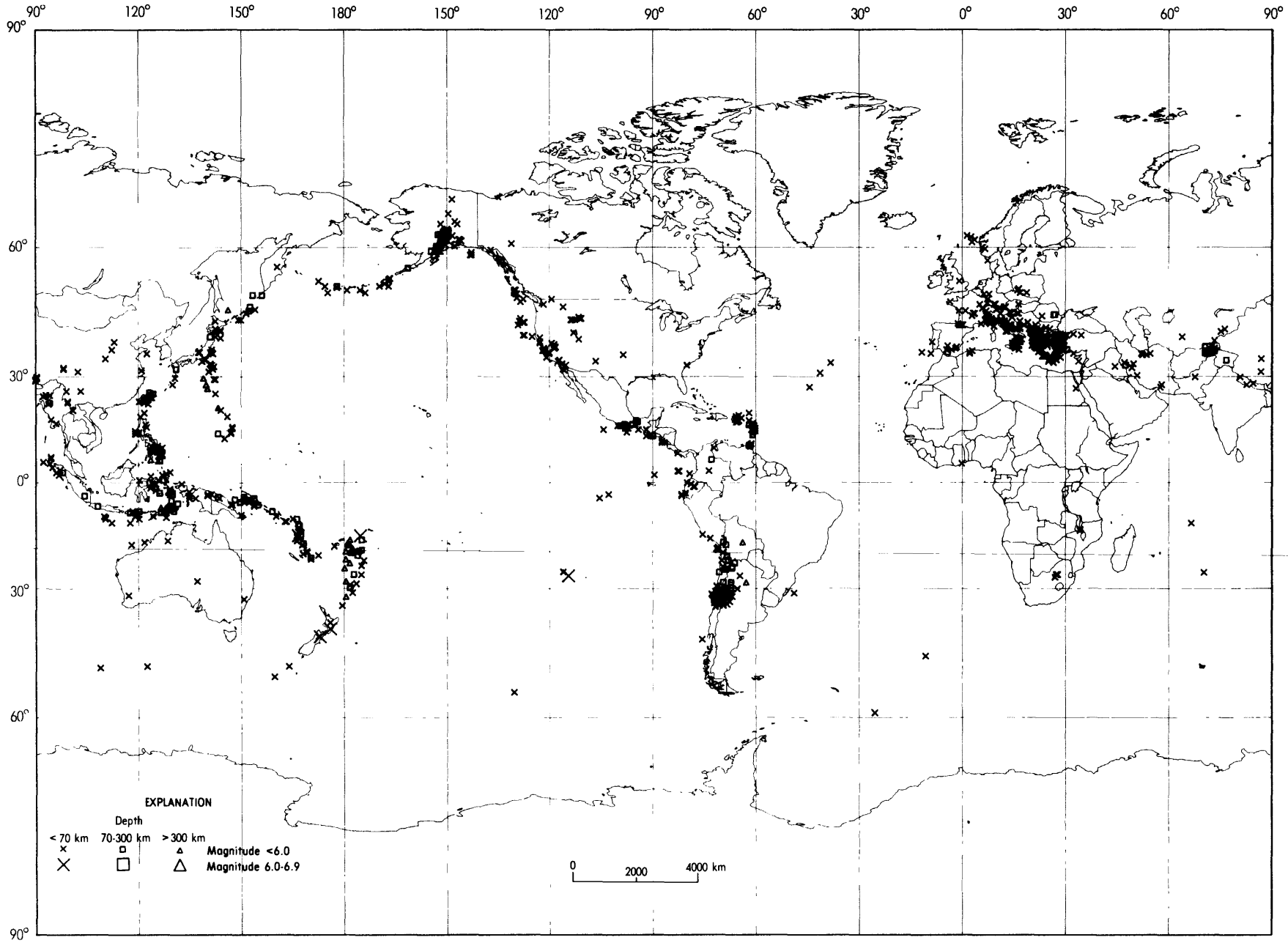




Earthquake epicenters in Alaska and adjacent regions for February, 1990 (C. Stover).



Earthquake epicenters in the conterminous United States and adjacent regions for February, 1990 (C. Stover).



Earthquakes located in February, 1990 (C. Stover).

PRELIMINARY DETERMINATION OF EPICENTERS

MONTHLY LISTING

S. DEPARTMENT OF THE INTERIOR / GEOLOGICAL SURVEY

National Earthquake Information Center

MARCH 1990

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	02	08.9&	34.130	N	117.710	W	5						9	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
	01	00	03	21.2&	34.150	N	117.700	W	9						5	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
	01	00	06	29.9&	34.140	N	117.700	W	5						12	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
	01	00	11	10.7&	34.130	N	117.710	W	5						8	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
	01	00	25	37.0	36.486	N	68.860	E	33	N		4.6		1.1	26	HINDU KUSH REGION
	01	00	28	24.5	34.139	N	117.697	W	5	G				0.7	6	SOUTHERN CALIFORNIA. ML 2.6 (NEIS).
	01	00	34	57.1&	34.130	N	117.700	W	4						18	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.0 (PAS).
	01	00	39	57.2	34.198	N	117.652	W	5	G				0.6	6	SOUTHERN CALIFORNIA. ML 2.7 (NEIS).
	01	00	43	48.0*	34.107	N	117.703	W	5	G				1.2	6	SOUTHERN CALIFORNIA. ML 2.7 (NEIS).
	01	00	51	50.9%	40.575	N	23.737	E	10	G				0.7	6	GREECE. ML 2.2 (THE).
	01	00	55	44.6	34.225	N	117.654	W	5	G				0.2	6	SOUTHERN CALIFORNIA. ML 2.6 (NEIS).
	01	01	08	30.9	34.204	N	117.679	W	5	G				0.8	6	SOUTHERN CALIFORNIA. ML 2.8 (NEIS).
	01	01	35	48.9&	34.130	N	117.710	W	6						9	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
	01	01	39	56.8&	34.140	N	117.720	W	9						12	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
	01	01	41	43.7&	34.120	N	117.690	W	6						9	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
	01	01	41	47.3&	34.160	N	117.690	W	6						2	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
	01	02	00	22.5&	34.130	N	117.700	W	5						7	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
a	01	02	23	23.1	53.340	N	160.030	E	27	D		5.4	5.6	1.2	239	NEAR EAST COAST OF KAMCHATKA. Ms 5.3 (BRK). Felt (IV) at Petropavlavsk-Kamchatskiy.
	01	02	45	27.3	34.147	N	117.681	W	5	G				0.6	6	SOUTHERN CALIFORNIA. ML 2.5 (NEIS).
	01	03	08	45.1&	34.130	N	117.700	W	5						7	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
	01	03	23	03.0&	34.150	N	117.720	W	11			4.3			52	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.7 (PAS), 4.8 (BRK). Felt throughout the Los Angeles-Long Beach-Riverside area.
	01	03	29	26.4*	38.834	N	14.305	E	10	G				0.7	5	SICILY
	01	03	31	14.9&	34.150	N	117.720	W	12						8	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
	01	03	57	07.5	40.918	N	22.217	E	9					1.2	35	GREECE. ML 3.5 (SKO), 3.2 (THE). MD 3.6 (ATH).
	01	04	04	30.7	46.641	N	12.490	E	10	G				1.2	12	NORTHERN ITALY. ML 2.3 (KBA).
	01	04	06	07.8?	46.79	N	12.38	E	10	G				1.4	5	NORTHERN ITALY
	01	04	28	50.5*	2.825	S	79.678	W	47	?		4.3		1.3	19	NEAR COAST OF ECUADOR
	01	05	39	39.8&	47.774	N	120.957	W	1						59	WASHINGTON. <SEA>. CL 3.1 (SEA).
	01	07	34	49.0	51.269	N	175.181	W	33	N		4.9	4.9	0.9	44	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.6 (PMR). Felt (III) an Adak.
a	01	07	35	21.0	51.218	N	175.214	W	33	N		4.9	4.6	1.1	55	ANDREANOF ISLANDS, ALEUTIAN IS.
	01	10	55	24.3?	0.30	S	78.93	W	33	N				0.8	6	ECUADOR
	01	11	27	28.2*	51.094	N	175.101	W	33	N		4.4	4.4	1.1	26	ANDREANOF ISLANDS, ALEUTIAN IS.
	01	12	06	53.5	40.533	N	23.753	E	10	G				0.8	11	GREECE. ML 2.3 (THE).
	01	12	11	55.6?	33.02	S	72.18	W	10	G				0.6	6	OFF COAST OF CENTRAL CHILE
	01	12	12	02.7?	48.80	N	8.98	E	10	G				0.4	4	GERMANY. MD 1.0 (STR).
	01	12	46	42.9&	60.996	N	149.438	W	36						30	KENAI PENINSULA, ALASKA. <AGS-P>.
	01	13	22	38.0	39.811	N	20.704	E	5	G				1.0	23	GREECE-ALBANIA BORDER REGION. MD 3.4 (ATH). ML 3.1 (THE).
	01	13	25	34.4	51.851	N	175.989	W	49	D		5.3	4.6	1.0	112	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.1 (PMR). Felt (IV) an Adak.
	01	14	29	39.4?	31.43	S	69.34	W	33	N				1.0	5	SAN JUAN PROVINCE, ARGENTINA
	01	14	43	54.3&	36.637	N	121.288	W	3						16	CENTRAL CALIFORNIA. <BRK>. ML 2.7 (BRK).
	01	15	06	30.1?	41.95	N	24.75	E	10	G				0.6	6	GREECE-BULGARIA BORDER REGION. ML 2.7 (THE).
	01	15	39	08.5%	43.419	N	5.448	E	5	G				1.0	9	NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).
a	01	16	06	00.8	7.892	S	121.112	E	39	D		5.5	4.9	1.2	90	FLORES SEA. Felt strongly on the ship USNS Harkness at 08° 01.5' S, 121° 21.9' E. Felt at Lambego, Macan Islands.
	01	16	24	38.7%	15.725	N	61.302	W	33	N				1.2	6	LEEWARD ISLANDS. ML 2.9 (FDF).
	01	17	58	27.1*	44.034	N	11.036	E	10	G				0.3	5	NORTHERN ITALY
	01	18	47	26.7?	28.50	N	88.60	E	33	N		4.3		1.3	9	TIBET
	01	20	01	20.0	40.147	N	25.217	E	10	G				1.2	19	AEGEAN SEA. ML 2.9 (THE).
	01	20	32	14.1&	34.130	N	117.700	W	5						13	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
	01	20	55	05.6	16.723	N	60.947	W	42			5.4	4.6	0.8	288	LEEWARD ISLANDS. Felt (III) on Guadeloupe.
	01	21	15	46.7?	3.46	S	80.85	W	33	N				0.4	7	PERU-ECUADOR BORDER REGION

Annual Subscriptions: Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.
Back issues: Books and Open-File Reports Section, U.S. Geological Survey, Box 25425, Denver, CO 80225.

	01	21	27	31.3	38.553	N	1.789	W	10	G		0.9	7	SPAIN. mbLg 3.3 (MDD).
	01	21	29	06.6&	38.363	N	118.920	W	9				22	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.8 (BRK).
a	01	21	40	58.9	30.614	N	131.099	E	58	*	5.1 5.0	1.2	80	KYUSHU, JAPAN
	01	22	56	42.4	14.004	S	34.209	E	10	G	4.9 4.7	0.8	25	MALAWI. mbLg 4.2 (BUL).
	01	22	59	26.9*	15.710	S	174.485	W	33	N	5.0 5.2	1.2	44	TONGA ISLANDS. Ms 5.2 (BRK).
	01	23	01	10.7	39.789	N	5.719	E	10	G		1.2	75	WESTERN MEDITERRANEAN SEA. ML 3.6 (LDG), MD 3.6 (STR
	02	00	00	11.4*	34.158	N	117.685	W	10	G		0.2	6	SOUTHERN CALIFORNIA. ML 2.9 (NEIS).
	02	01	19	32.9*	42.837	N	0.188	E	10	G		1.5	11	PYRENEES. ML 2.9 (LDG). Felt (II) at Bagneres de Bigarre, France.
	02	01	36	26.3	72.527	N	3.007	E	10	G	4.6	1.1	34	NORWEGIAN SEA
	02	02	22	53.2?	32.24	S	175.85	E	33	N	3.8	1.0	12	NORTH OF NEW ZEALAND
	02	02	40	49.3?	33.56	S	72.09	W	27	*		0.9	9	OFF COAST OF CENTRAL CHILE
	02	03	04	00.6*	0.243	S	125.151	E	80	*	4.6	1.4	14	MOLUCCA SEA
	02	03	15	36.2	51.695	N	16.308	E	10	G		0.5	18	POLAND. ML 3.9 (KBA).
	02	03	20	04.8?	33.53	S	72.00	W	33	N		0.8	6	OFF COAST OF CENTRAL CHILE
	02	04	15	27.0&	43.300	N	102.500	W	5	G			3	SOUTH DAKOTA. <MACRO>. ML 3.2 (NEIS). Felt (IV) at Oglala and Manderson. Felt (III) at Pine Ridge.
	02	04	58	14.1*	40.166	N	24.204	E	10	G		1.1	13	AEGEAN SEA. ML 2.4 (THE).
	02	05	26	17.8*	6.986	S	155.769	E	286	*	4.6	1.1	21	SOLOMON ISLANDS
	02	06	11	23.5%	46.255	N	7.429	E	10	G		1.0	9	SWITZERLAND
	02	07	01	47.7	38.868	N	89.219	W	10	G		0.7	12	SOUTHERN ILLINOIS. mbLg 3.6 (NEIS). Felt (V) at Greenville, Hagarstown, Saint Peter, Smithboro and Vernon; (IV) at Alma, Keyesport, Odin and Shabonier; (III) at Altamont, Ashley, Beecher City, Carlyle, Clay City, Edgewood, Effingham, Farina, Flora, Kinmundy, Mason, Okawville, Pataka, Ramsey, Saint Elmo, Salem and Vandalia.
	02	07	35	36.8*	18.021	S	178.674	W	620	?	5.0	0.8	38	FIJI ISLANDS REGION
	02	07	48	17.3*	36.796	N	6.312	E	10	G	3.6	1.2	41	ALGERIA. ML 4.2 (LDG).
	02	08	11	32.0*	32.837	S	178.626	E	49	D	5.0	0.9	18	SOUTH OF KERMADEC ISLANDS
	02	09	30	01.0%	44.084	N	7.650	E	10	G		0.6	5	NORTHERN ITALY. ML 1.7 (GEN).
	02	09	52	19.0*	5.267	S	102.850	E	33	N	4.8 3.7	1.0	13	SOUTHERN SUMATERA
	02	09	52	53.0*	38.128	N	28.905	E	10	G		1.6	6	TURKEY
	02	10	35	24.9?	39.17	N	27.63	E	10	G		0.6	4	TURKEY
	02	11	25	16.4*	33.135	S	71.984	W	10	G		1.4	11	NEAR COAST OF CENTRAL CHILE
	02	11	31	41.4*	20.039	N	122.014	E	32		4.1	0.9	10	PHILIPPINE ISLANDS REGION
	02	11	50	00.0?	44.47	N	7.17	E	11	G		0.2	4	NORTHERN ITALY. ML 1.5 (GEN).
	02	13	02	58.9?	33.56	S	71.97	W	33	N		1.0	5	NEAR COAST OF CENTRAL CHILE
	02	13	15	08.6%	44.589	N	7.394	E	10	G		0.2	5	NORTHERN ITALY
	02	13	17	42.3	42.572	N	23.832	E	10	G		1.4	11	BULGARIA. ML 2.9 (THE).
	02	13	26	00.7?	11.02	N	61.85	W	33	N		1.2	5	WINDWARD ISLANDS. MD 3.1 (TRN).
	02	15	07	29.6	36.133	N	139.964	E	68		4.9	1.0	31	HONSHU, JAPAN
	02	16	20	34.1	46.311	N	7.386	E	10	G		1.0	32	SWITZERLAND. ML 3.0 (LDG).
	02	16	50	03.7*	0.954	S	77.399	W	33	N		0.8	6	ECUADOR
	02	17	25	08.8	56.808	N	33.969	W	10	G	4.7 3.7	0.9	40	NORTH ATLANTIC OCEAN
	02	17	26	25.4&	34.140	N	117.690	W	6		4.5		51	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.6 (PAS), 4.6 (BRK Felt in the Los Angeles area.
	02	18	08	35.1	39.045	N	23.667	E	24		4.4	1.4	152	AEGEAN SEA. ML 4.3 (ATH), 4.1 (THE). Felt at Athens, Volos, Larisa and an Evvoia.
	02	18	43	15.3	39.100	N	23.566	E	10	G		1.1	14	AEGEAN SEA. ML 3.0 (ATH), 2.7 (THE).
	02	19	08	04.1?	1.21	S	77.31	W	33	N		1.5	9	ECUADOR
a	02	22	06	25.2	21.934	S	174.135	W	33	N	5.4 4.9	1.0	74	TONGA ISLANDS
	02	22	52	04.7	40.219	N	25.220	E	10	G		0.4	6	AEGEAN SEA. MD 3.3 (ATH).
	02	23	19	21.5*	40.191	N	25.203	E	10	G		0.9	5	AEGEAN SEA. MD 2.9 (ATH).
	02	23	31	39.4*	5.284	S	151.395	E	33	N	4.4 3.5	1.3	14	NEW BRITAIN REGION
	02	23	37	04.0?	45.04	N	152.53	E	33	N	4.7	0.7	12	KURIL ISLANDS REGION
	02	23	42	29.6*	32.190	S	71.733	W	33	N		0.8	7	NEAR COAST OF CENTRAL CHILE
	03	00	14	50.1&	61.751	N	151.706	W	84		3.5		52	SOUTHERN ALASKA. <AGS-P>.
	03	01	36	06.9*	36.053	N	21.444	E	33	N		1.3	15	SOUTHERN GREECE. ML 3.4 (ATH).
	03	02	00	34.0	35.622	N	26.746	E	10	G		0.8	7	CRETE. MD 3.5 (ATH).
	03	02	25	39.0	8.484	S	159.138	E	106	*	5.0	1.0	23	SOLOMON ISLANDS
	03	04	26	53.9?	62.37	N	5.27	E	10	G		1.1	5	SOUTHERN NORWAY. MD 1.0 (BER).
	03	04	42	31.0	35.293	N	23.063	E	68	*	3.6	1.1	28	CRETE. MD 3.8 (ATH).
	03	04	59	46.7*	5.174	S	151.217	E	33	*	4.5 3.8	1.5	12	NEW BRITAIN REGION
a	03	05	11	33.7	32.097	N	139.619	E	143	D	5.3	0.9	187	SOUTH OF HONSHU, JAPAN
	03	06	22	29.3?	40.16	N	106.34	E	33	N	3.9	0.2	5	NORTHERN CHINA. ML 3.8 (BJI).
	03	06	25	22.5	20.557	N	143.842	E	68	*	4.9	1.1	36	MARIANA ISLANDS REGION
	03	07	29	17.2*	26.988	S	26.732	E	5	G		1.5	7	REPUBLIC OF SOUTH AFRICA. mbLg 3.6 (BUL).
	03	07	40	55.0*	40.205	N	25.188	E	10	G		1.3	5	AEGEAN SEA. ML 3.1 (ATH).
	03	08	26	00.2	24.302	N	66.368	E	33	N	4.5	1.3	20	PAKISTAN
	03	08	41	44.2	16.128	N	94.307	W	88		5.4	0.7	173	OAXACA, MEXICO
	03	09	36	22.8	40.890	N	22.921	E	10	G		0.8	7	GREECE. ML 2.3 (SKO), 2.2 (THE).
	03	10	11	56.2	11.742	S	73.903	W	52	*	4.7	0.9	26	PERU
	03	11	08	59.5&	60.652	N	151.093	W	47		2.5		35	KENAI PENINSULA, ALASKA. <AGS-P>.
	03	11	58	31.0*	17.172	S	172.550	W	45	D	5.0	1.3	27	TONGA ISLANDS REGION
f	03	12	16	27.9	22.122	S	175.163	E	33	G	6.3 7.4	1.3	322	SOUTH OF FIJI ISLANDS. Ms 7.4 (BRK), 7.1 (PAS). Mo=4.0*10**20 Nm (PPT). Depth from broadband displacement seismograms.
	03	12	34	59.2	21.557	S	175.753	E	33	N	5.6 6.2	1.0	75	SOUTH OF FIJI ISLANDS
	03	12	44	22.4	22.405	S	174.164	E	33	N	6.1 6.6	1.0	156	LOYALTY ISLANDS REGION
	03	13	04	03.9?	46.16	N	154.40	E	33	N	4.6	1.3	12	KURIL ISLANDS REGION
	03	13	11	38.2	38.385	N	21.918	E	10	G		1.4	7	GREECE. ML 3.0 (ATH).
	03	13	18	28.8?	21.27	S	174.15	E	33	N	4.3	1.5	9	VANUATU ISLANDS REGION
	03	13	37	31.6?	21.00	S	174.67	E	33	N	4.5	1.0	12	VANUATU ISLANDS REGION
	03	13	43	15.1?	21.43	S	176.04	E	33	N	4.1	0.9	8	SOUTH OF FIJI ISLANDS
	03	13	52	30.4?	21.18	S	175.30	E	33	N	4.2	1.3	7	SOUTH OF FIJI ISLANDS
	03	14	24	44.6%	41.124	N	28.464	E	10	G		0.3	5	TURKEY
	03	14	30	43.6%	40.880	N	28.399	E	10	G		0.6	5	TURKEY
	03	14	42	07.2	22.273	S	175.301	E	33	N	4.7	1.1	15	SOUTH OF FIJI ISLANDS
	03	14	43	55.8?	51.00	N	179.71	E	33	N	5.1	1.2	10	RAT ISLANDS, ALEUTIAN ISLANDS
	03	14	57	04.2*	21.376	S	176.053	E	33	N	4.8	1.2	16	SOUTH OF FIJI ISLANDS
	03	15	35	32.6*	22.084	S	174.148	E	33	N	3.8	0.7	14	LOYALTY ISLANDS REGION
	03	15	54	44.4*	21.158	S	175.282	E	33	N	4.4	1.3	20	SOUTH OF FIJI ISLANDS

	03	16	51	24.4?	28.61	S	69.90	W	155	?		1.5	8	CHILE-ARGENTINA BORDER REGION
	03	16	53	44.1&	60.075	N	141.896	W	0				5	SOUTHEASTERN ALASKA. <AGS-P>.
	03	17	03	15.9*	21.118	S	174.988	E	33	N	5.1	1.5	24	VANUATU ISLANDS REGION
	03	17	15	33.5*	52.272	N	169.029	W	33	N	4.9	1.3	33	FOX ISLANDS, ALEUTIAN ISLANDS
	03	17	22	11.2?	21.89	S	175.28	E	33	N	4.5	1.3	10	SOUTH OF FIJI ISLANDS
	03	17	55	06.7?	21.29	S	175.90	E	33	N	3.9	1.4	6	SOUTH OF FIJI ISLANDS
	03	17	57	46.4*	21.944	S	174.911	E	33	N	4.2	1.0	17	VANUATU ISLANDS REGION
	03	18	32	50.5	21.721	S	175.344	E	33	N	5.3 5.0	0.9	106	SOUTH OF FIJI ISLANDS
	03	19	01	56.4*	9.697	N	124.760	E	39	*	4.9 4.2	1.2	35	MINDANAO, PHILIPPINE ISLANDS
	03	19	03	31.6	36.043	N	27.208	E	10	G		1.3	7	DODECANESE ISLANDS. MD 3.5 (ATH).
	03	19	21	02.2*	21.292	S	174.978	E	33	N	4.4	1.2	22	VANUATU ISLANDS REGION
	03	19	29	01.7	21.683	S	175.569	E	33	N	5.1 4.8	1.1	85	SOUTH OF FIJI ISLANDS
	03	19	44	26.7	22.501	S	174.205	E	33	N	5.0 4.7	1.1	72	LOYALTY ISLANDS REGION
	03	20	09	23.5&	59.996	N	151.621	W	73				30	KENAI PENINSULA, ALASKA. <AGS-P>.
	03	20	41	11.3*	33.000	S	70.809	W	79	?		0.6	9	CHILE-ARGENTINA BORDER REGION
	03	21	26	25.0*	22.151	S	174.166	W	33	N	5.1 4.8	1.2	30	TONGA ISLANDS REGION
	03	22	02	46.4?	43.82	N	16.38	E	10	G		0.8	23	YUGOSLAVIA. ML 4.8 (LDG).
	04	00	00	35.9?	21.43	S	175.95	E	33	N	4.1	1.5	7	SOUTH OF FIJI ISLANDS
	04	00	07	08.9*	73.032	N	7.080	E	10	G	4.7	1.3	15	GREENLAND SEA
	04	00	18	47.1	52.828	N	1.994	W	10	G		1.3	17	UNITED KINGDOM. ML 3.3 (LDG).
	04	00	22	35.3	44.892	N	6.671	E	10	G		0.7	49	FRANCE. ML 3.0 (LDG).
	04	01	12	59.5	21.864	S	175.355	E	33	N	5.0	1.2	27	SOUTH OF FIJI ISLANDS
	04	01	40	27.7?	34.35	N	14.84	W	10	G		0.8	5	MADEIRA ISLANDS REGION. MD 3.6 (RBA).
	04	01	51	13.2?	9.87	N	124.89	E	33	N	4.6	1.1	10	MINDANAO, PHILIPPINE ISLANDS
	04	01	56	59.4%	44.233	N	7.294	E	10	G		0.8	5	NORTHERN ITALY. ML 2.2 (GEN).
	04	01	57	11.2	36.113	N	27.249	E	10	G		0.3	6	DODECANESE ISLANDS. MD 3.3 (ATH).
	04	02	46	04.4*	21.103	S	175.485	E	33	N	4.9	1.3	9	SOUTH OF FIJI ISLANDS
	04	03	49	06.8?	22.10	S	175.55	E	33	N		0.9	7	SOUTH OF FIJI ISLANDS
	04	04	08	46.1*	21.654	S	175.782	E	33	N	4.5	1.0	6	SOUTH OF FIJI ISLANDS
	04	04	23	48.1*	7.227	N	82.363	W	10	G	4.3 3.4	1.3	8	SOUTH OF PANAMA. MD 4.4 (UPA).
	04	04	38	30.1*	41.254	N	20.093	E	10	G		0.8	5	ALBANIA. ML 2.0 (SKO).
	04	05	19	41.7	51.254	N	15.686	E	5	G		0.9	15	POLAND. ML 4.0 (KBA), 3.8 (VKA), 3.8 (GRF).
	04	06	04	00.2*	28.543	N	139.802	E	466	?	4.2	1.1	16	BONIN ISLANDS REGION
	04	06	35	30.9	7.823	N	135.782	E	33	N	5.1 4.3	1.0	57	WEST CAROLINE ISLANDS
	04	08	33	22.5*	11.586	S	73.776	W	33	N	3.8	0.7	6	PERU
	04	08	39	29.0	21.963	S	175.233	E	33	N	4.6	1.1	47	SOUTH OF FIJI ISLANDS
	04	08	55	35.5?	11.95	S	75.65	W	33	N		0.7	4	PERU
	04	09	18	38.8*	7.919	N	74.578	W	79	*	4.6	1.0	9	NORTHERN COLOMBIA
	04	10	09	02.4?	20.07	S	177.16	E	33	N	4.6	0.7	5	SOUTH OF FIJI ISLANDS
	04	11	51	11.4	34.616	N	79.849	E	33	N	4.7 4.2	1.1	53	KASHMIR-TIBET BORDER REGION
	04	12	28	08.6*	59.950	N	153.363	W	153	*	3.3	0.5	9	SOUTHERN ALASKA
	04	12	28	25.2	22.481	S	174.512	E	33	N	4.5	1.2	25	LOYALTY ISLANDS REGION
	04	12	57	40.8?	44.68	N	140.97	E	253	?	4.4	0.8	9	EASTERN SEA OF JAPAN
	04	13	24	06.8	21.247	S	67.758	W	200	*	4.6	1.5	38	CHILE-BOLIVIA BORDER REGION
	04	14	48	12.5?	23.31	S	176.26	E	33	N	4.5	1.4	8	SOUTH OF FIJI ISLANDS
	04	14	50	42.0*	17.047	S	64.880	W	33	N	4.6	1.3	10	BOLIVIA
	04	15	07	41.8	34.088	N	117.703	W	5	G		0.6	8	SOUTHERN CALIFORNIA. ML 2.7 (NEIS).
	04	15	08	17.7	40.864	N	22.958	E	10	G		0.3	6	GREECE. ML 2.1 (THE), 1.7 (SKO).
	04	15	42	04.8	37.737	N	21.132	E	10	G	4.4	1.3	28	SOUTHERN GREECE. ML 3.8 (THE), 3.4 (ATH).
	04	16	06	11.3	39.393	N	23.621	E	10	G		0.6	13	AEGEAN SEA. MD 3.2 (ATH), ML 3.1 (THE).
	04	16	24	27.1	10.707	N	126.257	E	33	N	4.5	0.7	20	PHILIPPINE ISLANDS REGION
	04	16	30	52.0*	20.069	S	69.311	W	125	*	4.2	1.7	8	NORTHERN CHILE
	04	16	45	15.7&	34.120	N	117.680	W	4				21	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
	04	16	46	25.4	44.560	N	6.876	E	5	G		0.5	13	FRANCE. ML 2.5 (GEN).
a	04	17	21	59.0	15.539	S	167.568	E	141		5.4	0.9	204	VANUATU ISLANDS
	04	19	40	28.1*	21.267	S	175.939	E	33	N	4.9	1.2	16	SOUTH OF FIJI ISLANDS
f	04	19	46	19.6	28.925	N	66.331	E	10	D	5.8 6.1	1.2	339	PAKISTAN. At least 11 people killed, about 40 injured and many homes and buildings damaged in the Kalat area. Also felt at Quetta and Mostung. Complex event, observed on broadband displacement seismograms.
	04	20	18	52.6*	28.986	N	66.649	E	54	?	4.3	1.5	16	PAKISTAN
	04	20	34	56.2	28.703	N	66.175	E	10	G	4.7	1.1	62	PAKISTAN. Felt at Kalat.
	04	21	02	32.6*	12.987	N	50.555	E	10	G	4.8	1.3	22	EASTERN GULF OF ADEN
	04	22	12	40.3*	21.276	S	175.960	E	33	N	4.5	1.4	20	SOUTH OF FIJI ISLANDS
	04	23	09	01.4?	13.33	N	50.36	E	10	G	4.7	1.3	15	EASTERN GULF OF ADEN
	04	23	42	07.6*	28.967	N	66.574	E	33	N	4 4	1.3	11	PAKISTAN
	05	01	20	23.0	38.390	N	25.052	E	13			0.8	40	AEGEAN SEA. ML 3.7 (ATH), 3.5 (THE).
	05	02	45	52.9?	28.58	N	66.53	E	33	N	4.2	1.2	6	PAKISTAN
	05	02	59	42.4	38.211	N	40.571	E	33	N	4.4	1.2	30	TURKEY. Felt in the Diyarbokir area.
	05	04	05	34.4*	33.423	S	71.896	W	33	N		0.9	8	NEAR COAST OF CENTRAL CHILE
	05	04	37	02.8	36.514	N	7.799	W	10	G		1.0	15	STRAIT OF GIBRALTAR. mbLg 3.4 (MDD).
	05	04	59	07.3*	19.696	S	175.216	W	261	?	4.6	1.2	28	TONGA ISLANDS
	05	06	06	19.1*	29.459	S	70.416	W	96	*	4.4	1.3	20	CENTRAL CHILE
	05	06	13	06.8	20.730	N	143.838	E	22	D	5.0 4.1	1.1	82	MARIANA ISLANDS REGION
	05	06	32	11.6?	5.93	N	78.98	W	33	N	4.6	1.4	12	SOUTH OF PANAMA
	05	06	50	56.2	43.401	N	110.717	W	5	G	3.5	0.7	34	WYOMING. ML 3.9 (NEIS), 4.1 (BUT). Felt (IV) at Wilson and (III) at Moran. Felt (III) at Irwin and Swan Valley, Idaho. Also felt at Jackson, Wyoming.
	05	07	00	48.3*	20.699	N	143.764	E	33	N	4.7	1.0	17	MARIANA ISLANDS REGION
	05	07	30	53.1	17.768	N	65.668	W	10	G		1.0	11	PUERTO RICO REGION
	05	07	54	43.8*	28.960	S	70.968	W	33	N		1.5	9	CENTRAL CHILE
	05	08	06	55.1	20.702	N	143.820	E	23	D	4.9	1.1	38	MARIANA ISLANDS REGION
	05	08	14	52.9&	60.158	N	153.087	W	133				30	SOUTHERN ALASKA. <AGS-P>.
	05	08	26	27.3*	13.126	N	50.423	E	10	G	4.8	1.1	33	EASTERN GULF OF ADEN
	05	11	59	19.6%	39.136	N	27.696	E	10	G		1.3	5	TURKEY
	05	12	58	21.8*	26.341	S	127.880	E	10	G		1.2	7	WESTERN AUSTRALIA
	05	14	13	05.4&	60.089	N	152.913	W	111		4.1		55	SOUTHERN ALASKA. <AGS-P>.
	05	15	57	18.1	5.309	S	146.405	E	185		5.0	0.6	38	EAST PAPUA NEW GUINEA REGION
	05	16	15	40.0?	15.02	N	99.25	W	33	N		0.7	5	OFF COAST OF GUERRERO, MEXICO
f	05	16	38	12.5	18.318	S	168.063	E	21	G	5.6 7.0	1.2	335	VANUATU ISLANDS. Ms 7.0 (BRK), 6 8 (PAS). Mo=6.0*10**19 Nm (PPT). Felt (V) at Port Vila. Depth from broadband displacement seismograms.
	05	16	51	22.7*	18.200	S	168.109	E	33	N	4.7	1.2	20	VANUATU ISLANDS

	05	17	10	39.5	18.353	S	168.013	E	34	•	5.4		1.2	114	VANUATU ISLANDS
	05	18	01	23.5*	38.576	N	12.840	E	10	G			0.8	9	SICILY
	05	18	18	01.9	18.195	S	168.046	E	45	D	4.4		1.2	32	VANUATU ISLANDS
	05	19	16	42.9*	18.437	S	168.061	E	10	G	4.4		1.2	20	VANUATU ISLANDS
	05	20	02	31.6*	3.668	N	126.393	E	33	N	4.6		0.8	10	TALAUD ISLANDS
a	05	20	47	00.7	36.907	N	73.021	E	12	G	5.8	6.0	1.1	439	NORTHWESTERN KASHMIR. Felt (IV) at Kharag, Ishkashim and Murgab; (III) at Rushan and Kulyab, USSR. Also felt at Chitral, Pakistan. Depth from broadband displacement seismograms.
	05	20	51	13.0	36.738	N	73.061	E	10	G	5.7		1.4	67	NORTHWESTERN KASHMIR
	05	20	51	14.4?	39.84	N	23.84	E	10	G			0.5	5	AEGEAN SEA
	05	20	55	24.1	29.22*	N	141.848	E	33	N	5.1		1.4	35	SOUTH OF HONSHU, JAPAN
	05	21	02	42.8	35.350	N	135.477	E	369		4.5		0.7	58	SOUTHERN HONSHU, JAPAN
	05	21	34	20.7*	14.834	S	167.292	E	148	?	4.6		1.2	54	VANUATU ISLANDS
	05	23	04	22.1	36.770	N	73.030	E	20	D	5.0	4.9	1.3	125	NORTHWESTERN KASHMIR. Felt (II) at Ishkashim and Khorog, USSR.
	06	00	23	50.2*	44.287	N	112.836	W	5	G			1.1	8	EASTERN IDAHO. ML 3.1 (BUT).
	06	01	19	57.3*	36.679	N	73.073	E	10	G	4.6		0.8	10	NORTHWESTERN KASHMIR
	06	02	26	54.0	44.231	N	6.693	E	10	G			0.6	13	FRANCE. ML 2.4 (GEN), 2.2 (LDG).
	06	02	44	10.4%	37.331	N	2.097	W	10	G			0.4	5	SPAIN. mbLg 2.7 (MDD).
	06	02	49	25.3*	51.243	N	15.827	E	10	G			1.4	10	POLAND. ML 3.6 (GRF), 3.5 (VKA), 3.2 (KBA), 2.8 (KRA).
	06	02	59	42.8*	14.887	N	60.194	W	33	N			0.6	10	WINDWARD ISLANDS. ML 3.2 (FDF).
	06	04	17	56.8	33.423	S	69.999	W	114		3.9		0.8	19	CHILE-ARGENTINA BORDER REGION
	06	04	36	18.3?	41.07	N	23.43	E	10	G			0.8	4	GREECE-BULGARIA BORDER REGION. ML 1.8 (THE).
	06	05	19	02.4?	25.02	N	126.86	E	33	N	4.2		1.1	12	RYUKYU ISLANDS
	06	05	22	52.7	18.178	S	168.208	E	33	N	4.9	4.6	1.0	62	VANUATU ISLANDS
	06	05	35	56.6?	25.21	N	127.04	E	33	N	4.2		0.5	10	RYUKYU ISLANDS
	06	07	12	48.1	3.841	N	126.422	E	33	N	5.0	3.6	1.0	48	TALAUD ISLANDS
	06	07	46	42.8?	37.13	N	74.00	E	33	N	4.0		1.1	9	TAJIK-XINJIANG BORDER REGION
	06	08	25	28.1*	31.329	S	68.982	W	114	?			1.4	9	SAN JUAN PROVINCE, ARGENTINA
	06	09	16	05.0*	36.881	N	72.759	E	48	•	4.7		1.4	19	AFGHANISTAN-USSR BORDER REGION
	06	09	33	18.8	42.502	N	19.330	E	10	G			0.9	12	YUGOSLAVIA. ML 2.5 (TTG).
	06	09	55	47.6%	40.454	N	29.091	E	10	G			0.2	5	TURKEY
	06	11	36	51.3?	33.67	S	72.03	W	33	N			0.6	5	OFF COAST OF CENTRAL CHILE
	06	11	40	52.7	12.124	N	143.833	E	19		4.8		0.8	31	SOUTH OF MARIANA ISLANDS
	06	12	24	43.5	20.267	S	177.882	W	552		5.0		0.9	35	FIJI ISLANDS REGION
	06	13	00	18.4	40.822	N	28.100	E	10	G	3.4		0.9	33	TURKEY. ML 3.5 (THE). Felt at Istanbul.
	06	13	22	19.9*	15.048	N	60.277	W	33	N			0.3	11	LEEWARD ISLANDS. ML 2.8 (FDF).
a	06	13	30	58.4	11.147	S	117.440	E	22	D	5.6	4.8	1.2	165	SOUTH OF SUMBAWA ISLAND. Felt (III) at Kahang-Kahang, Bali.
	06	13	43	51.7*	35.705	N	141.000	E	33	N	4.6		0.9	12	NEAR EAST COAST OF HONSHU, JAPAN
	06	14	12	28.5%	39.085	N	27.576	E	10	G			1.0	5	TURKEY
	06	14	26	10.2*	18.617	S	167.900	E	33	N	4.9		1.2	38	VANUATU ISLANDS
	06	15	07	53.4*	23.747	N	121.990	E	33	N	3.7		0.9	7	TAIWAN
	06	15	25	04.1	10.991	S	119.474	E	33	N	5.0		1.2	58	SUMBA ISLAND REGION
	06	16	06	38.3	22.367	N	122.757	E	33	N	4.2		1.2	19	TAIWAN REGION
	06	16	15	25.6*	34.203	S	176.800	E	10	G	3.8		0.9	13	NORTH OF NEW ZEALAND
	06	17	07	10.8?	38.19	N	23.26	E	10	G			1.2	4	GREECE. ML 2.3 (ATH).
	06	17	16	22.9?	37.36	N	73.33	E	33	N	4.6		1.4	9	TAJIK SSR
	06	18	01	48.0	34.133	N	117.679	W	5	G			0.5	10	SOUTHERN CALIFORNIA. ML 3.5 (NEIS).
a	06	18	07	04.7	36.909	N	73.038	E	20	D	5.0	4.9	1.4	132	NORTHWESTERN KASHMIR
	06	18	17	37.9%	45.101	N	2.889	E	10	G			1.3	10	FRANCE. ML 2.3 (LDG).
	06	18	22	12.7*	36.954	N	73.460	E	10	G	4.1		1.0	12	NORTHWESTERN KASHMIR
	06	19	02	04.2*	43.326	N	127.493	W	10	G			0.4	52	OFF COAST OF OREGON. CL 3.2 (SEA).
	06	19	05	08.4%	33.445	S	70.895	W	33	N			0.8	5	CHILE-ARGENTINA BORDER REGION
	06	20	32	35.3?	36.17	N	71.38	E	33	N			0.6	8	AFGHANISTAN-USSR BORDER REGION
	06	21	09	56.2	41.053	N	22.428	E	10	G			0.7	8	YUGOSLAVIA. ML 2.1 (THE), 1.7 (SKO).
	06	21	11	08.2	42.632	N	140.982	E	156		4.5		1.1	37	HOKKAIDO, JAPAN REGION
a	06	21	39	50.2	36.913	N	73.095	E	24	D	5.2	4.7	1.0	183	NORTHWESTERN KASHMIR
	06	22	58	45.9%	17.016	N	99.790	W	10	G			1.2	6	GUERRERO, MEXICO. Felt at Acapulco.
	06	23	13	01.7	44.064	N	7.243	E	10	G			0.3	15	NORTHERN ITALY. ML 2.3 (GEN), 2.1 (LDG). MD 1.7 (STR).
	06	23	28	51.6*	21.435	S	175.819	E	50	D	5.1		1.1	39	SOUTH OF FIJI ISLANDS
	07	00	48	13.5?	31.75	S	69.90	W	33	N			0.8	5	SAN JUAN PROVINCE, ARGENTINA
	07	01	31	10.8	38.615	N	14.367	E	16				0.9	16	SICILY
	07	02	13	31.0	33.802	S	70.079	W	109		4.8		1.0	29	CHILE-ARGENTINA BORDER REGION. Felt (III) at Valparaiso, Chile.
a	07	02	16	18.2	3.517	N	126.702	E	85	•	5.1		1.2	62	TALAUD ISLANDS
	07	02	32	52.9	40.494	N	22.666	E	10	G			1.1	18	GREECE. ML 3.1 (SKO), 2.9 (THE). MD 3.3 (ATH).
	07	02	47	40.4	40.431	N	29.110	E	10	G			0.5	15	TURKEY
	07	03	19	11.3%	12.777	S	76.730	W	10	G			0.6	5	NEAR COAST OF PERU
	07	03	27	04.6?	45.09	N	7.31	E	10	G			1.0	4	NORTHERN ITALY. ML 2.0 (GEN).
	07	04	18	21.4*	41.138	N	22.625	E	10	G			1.2	9	YUGOSLAVIA. ML 1.7 (SKO).
	07	05	25	41.9?	32.92	S	72.39	W	10	G			0.2	7	OFF COAST OF CENTRAL CHILE
	07	05	56	31.3*	29.080	N	130.107	E	33	N	4.1		1.0	10	RYUKYU ISLANDS
	07	06	50	03.5	45.703	N	26.492	E	162		3.2		0.8	19	ROMANIA
	07	07	11	03.2%	44.144	N	7.930	E	10	G			0.5	7	NORTHERN ITALY. ML 2.3 (GEN).
	07	07	16	36.7&	37.468	N	118.620	W	11					28	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 4.0 (BRK). Felt (III) at Benton and Bishop, California.
	07	07	20	48.2*	1.835	N	127.507	E	33	N	4.9		0.9	13	HALMAHERA
	07	08	56	30.8%	43.413	N	5.453	E	10	G			0.5	7	NEAR SOUTH COAST OF FRANCE. MD 2.6 (STR).
	07	09	06	47.5	22.151	S	174.949	E	33	N	5.2	3.9	1.0	71	LOYALTY ISLANDS REGION
	07	09	55	41.2%	39.099	N	27.626	E	10	G			0.1	5	TURKEY
	07	10	17	59.7*	31.848	S	69.213	W	33	N			1.2	8	SAN JUAN PROVINCE, ARGENTINA
	07	13	00	31.5	22.051	S	175.246	E	33	N	4.7		1.5	40	SOUTH OF FIJI ISLANDS
	07	13	07	47.9*	39.141	N	20.099	E	10	G			1.1	6	GREECE-ALBANIA BORDER REGION. MD 2.8 (ATH).
	07	13	31	59.0*	20.933	S	178.780	W	578	•	4.9		0.9	25	FIJI ISLANDS REGION
	07	13	58	14.7%	17.652	N	100.716	W	10	G			0.7	5	GUERRERO, MEXICO
	07	14	51	58.0	42.578	N	24.163	E	5	G			1.2	18	BULGARIA. ML 2.9 (THE).
	07	15	31	23.5%	60.408	N	5.007	E	10	G			0.4	7	SOUTHERN NORWAY. MD 1.2 (BER).
	07	15	42	23.6%	39.600	N	28.416	E	10	G			1.1	8	TURKEY
	07	18	14	01.9*	32.093	S	70.135	W	23	•			1.3	10	CHILE-ARGENTINA BORDER REGION
a	07	18	22	03.1	17.295	S	66.675	E	10	G	5.2	5.2	1.2	66	MASCARENE ISLANDS REGION
	07	19	22	22.1?	7.44	N	124.29	E	475	?	4.3		0.6	12	MINDANAO, PHILIPPINE ISLANDS

	07	20	02	21.8	39.673	N	16.054	E	33	N		0.8	8	SOUTHERN ITALY
	07	21	14	20.7	10.384	S	110.170	E	33	N	4.4	0.4	13	SOUTH OF JAVA
	07	21	18	56.6*	27.401	S	72.116	W	33	N		0.8	14	OFF COAST OF NORTHERN CHILE
	07	21	25	04.8?	38.41	N	21.88	E	10	G		1.5	5	GREECE. ML 2.5 (THE).
	07	22	30	18.7	39.632	N	21.791	E	7			1.1	56	GREECE. ML 3.5 (ATH), 3.5 (THE).
	07	23	03	58.7&	59.569	N	152.832	W	112				38	SOUTHERN ALASKA. <AGS-P>.
	07	23	14	26.6	41.257	N	19.941	E	10	G	4.5	1.2	114	ALBANIA. ML 4.5 (SKO), 4.0 (TTG), 3.7 (THE), 3.6 (ROM). MD 4.3 (ATH). Felt (IV) at Kllajke, Krrabe, Elbasan and Tirane.
	07	23	32	04.3*	34.254	N	25.220	E	10	G	4.0	1.0	14	CRETE. MD 4.1 (ATH).
	07	23	35	19.0?	34.36	N	25.29	E	10	G		1.4	6	CRETE. MD 3.9 (ATH).
	08	00	06	06.3	40.349	N	21.556	E	10	G		0.7	9	GREECE. ML 2.5 (THE).
	08	00	11	56.4	40.569	N	105.724	E	10	G	4.6	1.0	32	NORTHERN CHINA. ML 4.7 (BJI).
	08	00	27	15.7?	31.57	S	69.39	W	129	?		1.0	11	SAN JUAN PROVINCE, ARGENTINA
	08	00	53	28.4*	41.155	N	19.987	E	10	G		1.1	8	ALBANIA. ML 2.5 (SKO).
	08	01	06	14.9	15.630	S	174.914	W	309		4.9	0.8	75	TONGA ISLANDS
	08	01	37	15.3	36.885	N	3.691	W	625		4.1	0.8	105	STRAIT OF GIBRALTAR
	08	01	51	29.5?	14.95	S	173.88	W	33	N	4.6	0.9	25	SAMOA ISLANDS REGION
	08	01	54	30.8	33.146	N	140.857	E	58	*	4.6	1.1	39	SOUTH OF HONSHU, JAPAN
	08	02	03	48.9*	5.873	S	146.521	E	123	*	4.2	1.2	13	EAST PAPUA NEW GUINEA REGION
	08	02	08	38.5	29.202	N	142.222	E	33	N	4.9 4.2	1.0	74	SOUTH OF HONSHU, JAPAN
	08	02	39	09.2*	42.907	N	11.409	W	10	G		1.1	29	NORTH ATLANTIC OCEAN. mbLg 3.5 (MDD).
	08	03	19	32.6	17.793	N	65.652	W	21		4.3	0.8	29	PUERTO RICO REGION. Felt at Humacao, Ceiba, Fajardo and San Juan.
	08	03	40	11.5	38.411	N	118.866	W	5	G		0.9	22	CALIFORNIA-NEVADA BORDER REGION. ML 3.5 (NEIS).
	08	03	59	35.2*	24.625	S	70.263	W	59	*	4.5	1.3	13	NEAR COAST OF NORTHERN CHILE. Felt (III) in the Antafagasta area.
	08	05	13	38.1*	3.417	N	126.708	E	47	D	4.6	1.3	22	TALAUD ISLANDS
	08	05	17	43.2?	42.03	N	24.93	E	10	G		0.4	6	BULGARIA. ML 2.6 (THE).
	08	05	39	03.7	49.198	N	6.896	E	10	G		1.0	6	GERMANY. MD 2.4 (UCC).
	08	06	24	46.9	32.851	S	71.658	W	17	*		0.9	13	NEAR COAST OF CENTRAL CHILE
	08	06	25	17.9&	34.130	N	117.720	W	8				22	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS). Felt in the Los Angeles area.
	08	07	05	50.6	41.283	N	20.001	E	11			1.1	36	ALBANIA. MD 3.6 (ATH). ML 3.1 (THE), 3.0 (TTG).
a	08	07	08	43.3	11.625	N	140.998	E	45	D	5.4 4.6	1.1	136	WEST CAROLINE ISLANDS
	08	07	14	58.5	45.211	N	7.155	E	10	G		1.5	21	NORTHERN ITALY. ML 2.6 (LDG), 2.5 (GEN). MD 2.5 (STR).
	08	07	36	40.7*	11.533	N	141.031	E	69	*	4.8	0.9	18	WEST CAROLINE ISLANDS
	08	08	31	39.4*	25.089	S	179.945	W	520	*	4.6	0.8	17	SOUTH OF FIJI ISLANDS
	08	09	42	19.8	36.451	N	137.641	E	10	G	4.1	1.3	15	HONSHU, JAPAN
a	08	09	47	45.3&	58.391	N	152.960	W	67		5.8		515	KODIAK ISLAND REGION. <AGS-P>. Felt (IV) at Kodiak, Lorsen Bay and Port Lions. Felt (III) at Clam Gulch, Homer, Pedro Bay and Seldovia.
	08	09	48	46.3	19.462	S	169.234	E	165		5.4	1.0	216	VANUATU ISLANDS
	08	09	59	28.4&	58.362	N	152.933	W	77				23	KODIAK ISLAND REGION. <AGS-P>.
	08	10	15	14.5	18.468	S	168.051	E	17		5.2	1.2	71	VANUATU ISLANDS
	08	10	31	30.5	45.369	N	7.902	E	5	G		0.6	8	NORTHERN ITALY. ML 2.5 (GEN).
	08	10	34	29.9*	28.393	N	130.498	E	33	N	4.1	1.1	14	RYUKYU ISLANDS
	08	10	49	27.8&	58.382	N	152.956	W	74				44	KODIAK ISLAND REGION. <AGS-P>.
	08	10	59	22.5&	58.354	N	152.936	W	87				26	KODIAK ISLAND REGION. <AGS-P>.
	08	11	03	28.3	34.102	N	118.247	W	10	G		0.4	13	SOUTHERN CALIFORNIA. ML 2.8 (NEIS). Felt in the Glendale area.
	08	11	10	56.4?	45.60	N	2.67	E	10	G		0.2	4	FRANCE. MD 1.4 (STR).
	08	11	34	29.6*	45.216	N	14.165	E	10	G		1.2	7	YUGOSLAVIA. MD 2.9 (LJU), 2.3 (TRI). ML 2.2 (KBA).
	08	11	35	58.6?	22.42	S	174.19	W	33	N	4.6	0.7	6	TONGA ISLANDS REGION
	08	12	03	08.6*	36.726	N	72.710	E	33	N	4.3	1.3	9	AFGHANISTAN-USSR BORDER REGION
	08	12	10	41.2?	42.76	N	23.78	E	10	G		0.7	6	BULGARIA. ML 2.6 (THE).
	08	13	23	10.1&	58.370	N	152.930	W	78		2.9		25	KODIAK ISLAND REGION. <AGS-P>.
	08	13	26	13.7&	58.443	N	152.728	W	64				21	KODIAK ISLAND REGION. <AGS-P>.
	08	13	30	19.9	43.459	N	127.058	W	10	G	4.5	0.7	108	OFF COAST OF OREGON
	08	13	30	37.3&	58.410	N	152.892	W	86				24	KODIAK ISLAND REGION. <AGS-P>.
	08	13	58	48.5*	10.676	S	110.255	E	33	N	4.3	1.5	5	SOUTH OF JAVA
	08	15	08	58.7%	46.703	N	2.350	E	10	G		0.5	11	FRANCE. ML 2.8 (LDG).
	08	15	19	39.4	42.570	N	13.033	E	9			0.5	12	CENTRAL ITALY
	08	16	25	24.9*	16.415	S	167.334	E	10	G	4.5 4.0	1.1	40	VANUATU ISLANDS
	08	16	52	53.2?	10.84	N	125.45	E	33	N	4.7	0.5	14	LEYTE, PHILIPPINE ISLANDS
	08	17	39	29.0*	41.307	N	20.101	E	10	G		1.5	7	ALBANIA. ML 2.5 (SKO).
	08	17	44	17.3%	46.041	N	2.932	E	10	G		0.7	6	FRANCE. ML 1.6 (LDG).
	08	17	53	13.2*	36.706	N	73.157	E	10	G	4.3	1.5	17	NORTHWESTERN KASHMIR
a	08	18	57	01.4	25.452	N	96.559	E	33	N	4.8 5.1	1.4	110	BURMA
	08	19	28	17.8	49.200	N	6.841	E	10	G		0.8	6	GERMANY. MD 2.5 (UCC).
	08	20	01	08.6	25.471	N	96.547	E	33	N	4.1	1.1	23	BURMA
	08	20	23	00.0	47.642	N	19.697	E	10	G		0.9	8	HUNGARY. ML 2.5 (BRA), 2.4 (KBA).
	08	20	24	06.5*	16.581	N	61.896	W	33	N		1.5	6	LEEWARD ISLANDS
	08	20	41	55.7?	5.22	N	127.88	E	33	N	4.8	1.1	15	PHILIPPINE ISLANDS REGION
	08	21	59	24.8%	40.096	N	15.820	E	10	G		1.0	8	SOUTHERN ITALY
	08	22	11	09.3&	48.273	N	121.757	W	2		3.2		55	WASHINGTON. <SEA>. CL 3.6 (SEA). Felt in the Darrington area.
	09	00	25	39.6&	48.273	N	121.772	W	4				31	WASHINGTON. <SEA>. CL 2.9 (SEA).
	09	00	43	12.8	40.901	N	24.026	E	10	G		0.7	13	AEGEAN SEA. MO 3.1 (ATH). ML 2.4 (SKO).
	09	01	09	51.5%	37.083	N	4.257	W	10	G		1.4	10	SPAIN. mbLg 3.1 (MDD).
	09	01	58	18.7%	37.149	N	4.499	W	10	G		1.1	8	SPAIN. mbLg 2.9 (MDD).
	09	04	26	27.8&	47.662	N	124.237	W	26				32	NEAR COAST OF WASHINGTON. <SEA>. CL 2.8 (SEA).
	09	04	58	10.8	44.120	N	10.112	E	5	G		0.9	25	NORTHERN ITALY. MD 2.9 (FIR). Felt at Fivizzano.
	09	05	12	25.6*	21.394	S	174.390	E	29	D	4.4	1.0	28	VANUATU ISLANDS REGION
	09	05	27	44.4?	22.55	S	179.94	W	583	?	4.8	0.8	10	SOUTH OF FIJI ISLANDS
	09	05	36	13.6	32.725	S	71.603	W	10	G		0.9	12	NEAR COAST OF CENTRAL CHILE
	09	07	08	00.8	40.390	N	22.050	E	10	G		1.1	12	GREECE. MD 3.3 (ATH). ML 2.5 (THE).
	09	07	09	09.2*	40.463	N	23.611	E	10	G		0.6	5	GREECE. ML 1.8 (THE).
	09	07	31	59.7	36.796	N	26.687	E	10	G		0.3	6	DODECANESE ISLANDS. MD 3.5 (ATH).
	09	07	33	09.4	16.081	N	61.533	W	10	G		0.7	9	LEEWARD ISLANDS. ML 2.3 (FDF).
	09	08	11	01.4*	1.683	S	78.390	W	155		3.9	1.1	17	ECUADOR
	09	08	13	20.8*	32.378	N	140.831	E	75	*	4.6	1.0	24	SOUTH OF HONSHU, JAPAN
	09	09	47	58.0*	24.717	S	179.571	W	511	*	4.7	0.8	17	SOUTH OF FIJI ISLANDS

	09	10	10	09.8%	44.449	N	7.274	E	10	G			0.1	5	NORTHERN ITALY. ML 1.7 (GEN).
	09	10	59	32.0	36.091	N	30.214	E	33	N			1.4	10	TURKEY. MD 3.7 (ATH).
	09	11	21	00.5%	48.261	N	8.162	E	10	G			0.5	8	GERMANY. MD 1.4 (STR).
	09	11	34	00.0	32.976	S	70.231	W	98	?			0.6	12	CHILE-ARGENTINA BORDER REGION
a	09	12	34	03.3&	60.307	N	152.286	W	85		5.0			238	SOUTHERN ALASKA. <AGS-P>. Felt (IV) at Anchorage, Fort Richardson, Homer, Kasilaf, Kenai, Ninilchik, Palmer, Seward, Soldotna, Sterling and Wasilla. Felt (III) at Anchor Point, Chugiak, Iliamna, Kodiak, Moose Pass, Willow and Elmendorf Air Force Base.
	09	12	47	05.6*	16.168	N	96.563	W	33	N	3.7		1.5	6	OAXACA, MEXICO. Felt in Oaxaca.
	09	13	15	18.9	11.521	N	140.640	E	68	*	4.8		0.9	43	WEST CAROLINE ISLANDS
	09	13	59	14.5%	39.841	N	106.287	E	33	N			1.4	5	NORTHERN CHINA. ML 3.6 (BJI).
	09	14	27	30.4*	5.890	S	153.483	E	68	*	4.8		0.8	13	NEW IRELAND REGION
	09	15	12	33.9	39.213	N	22.220	E	10	G			0.7	13	GREECE. MD 3.1 (ATH). ML 2.8 (THE).
	09	16	01	33.0*	4.269	S	139.962	E	72	*	4.6		1.0	12	WEST IRIAN
	09	16	53	16.1?	21.79	S	178.15	W	550	?	4.2		1.3	24	FIJI ISLANDS REGION
	09	17	03	21.0	63.739	N	152.495	W	15	G	4.8		0.9	93	CENTRAL ALASKA. ML 5.3 (PMR). Felt (IV) at Lake Minchumina and (III) at Manley Hot Springs, McGrath and Nenana.
	09	17	10	27.7	63.688	N	152.531	W	15	G			1.3	10	CENTRAL ALASKA. ML 4.0 (PMR).
	09	19	01	44.7	40.569	N	23.456	E	5	G			0.8	22	GREECE. ML 2.8 (THE), 2.5 (SKO). MD 3.1 (ATH).
	09	19	23	50.5%	40.506	N	23.410	E	10	G			1.0	6	GREECE. ML 1.6 (THE).
	09	19	28	36.0*	63.725	N	152.503	W	15	G			1.6	8	CENTRAL ALASKA. ML 3.4 (PMR).
	09	20	58	00.9	39.088	N	10.746	W	10	G			0.9	16	NORTH ATLANTIC OCEAN. mbLg 3.8 (MDD).
	09	21	27	56.9	37.903	N	23.094	E	5				1.0	37	SOUTHERN GREECE. ML 3.1 (THE). MD 3.5 (ATH). Felt at Corinth and Lautrakian.
	09	21	41	31.6*	12.082	N	144.796	E	27	D	4.8	4.7	1.0	23	SOUTH OF MARIANA ISLANDS
	09	21	42	56.5*	7.593	S	129.345	E	33	N	4.7		0.9	8	BANDA SEA
	09	21	49	31.8	40.591	N	23.426	E	5	G			1.2	8	GREECE. MD 2.5 (ATH).
	09	21	59	26.7?	45.62	N	148.92	E	33	N	4.0		0.3	7	KURIL ISLANDS
	09	22	14	50.6*	10.350	N	62.452	W	19		4.3		1.1	25	NEAR COAST OF VENEZUELA
	09	22	53	48.4?	41.17	N	20.02	E	10	G			0.0	4	ALBANIA. ML 2.6 (SKO).
	09	23	19	51.5*	36.717	N	25.666	E	10	G			1.5	6	DODECANESE ISLANDS. ML 3.4 (ATH).
	10	01	30	49.7*	32.235	S	69.749	W	28	*			1.5	13	MENDOZA PROVINCE, ARGENTINA
	10	01	53	44.2&	62.591	N	151.265	W	87					39	CENTRAL ALASKA. <AGS-P>.
	10	02	04	13.3*	22.671	S	68.267	W	123	?	4.8		0.8	10	NORTHERN CHILE
	10	02	11	03.1&	60.298	N	152.322	W	84		4.9			171	SOUTHERN ALASKA. <AGS-P>. Felt (IV) at Homer and Ninilchik. Also felt at Anchorage, Palmer, Seward and Wasilla.
a	10	03	31	20.8	21.797	S	170.542	E	51	D	5.1		1.1	54	LOYALTY ISLANDS REGION
	10	04	09	39.2	43.016	N	17.306	E	14				1.0	27	YUGOSLAVIA. ML 3.0 (TTG), 2.9 (KBA).
	10	04	39	37.7%	44.065	N	7.031	E	10	G			0.2	5	NORTHERN ITALY. ML 1.9 (GEN).
	10	05	34	24.6	37.994	N	21.590	E	5	G			1.1	14	SOUTHERN GREECE. ML 3.1 (ATH).
	10	05	45	22.3	43.428	N	5.464	E	11				0.7	13	NEAR SOUTH COAST OF FRANCE
	10	06	33	27.8	30.522	N	97.333	E	33	N	4.3		1.1	23	TIBET
	10	09	02	35.7?	35.24	N	27.02	E	5	G			1.0	4	DODECANESE ISLANDS. MD 3.1 (ATH).
	10	10	11	31.0&	48.280	N	121.761	W	2					35	WASHINGTON. <SEA>. CL 2.7 (SEA).
a	10	10	15	03.9	50.907	N	157.244	E	51	D	5.7		0.9	396	KURIL ISLANDS. Felt on Shumshu and Paramushir.
	10	10	25	52.7*	33.785	S	71.996	W	10	G			0.9	13	NEAR COAST OF CENTRAL CHILE
	10	11	19	24.3	4.631	S	137.260	E	33	N	4.9		1.3	17	WEST IRIAN
	10	12	01	11.4*	19.715	S	133.811	E	10	G			1.2	6	NORTHERN TERRITORY, AUSTRALIA
	10	13	05	39.6%	40.466	N	16.400	E	10	G			0.4	5	SOUTHERN ITALY
	10	14	48	59.0*	62.307	S	164.313	E	10	G	5.3	4.5	0.6	12	BALLENY ISLANDS REGION
	10	14	49	27.8&	60.626	N	152.751	W	137					29	SOUTHERN ALASKA. <AGS-P>.
	10	16	00	00.0&	37.113	N	116.055	W	0		5.0			152	SOUTHERN NEVADA. <DOE>. ML 5.1 (BRK). 37' 06' 45.02" N., 116' 03' 18.64" W., Surface Elev. 1273 m., Depth of Burial 500 m., Shot Time 160000.83, "METROPOLIS," Nevada Test Site (Dept. of Energy).
	10	16	59	52.8	42.314	N	23.836	E	10	G			0.6	8	BULGARIA
	10	17	05	11.1?	28.34	N	56.44	E	33	N	4.3		1.2	17	SOUTHERN IRAN
	10	17	26	30.3&	37.113	N	116.055	W	0	G	4.0			18	SOUTHERN NEVADA. <SPEC>. Collapse. Held to "METROPOLIS" location.
	10	17	39	06.2*	44.526	N	150.023	E	33	N	4.2		0.9	20	KURIL ISLANDS REGION
	10	17	53	04.3	18.941	N	64.836	W	10	G	3.4		0.7	10	VIRGIN ISLANDS. ML 4.8 (FDF).
	10	18	04	24.7?	19.52	N	65.91	W	10	G			0.2	5	PUERTO RICO REGION
	10	18	16	28.1*	39.008	N	14.464	E	10	G			1.4	10	TYRRHENIAN SEA
	10	18	40	42.4&	32.740	N	115.490	W	12					6	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.2 (PAS).
	10	18	50	45.3*	6.906	N	72.925	W	150	?	4.6		1.1	17	NORTHERN COLOMBIA
	10	19	06	54.7	45.037	N	6.791	E	10	G			0.8	31	FRANCE. ML 3.0 (GEN), 2.7 (LDG). MD 2.6 (STR).
	10	20	05	17.4*	36.750	N	73.308	E	10	G	3.8		0.8	7	NORTHWESTERN KASHMIR
	10	23	13	05.1&	57.993	N	142.694	W	10	G	3.8			15	GULF OF ALASKA. <AGS-P>.
	10	23	30	38.2?	38.66	N	15.56	E	127	?			0.4	10	SICILY
a	11	00	55	31.2	37.278	S	78.241	E	10	G	5.1	4.9	1.0	37	MID-INDIAN RISE
	11	01	51	09.9	31.267	S	68.578	W	100	G			0.5	5	SAN JUAN PROVINCE, ARGENTINA
	11	02	34	15.0?	38.08	N	26.94	E	5	G			0.3	4	AEGEAN SEA. MD 3.2 (ATH).
	11	02	58	06.6?	1.63	N	126.69	E	150	?	4.2		0.2	7	MOLUCCA PASSAGE
	11	03	15	30.1	27.971	S	66.483	W	172	D	4.2		1.4	39	CATAMARCA PROVINCE, ARGENTINA
	11	03	29	55.9*	31.739	S	70.352	W	133	?			0.8	11	CHILE-ARGENTINA BORDER REGION
	11	03	47	30.3*	6.779	S	130.440	E	80	*	4.7		1.2	27	BANDA SEA
	11	04	19	18.4	46.194	N	1.630	E	10	G			1.1	19	FRANCE. ML 2.8 (LDG). MD 2.7 (STR).
	11	05	01	36.7?	31.51	S	69.16	W	110	G			0.1	5	SAN JUAN PROVINCE, ARGENTINA
	11	05	03	24.9*	34.150	N	135.330	E	33	N	4.6		1.5	15	NEAR S. COAST OF SOUTHERN HONSHU
	11	05	57	48.2	38.880	N	24.064	E	22				0.6	26	AEGEAN SEA. ML 3.9 (ATH). MD 3.5 (THE).
	11	06	01	07.6&	60.046	N	152.864	W	110					28	SOUTHERN ALASKA. <AGS-P>.
	11	06	05	12.3?	31.36	S	67.88	W	117	?			1.1	12	SAN JUAN PROVINCE, ARGENTINA
	11	06	08	50.8%	36.149	N	27.226	E	10	G			0.3	5	DODECANESE ISLANDS. MD 3.6 (ATH).
	11	07	08	31.3?	31.30	S	68.56	W	83	?			0.0	5	SAN JUAN PROVINCE, ARGENTINA
	11	07	56	19.9	11.266	N	85.632	W	38	D	4.5	4.5	1.1	47	NICARAGUA
	11	08	01	20.9&	60.255	N	152.541	W	101					30	SOUTHERN ALASKA. <AGS-P>.
	11	08	28	27.3*	36.578	N	2.585	E	33	N	4.6		1.2	20	ALGERIA. ML 3.9 (LDG). mbLg 3.9 (MDD).
	11	08	30	41.5&	61.234	N	149.653	W	35					46	SOUTHERN ALASKA. <AGS-P>. ML 3.3 (PMR).
	11	08	35	48.6*	13.194	N	143.617	E	126	*	4.4		1.0	16	SOUTH OF MARIANA ISLANDS
	11	09	05	21.2	44.998	N	7.367	E	10	G			0.7	53	NORTHERN ITALY. ML 3.1 (GEN), 3.0 (LDG). MD 3.1 (STR)

	11	10	40	53.7%	45.604	N	10.645	E	10	G		0.3	5	NORTHERN ITALY
	11	11	40	25.1%	23.186	N	121.398	E	33	N		1.0	5	TAIWAN
	11	11	40	43.9%	44.430	N	7.165	E	10	G		0.7	7	NORTHERN ITALY. ML 1.9 (GEN).
	11	14	04	12.0*	34.801	N	139.444	E	131	*	4.4	0.5	12	NEAR S. COAST OF HONSHU, JAPAN
	11	14	32	37.5%	46.312	N	1.426	E	10	G		0.9	9	FRANCE. ML 2.2 (LDG).
	11	15	38	19.3?	55.55	N	167.15	E	29	D	4.3	1.6	13	KOMANDORSKY ISLANDS REGION
	11	15	52	32.7?	44.34	N	7.36	E	10	G		0.2	4	NORTHERN ITALY. ML 1.5 (GEN).
	11	16	06	04.5	5.247	S	151.021	E	40	D	4.6	0.9	26	NEW BRITAIN REGION
	11	16	47	39.9*	30.405	S	69.509	W	33	N		1.6	10	CHILE-ARGENTINA BORDER REGION
	11	17	12	03.3	36.549	N	21.199	E	33	N	4.0	1.3	38	SOUTHERN GREECE. ML 3.9 (ATH).
	11	17	23	46.5?	38.04	N	22.75	E	10	G		0.2	4	GREECE. ML 2.6 (ATH).
	11	17	47	29.2&	36.288	N	120.418	W	8				12	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
	11	17	53	44.2*	45.473	N	3.693	E	10	G		1.0	11	FRANCE. ML 2.3 (LDG).
	11	17	54	06.9	41.854	N	23.272	E	10	G		0.9	29	GREECE-BULGARIA BORDER REGION. MD 3.9 (THE). ML 3.5 (SKO).
	11	17	55	37.2%	45.539	N	3.523	E	10	G		1.2	10	FRANCE. ML 2.5 (LDG).
	11	17	59	18.2	45.525	N	3.498	E	10	G		1.2	17	FRANCE. ML 3.0 (LDG). MD 2.8 (STR).
	11	18	10	08.4?	45.47	N	3.68	E	10	G		0.1	4	FRANCE. MD 1.3 (STR).
	11	19	22	25.3?	14.63	N	61.05	W	10	G		0.1	4	WINDWARD ISLANDS. ML 1.4 (FDF).
	11	20	44	36.4?	7.01	S	129.64	E	142	?	4.6	1.6	9	BANDA SEA
	11	21	23	08.3?	35.34	N	27.03	E	10	G		0.8	4	DODECANESE ISLANDS. MD 3.1 (ATH).
a	11	22	20	50.4	20.529	S	168.207	E	38	D	5.3 5.3	1.1	218	LOYALTY ISLANDS
a	11	22	46	34.6	33.493	N	138.654	E	24	D	5.3 4.6	1.3	156	SOUTH OF HONSHU, JAPAN
	11	22	59	03.2?	32.44	S	71.65	W	10	G		0.5	7	NEAR COAST OF CENTRAL CHILE
	11	23	03	40.3	32.557	S	71.617	W	7			0.6	11	NEAR COAST OF CENTRAL CHILE
	11	23	16	46.9*	32.594	S	71.576	W	10	G		0.8	11	NEAR COAST OF CENTRAL CHILE
	11	23	33	12.0?	67.73	N	21.08	E	5	G		1.7	4	SWEDEN. MD 2.1 (BER).
	12	00	08	50.7?	18.58	N	101.76	W	33	N		1.0	7	GUERRERO, MEXICO
	12	00	15	32.9?	18.07	N	102.68	W	33	N		1.7	7	MICHOACAN, MEXICO
	12	00	31	39.0	12.533	S	75.799	W	33	N	3.6	1.0	8	PERU
	12	02	15	29.0	60.328	N	150.329	W	74	*	2.9	0.6	10	KENAI PENINSULA, ALASKA
	12	03	04	14.0*	8.061	S	150.686	E	33	N	4.8 4.6	1.4	19	EAST PAPUA NEW GUINEA REGION. ML 4.9 (PMG).
	12	05	06	23.5&	18.857	N	155.240	W	12				41	HAWAII. <HVO-P>. MD 4.0 (HVO).
	12	05	23	27.5?	7.03	S	151.03	E	33	N	3.9	1.4	6	NEW BRITAIN REGION. ML 4.5 (PMG).
	12	05	48	48.4?	38.36	N	23.73	E	10	G		1.3	4	GREECE. MD 2.6 (ATH).
	12	06	30	38.2	14.020	N	145.036	E	32	D	4.9	1.0	39	MARIANA ISLANDS. Felt (IV) at Tamuning and (III) at Agana, Guam.
	12	06	39	14.7	31.994	S	71.119	W	33	N		0.6	11	NEAR COAST OF CENTRAL CHILE
	12	06	43	46.5	6.450	S	104.529	E	33	N	4.9 4.5	1.3	34	SUNDA STRAIT
	12	06	54	47.6&	18.972	N	155.212	W	18				40	HAWAII. <HVO-P>. MD 4.4 (HVO).
	12	07	32	08.7*	1.040	S	78.019	W	10	G	4.1	1.4	11	ECUADOR. Felt (IV) at Ambato.
	12	07	47	23.7*	31.141	S	68.594	W	33	N		1.5	5	SAN JUAN PROVINCE, ARGENTINA
	12	07	59	29.6*	37.030	N	113.593	E	33	N	3.7	1.5	9	NORTHEASTERN CHINA. ML 3.8 (BJI).
	12	08	08	55.3	61.239	N	150.953	W	66	*		0.7	9	SOUTHERN ALASKA
	12	08	15	02.7&	45.655	N	111.962	W	6		2.6		18	MONTANA. <BUT>. ML 3.5 (BUT). Felt (V) at Harrison and (IV) at Pony.
	12	08	25	26.4*	58.483	N	152.866	W	79	*	3.6	0.7	11	KODIAK ISLAND REGION
	12	08	45	31.4*	33.900	N	140.876	E	79	?	4.6	1.4	13	SOUTH OF HONSHU, JAPAN
	12	10	01	03.0*	10.263	S	161.270	E	10	G	4.7 4.4	1.5	11	SOLOMON ISLANDS
	12	10	10	10.0*	37.704	N	20.726	E	5	G		1.2	11	IONIAN SEA. ML 3.4 (ATH).
	12	11	09	10.9%	42.196	N	13.260	E	10	G		0.5	6	CENTRAL ITALY
	12	11	26	10.9&	34.130	N	117.700	W	5				17	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	12	11	29	35.3	34.134	N	117.663	W	5	G		0.7	11	SOUTHERN CALIFORNIA. ML 2.9 (NEIS).
	12	12	05	11.6%	35.231	N	27.137	E	10	G		1.3	5	DODECANESE ISLANDS. MD 3.4 (ATH).
	12	12	08	41.7	46.187	N	12.425	E	10	G		0.9	14	NORTHERN ITALY. MD 3.1 (LJU), 2.6 (TRI). ML 2.5 (KBA).
a	12	12	59	50.6*	47.895	S	165.318	E	19	D	5.4 5.0	1.6	30	OFF W. COAST OF S. ISLAND, N.Z.
	12	13	28	28.2	19.399	N	67.100	W	33	N	3.8	0.7	12	MONA PASSAGE
a	12	13	32	55.5	3.158	S	128.838	E	26	D	5.2 5.0	1.1	113	CERAM
	12	13	55	37.8*	39.470	N	19.965	E	33	N		1.0	5	GREECE-ALBANIA BORDER REGION. MD 3.0 (ATH).
	12	14	00	07.3?	3.64	S	128.46	E	99	?	3.9	1.2	6	CERAM
f	12	14	41	19.4	51.484	N	175.032	W	14	G	6.0 6.2	1.1	487	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.7 (PMR). Ms 6.5 (BRK), 5.9 (PAS). Felt (IV) on Adak and Atka. Depth from broadband displacement seismagrams.
	12	14	47	18.7	51.399	N	174.987	W	15	G	5.0	1.0	54	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.0 (PMR).
	12	14	55	31.5*	51.247	N	174.799	W	15	G	4.9	0.8	25	ANDREANOF ISLANDS, ALEUTIAN IS.
a	12	15	06	29.7	51.479	N	174.984	W	15	G	5.1	1.1	118	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.1 (PMR).
	12	15	08	48.3*	51.336	N	174.822	W	15	G	4.9	0.8	40	ANDREANOF ISLANDS, ALEUTIAN IS.
	12	15	26	51.8*	3.258	S	128.887	E	75	*	4.7	0.7	12	CERAM
	12	16	08	39.6*	51.104	N	177.903	W	33	N	4.7	1.2	37	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.1 (PMR).
	12	16	37	15.1?	43.49	N	6.92	E	10	G		1.4	4	NEAR SOUTH COAST OF FRANCE
	12	16	48	01.4&	36.413	N	92.300	W	0				5	MISSOURI-ARKANSAS BORDER REGION. <TEIC>. CL 2.8 (TEIC). Felt (IV) at Clarkridge, Henderson, Lakeview and Mountain Home, Arkansas. Also felt (IV) at Howards Ridge, Missouri. Felt (III) at Gamaliel and Midway, Arkansas.
	12	17	05	40.1*	40.505	N	26.676	E	10	G		1.6	6	TURKEY. MD 3.0 (ATH).
	12	18	17	51.8*	41.825	N	22.782	E	10	G		1.1	5	YUGOSLAVIA. ML 2.0 (SKO).
	12	18	46	18.9?	43.71	N	8.32	E	33	N		1.1	7	CORSICA. ML 2.3 (GEN).
	12	20	19	41.1*	3.282	S	139.831	E	33	N	4.0	0.6	8	WEST IRIAN
	12	20	58	03.1?	6.89	S	152.45	E	33	N	4.3	0.6	7	NEW BRITAIN REGION
	12	21	34	12.5&	63.191	N	149.587	W	94				32	CENTRAL ALASKA. <AGS-P>.
	12	21	50	18.9*	39.502	N	20.975	E	5	G		1.0	5	GREECE-ALBANIA BORDER REGION. MD 2.5 (ATH).
	12	22	06	01.6?	39.74	N	20.54	E	10	G		1.7	4	GREECE-ALBANIA BORDER REGION. MD 2.5 (ATH).
	12	22	18	12.7*	51.452	N	174.910	W	15	G	4.9	0.9	29	ANDREANOF ISLANDS, ALEUTIAN IS.
	12	22	40	07.8*	28.370	N	102.697	E	33	N	4.0	1.6	13	SICHUAN PROVINCE, CHINA. ML 4.1 (BJI).
	12	23	07	55.5%	39.741	N	113.817	E	10	G		1.5	6	NORTHEASTERN CHINA. ML 3.7 (BJI).
	12	23	16	09.8*	51.463	N	174.825	W	15	G	4.7	0.9	14	ANDREANOF ISLANDS, ALEUTIAN IS.
a	12	23	18	14.3	13.231	S	167.044	E	163	D	5.1	1.4	137	VANUATU ISLANDS
	12	23	39	08.1?	30.96	S	67.85	W	33	N		1.6	5	SAN JUAN PROVINCE, ARGENTINA
	12	23	58	19.8	5.212	S	151.781	E	102	*	4.7	1.1	30	NEW BRITAIN REGION
a	13	00	02	52.7	23.942	N	145.035	E	30	D	5.2 4.5	1.0	114	NORTH PACIFIC OCEAN
a	13	00	32	59.1	73.325	N	134.909	E	18	D	5.5 4.9	0.9	351	LAPTEV SEA. Ms 5.7 (BRK).
a	13	00	42	27.4?	7.28	S	106.44	W	10	G	4.6 4.9	1.1	22	NORTHERN EASTER I. CORDILLERA

a	13	01	04	50.4	16.611	S	172.530	W	30	D	5.2	5.2	1.1	52	SAMOA ISLANDS REGION
	13	01	29	11.5	9.822	N	124.996	E	29	D	4.9	4.6	0.9	34	MINDANAO, PHILIPPINE ISLANDS
	13	03	18	02.9&	36.828	N	121.428	W	9					21	CENTRAL CALIFORNIA. <BRK>. ML 3.3 (BRK).
	13	04	27	03.9&	60.321	N	152.274	W	86					29	SOUTHERN ALASKA. <AGS-P>.
	13	04	57	21.0*	15.579	N	92.406	W	180	*	4.0		1.1	22	MEXICO-GUATEMALA BORDER REGION
	13	06	09	45.0*	25.009	S	69.068	W	33	N			1.1	9	NORTHERN CHILE
	13	06	16	21.0?	35.33	N	25.15	E	10	G			1.3	4	CRETE. MD 3.6 (ATH).
	13	08	15	10.9*	19.793	N	71.316	W	33	N	4.3		1.2	11	DOMINICAN REPUBLIC REGION. MD 4.3 (SDD). Felt at Mao, Monte Cristi and Villa Vasquez.
	13	08	44	42.3	19.928	N	71.313	W	33	N	3.9		1.0	7	DOMINICAN REPUBLIC REGION. MD 4.5 (SDD). Felt at Mao, Monte Cristi and Villa Vasquez.
	13	09	20	49.2	35.005	N	3.779	W	10	G			1.2	10	STRAIT OF GIBRALTAR. mbLg 2.8 (MDD).
	13	09	23	12.4	7.448	N	126.483	E	171	D	4.9		1.2	66	MINDANAO, PHILIPPINE ISLANDS
	13	09	46	04.4	24.876	N	99.162	E	10	G	4.5		0.9	15	YUNNAN PROVINCE, CHINA. ML 4.5 (BJI).
	13	10	26	07.5*	28.409	S	71.449	W	33	N	3.6		1.6	18	NEAR COAST OF CENTRAL CHILE
	13	10	42	55.3%	43.087	N	0.606	W	10	G			0.5	5	PYRENEES. MD 1.0 (STR).
	13	12	04	52.4	39.997	N	22.488	E	10	G	4.1		1.5	70	GREECE. ML 4.0 (ATH), 4.0 (SKO).
a	13	13	30	40.3*	47.906	S	165.653	E	33	N	5.1	5.1	1.6	22	OFF W. COAST OF S. ISLAND, N.Z.
	13	14	21	11.4?	15.28	N	61.45	W	152		3.1		0.5	13	LEEWARD ISLANDS
	13	14	34	12.3*	15.879	N	61.296	W	54	?			0.3	6	LEEWARD ISLANDS
	13	14	58	21.8	43.201	N	0.116	W	10	G			1.0	24	PYRENEES. mbLg 3.2 (MDD). Felt (IV) at Argeles Gazast and Lourdes; (II) at Pau, France.
	13	15	05	38.8	44.510	N	150.058	E	33	N	4.8		0.9	52	KURIL ISLANDS REGION
	13	15	18	49.0*	1.398	S	78.471	W	33	N			1.3	11	ECUADOR. Felt (IV) at Tena.
	13	15	30	06.0*	47.000	N	144.741	E	373	?	4.7		1.0	33	SEA OF OKHOTSK
	13	16	09	11.8?	30.17	S	178.51	W	200	?	4.3		0.5	6	KERMADEC ISLANDS
	13	16	15	10.1?	40.16	N	22.35	E	33	N			0.5	4	GREECE
	13	17	41	53.9&	61.746	N	151.088	W	74					45	SOUTHERN ALASKA. <AGS-P>.
	13	18	09	21.8?	41.76	N	13.32	E	10	G			0.2	4	SOUTHERN ITALY
	13	18	20	21.1?	30.94	S	68.07	W	33	N			1.4	4	SAN JUAN PROVINCE, ARGENTINA
	13	19	00	16.7*	10.758	N	61.998	W	84	*	3.4		0.7	22	TRINIDAD. MD 3.8 (TRN). Felt on Trinidad.
	13	19	12	53.0*	40.063	N	22.369	E	10	G			1.1	5	GREECE. MD 2.7 (ATH).
a	13	19	40	33.6	3.429	S	76.913	W	112	G	5.7		0.9	374	NORTHERN PERU. Felt (III) at Tena, Ecuador. Depth from broadband displacement seismagroms.
	13	20	00	02.3?	36.09	N	24.20	E	10	G			1.3	4	SOUTHERN GREECE. MD 3.0 (ATH).
	13	20	30	03.2?	31.63	S	69.48	W	120	G			0.3	5	SAN JUAN PROVINCE, ARGENTINA
	13	20	53	08.5&	40.815	N	124.448	W	21					6	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.2 (BRK).
	13	21	09	11.6&	37.783	N	122.227	W	7					11	CENTRAL CALIFORNIA. <BRK>. ML 2.2 (BRK). Ma=3.1*10**12 Nm (BRK).
	13	22	06	27.2?	50.33	N	18.85	E	10	G			0.2	4	POLAND. ML 2.6 (KRA).
	13	22	10	41.8*	19.293	N	65.107	W	33	N			0.4	8	PUERTO RICO REGION
	13	22	57	14.9	39.427	N	23.394	E	10	G			1.3	16	AEGEAN SEA. ML 3.2 (ATH).
a	13	23	05	29.4	3.994	S	39.925	E	10	G	5.3	5.2	1.0	194	KENYA. Felt by many people in the epicentral area.
	13	23	32	08.6?	67.99	N	20.57	E	10	G			0.8	4	SWEDEN. MD 2.1 (BER).
	13	23	55	00.8	39.247	N	25.478	E	18		4.2		1.1	89	AEGEAN SEA. ML 4.1 (ATH).
	14	00	42	58.1*	50.300	N	19.011	E	10	G			0.4	5	POLAND. ML 2.9 (KRA), 2.8 (VKA). mbLg 2.8 (BRA).
	14	00	44	58.5&	62.991	N	150.403	W	99					34	CENTRAL ALASKA. <AGS-P>.
	14	01	24	48.8*	38.646	N	20.581	E	5	G			1.7	7	GREECE. MD 3.1 (ATH).
	14	01	27	55.8	45.865	N	14.655	E	5	G			1.0	52	YUGOSLAVIA. MD 3.8 (LJU). ML 3.5 (VKA), 3.4 (KBA). Felt (VI) at Dobro Polje and Videm; (V) at Ponikve and Velike Lasce.
	14	01	43	35.0&	55.052	N	160.880	W	73					5	ALASKA PENINSULA. <PAL>.
	14	02	15	12.9	45.860	N	14.669	E	10	G			1.4	14	YUGOSLAVIA. MD 3.2 (LJU), 2.7 (TRI). ML 2.7 (KBA). Felt (V) in the Videm-Dobro Polje area.
	14	02	31	46.5	49.650	N	155.945	E	49	D	5.0		0.9	121	KURIL ISLANDS
	14	02	32	48.9	38.976	N	20.661	E	10	G			1.2	9	GREECE. MD 3.0 (ATH).
a	14	03	33	17.3	10.212	N	59.800	W	47	D	5.1	4.8	1.2	177	NORTH ATLANTIC OCEAN. MD 5.2 (TRN). Felt (III) on Trinidad.
a	14	03	44	49.6	4.575	N	122.620	E	639	D	5.6		1.1	200	CELEBES SEA
	14	03	48	38.4%	39.882	N	142.223	E	33	N			1.2	9	NEAR EAST COAST OF HONSHU, JAPAN
	14	04	11	39.0*	33.119	S	72.038	W	10	G			1.0	13	OFF COAST OF CENTRAL CHILE
	14	04	34	20.1*	10.273	N	59.700	W	13		3.7		1.0	16	NORTH ATLANTIC OCEAN. MD 3.9 (TRN).
	14	05	31	24.4	40.000	N	23.466	E	10	G			1.5	9	GREECE. MD 3.4 (ATH).
	14	05	36	13.7	45.883	N	14.687	E	5	G	4.0		1.0	31	YUGOSLAVIA. MD 3.7 (LJU), 3.2 (TRI). ML 3.4 (KBA), 3.2 (VKA). Felt (VI) in the Videm-Dobro Polje area.
	14	05	50	26.9%	44.584	N	6.774	E	10	G			0.4	5	FRANCE. ML 1.8 (GEN).
	14	07	55	32.1&	57.398	N	142.906	W	10	G	3.2			30	GULF OF ALASKA. <AGS-P>.
	14	08	01	32.0?	30.16	S	68.01	W	33	N			1.0	5	SAN JUAN PROVINCE, ARGENTINA
	14	08	04	37.3%	16.847	N	99.554	W	10	G			1.5	6	NEAR COAST OF GUERRERO, MEXICO
	14	08	15	39.5	40.004	N	23.548	E	10	G			1.3	13	GREECE. ML 3.3 (ATH).
	14	08	27	34.3&	60.153	N	150.211	W	53		2.8			46	KENAI PENINSULA, ALASKA. <AGS-P>.
	14	09	04	07.7	43.875	N	7.753	E	10	G			0.6	20	NEAR SOUTH COAST OF FRANCE. ML 2.6 (GEN). MD 2.2 (STR).
	14	10	06	06.1*	53.297	S	160.050	E	33	N	4.7	3.9	1.1	10	MACQUARIE ISLANDS REGION
	14	10	28	02.4?	59.18	N	18.07	E	5	G			1.1	4	SWEDEN
	14	11	33	39.4?	31.14	S	68.69	W	98	?			0.1	5	SAN JUAN PROVINCE, ARGENTINA
	14	11	56	37.3	19.632	N	71.241	W	35	*	4.3	4.1	0.7	27	DOMINICAN REPUBLIC REGION. MD 4.8 (SDD). Felt at Mao, Monte Cristi and Villa Vasquez.
	14	11	58	46.6*	51.238	N	174.986	W	15	G	4.3		0.6	10	ANDREANOF ISLANDS, ALEUTIAN IS.
	14	12	03	21.9?	51.39	N	174.96	W	15	G	4.8		1.1	10	ANDREANOF ISLANDS, ALEUTIAN IS.
	14	13	12	53.2	66.906	N	156.195	W	33	N	2.8		0.7	19	ALASKA
	14	13	33	09.1	8.109	S	121.788	E	174	*	5.1		0.9	31	FLORES ISLAND REGION
	14	14	14	43.7?	41.06	N	19.88	E	10	G			0.3	4	ALBANIA. ML 2.2 (SKO).
	14	15	30	17.5&	63.627	N	149.853	W	143					33	CENTRAL ALASKA. <AGS-P>.
	14	15	57	48.8	29.212	N	142.319	E	33	N	4.6		1.0	18	SOUTH OF HONSHU, JAPAN
	14	16	32	51.9*	21.425	N	122.431	E	33	N	3.8		1.2	5	TAIWAN REGION
	14	17	39	22.9	36.860	N	73.275	E	33	N	4.6	4.1	1.6	48	NORTHWESTERN KASHMIR
	14	17	40	55.9*	39.927	N	21.748	E	5	G			1.5	6	GREECE. MD 3.1 (ATH).
	14	18	18	05.0%	41.824	N	13.266	E	33	N			0.8	7	SOUTHERN ITALY
	14	18	35	56.9*	23.971	N	122.992	E	33	N			0.7	7	TAIWAN REGION
	14	18	43	27.9	39.864	N	142.783	E	33	N	4.6	3.6	1.1	44	NEAR EAST COAST OF HONSHU, JAPAN
	14	18	55	04.5?	38.33	N	18.99	E	10	G			1.3	8	IONIAN SEA
	14	18	56	36.3&	53.952	N	162.570	W	22		3.5			8	SOUTH OF ALASKA. <PAL>.
	14	19	11	55.6	22.745	S	169.969	E	44	D	5.0		1.4	64	LOYALTY ISLANDS REGION

	14	19	16	00.5&	60.012	N	151.491	W	43				27	KENAI PENINSULA, ALASKA. <AGS-P>.
	14	19	21	49.7	36.109	N	27.214	E	30	*	4.0	1.6	17	DODECANESE ISLANDS. ML 4.1 (ATH).
	14	19	43	38.1?	31.77	S	71.51	W	33	N		1.0	11	NEAR COAST OF CENTRAL CHILE
	14	20	19	17.7?	31.15	S	68.29	W	94	?		0.2	5	SAN JUAN PROVINCE, ARGENTINA
	14	21	59	53.3&	37.113	N	121.963	W	11				12	CENTRAL CALIFORNIA. <BRK>. ML 2.7 (BRK).
	14	22	16	32.0	38.591	N	14.798	E	13			0.6	12	SICILY
	14	22	53	34.1	36.151	N	27.242	E	10	G		1.2	10	DODECANESE ISLANDS. MD 3.5 (ATH).
a	15	00	12	42.9	31.658	N	60.213	E	16	D	4.9 4.6	1.2	118	IRAN. Felt at Nahbandan.
	15	00	16	27.5?	44.07	N	11.22	E	10	G		0.4	4	NORTHERN ITALY
	15	00	59	58.0*	8.220	N	126.815	E	33	N	4.4 4.0	1.4	15	MINDANAO, PHILIPPINE ISLANDS
	15	02	28	56.9	35.281	N	27.053	E	37		4.2	1.4	136	DODECANESE ISLANDS. MD 4.4 (ATH), 4.3 (HLW).
	15	03	38	01.1*	11.840	S	73.857	W	72	?	3.9	0.7	9	PERU
	15	03	49	50.3%	40.537	N	15.188	E	10	G		0.9	6	SOUTHERN ITALY
	15	04	03	14.0?	40.20	N	28.11	E	5	G		0.0	4	TURKEY
a	15	04	56	34.5	15.130	S	167.238	E	132	D	5.6	1.5	338	VANUATU ISLANDS
	15	05	32	42.9	40.371	N	22.028	E	5	G		1.1	11	GREECE. MD 3.3 (ATH).
	15	06	12	30.6*	24.476	S	177.418	W	33	N	5.2 5.0	0.8	45	SOUTH OF FIJI ISLANDS
	15	06	17	46.6	43.433	N	5.471	E	5	G		0.4	15	NEAR SOUTH COAST OF FRANCE. MD 2.7 (STR).
	15	07	49	48.5?	10.20	N	59.91	W	109	?		0.4	12	NORTH ATLANTIC OCEAN. MD 4.0 (TRN).
	15	08	13	30.3	29.043	N	142.360	E	39	D	4.7	0.8	49	SOUTH OF HONSHU, JAPAN
	15	08	25	43.1	53.635	N	163.727	W	33	N	4.8 4.5	1.1	61	UNIMAK ISLAND REGION
	15	09	00	47.0&	61.958	N	148.371	W	30				37	SOUTHERN ALASKA. <AGS-P>.
	15	09	07	01.1*	21.143	S	68.748	W	120	*	4.6	1.0	13	CHILE-BOLIVIA BORDER REGION
	15	11	24	30.1*	28.005	N	34.575	E	5	G		0.5	7	ARAB REPUBLIC OF EGYPT. MD 4.0 (HLW).
	15	12	17	46.8%	41.558	N	12.617	E	5	G		0.7	8	SOUTHERN ITALY
	15	12	26	07.3	21.253	S	68.878	W	117	D	4.5	1.2	33	CHILE-BOLIVIA BORDER REGION
	15	12	26	15.9	46.529	N	9.606	E	10	G		1.1	37	SWITZERLAND. ML 2.8 (LDG).
	15	12	33	56.0?	21.06	S	175.79	E	33	N	4.3	1.6	10	SOUTH OF FIJI ISLANDS
	15	13	22	58.1&	63.655	N	148.782	W	17				37	CENTRAL ALASKA. <AGS-P>. ML 3.2 (PMR).
	15	14	14	07.1?	38.69	N	14.81	E	10	G		0.3	4	SICILY
	15	14	18	23.4&	63.094	N	149.620	W	88				33	CENTRAL ALASKA. <AGS-P>.
	15	14	20	37.0*	45.886	N	16.029	E	10	G		0.8	12	YUGOSLAVIA. MD 2.8 (TRI). ML 2.7 (KBA), 2.4 (LJU). Felt in the Zagreb area.
	15	14	58	45.6?	7.49	S	127.70	E	178	?	4.6	1.4	10	BANDA SEA
	15	17	24	18.6?	31.42	S	68.81	W	91	?		0.6	6	SAN JUAN PROVINCE, ARGENTINA
	15	17	47	12.2&	63.554	N	152.346	W	16				27	CENTRAL ALASKA. <AGS-P>.
	15	18	16	11.2?	31.24	S	68.44	W	89	?		0.3	5	SAN JUAN PROVINCE, ARGENTINA
	15	18	35	19.2%	66.953	N	20.943	E	10	G		1.2	6	SWEDEN. MD 2.6 (BER).
	15	18	39	57.4?	51.07	N	174.49	W	15	G	4.6	1.3	14	ANDREANOF ISLANDS, ALEUTIAN IS.
	15	18	45	58.1%	37.129	N	1.488	E	33	N		0.6	6	WESTERN MEDITERRANEAN SEA. mbLg 3.3 (MDD).
	15	19	12	35.8?	9.10	S	124.15	E	83	?	4.1	1.5	8	TIMOR
	15	19	19	52.4&	38.848	N	122.795	W	4				13	NORTHERN CALIFORNIA. <BRK>. ML 4.1 (BRK). Mo=5.8*10**14 Nm (BRK). Felt (IV) at Cobb, Finley and Loch Lamond.
	15	19	25	48.6	25.334	N	96.498	E	33	N	4.0	1.3	21	BURMA
	15	20	00	21.3	26.825	S	26.720	E	5	G		1.4	9	REPUBLIC OF SOUTH AFRICA. mbLg 3.3 (BUL).
	15	20	54	41.0?	31.67	S	70.09	W	33	N		1.5	5	CHILE-ARGENTINA BORDER REGION
	15	21	28	37.2	44.286	N	7.355	E	10	G		0.4	11	NORTHERN ITALY. ML 2.1 (GEN).
	15	22	02	41.2	26.784	S	26.704	E	5	G		1.5	10	REPUBLIC OF SOUTH AFRICA. mbLg 3.8 (BUL).
	15	22	19	42.0?	4.76	N	126.04	E	182	?	4.9	1.1	12	TALAUD ISLANDS
	16	00	29	21.0*	17.437	S	70.614	W	126	*	4.8	1.2	10	NEAR COAST OF PERU
	16	01	05	06.5?	39.49	N	28.26	E	5	G		1.6	4	TURKEY
	16	01	05	18.1?	35.45	N	26.69	E	10	G		1.7	4	CRETE. MD 3.4 (ATH).
	16	01	58	58.6*	16.193	N	97.864	W	33	N		1.5	7	OAXACA, MEXICO
	16	02	01	50.2	13.527	S	77.008	W	32	D	4.9	0.9	44	OFF COAST OF PERU
	16	03	18	58.5%	38.654	N	15.176	E	10	G		0.7	9	SICILY
	16	04	03	23.4*	37.861	N	14.989	E	10	G		0.9	5	SICILY
	16	04	07	08.5	32.494	N	48.501	E	57		4.5	0.9	38	WESTERN IRAN
	16	04	51	29.3*	6.608	S	75.709	W	33	N	4.6	1.4	8	NORTHERN PERU
	16	04	56	30.2	21.741	N	142.993	E	321	*	4.7	1.2	64	MARIANA ISLANDS REGION
	16	05	04	47.9&	60.534	N	152.870	W	143				21	SOUTHERN ALASKA. <AGS-P>.
	16	05	46	13.0&	65.946	N	148.232	W	10				11	ALASKA. <AGS-P>.
	16	05	59	02.1?	6.44	N	33.80	W	10	G	5.1 4.1	1.6	6	CENTRAL MID-ATLANTIC RIDGE
	16	06	14	57.2?	33.74	N	33.29	W	10	G	4.8	1.6	7	NORTH ATLANTIC RIDGE
	16	06	36	57.0*	5.790	N	32.860	W	10	G	5.0 5.1	0.7	19	CENTRAL MID-ATLANTIC RIDGE
	16	06	41	48.6	37.747	N	14.988	E	10	G		0.9	12	SICILY
	16	06	43	58.8&	58.310	N	152.948	W	67				13	KODIAK ISLAND REGION. <AGS-P>.
	16	07	05	10.4%	38.043	N	14.931	E	10	G		1.1	5	SICILY
	16	07	16	14.4?	5.83	S	129.03	E	278	?	4.3	1.0	7	BANDA SEA
	16	08	51	03.4	6.624	S	75.631	W	33	N	4.9	1.1	26	NORTHERN PERU
	16	09	25	53.9	37.700	N	15.070	E	10	G		0.6	8	SICILY
	16	09	30	04.4*	37.752	N	15.032	E	10	G		1.1	7	SICILY
	16	09	52	06.6	37.649	N	15.087	E	10	G	3.4	1.0	31	SICILY
	16	10	14	49.1	37.695	N	15.036	E	10	G		1.2	9	SICILY
	16	10	15	55.9%	43.393	N	5.421	E	10	G		0.7	12	NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).
	16	10	18	53.8?	37.82	N	14.98	E	10	G		0.6	4	SICILY
	16	11	22	43.6%	37.664	N	15.025	E	10	G		1.0	6	SICILY
	16	11	26	32.6%	37.674	N	15.036	E	10	G		1.1	7	SICILY
	16	11	43	58.3	4.399	N	126.218	E	104	*	5.0	1.1	67	TALAUD ISLANDS
	16	12	14	20.2	18.117	S	178.173	W	544		4.9	1.1	70	FIJI ISLANDS REGION
	16	12	14	41.8&	59.486	N	153.430	W	119		2.9		51	SOUTHERN ALASKA. <AGS-P>.
	16	12	38	50.9?	7.68	S	129.51	E	184	?	4.4	1.3	7	BANDA SEA
	16	13	22	26.1*	42.551	N	24.053	E	10	G		1.1	6	BULGARIA
	16	13	39	13.6	37.661	N	15.064	E	33	N		1.5	27	SICILY
	16	13	46	28.8*	14.999	N	93.619	W	73		4.7	1.0	22	NEAR COAST OF CHIAPAS, MEXICO
	16	14	07	15.6%	19.634	S	133.825	E	10	G		0.3	5	NORTHERN TERRITORY, AUSTRALIA
	16	14	24	13.6%	39.466	N	28.284	E	10	G		1.4	7	TURKEY
	16	15	03	01.6&	58.857	N	153.950	W	156		3.0		17	KODIAK ISLAND REGION. <AGS-P>.
a	16	15	52	42.6	24.897	N	109.035	W	10	G	5.5 6.1	1.3	136	GULF OF CALIFORNIA. Felt at Culiacan and Los Mochis, Mexico.
	16	15	58	10.2*	22.563	N	120.528	E	33	N	3.5	1.5	5	TAIWAN
	16	16	30	31.3	45.706	N	8.353	E	10	G		0.8	15	NORTHERN ITALY
	16	16	32	44.5?	37.50	N	15.06	E	10	G		0.8	4	SICILY
	16	16	33	46.0	23.771	N	123.359	E	33		5.1	0.9	94	SOUTHWESTERN RYUKYU ISLANDS. ML 4.5 (BJI).

	16	16	42	30.5	41.513	N	27.733	E	10	G		1.2	12 TURKEY
	16	16	46	39.3*	24.399	N	108.804	W	10	G	4.7	0.8	25 GULF OF CALIFORNIA
	16	16	51	00.1%	37.642	N	15.036	E	10	G		1.3	6 SICILY
	16	16	51	10.6&	63.404	N	149.611	W	7				34 CENTRAL ALASKA. <AGS-P>. ML 3.1 (PMR).
	16	16	54	09.6%	37.680	N	14.744	E	10	G		1.7	5 SICILY
	16	17	03	06.4%	37.690	N	14.995	E	10	G		1.3	6 SICILY
	16	17	04	40.1	37.628	N	15.041	E	10	G		1.3	6 SICILY
	16	17	07	43.4%	37.655	N	15.011	E	10	G		0.9	6 SICILY
	16	18	23	54.2*	37.310	N	7.924	W	33	N		1.5	11 PORTUGAL. mbLg 3.5 (MDD).
	16	18	35	25.7	37.651	N	15.034	E	10	G		0.8	6 SICILY
	16	18	43	04.4&	59.941	N	141.323	W	3				4 SOUTHEASTERN ALASKA. <AGS-P>.
	16	18	46	05.0	37.704	N	15.031	E	10	G		1.0	18 SICILY
	16	18	54	40.7%	37.712	N	15.041	E	10	G		1.0	6 SICILY
	16	19	21	56.3	41.326	N	22.741	E	10	G		1.2	10 YUGOSLAVIA. MD 3.4 (ATH). ML 3.0 (SKO).
	16	19	26	35.7*	41.485	N	22.717	E	10	G		1.1	6 YUGOSLAVIA. ML 2.5 (SKO).
	16	19	30	13.3%	37.664	N	15.029	E	10	G		1.1	6 SICILY
	16	19	43	00.3&	61.539	N	150.185	W	43				25 SOUTHERN ALASKA. <AGS-P>.
	16	20	34	45.9?	37.65	N	15.02	E	10	G		0.1	4 SICILY
	16	20	55	16.8%	0.431	S	77.607	W	10	G		0.7	7 ECUADOR
	16	20	56	08.7	31.760	S	69.374	W	128		4.3	0.9	15 SAN JUAN PROVINCE, ARGENTINA
	16	21	03	03.2	35.651	N	26.389	E	114	*		1.2	27 CRETE. MD 4.3 (HLW).
	16	22	24	33.3*	27.814	S	66.071	E	10	G	4.6	0.7	19 SOUTH INDIAN OCEAN
	16	22	32	09.4%	38.629	N	15.662	E	10	G		1.0	7 SICILY
	17	00	02	43.9?	24.09	N	122.62	E	33	N		0.5	4 TAIWAN REGION
	17	00	41	01.0	28.077	S	26.742	E	5	G	4.5	0.6	10 REPUBLIC OF SOUTH AFRICA
	17	01	34	07.3%	37.655	N	14.990	E	10	G		1.2	6 SICILY
	17	01	44	30.8?	3.52	S	79.54	W	172	?		0.4	8 NEAR COAST OF ECUADOR
	17	02	01	04.9*	7.147	S	129.572	E	103	?	5.0	1.6	26 BANDA SEA
	17	03	04	06.8?	17.23	N	62.53	W	10	G		0.7	5 LEEWARD ISLANDS. ML 3.1 (FDF).
	17	03	55	10.5	44.772	N	7.611	E	10	G		0.9	14 NORTHERN ITALY. ML 2.2 (GEN).
	17	04	38	59.2&	54.225	N	161.517	W	23				5 ALASKA PENINSULA. <PAL>.
	17	04	49	44.5	40.773	N	19.711	E	10	G		1.4	25 ALBANIA. MD 3.6 (ATH). ML 3.0 (TTG).
	17	05	11	58.1*	24.346	N	66.070	E	10	G	4.2	1.6	10 PAKISTAN
	17	05	27	11.0*	51.220	N	16.110	E	10	G		1.0	10 POLAND. ML 3.7 (VKA), 3.2 (KBA).
	17	05	48	40.4	33.073	S	118.086	E	5	G	4.0	1.2	9 WESTERN AUSTRALIA
	17	06	21	15.0	37.112	N	29.065	E	10	G		0.7	10 TURKEY. MD 3.7 (ATH).
	17	06	24	14.9%	44.792	N	7.620	E	10	G		0.2	6 NORTHERN ITALY. ML 1.7 (GEN).
	17	06	52	29.0%	19.519	S	133.952	E	10	G		1.5	6 NORTHERN TERRITORY, AUSTRALIA
	17	08	39	36.8&	47.323	N	122.301	W	7				66 WASHINGTON. <SEA>. ML 2.9 (SEA).
	17	09	23	16.3?	7.08	S	130.08	E	110	G	4.6	1.3	7 TANIMBAR ISLANDS REGION
	17	10	45	54.1*	19.707	N	71.250	W	33	N	4.3	1.5	9 DOMINICAN REPUBLIC REGION
	17	11	10	50.3&	60.176	N	152.857	W	116				41 SOUTHERN ALASKA. <AGS-P>.
	17	11	14	18.3?	15.98	S	168.06	E	249	?	4.6	1.3	23 VANUATU ISLANDS
	17	11	51	52.7?	31.29	S	68.63	W	90	?		0.1	5 SAN JUAN PROVINCE, ARGENTINA
	17	12	15	35.8?	30.35	S	178.13	W	191	?	4.8	1.2	20 KERMADEC ISLANDS
o	17	12	20	14.1	4.398	S	144.068	E	123	D	5.4	0.8	144 NEAR N COAST OF PAPUA NEW GUINEA
	17	12	48	02.2*	47.295	S	13.344	W	10	G	5.2 4.7	1.1	48 SOUTH ATLANTIC RIDGE
	17	15	01	01.6*	38.260	N	75.578	E	114	?	4.1	0.3	11 SOUTHERN XINJIANG, CHINA
	17	16	00	36.4*	33.434	S	70.545	W	80	?		1.0	11 CHILE-ARGENTINA BORDER REGION
	17	16	03	39.9*	41.428	N	19.850	E	10	G		1.0	5 ALBANIA. ML 2.1 (SKO).
	17	16	06	33.6?	20.25	S	169.08	E	77	?	4.8	1.3	21 VANUATU ISLANDS
	17	16	20	57.0%	41.766	N	12.733	E	10	G		0.3	5 SOUTHERN ITALY
	17	16	53	37.5*	8.251	S	159.663	E	33	N	4.1	0.3	5 SOLOMON ISLANDS
	17	17	26	38.4?	41.83	N	12.79	E	10	G		0.7	4 SOUTHERN ITALY
	17	17	52	42.0*	36.143	N	27.158	E	10	G		1.0	5 DODECANESE ISLANDS. MD 3.2 (ATH).
	17	17	54	46.3	36.195	N	27.169	E	10	G		1.4	21 DODECANESE ISLANDS. ML 3.9 (ATH).
	17	17	56	38.7%	35.988	N	27.315	E	33	N		0.7	5 DODECANESE ISLANDS. MD 3.4 (ATH).
	17	20	08	58.4	44.156	N	16.655	E	10	G		1.3	24 YUGOSLAVIA. ML 2.9 (KBA), 2.9 (LJU), 2.7 (TTG).
	17	20	35	15.2%	41.684	N	12.746	E	10	G		0.8	11 SOUTHERN ITALY
	17	20	51	57.3	41.777	N	12.598	E	10	G		1.0	11 SOUTHERN ITALY
	17	21	21	41.3	43.799	N	7.528	E	10	G		1.0	17 NEAR SOUTH COAST OF FRANCE. ML 2.7 (LDG). MD 2.2 (STR).
	17	23	01	36.3&	35.250	N	116.710	W	11				11 CENTRAL CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
	18	00	45	16.8*	9.634	N	124.403	E	79	*	4.6	0.9	17 MINDANAO, PHILIPPINE ISLANDS
	18	00	49	18.6%	19.307	N	99.190	W	10	G		0.8	6 CENTRAL MEXICO
	18	01	06	23.5%	46.624	N	0.477	E	5	G		1.3	9 FRANCE. ML 2 4 (LDG).
	18	01	24	33.2%	39.735	N	16.660	E	5	G		1.0	8 SOUTHERN ITALY
	18	02	09	25.9?	2.59	N	128.41	E	196	?	4.6	0.7	7 HALMAHERA
	18	02	12	36.6%	46.744	N	0.408	E	5	G		1.6	7 FRANCE. ML 2.3 (LDG).
	18	02	46	57.1*	10.958	N	65.631	W	10	G	4.2	1.0	10 NEAR COAST OF VENEZUELA. MD 4.4 (TRN).
	18	03	55	26.9	11.385	S	165.826	E	33	N	4.9 4.6	1.0	35 SANTA CRUZ ISLANDS
	18	04	21	45.2	5.198	S	129.447	E	234		4.9	0.9	28 BANDA SEA
	18	04	29	33.3?	16.17	N	97.96	W	33	N		0.9	5 OAXACA, MEXICO
	18	04	30	12.4&	61.134	N	151.114	W	51				41 SOUTHERN ALASKA. <AGS-P>.
	18	05	42	32.1?	20.49	N	96.23	W	33	N		0.7	9 VERA CRUZ, MEXICO
	18	06	57	13.9*	19.459	N	65.275	W	33	N		0.8	10 PUERTO RICO REGION
	18	07	28	42.4*	30.335	N	68.339	E	10	G	4.4	1.6	14 PAKISTAN
	18	08	21	43.8?	33.09	S	71.61	W	10	G		0.4	7 NEAR COAST OF CENTRAL CHILE
	18	08	41	21.6?	16.84	N	99.88	W	10	G		1.6	7 NEAR COAST OF GUERRERO, MEXICO
	18	08	48	25.3%	38.541	N	23.507	E	10	G		0.3	5 GREECE. ML 2.7 (ATH).
	18	08	53	18.7%	39.212	N	27.847	E	10	G		0.6	7 TURKEY
	18	09	19	14.3%	44.787	N	7.608	E	10	G		0.3	10 NORTHERN ITALY. ML 2.0 (GEN).
	18	09	44	14.4&	59.189	N	145.160	W	10	G			19 GULF OF ALASKA. <AGS-P>.
	18	09	54	31.1	46.867	N	9.841	E	10	G		1.1	76 SWITZERLAND. ML 3.6 (FUR), 3.4 (KBA), 3.4 (LDG), 3.4 (GRF).
	18	09	58	48.2	46.848	N	9.795	E	10	G		1.5	24 SWITZERLAND. ML 2.9 (LDG), 2.8 (FUR), 2.7 (GRF), 2.6 (KBA).
	18	10	19	26.7%	39.146	N	27.493	E	10	G		0.6	5 TURKEY
	18	10	56	31.4%	39.460	N	28.301	E	10	G		0.4	7 TURKEY
	18	12	23	28.9?	31.40	S	68.61	W	100	G		0.5	4 SAN JUAN PROVINCE, ARGENTINA
	18	12	50	56.9%	37.791	N	14.953	E	10	G		0.8	13 SICILY
	18	13	03	36.5?	37.84	N	15.40	E	10	G		0.3	4 SICILY
	18	13	19	20.9*	50.585	N	13.678	E	10	G		0.9	5 CZECHOSLOVAKIA. ML 2.6 (GRF).
	18	13	25	25.1*	22.235	S	174.088	E	21	D	4.9 4.5	1.3	42 LOYALTY ISLANDS REGION

	18	13 30	18.7*	37.671	N	15.045	E	10	G			0.4	5	SICILY
	18	13 33	09.7?	37.69	N	15.05	E	10	G			0.1	4	SICILY
	18	13 37	07.7%	37.686	N	15.046	E	10	G			0.7	5	SICILY
	18	13 56	38.1&	34.150	N	117.710	W	9					15	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
	18	14 04	26.5%	37.666	N	15.075	E	10	G			0.7	5	SICILY
	18	15 03	46.4?	40.50	N	2.82	W	10	G			0.2	4	SPAIN. mbLg 2.5 (MDD).
	18	15 06	31.1?	14.34	N	61.24	W	135	?			0.6	10	WINDWARD ISLANDS
	18	15 46	41.0?	40.79	N	14.14	E	10	G			1.0	4	SOUTHERN ITALY
	18	16 22	33.0&	36.720	N	91.490	W	5	G				15	MISSOURI-ARKANSAS BORDER REGION. <SLM-P>. MD 3.0 (TEIC). Felt (IV) at Alton, Missouri.
	18	16 25	45.6%	44.651	N	8.145	E	10	G			0.5	9	NORTHERN ITALY. ML 2.5 (GEN).
	18	16 48	58.2	6.245	N	125.540	E	61	D	5.0		1.1	34	MINDANAO, PHILIPPINE ISLANDS
	18	17 08	20.5*	16.749	N	61.204	W	33	N			0.4	7	LEEWARD ISLANDS. ML 2.9 (FDF).
	18	19 35	03.9*	13.697	N	144.551	E	99		4.4		1.0	22	MARIANA ISLANDS. Felt (III) on Guam.
	18	20 03	46.5?	45.86	N	154.46	E	33	N	4.6		1.6	10	KURIL ISLANDS REGION
	18	21 41	14.8?	35.33	N	32.91	E	10	G			1.0	6	CYPRUS
	18	21 45	40.2?	33.08	S	72.11	W	10	G			0.4	8	OFF COAST OF CENTRAL CHILE
	18	22 13	53.8	38.975	N	15.594	E	282		3.5		0.9	29	SICILY
a	18	22 30	07.6*	48.688	S	106.802	E	10	G	5.2	5.2	1.5	59	SOUTHEAST INDIAN RISE
a	18	23 19	29.7	20.286	S	66.740	E	20	D	5.8	5.4	0.9	361	MASCARENE ISLANDS REGION
	19	00 05	00.4&	37.927	N	121.998	W	10					15	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK). Mo=5.5*10**13 Nm (BRK). Felt at Orinda, Pleasant Hill and Walnut Creek.
	19	00 22	03.7*	25.375	N	125.310	E	33	N	4.1		1.0	10	SOUTHWESTERN RYUKYU ISLANDS
	19	00 38	26.8	43.007	N	0.395	W	10	G			1.1	11	PYRENEES. ML 2.4 (LDG). Felt (III) at Asson, France.
	19	00 43	04.5&	40.288	N	124.932	W	4					6	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.2 (BRK).
	19	01 12	19.7	1.693	S	77.909	W	162		4.3		1.2	31	ECUADOR
	19	02 03	52.1%	38.376	N	24.436	E	10	G			0.7	5	AEGEAN SEA. ML 2.8 (ATH).
	19	02 30	59.9&	55.294	N	162.532	W	163		3.3			6	ALASKA PENINSULA. <PAL>.
	19	02 36	26.6	39.399	N	25.555	E	10	G			1.1	25	AEGEAN SEA. ML 3.4 (ATH).
	19	04 02	31.8	32.572	S	71.341	W	33	N			0.1	10	NEAR COAST OF CENTRAL CHILE
	19	04 32	40.2?	33.96	S	70.94	W	72	?			0.1	6	CHILE-ARGENTINA BORDER REGION
	19	04 58	05.9?	51.45	N	16.66	E	10	G			0.9	6	POLAND. ML 3.4 (GRF).
	19	04 59	43.5	25.027	S	68.730	W	122	D	5.0		1.0	98	CHILE-ARGENTINA BORDER REGION. Felt (III) in the Antofogosto area, Chile.
	19	05 55	34.0*	37.736	N	21.304	E	33	N			1.6	7	SOUTHERN GREECE. MD 3.2 (ATH).
	19	06 14	36.1%	37.737	N	21.374	E	10	G			1.6	5	SOUTHERN GREECE. MD 2.6 (ATH).
	19	07 15	15.9?	31.23	S	68.37	W	99	?			0.6	5	SAN JUAN PROVINCE, ARGENTINA
	19	07 23	05.6	8.210	S	121.559	E	40	D	5.0	4.5	1.2	45	FLORES ISLAND REGION
	19	07 58	55.0?	12.42	N	145.41	E	33	N	3.9		1.5	6	SOUTH OF MARIANA ISLANDS
	19	08 08	38.7&	61.284	N	150.702	W	57					24	SOUTHERN ALASKA. <AGS-P>.
	19	09 08	40.6?	51.61	N	16.38	E	10	G			0.4	4	POLAND
	19	10 19	19.4?	39.07	N	21.94	E	33	N			0.2	4	GREECE
	19	10 36	17.0%	39.114	N	27.611	E	10	G			0.9	5	TURKEY
	19	10 46	31.9	63.883	N	22.074	W	10	G	4.8	4.5	1.1	111	ICELAND REGION. Felt in the Reykjavik area.
	19	11 21	09.9%	40.079	N	15.911	E	10	G			0.5	6	SOUTHERN ITALY
	19	11 41	18.2?	15.87	N	61.04	W	33	N			0.4	6	LEEWARD ISLANDS. ML 2.3 (FDF).
	19	12 50	48.9	0.097	S	122.903	E	169		4.6		0.8	18	MINAHASSA PENINSULA
	19	13 13	27.7%	32.864	S	71.367	W	10	G			0.8	8	NEAR COAST OF CENTRAL CHILE
	19	13 15	02.1	2.695	N	79.682	W	33	N	4.7	4.1	1.2	50	SOUTH OF PANAMA
	19	14 20	56.0*	12.735	N	145.571	E	49	*	4.6		1.2	18	SOUTH OF MARIANA ISLANDS
	19	14 46	15.8	44.410	N	7.298	E	11				0.5	18	NORTHERN ITALY. ML 2.8 (GEN).
	19	14 49	40.9%	44.406	N	7.329	E	10	G			0.0	6	NORTHERN ITALY. ML 2.0 (GEN).
	19	15 12	02.2%	44.388	N	7.299	E	10	G			0.3	7	NORTHERN ITALY. ML 2.2 (GEN).
	19	16 16	42.4%	44.382	N	7.281	E	10	G			0.3	6	NORTHERN ITALY. ML 1.8 (GEN).
	19	16 42	05.1?	31.00	S	175.64	W	33	N	4.8	4.3	1.1	13	KERMADEC ISLANDS REGION
	19	16 43	07.0?	14.50	N	60.92	W	10	G			0.0	4	WINDWARD ISLANDS. ML 1.8 (FDF).
	19	17 22	56.1%	11.032	N	61.109	W	10	G			0.1	5	WINDWARD ISLANDS. MD 2.5 (TRN).
	19	20 17	34.9%	40.633	N	27.444	E	10	G			0.4	6	TURKEY
	19	21 15	08.2&	63.058	N	148.558	W	79					35	CENTRAL ALASKA. <AGS-P>.
	19	22 08	39.8	5.593	S	149.444	E	147	D	5.1		1.2	39	NEW BRITAIN REGION
	19	23 05	17.1?	38.31	N	15.12	E	10	G			0.7	4	SICILY
	19	23 06	55.1?	37.95	N	15.19	E	10	G			0.4	4	SICILY
	19	23 32	13.5?	44.35	N	7.33	E	10	G			0.1	4	NORTHERN ITALY. ML 1.8 (GEN).
	19	23 36	08.1*	26.333	S	178.313	E	602	?	4.8		0.9	33	SOUTH OF FIJI ISLANDS
	19	23 55	49.1	15.275	N	91.879	W	145	D	4.5		1.2	49	MEXICO-GUATEMALA BORDER REGION
	19	23 58	25.3&	36.878	N	121.407	W	8					14	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).
	20	00 14	35.7?	31.38	S	68 69	W	97	?			1.2	11	SAN JUAN PROVINCE, ARGENTINA
o	20	01 12	19.7	27.220	N	141.605	E	47	G	5.8	5.0	0.9	318	BONIN ISLANDS REGION. Ms 5.3 (BRK). Depth from broadband displacement seismograms.
	20	06 16	22.3%	39.023	N	15.857	E	220	?			0.6	12	SOUTHERN ITALY
	20	06 39	27.1?	18.82	S	178.28	W	522	?	4.3		1.4	14	FIJI ISLANDS REGION
	20	06 44	18.0%	44.387	N	7.278	E	10	G			0.2	8	NORTHERN ITALY. ML 2.0 (GEN).
	20	07 07	06.5?	24.50	N	109.10	W	10	G	4.3		1.0	12	GULF OF CALIFORNIA
	20	07 51	55.9	15.797	N	46.797	W	10	G	4.8	3.8	1.0	85	NORTH ATLANTIC RIDGE
	20	07 53	50.5	41.151	N	20.368	E	10	G			1.0	15	ALBANIA. MD 3.0 (ATH). ML 2.9 (SKO).
	20	08 08	57.0?	22.62	N	120.50	E	47	*	3.8		1.5	6	TAIWAN
	20	09 15	00.6%	39.458	N	28.325	E	10	G			0.8	6	TURKEY
	20	09 55	57.6?	39.47	N	28.34	E	10	G			0.4	5	TURKEY
	20	10 23	54.2%	11.055	N	61.907	W	33	N			1.0	7	WINDWARD ISLANDS. MD 3.5 (TRN).
	20	10 50	47.0	8.330	N	103.368	W	10	G	4.8		1.0	24	OFF COAST OF MEXICO
	20	10 55	50.3*	34.732	N	121.058	W	10	G			0.7	9	OFF COAST OF CALIFORNIA. ML 2.6 (BRK).
	20	11 25	36.0*	6.976	N	73.277	W	155		4.2		0.3	7	NORTHERN COLOMBIA
	20	11 52	28.5	42.168	N	15.687	E	10	G			1.3	23	ADRIATIC SEA
	20	11 54	34.2	18.263	N	61.742	W	33	N	4.5		1.1	26	LEEWARD ISLANDS. ML 4.1 (FDF). MD 3.7 (TRN).
	20	13 03	47.0*	22.333	S	69.865	W	61	*	4.7		1.4	19	NORTHERN CHILE. Felt (IV) in the Pedro de Valdivio-Tocopilla area.
	20	13 31	22.1&	37.928	N	122.002	W	10					11	CENTRAL CALIFORNIA. <BRK>. ML 1.9 (BRK). Felt at Concord.
	20	13 33	39.6*	5.341	S	152.893	E	47	?	4.4		1.2	17	NEW BRITAIN REGION
	20	14 03	03.8%	41.155	N	28.685	E	10	G			0.8	9	TURKEY
	20	14 33	26.8?	39.25	N	27.80	E	10	G			1.0	4	TURKEY
	20	15 24	59.1?	31.68	S	69.79	W	33	N			0.9	5	SAN JUAN PROVINCE, ARGENTINA

	20	15	35	15.2	39.278	N	138.735	E	33	N	4.7		0.8	28	EASTERN SEA OF JAPAN
	20	16	28	08.9*	38.247	N	15.124	E	10	G			0.5	5	SICILY
	20	16	44	55.4?	27.56	S	175.48	W	33	N	4.8		0.9	9	KERMADEC ISLANDS REGION
	20	17	11	39.7	5.561	S	129.633	E	34	D	5.1	4.3	1.2	54	BANDA SEA
	20	17	41	48.6?	33.51	S	72.15	W	25				1.2	14	OFF COAST OF CENTRAL CHILE. Felt (III) at Valparaiso.
	20	17	42	15.7*	35.002	N	26.541	E	10	G			1.4	8	CRETE. MD 3.9 (ATH).
	20	18	38	45.7	11.675	S	76.100	W	96	*	4.5		1.2	29	PERU. Felt (IV) at Lima.
a	20	18	55	22.3*	45.846	S	96.229	E	10	G	5.1	5.1	1.1	29	SOUTHEAST INDIAN RISE
	20	18	58	37.2?	19.97	S	177.65	W	550	*	4.7		1.0	24	FIJI ISLANDS REGION
	20	19	59	57.1?	33.12	S	70.27	W	10	G			0.2	5	CHILE-ARGENTINA BORDER REGION
	20	20	43	10.8?	34.88	N	23.55	E	10	G			1.0	5	CRETE. MD 3.5 (ATH).
	20	20	57	09.9	36.420	N	26.513	E	165	*			0.8	14	DODECANESE ISLANDS
	20	21	08	17.6	43.883	N	7.843	E	10	G			0.6	19	NEAR SOUTH COAST OF FRANCE. ML 2.3 (LDG), 2.1 (GEN).
	20	21	09	20.7%	18.489	S	124.311	E	33	N			1.6	8	WESTERN AUSTRALIA
	20	21	47	57.1*	38.709	N	74.098	E	33	N	4.2		1.2	13	TAJIK-XINJIANG BORDER REGION
	20	21	57	50.2?	1.37	N	126.47	E	33	N	4.6		1.2	6	MOLUCCA PASSAGE
a	20	22	04	48.4	29.496	N	131.595	E	31	D	5.6	5.1	0.9	326	RYUKYU ISLANDS REGION
	20	22	28	07.3	43.439	N	5.471	E	5	G			0.4	14	NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).
	20	22	44	11.2	60.391	N	147.702	W	33	N	3.3		1.2	13	SOUTHERN ALASKA. ML 3.9 (PMR). Felt (IV) at Whittier.
	20	23	19	09.8	42.651	N	16.159	E	10	G			1.2	11	ADRIATIC SEA
	20	23	54	37.8&	63.459	N	151.175	W	2					26	CENTRAL ALASKA. <AGS-P>.
	21	00	00	55.6%	42.700	N	19.004	E	10	G			0.6	7	YUGOSLAVIA. ML 2.0 (TTG).
	21	01	27	34.6?	44.32	N	6.66	E	10	G			0.6	4	FRANCE. ML 2.1 (GEN).
	21	01	29	49.7	44.490	N	7.098	E	10	G			0.3	30	NORTHERN ITALY. ML 3.0 (GEN), 2.7 (LDG).
	21	01	35	44.1?	6.74	S	146.81	E	33	N	3.9		1.3	5	EAST PAPUA NEW GUINEA REGION
	21	02	12	26.1*	19.625	S	175.469	W	33	N	4.8	5.2	1.0	25	TONGA ISLANDS
	21	03	37	23.1*	32.114	S	71.542	W	10	G			0.9	8	NEAR COAST OF CENTRAL CHILE
	21	04	13	31.1%	38.720	N	28.965	E	10	G			1.0	6	TURKEY
	21	06	08	16.2%	33.986	S	71.397	W	33	N			0.4	8	NEAR COAST OF CENTRAL CHILE
	21	06	20	30.4	42.445	N	19.185	E	14				1.1	13	YUGOSLAVIA. ML 2.7 (TTG).
	21	06	24	33.5&	63.008	N	149.365	W	80					28	CENTRAL ALASKA. <AGS-P>.
	21	06	54	26.2%	17.103	N	61.615	W	10	G			0.8	6	LEEWARD ISLANDS. ML 3.2 (FDF).
	21	08	40	25.4?	38.96	N	23.87	E	10	G			0.2	4	GREECE. ML 2.1 (THE).
	21	09	03	11.8?	39.28	N	29.31	E	10	G			1.5	4	TURKEY
	21	09	09	46.2	37.928	N	27.272	E	10	G			1.3	20	TURKEY. MD 3.6 (ATH).
	21	09	15	22.3?	42.71	N	19.11	E	10	G			0.2	4	YUGOSLAVIA. MD 2.0 (TTG).
	21	09	16	03.1?	5.33	S	151.90	E	60	*	4.3		0.7	9	NEW BRITAIN REGION
	21	09	39	35.8&	59.371	N	148.122	W	12		2.8			33	KENAI PENINSULA, ALASKA. <AGS-P>. ML 3.0 (PMR).
	21	09	46	40.9?	19.47	N	66.16	W	10	G			0.3	5	PUERTO RICO REGION
	21	09	52	25.7*	37.850	N	27.143	E	10	G			1.6	6	TURKEY. MD 3.3 (ATH).
	21	09	56	40.0?	37.07	N	43.76	E	10	G			0.6	4	TURKEY
	21	10	14	45.2*	39.401	N	143.502	E	33	N	4.2		0.7	10	OFF EAST COAST OF HONSHU, JAPAN
	21	10	34	51.7?	37.05	S	176.90	E	33	N			1.1	8	NORTH ISLAND, NEW ZEALAND
	21	10	48	31.5%	38.612	N	0.495	W	10	G			0.4	5	SPAIN. mbLg 2.9 (MDD). Felt (III) at Alcoy and Benilloba.
	21	10	59	32.3?	34.40	N	26.92	E	10	G			1.4	7	CRETE. MD 3.6 (ATH).
	21	11	38	15.7&	40.352	N	124.502	W	16					14	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.4 (BRK).
	21	11	42	05.9	35.954	N	27.280	E	10	G			1.1	9	DODECANESE ISLANDS. MD 3.5 (ATH).
	21	11	57	32.6%	40.625	N	22.504	E	10	G			1.0	5	GREECE. ML 1.7 (THE).
	21	12	24	13.7%	41.904	N	14.807	E	10	G			0.5	5	SOUTHERN ITALY
	21	12	24	33.3&	58.544	N	142.697	W	10	G				14	GULF OF ALASKA. <AGS-P>.
	21	13	25	02.5	42.505	N	24.115	E	10	G			1.5	12	BULGARIA. ML 2.9 (THE).
	21	13	37	22.8	25.194	S	129.531	E	10	G			1.4	12	NORTHERN TERRITORY, AUSTRALIA
	21	14	22	24.7	40.081	N	19.907	E	10	G			1.0	29	ALBANIA. ML 3.2 (ATH), 3.2 (THE).
	21	15	51	46.9&	63.379	N	151.396	W	11		3.2			43	CENTRAL ALASKA. <AGS-P>. ML 3.8 (PMR).
	21	16	01	02.0%	40.507	N	27.493	E	10	G			0.6	5	TURKEY
f	21	16	46	05.4	31.092	S	179.093	W	145	G	6.2		1.1	480	KERMADEC ISLANDS REGION. mb 6.2 (BRK). Mo=2.0*10**19 Nm (PPT). Felt on Raoul Island. Felt on North Island, New Zealand from the Bay of Plenty region to Wellington. Two events about 1.8 seconds apart. Depth from broadband displacement seismograms, based on second event.
	21	17	20	05.6	38.305	N	28.818	E	8				1.3	14	TURKEY
	21	18	26	19.5	29.996	N	68.235	E	25	D	4.9		1.0	109	PAKISTAN
	21	18	30	33.7*	29.927	N	68.311	E	33	N	4.7		0.9	11	PAKISTAN
	21	18	51	09.5	10.825	N	65.389	W	24	D	5.4	4.6	1.0	145	NEAR COAST OF VENEZUELA. MD 5.4 (CAR), 5.4 (TRN). Felt at Caracas and along the north coast of Venezuela as far east as the state of Sucre.
	21	19	50	21.7?	30.19	N	68.88	E	33	N	4.1		1.4	11	PAKISTAN
	21	20	09	00.3?	8.95	S	127.77	E	110	?	4.0		1.1	6	TIMOR
	21	20	23	21.3%	46.980	N	0.230	E	13				1.5	13	FRANCE. ML 2.7 (LDG).
	21	21	31	47.7	38.753	N	12.918	E	10	G			1.2	16	SICILY
	21	21	40	07.5?	35.16	S	71.25	W	91	?			0.5	11	CENTRAL CHILE
	21	21	45	55.3%	44.787	N	7.616	E	10	G			0.2	5	NORTHERN ITALY. ML 2.1 (GEN).
	21	21	50	53.9%	32.181	N	35.462	E	10	G			0.1	6	DEAD SEA REGION
o	21	22	05	55.6	5.503	S	152.007	E	61		5.3		0.9	63	NEW BRITAIN REGION
	21	22	42	17.0	33.468	N	54.360	E	33	N	4.7		1.2	104	IRAN
	21	22	43	54.6?	44.77	N	7.61	E	10	G			0.5	4	NORTHERN ITALY. ML 2.0 (GEN).
	21	23	04	24.3	46.179	N	12.324	E	10	G			0.9	10	NORTHERN ITALY. ML 2.6 (KBA). MD 2.5 (TRI).
	21	23	08	04.9*	38.398	N	21.715	E	10	G			1.0	5	GREECE. MD 2.4 (ATH).
a	22	00	00	16.4	36.919	S	177.197	E	225		5.8		1.1	273	OFF E. COAST OF N. ISLAND, N.Z. Felt at Gisborne, Lower Hutt, Palmerston North, Napier and Wellington.
	22	00	28	41.7	40.352	N	20.269	E	10	G			1.2	10	GREECE-ALBANIA BORDER REGION. ML 2.3 (SKO), 2.0 (THE). MD 2.8 (ATH).
a	22	02	11	50.6	8.473	S	158.891	E	116	D	5.5		0.9	223	SOLOMON ISLANDS
	22	02	46	06.5*	29.993	N	68.390	E	33	N	4.6		1.1	14	PAKISTAN
	22	03	56	03.9?	24.32	S	67.15	W	187	?	4.0		1.1	7	CHILE-ARGENTINA BORDER REGION
	22	04	38	42.7%	40.729	N	27.393	E	10	G			0.6	5	TURKEY
	22	05	12	15.0	44.349	N	7.292	E	14				0.4	24	NORTHERN ITALY. ML 2.6 (GEN), 2.6 (LDG).
	22	05	14	06.9%	15.476	N	62.782	W	24				0.9	8	LEEWARD ISLANDS. ML 3.0 (FDF).
	22	07	15	49.7	41.916	N	23.059	E	10	G			0.8	25	GREECE-BULGARIA BORDER REGION. ML 3.1 (SKO), 3.3 (ATH).
	22	07	26	14.1	38.385	N	21.868	E	9		3.8		1.4	38	GREECE. ML 3.6 (THE), 3.5 (ATH).
	22	07	59	58.8?	33.80	S	71.75	W	23	*			0.1	8	NEAR COAST OF CENTRAL CHILE

	22	09 00 31.0*	39.518	N	22.075	E	10	G			0.8	6	GREECE. ML 2.1 (THE).
	22	09 12 08.3*	28.843	S	72.390	W	33	N			0.8	12	OFF COAST OF CENTRAL CHILE
	22	09 54 14.7?	39.11	N	27.61	E	10	G			0.6	4	TURKEY
	22	10 21 39.1%	46.645	N	9.871	E	10	G			0.2	5	SWITZERLAND
	22	10 59 53.8	37.633	N	15.097	E	10	G			1.3	22	SICILY
	22	11 08 32.2?	22.77	N	121.13	E	10	G			1.2	4	TAIWAN REGION
	22	11 37 22.9%	37.655	N	15.032	E	10	G			0.4	5	SICILY
	22	11 40 07.6%	45.450	N	26.870	E	33	N			1.4	5	ROMANIA
	22	11 45 21.3&	58.393	N	152.979	W	79		3.1			26	KODIAK ISLAND REGION. <AGS-P>.
	22	12 36 17.6%	40.416	N	27.920	E	10	G			0.9	7	TURKEY
	22	13 19 48.3?	42.29	N	23.93	E	10	G			0.1	5	BULGARIA. ML 2.6 (THE).
	22	13 22 14.4&	63.187	N	149.372	W	88					31	CENTRAL ALASKA. <AGS-P>.
	22	13 26 09.9	40.257	N	28.940	E	10	G			1.3	10	TURKEY
	22	13 27 44.9	7.816	N	126.747	E	76	*	4.9		1.2	75	MINDANAO, PHILIPPINE ISLANDS
	22	13 48 29.0	44.532	N	10.394	E	10	G			1.1	21	NORTHERN ITALY. ML 3.0 (LDG).
	22	15 09 37.4*	34.967	N	26.744	E	10	G			1.3	17	CRETE. ML 4.0 (CSS).
	22	15 50 19.1*	50.716	N	177.855	W	33	N	4.0		1.0	14	ANDREANOF ISLANDS, ALEUTIAN IS.
	22	16 11 06.7?	44.34	N	7.32	E	10	G			0.1	4	NORTHERN ITALY. ML 1.5 (GEN).
	22	16 27 38.2*	36.718	N	70.820	E	154	?	4.2		1.1	15	HINDU KUSH REGION
	22	16 33 13.1*	23.090	S	66.172	W	249	?	4.5		1.3	13	JUJUY PROVINCE, ARGENTINA
	22	17 10 14.3%	43.080	N	0.441	W	10	G			0.2	6	PYRENEES. MD 1.1 (STR).
	22	17 53 25.7*	28.170	N	57.473	E	33	N	4.4		1.0	17	SOUTHERN IRAN
	22	18 21 22.5	40.121	N	29.617	E	10	G			1.1	9	TURKEY
	22	18 23 40.6	15.979	N	97.860	W	33	N	4.9		1.0	52	NEAR COAST OF OAXACA, MEXICO
	22	18 56 57.0?	10.96	N	62.11	W	33	N			1.0	9	NEAR COAST OF VENEZUELA
	22	19 22 10.4&	62.874	N	150.814	W	99					20	CENTRAL ALASKA. <AGS-P>.
	23	01 36 51.2	4.210	S	102.302	E	63	*	5.0	4.5	1.1	83	SOUTHERN SUMATERA
	23	02 26 32.3*	45.895	N	15.957	E	10	G			1.1	5	YUGOSLAVIA. MD 2.3 (LJU). ML 1.6 (KBA).
	23	02 59 18.1&	60.187	N	153.014	W	126					20	SOUTHERN ALASKA. <AGS-P>.
	23	03 14 07.0	39.038	N	22.478	E	5	G			1.0	10	GREECE. ML 2.4 (THE).
	23	03 16 00.6	36.402	N	9.833	W	100	*			0.8	35	WEST OF GIBRALTAR. MD 3.6 (RBA).
	23	03 33 52.8	39.048	N	23.545	E	10	G			0.9	11	AEGEAN SEA. ML 2.4 (THE).
	23	03 58 21.0*	3.171	S	130.182	E	33	N	4.1	3.7	1.1	9	CERAM
	23	04 17 43.5	43.263	N	4.456	W	10	G			0.9	21	SPAIN. mbLg 3.5 (MDD). ML 3.4 (LDG). Felt (III) at Cerverea.
	23	04 39 03.2?	53.64	N	164.71	W	33	N	3.6		1.2	6	UNIMAK ISLAND REGION
	23	05 37 37.6	29.725	N	51.320	E	33	N	4.8		0.9	16	SOUTHERN IRAN
	23	05 42 41.4*	39.032	N	20.093	E	10	G			1.1	6	GREECE-ALBANIA BORDER REGION
	23	07 23 12.6?	37.50	N	22.15	E	10	G			1.2	4	SOUTHERN GREECE. MD 2.8 (ATH).
	23	07 56 56.8	5.709	S	149.117	E	148		4.9		0.7	30	NEW BRITAIN REGION
	23	08 25 09.8%	40.529	N	23.675	E	10	G			0.3	6	GREECE. ML 2.0 (THE).
	23	09 33 01.1%	41.800	N	12.700	E	10	G			1.0	5	SOUTHERN ITALY
	23	09 40 33.9*	6.207	S	151.876	E	54	?	4.5		1.5	9	NEW BRITAIN REGION
	23	10 05 36.8%	45.109	N	28.480	E	10	G			1.2	6	SOUTHWESTERN USSR
	23	10 19 55.9*	33.736	N	25.351	E	10	G			1.0	11	EASTERN MEDITERRANEAN SEA
	23	11 37 20.9	26.255	S	70.636	W	35	*	4.6		1.0	19	NEAR COAST OF NORTHERN CHILE
	23	11 43 27.9*	60.023	S	26.572	W	33	N	5.1	3.9	1.1	13	SOUTH SANDWICH ISLANDS REGION
a	23	13 35 37.4*	49.235	S	122.283	E	10	G	5.0	5.4	1.3	39	SOUTH OF AUSTRALIA
	23	13 50 19.0&	36.855	N	121.618	W	7					16	CENTRAL CALIFORNIA. <BRK>. ML 3.7 (BRK). Ma=8.9*10**14 Nm (BRK). Felt (IV) at Aramas, Gilroy, Morgan Hill and San Martin. Felt (III) at Carmel Valley, Castroville, Hollister, Moss Landing, Salinas, San Juan Bautista and Watsonville.
	23	13 50 43.1	16.044	N	96.361	W	50	*	4.9		1.0	39	OAXACA, MEXICO. Felt in the state of Oaxaca.
a	23	14 07 15.4	16.132	N	96.278	W	63		5.2		0.9	122	OAXACA, MEXICO. Felt in the state of Oaxaca.
	23	14 39 04.7	45.552	S	96.137	E	10	G	5.1	4.7	0.9	34	SOUTHEAST INDIAN RISE
	23	16 45 24.9?	17.82	N	66.71	W	33	N			0.7	5	PUERTO RICO REGION
	23	18 47 43.0	41.637	N	19.638	E	9				0.9	23	ALBANIA. ML 2.8 (TTG).
	23	19 46 44.7	39.312	N	25.505	E	10	G	3.8		0.9	62	AEGEAN SEA. ML 3.9 (THE), 3.7 (ATH).
	23	19 49 06.9	39.420	N	25.532	E	10	G			1.3	11	AEGEAN SEA. MD 3.5 (ATH).
	23	20 09 50.7*	36.537	N	141.558	E	33	N	4.7		1.0	26	NEAR EAST COAST OF HONSHU, JAPAN
	23	20 31 38.3*	32.706	S	71.623	W	20	*			0.8	13	NEAR COAST OF CENTRAL CHILE
	23	21 00 50.7	39.120	N	20.059	E	10	G			1.4	16	GREECE-ALBANIA BORDER REGION. ML 3.0 (THE). MD 3.1 (ATH).
a	23	21 06 03.0	43.718	N	147.756	E	33	D	5.2	4.7	0.9	203	KURIL ISLANDS
	23	21 07 16.6&	63.516	N	152.365	W	6					21	CENTRAL ALASKA. <AGS-P>.
	23	21 37 02.1?	41.74	N	12.57	E	10	G			0.6	4	SOUTHERN ITALY
	23	21 37 36.8%	35.056	N	25.819	E	10	G			1.6	5	CRETE. MD 3.6 (ATH).
	23	23 28 12.6*	39.007	N	19.941	E	10	G			1.3	5	GREECE-ALBANIA BORDER REGION. MD 2.5 (ATH).
	23	23 32 28.1?	45.96	N	14.59	E	10	G			1.2	4	YUGOSLAVIA. MD 2.2 (LJU). ML 1.8 (KBA).
	24	01 54 40.9%	44.909	N	6.627	E	10	G			0.3	7	FRANCE. ML 2.1 (LDG).
	24	02 44 44.7%	31.445	N	35.705	E	10	G			0.3	7	DEAD SEA REGION
	24	02 53 06.8%	31.453	N	35.711	E	10	G			0.4	5	DEAD SEA REGION
	24	03 08 06.4?	22.78	N	121.12	E	10	G			1.5	4	TAIWAN REGION
	24	03 10 19.6&	63.314	N	151.202	W	17					18	CENTRAL ALASKA. <AGS-P>.
	24	03 26 10.7?	9.97	N	59.45	W	33	N	3.7		0.7	13	NORTH ATLANTIC OCEAN. MD 4.0 (TRN).
	24	04 58 00.0?	51.34	N	15.97	E	10	G			1.1	6	POLAND
	24	06 09 05.4*	47.315	S	165.281	E	33	N	4.5	4.3	1.3	13	OFF W. COAST OF S. ISLAND, N.Z.
	24	06 28 07.2	40.712	N	21.782	E	10	G			0.6	7	GREECE. ML 2.1 (THE), 2.4 (SKO).
a	24	07 05 52.1	47.624	S	165.261	E	33	N	5.4	5.1	1.3	96	OFF W. COAST OF S. ISLAND, N.Z.
	24	07 44 07.3&	40.327	N	124.787	W	5		3.7			16	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 4.0 (BRK).
	24	08 09 14.4*	51.483	N	174.228	W	33	N	4.6		0.5	26	ANDREANOF ISLANDS, ALEUTIAN IS.
	24	08 16 41.0&	38.475	N	118.202	W	6		3.9			31	CALIFORNIA-NEVADA BORDER REGION. <BRK>. Felt (V) at Luning and Mina, Nevada.
	24	09 04 35.2?	39.16	N	27.61	E	10	G			0.8	4	TURKEY
	24	09 21 05.0?	48.08	S	165.34	E	33	N	4.1		0.4	7	OFF W. COAST OF S. ISLAND, N.Z.
	24	10 01 26.3%	39.106	N	27.590	E	10	G			0.2	5	TURKEY
	24	10 27 53.5*	5.744	S	146.893	E	117	*	4.8		1.2	12	EAST PAPUA NEW GUINEA REGION
	24	12 04 40.7?	43.96	N	147.82	E	33	N	3.8		1.4	6	KURIL ISLANDS
	24	12 43 43.0?	39.10	N	27.64	E	10	G			0.2	4	TURKEY
	24	12 58 45.9*	51.528	N	174.347	W	33	N	4.6		0.6	19	ANDREANOF ISLANDS, ALEUTIAN IS.
	24	13 25 49.8?	15.83	N	61.04	W	33	N			0.1	4	LEEWARD ISLANDS. ML 2.2 (FDF).
	24	13 35 08.0*	47.689	S	165.394	E	33	N	4.4	4.0	1.3	18	OFF W. COAST OF S. ISLAND, N.Z.

	24	13	50	52.0%	39.046	N	27.990	E	10	G			1.1	5	TURKEY
	24	14	13	46.5?	46.86	N	15.34	E	10	G			1.3	5	YUGOSLAVIA. ML 2.3 (KBA).
	24	14	49	56.0*	0.687	N	125.235	E	81	*	4.5		0.6	11	MOLUCCA PASSAGE
	24	15	02	42.0%	43.991	N	7.585	E	10	G			0.2	7	NEAR SOUTH COAST OF FRANCE. ML 2.2 (GEN).
	24	15	28	50.8	72.789	N	5.001	E	10	G	4.6		1.4	45	NORWEGIAN SEA
	24	16	42	58.4%	47.244	N	0.665	W	10	G			1.1	7	FRANCE. ML 2.4 (LDG).
	24	16	55	30.9?	3.29	S	150.28	E	121	?	3.7		0.2	5	NEW IRELAND REGION
	24	17	01	32.7?	48.86	N	0.92	W	10	G			0.5	4	FRANCE. ML 2.1 (LDG).
a	24	17	20	18.3	16.247	S	173.058	W	30	D	5.3	4.9	1.1	154	TONGA ISLANDS. Ms 5.2 (BRK).
	24	18	43	05.4&	19.505	N	155.485	W	6					44	HAWAII. <HVO-P>. MD 4.2 (HVO). Felt at Hawaii Volcanoes National Park.
	24	18	47	30.6*	35.927	N	23.598	E	10	G			1.1	10	CRETE. ML 3.5 (ATH).
	24	19	11	32.2	51.238	N	178.910	W	33	N	4.9		0.9	57	ANDREANOF ISLANDS, ALEUTIAN IS.
	24	19	53	01.1&	60.038	N	153.079	W	133		3.8			50	SOUTHERN ALASKA. <AGS-P>.
	24	20	06	16.5%	1.039	S	78.283	W	10	G			0.1	6	ECUADOR
	24	20	34	05.0%	40.811	N	15.291	E	10	G			1.1	13	SOUTHERN ITALY
	24	21	39	02.9?	32.66	S	73.13	W	10	G			0.6	10	OFF COAST OF CENTRAL CHILE
	24	23	04	40.8?	23.49	S	179.54	E	522	?	4.4		1.0	12	SOUTH OF FIJI ISLANDS
	24	23	16	33.2%	37.722	N	1.501	W	10	G			0.6	6	SPAIN. mbLg 3.1 (MDD).
a	25	00	01	10.6	33.619	N	57.022	E	33	N	4.8	4.6	1.4	117	IRAN. Felt at Tabas.
	25	00	38	14.9?	15.18	N	60.18	W	10	G			0.3	6	LEEWARD ISLANDS. ML 2.6 (FDF).
	25	00	39	25.0%	39.166	N	29.354	E	10	G			0.9	5	TURKEY
	25	00	56	14.7	22.178	S	63.619	W	524		4.9		0.9	95	SALTA PROVINCE, ARGENTINA
a	25	01	10	42.8	32.958	S	178.447	W	33	N	5.1	5.1	1.2	59	SOUTH OF KERMADEC ISLANDS
	25	01	32	19.3	37.010	N	72.873	E	33	N	4.9	4.1	1.1	72	TAJIK SSR
	25	01	57	23.9	36.185	N	27.219	E	10	G			0.6	7	DODECANESE ISLANDS
	25	02	10	03.3*	17.298	N	94.390	W	33	N	4.0		1.1	7	CHIAPAS, MEXICO
	25	02	20	27.3&	60.863	N	152.763	W	147					32	SOUTHERN ALASKA. <AGS-P>.
	25	03	14	59.5*	8.821	S	124.170	E	114	?	4.5		1.3	12	TIMOR
	25	03	23	24.9	40.582	N	20.615	E	10	G			1.1	22	GREECE-ALBANIA BORDER REGION. ML 3.1 (THE).
	25	03	32	48.1	36.605	N	28.788	E	10	G			1.3	8	DODECANESE ISLANDS
	25	03	37	34.9*	2.374	S	79.946	W	33	N	4.1		1.2	9	NEAR COAST OF ECUADOR
	25	03	59	33.8	37.167	N	28.670	E	10	G			1.3	10	TURKEY
	25	05	10	34.0*	32.644	N	30.450	E	33	N			1.2	11	EASTERN MEDITERRANEAN SEA. MD 3.4 (HLW). ML 3.9 (CSS).
	25	05	14	44.7*	60.359	N	138.358	W	10	G			0.5	5	SOUTHERN YUKON TERRITORY, CANADA
	25	05	51	38.3*	9.063	S	116.848	E	33	N	4.1		1.3	7	SUMBAWA ISLAND REGION
	25	06	05	33.4	40.645	N	20.657	E	10	G			0.6	7	GREECE-ALBANIA BORDER REGION. ML 2.7 (SKO).
a	25	06	22	20.3	7.944	N	127.329	E	53	*	5.0	4.3	1.3	70	PHILIPPINE ISLANDS REGION
	25	06	34	18.2%	39.717	N	16.172	E	10	G			1.0	6	SOUTHERN ITALY
	25	06	43	38.1	7.913	N	127.102	E	33	N	4.6		1.2	31	PHILIPPINE ISLANDS REGION
	25	07	24	04.1*	21.002	N	122.128	E	10	G	4.5		1.3	12	TAIWAN REGION
	25	07	31	57.7&	38.800	N	122.790	W	3					6	NORTHERN CALIFORNIA. <BRK>. ML 3.1 (BRK).
	25	07	54	50.0	38.918	N	21.919	E	5	G			1.3	13	GREECE. ML 2.7 (THE). MD 2.9 (ATH).
	25	08	15	04.7%	39.122	N	27.611	E	10	G			0.7	5	TURKEY
	25	08	49	12.7?	39.14	N	27.59	E	10	G			0.1	4	TURKEY
	25	09	02	01.7%	41.538	N	14.814	E	10	G			0.8	6	SOUTHERN ITALY
	25	09	32	57.1	13.139	N	70.085	W	10	G	4.9	4.5	1.1	30	CARIBBEAN SEA
	25	10	11	13.8?	39.08	N	27.57	E	10	G			0.2	4	TURKEY
	25	10	17	54.4%	41.162	N	28.992	E	10	G			0.6	7	TURKEY
	25	10	22	29.0*	35.763	N	118.265	W	5	G			0.9	7	CENTRAL CALIFORNIA. ML 3.4 (BRK).
	25	10	42	40.2	36.711	N	21.257	E	49	*	3.8		1.1	54	SOUTHERN GREECE. MD 3.8 (ATH).
	25	10	54	30.9%	39.285	N	28.251	E	10	G			0.4	5	TURKEY
	25	11	10	31.8%	41.494	N	14.507	E	10	G			0.9	5	SOUTHERN ITALY
	25	12	02	17.7*	28.846	N	33.160	E	10	G			0.6	6	ARAB REPUBLIC OF EGYPT. MD 3.8 (HLW).
	25	12	21	03.9*	14.992	S	70.575	W	215	*	4.6		1.5	24	PERU
	25	12	34	41.9*	44.033	N	149.555	E	33	N	3.7		1.2	8	KURIL ISLANDS
f	25	13	16	06.9	9.814	N	84.828	W	27	G	5.8	6.4	1.0	399	COSTA RICA. Felt (V) at San Jose. Felt throughout Costa Rica, in western Panama and in the San Marcos area, Nicaragua. Depth from broadband displacement seismograms.
f	25	13	22	55.6	9.919	N	84.808	W	22	G	6.2	7.0	1.1	494	COSTA RICA. Ms 6.8 (BRK). Mo=6.0*10**19 Nm (PPT). Ten people slightly injured. Damage (VIII) in the Puntarenas area and about 60 buildings severely damaged (VII) in the San Jose area. Several landslides blocked roads in the area for a short time. Felt throughout Costa Rica and southwestern Nicaragua. Felt (IV) at Almirante and Puerto Armuelles and (III) at David, Panama. Depth from broadband displacement seismograms.
	25	13	52	18.2	45.842	N	14.624	E	10	G			1.1	35	YUGOSLAVIA. MD 3.7 (LJU). ML 3.5 (VKA), 3.5 (KBA). Felt (VI) at Dobra Polje, Videm and Ponikve; (V) at Velike Lasce and on Krk.
	25	14	17	18.8	37.034	N	72.942	E	33	N	6.0	6.3	1.3	474	TAJIK SSR. Slight damage to old buildings in the Pamir Mountains. Felt (VI) at Kharag and Ishkashim and (III) at Dushanbe. Also felt at Abbottabad and Gilgit, Pakistan.
	25	14	28	54.0?	30.57	S	71.62	W	33	N			1.1	8	NEAR COAST OF CENTRAL CHILE
	25	14	50	55.1*	18.399	S	167.931	E	33	N	4.6		1.4	20	VANUATU ISLANDS
	25	15	02	07.6?	47.15	N	0.99	W	10	G			0.4	6	FRANCE. ML 2.1 (LDG).
	25	15	10	40.1	36.979	N	73.062	E	33	N	5.1		1.3	136	NORTHWESTERN KASHMIR
	25	15	39	37.3*	36.983	N	72.591	E	33	N	4.3		1.4	19	AFGHANISTAN-USSR BORDER REGION
	25	15	46	36.3	36.953	N	73.051	E	33	N	5.3	5.2	1.0	209	NORTHWESTERN KASHMIR
	25	15	51	22.4&	36.963	N	121.613	W	4					11	CENTRAL CALIFORNIA. <BRK>. ML 2.9 (BRK).
	25	16	20	35.5*	37.239	N	72.727	E	33	N	4.3		1.2	9	TAJIK SSR
	25	16	22	14.8*	36.824	N	72.659	E	33	N	4.5		1.5	11	AFGHANISTAN-USSR BORDER REGION
	25	16	26	07.5	36.970	N	72.962	E	33	N	4.8		1.3	45	AFGHANISTAN-USSR BORDER REGION
	25	17	13	22.8	36.958	N	72.734	E	33	N	4.7		1.3	21	AFGHANISTAN-USSR BORDER REGION
	25	17	25	46.6	19.625	S	177.544	W	543	*	4.8		1.1	67	FIJI ISLANDS REGION
	25	17	28	26.8	37.131	N	72.938	E	33	N	4.9	4.6	1.0	105	TAJIK SSR
	25	18	11	21.0	36.873	N	23.866	E	159	*			0.9	31	SOUTHERN GREECE
	25	18	23	28.3*	39.214	N	15.075	E	261	?			0.5	14	SOUTHERN ITALY
	25	18	32	31.8*	10.912	S	166.250	E	182	*	4.5		1.0	27	SANTA CRUZ ISLANDS
	25	18	33	07.8	39.956	N	22.411	E	10	G			0.3	8	GREECE. ML 1.7 (THE).
	25	18	59	58.9*	37.148	N	72.825	E	33	N	4.3		0.9	8	TAJIK SSR

	25	20	22	06.1?	7.79	S	128.49	E	129	*	4.6		1.0	13	BANDA SEA
	25	20	53	45.5%	37.447	N	12.318	E	10	G			1.0	9	SICILY
	25	21	28	05.5&	62.385	N	149.507	W	59		3.2			38	CENTRAL ALASKA. <AGS-P>.
	25	21	31	09.1*	36.571	N	21.227	E	33	N			1.3	13	SOUTHERN GREECE. MD 3.2 (ATH).
a	25	21	35	24.4	9.591	N	84.659	W	41		5.6	5.4	0.9	290	COSTA RICA. MD 5.3 (UPA). Ms 5.2 (BRK).
	25	22	26	33.9%	43.770	N	11.535	E	10	G			0.7	5	CENTRAL ITALY
	25	22	44	30.8?	37.95	N	29.88	E	10	G			0.9	4	TURKEY
	26	00	28	06.3*	47.713	S	165.225	E	10	G	4.4	3.8	0.8	12	OFF W. COAST OF S. ISLAND, N.Z.
	26	00	46	50.6*	41.351	N	22.699	E	10	G			0.1	5	YUGOSLAVIA. ML 2.2 (THE).
	26	01	17	33.5%	11.234	N	62.288	W	33	N			0.5	8	WINDWARD ISLANDS. MD 3.7 (TRN).
	26	01	27	18.3&	46.850	N	121.913	W	11					48	WASHINGTON. <SEA>. ML 3.4 (SEA).
	26	01	34	55.4%	39.275	N	28.222	E	10	G			0.8	11	TURKEY
	26	01	51	28.9	44.769	N	6.732	E	10	G			0.6	42	FRANCE. ML 3.0 (GEN), 2.7 (LDG).
	26	03	17	36.1*	29.951	N	132.040	E	33	N	4.9		1.1	18	SOUTHEAST OF SHIKOKU, JAPAN
	26	04	12	42.8	5.236	S	102.520	E	34	D	5.0	4.8	1.1	72	SOUTHERN SUMATERA
	26	05	06	29.6*	6.512	S	130.288	E	182	*	4.5		1.1	14	BANDA SEA
	26	05	24	30.7	26.737	S	70.781	W	30	D	5.1	4.7	1.0	74	NEAR COAST OF NORTHERN CHILE
	26	05	58	22.2	26.793	S	70.793	W	33	N	5.1		1.2	54	NEAR COAST OF NORTHERN CHILE. Felt (IV) at Caldera.
	26	06	18	18.3*	39.142	N	23.624	E	10	G			0.7	13	AEGEAN SEA. ML 2.6 (THE).
	26	08	33	23.8?	39.22	N	27.73	E	10	G			0.3	4	TURKEY
	26	08	45	12.2?	42.78	N	19.16	E	10	G			0.6	4	YUGOSLAVIA. ML 2.0 (TTG).
	26	10	38	15.3%	44.284	N	7.281	E	10	G			0.4	6	NORTHERN ITALY. ML 1.8 (GEN).
	26	10	48	16.2*	9.749	N	84.947	W	10	G	3.3		0.6	6	COSTA RICA
	26	11	23	09.5	5.667	S	112.873	E	33	*	5.0	5.0	1.1	45	JAVA SEA
	26	11	31	29.2%	39.116	N	27.550	E	10	G			0.5	6	TURKEY
	26	11	43	26.6	39.541	N	26.063	E	5				0.8	35	TURKEY. MD 3.6 (ATH). ML 3.4 (THE).
	26	12	11	13.9?	36.52	N	14.88	E	10	G			0.5	5	SICILY
	26	12	28	47.2&	36.568	N	121.198	W	5					17	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK).
	26	12	41	48.7	13.183	N	145.551	E	56		4.9	4.3	0.8	52	MARIANA ISLANDS
	26	13	52	11.0?	31.45	N	35.61	E	10	G			0.3	8	DEAD SEA REGION
	26	15	27	39.1?	37.65	N	20.69	E	10	G			1.1	9	IONIAN SEA. ML 3.3 (ATH).
	26	16	52	51.0?	18.14	N	146.90	E	33	N	4.1		1.4	9	MARIANA ISLANDS
	26	17	35	33.4*	37.111	N	72.673	E	33	N	4.5		1.4	11	TAJIK SSR
	26	19	06	28.5?	31.37	S	69.33	W	33	N			1.5	9	SAN JUAN PROVINCE, ARGENTINA
	26	19	12	28.3&	55.586	N	160.606	W	91					8	ALASKA PENINSULA. <PAL>.
	26	19	12	45.1*	37.137	N	72.839	E	33	N	4.1		1.1	9	TAJIK SSR
	26	20	22	04.8&	62.235	N	150.976	W	76					29	CENTRAL ALASKA. <AGS-P>.
	26	20	31	07.9*	6.231	S	112.399	E	33	N	4.6		1.2	10	JAVA
	26	20	52	22.0&	59.931	N	151.057	W	41		3.0			46	KENAI PENINSULA, ALASKA. <AGS-P>. ML 3.6 (PMR).
	26	21	03	00.5&	60.394	N	152.266	W	79					21	SOUTHERN ALASKA. <AGS-P>.
	26	21	12	30.7?	16.75	N	61.01	W	10	G			0.4	5	LEEWARD ISLANDS. ML 2.7 (FDF).
	26	21	25	45.7*	34.634	S	72.617	W	33	N	5.0		0.4	14	NEAR COAST OF CENTRAL CHILE
	26	21	37	12.3&	58.314	N	152.979	W	73		3.3			23	KODIAK ISLAND REGION. <AGS-P>.
	26	21	53	28.3	17.317	N	121.425	E	28		4.8		1.3	41	LUZON, PHILIPPINE ISLANDS. Felt (I RF) at Callao Caves and Cagayan de Oro.
	26	22	08	57.1	44.462	N	148.772	E	33	N	5.0	5.8	0.9	75	KURIL ISLANDS
	26	22	19	29.8	37.000	N	72.771	E	33	N	4.8		1.2	55	TAJIK SSR
a	26	22	47	16.7	9.253	N	125.606	E	39		5.6	5.5	1.1	190	MINDANAO, PHILIPPINE ISLANDS. One person killed, two injured and some damage in the Santiago area. Felt (IV RF) on Camiguin and (II) at Cotabato. Also felt at Gingoog.
	26	22	57	43.4	39.864	N	23.403	E	10	G			0.7	10	AEGEAN SEA. ML 2.4 (THE).
	26	23	13	26.6?	2.53	N	84.29	W	33	N	4.5	3.9	0.9	9	OFF COAST OF CENTRAL AMERICA
	27	00	02	43.3	43.302	N	4.418	W	10	G			0.8	19	SPAIN. mbLg 3.2 (MDD). ML 3.2 (LDG). Felt (III) at Cervera.
	27	00	03	44.4?	16.75	N	94.16	W	74	?	4.2		0.3	5	OAXACA, MEXICO
	27	00	20	53.6	15.071	S	167.282	E	189	*	5.2		1.1	133	VANUATU ISLANDS
	27	00	27	29.3*	54.635	N	160.931	E	71	D	4.6		1.1	37	NEAR EAST COAST OF KAMCHATKA
	27	00	53	29.2*	31.332	S	69.805	W	33	N			1.1	12	SAN JUAN PROVINCE, ARGENTINA
	27	01	12	31.1	24.649	S	179.996	W	550		4.9		0.7	41	SOUTH OF FIJI ISLANDS
	27	01	13	02.1%	38.980	N	27.741	E	10	G			1.4	6	TURKEY
	27	01	22	28.5*	15.230	S	167.387	E	129	?	5.1		1.1	41	VANUATU ISLANDS
	27	01	59	34.6?	7.78	S	128.53	E	187	?	3.7		1.0	10	BANDA SEA
	27	02	03	28.3&	62.544	N	150.341	W	20					37	CENTRAL ALASKA. <AGS-P>. ML 3.0 (PMR).
	27	02	53	05.9	51.731	N	16.341	E	10	G			0.2	13	POLAND. ML 3.7 (GRF), 3.7 (VKA), 3.4 (KBA).
	27	03	00	20.8	7.850	N	126.961	E	45	D	4.6	4.3	1.3	41	MINDANAO, PHILIPPINE ISLANDS
	27	03	32	12.4	43.208	N	0.641	W	14				0.9	42	PYRENEES. mbLg 3.1 (MDD). ML 3.6 (LDG). Felt (IV) at Born and Soule; (II) at Pau, France.
	27	03	45	45.9&	36.677	N	121.352	W	2					12	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
	27	03	56	41.1?	0.64	S	124.69	E	106	?	4.7		0.4	6	MOLUCCA SEA
	27	04	29	31.9&	61.676	N	151.033	W	72					32	SOUTHERN ALASKA. <AGS-P>.
	27	06	48	20.5	39.114	N	21.896	E	10	G			1.1	6	GREECE. ML 2.7 (THE). MD 2.9 (ATH).
	27	06	53	54.4&	58.624	N	142.750	W	10	G				8	GULF OF ALASKA. <AGS-P>.
	27	07	55	05.3	0.893	S	120.513	E	47	*	4.8	4.4	0.9	24	MINAHASSA PENINSULA
	27	08	37	33.8	46.767	N	10.159	E	6				1.1	17	NORTHERN ITALY. ML 2.7 (KBA).
	27	08	43	27.8	43.397	N	5.427	E	10	G			0.7	16	NEAR SOUTH COAST OF FRANCE. MD 2.6 (STR).
	27	08	54	01.5?	39.07	N	27.64	E	10	G			0.1	4	TURKEY
	27	08	55	27.8?	39.12	N	27.62	E	10	G			0.2	4	TURKEY
	27	09	01	30.7?	42.71	N	12.79	E	10	G			0.9	4	CENTRAL ITALY
	27	09	40	42.0&	64.539	N	152.308	W	59		3.5			55	CENTRAL ALASKA. <AGS-P>.
	27	10	41	09.1	43.211	N	0.652	W	10	G			0.9	13	PYRENEES. ML 3.2 (LDG). mbLg 3.2 (MDD). Felt (IV) at Oloron Sainte Marie, France. Also felt in the Aspe Valley, France.
	27	14	27	21.6	6.675	S	154.849	E	92	*	4.6		1.2	30	SOLOMON ISLANDS
	27	14	52	19.5	9.540	N	84.755	W	36		4.9		1.0	84	COSTA RICA. Felt in the San Jose area.
	27	15	35	25.6	29.445	N	131.436	E	33	N	4.6		1.1	23	RYUKYU ISLANDS REGION
	27	16	21	29.6&	63.281	N	151.212	W	6					25	CENTRAL ALASKA. <AGS-P>.
	27	16	25	54.5*	31.795	S	71.746	W	32				0.4	13	NEAR COAST OF CENTRAL CHILE
	27	16	27	33.3*	31.840	S	71.603	W	10	G			0.4	9	NEAR COAST OF CENTRAL CHILE
	27	16	37	13.1	45.491	N	9.779	E	10	G			1.2	39	NORTHERN ITALY. ML 3.1 (LDG), 3.0 (KBA).
	27	17	04	43.2*	6.041	S	127.817	E	424	*	4.8		0.7	12	BANDA SEA
	27	17	50	47.4%	44.810	N	7.634	E	10	G			0.9	9	NORTHERN ITALY. ML 2.4 (GEN).
	27	19	16	02.4	44.483	N	13.215	E	10	G			0.9	21	ADRIATIC SEA. ML 2.8 (KBA). MD 2.8 (TRI).

	27	19	18	38.3	44.460	N	13.182	E	10	G			0.9	19	ADRIATIC SEA. ML 2.7 (KBA). MD 2.7 (TRI).
	27	19	21	31.9&	40.327	N	124.598	W	8					11	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.4 (BRK). Felt (III) at Rio Dell.
a	27	20	04	16.2	5.298	S	145.865	E	82	D	5.3		0.9	116	EAST PAPUA NEW GUINEA REGION
	27	20	45	56.4*	6.017	S	145.739	E	94	*	4.0		1.2	15	PAPUA NEW GUINEA
	27	21	01	00.3*	4.638	S	152.934	E	74	*	4.6		0.7	17	NEW BRITAIN REGION
	27	22	27	26.7?	39.50	N	25.93	E	10	G			0.6	5	AEGEAN SEA
	27	22	41	24.8*	33.584	S	71.770	W	19	*			0.2	9	NEAR COAST OF CENTRAL CHILE
	28	00	33	43.3	39.302	N	28.225	E	10	G			0.9	9	TURKEY
	28	00	39	56.7%	39.005	N	26.518	E	10	G			0.2	5	TURKEY
	28	00	43	36.0	43.573	N	147.924	E	33	N	4.5		1.1	30	KURIL ISLANDS
	28	00	50	31.5	13.872	N	120.803	E	205		4.6		1.0	36	MINDORO, PHILIPPINE ISLANDS
	28	00	53	57.6?	36.23	S	179.38	E	202	*			1.4	31	OFF E. COAST OF N. ISLAND, N.Z.
a	28	01	20	41.5	21.810	S	175.190	E	10	G	5.1	4.9	1.0	86	SOUTH OF FIJI ISLANDS. Ms 5.1 (BRK).
	28	02	22	35.9	40.200	N	25.063	E	10	G			1.0	35	AEGEAN SEA. ML 3.8 (THE). MD 3.8 (ATH).
	28	02	46	45.4%	40.576	N	27.505	E	10	G			0.5	9	TURKEY
	28	03	30	11.3	38.361	S	176.244	E	171		4.2		1.0	39	NORTH ISLAND, NEW ZEALAND. Felt at Wellington, Napier, Gisborne and Palmerston North. Also felt at Blenheim, South Island.
	28	05	47	31.5	38.191	N	14.930	E	37		4.7		1.3	92	SICILY. MD 4.0 (ATH). ML 4.4 (TTG).
	28	06	08	25.4&	36.850	N	121.578	W	5					22	CENTRAL CALIFORNIA. <BRK>. ML 3.8 (BRK). Felt (II) at Aromas and Moss Landing. Also felt at Pacific Grove and Salinas.
	28	06	54	39.6?	55.38	N	135.11	W	10	G	4.1		0.8	6	OFF COAST OF SOUTHEASTERN ALASKA
	28	07	10	00.8?	13.97	S	74.59	W	89	?	4.4		0.6	10	PERU
	28	07	19	23.6*	23.248	N	142.587	E	33	N	4.6		1.0	9	VOLCANO ISLANDS REGION
	28	08	21	51.0	47.412	N	11.896	E	10	G			1.1	35	AUSTRIA. ML 2.7 (FUR), 2.8 (KBA), 3.0 (GRF), 3.4 (LDG).
	28	10	38	25.9*	23.617	S	70.744	W	33	N	4.1		1.0	6	NEAR COAST OF NORTHERN CHILE. Felt (IV) at Antofagasto.
	28	10	47	25.9&	38.245	N	112.530	W	1					11	UTAH. <SLC-P>. MD 3.1 (SLC). Felt at Beaver.
	28	11	06	45.1*	37.080	N	72.815	E	33	N	4.6		1.3	12	TAJIK SSR
	28	11	34	57.8	39.347	N	26.186	E	10	G			0.9	20	TURKEY. ML 3.6 (ATH).
	28	12	15	20.3	42.458	N	24.241	E	10	G			0.5	10	BULGARIA. ML 3.1 (THE). MD 3.1 (ATH).
	28	12	20	02.8*	35.604	N	28.337	E	29	*			1.2	13	EASTERN MEDITERRANEAN SEA
	28	13	48	01.8?	51.60	N	16.18	E	10	G			0.5	8	POLAND. ML 2.9 (KBA).
	28	14	27	23.3	5.610	S	149.474	E	167		5.3		1.0	89	NEW BRITAIN REGION
	28	14	31	09.2	49.509	N	128.131	W	10	G	4.5		1.3	69	VANCOUVER ISLAND REGION
	28	14	33	01.3?	42.41	N	7.73	E	10	G			0.2	4	WESTERN MEDITERRANEAN SEA. ML 2.7 (LDG).
	28	15	40	27.5&	61.687	N	147.944	W	8					26	SOUTHERN ALASKA. <AGS-P>.
	28	17	24	50.8?	10.86	N	83.91	W	33	N	4.2		1.1	14	COSTA RICA
	28	18	45	53.3*	32.397	S	71.636	W	20				0.7	10	NEAR COAST OF CENTRAL CHILE
	28	18	53	19.7?	19.50	N	67.39	W	10	G			0.3	5	MONA PASSAGE
	28	19	28	56.3*	40.051	N	78.797	E	33	N	4.4		1.0	13	SOUTHERN XINJIANG, CHINA
o	28	19	50	19.9	16.094	S	173.112	W	33	N	5.3	4.3	1.2	104	TONGA ISLANDS. Ms 5.1 (BRK).
	28	19	57	22.6%	46.899	N	0.497	E	10	G			0.8	11	FRANCE. ML 2.3 (LDG).
	28	21	48	15.2%	40.525	N	23.644	E	10	G			0.2	5	GREECE. ML 1.9 (THE).
	28	21	58	31.4	36.490	N	87.381	E	33	N	4.8		0.9	33	SOUTHERN XINJIANG, CHINA
	28	22	27	31.7*	32.340	N	30.886	E	33	N			1.3	11	EASTERN MEDITERRANEAN SEA. MD 4.3 (HLW). ML 3.7 (CSS).
	28	22	56	44.0*	37.085	N	72.776	E	33	N	4.0		0.2	5	TAJIK SSR
	28	23	11	14.2?	43.05	N	0.83	W	10	G			0.2	4	PYRENEES. MD 1.0 (STR).
	29	00	13	22.2	44.366	N	7.176	E	10	G			0.3	16	NORTHERN ITALY. ML 2.3 (GEN), 2.2 (LDG).
	29	01	01	53.9*	49.017	S	109.015	E	10	G	4.9		1.1	19	SOUTHEAST INDIAN RISE
	29	01	42	24.3	20.930	S	175.910	W	33	N	5.0	4.9	0.9	44	TONGA ISLANDS
	29	01	49	27.7&	38.833	N	122.797	W	3					11	NORTHERN CALIFORNIA. <BRK>. ML 3.3 (BRK).
	29	03	10	19.2	38.337	N	0.202	E	13				1.1	34	SPAIN. mbLg 3.7 (MDD). ML 3.7 (LDG). Felt (III) at Altea, Benidorm and Villajoyosa.
	29	04	11	18.6%	62.121	N	5.981	E	10	G			0.8	9	SOUTHERN NORWAY. MD 2.9 (BER). Felt in northwestern Norway.
a	29	04	34	04.2	45.331	N	150.204	E	50	D	5.2	4.1	0.7	230	KURIL ISLANDS
	29	04	44	17.6&	40.442	N	124.175	W	23					11	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.5 (BRK). Felt (III) at Rio Dell.
	29	05	36	42.0	44.805	N	141.673	E	262	*	4.4		0.9	51	HOKKAIDO, JAPAN REGION
	29	05	54	14.7?	32.86	S	177.17	W	33	N	4.6	3.8	1.6	7	SOUTH OF KERMADEC ISLANDS
	29	06	03	30.6&	63.329	N	149.699	W	104					51	CENTRAL ALASKA. <AGS-P>.
	29	06	48	18.3?	18.44	S	168.02	E	33	N	4.6	4.0	1.7	10	VANUATU ISLANDS
	29	08	34	13.6?	33.40	S	71.79	W	31	*			0.4	7	NEAR COAST OF CENTRAL CHILE
	29	08	38	11.1	39.867	N	28.908	E	10	G			1.0	12	TURKEY
	29	09	00	14.0?	39.13	N	27.54	E	10	G			0.5	4	TURKEY
	29	09	14	33.7	53.768	N	159.700	W	33	N	4.5		1.2	28	SOUTH OF ALASKA
	29	09	54	13.2*	19.966	S	175.548	E	33	N	4.7	4.2	1.1	27	SOUTH OF FIJI ISLANDS
	29	10	29	51.3%	39.884	N	28.918	E	10	G			0.9	8	TURKEY
	29	11	49	15.7?	51.19	N	16.03	E	10	G			0.9	4	POLAND
	29	12	05	54.5	39.944	N	23.884	E	10	G			0.9	29	AEGEAN SEA. ML 3.2 (THE), 3.4 (ATH).
	29	12	20	55.0*	59.987	N	153.278	W	155	*	3.5		0.7	10	SOUTHERN ALASKA
	29	13	25	03.0*	41.245	N	122.129	W	5	G			0.6	5	NORTHERN CALIFORNIA. ML 2.9 (BRK).
a	29	14	15	44.8	16.572	N	145.831	E	24	D	5.3	4.6	1.0	116	MARIANA ISLANDS
	29	14	36	29.2	16.546	N	145.867	E	33	N	4.8		1.1	32	MARIANA ISLANDS
a	29	16	19	15.8	39.408	N	73.256	E	25	D	5.4	5.1	1.0	312	TAJIK-XINJIANG BORDER REGION. Felt (IV) at Sufi-Kurgan and (III) at Osh, USSR.
	29	16	24	09.3?	39.40	N	25.96	E	10	G			1.6	6	AEGEAN SEA
	29	16	36	05.7	55.660	N	158.893	W	56		4.4		0.8	39	ALASKA PENINSULA
	29	16	44	19.9*	50.308	N	18.892	E	10	G			0.5	6	POLAND. ML 3.8 (KBA), 3.3 (VKA), 3.5 (KRA).
	29	17	17	56.6?	31.22	S	178.11	W	88	?	4.7		1.3	13	KERMADEC ISLANDS REGION
	29	18	26	39.2	45.833	N	14.633	E	10	G			0.5	8	YUGOSLAVIA. MD 2.5 (LJU), 2.3 (TRI).
	29	18	50	04.7	45.810	N	14.667	E	10	G			0.9	7	YUGOSLAVIA. MD 2.5 (LJU), 2.3 (TRI).
	29	19	51	25.5	51.595	N	16.235	E	19				0.9	28	POLAND. ML 3.1 (KRA), 4.0 (VKA), 3.6 (KBA).
	29	19	55	37.3?	51.32	N	16.08	E	10	G			0.9	5	POLAND. ML 3.5 (VKA).
	29	19	56	34.2	51.120	N	15.787	E	10	G	4.5		1.1	17	POLAND. ML 4.2 (VKA), 4.0 (KBA), 4.1 (GRF).
	29	21	49	16.2?	9.86	N	59.19	W	33	N			0.8	10	NORTH ATLANTIC OCEAN. MD 3.8 (TRN).
	29	23	30	29.8?	34.19	S	72.30	W	60	?	4.9		0.7	15	NEAR COAST OF CENTRAL CHILE
	29	23	31	52.3*	40.221	N	21.929	E	10	G			0.8	6	GREECE. ML 2.0 (THE).
	29	23	47	55.2%	39.889	N	28.916	E	10	G			0.8	10	TURKEY
	30	00	31	40.1?	5.09	S	129.35	E	33	N	4.7		1.9	4	BANDA SEA
a	30	00	42	06.9	20.231	N	122.038	E	124		5.5		0.9	317	PHILIPPINE ISLANDS REGION

	30	00	53	55.6%	39.066	N	27.156	E	10	G			0.7	6	TURKEY
	30	01	54	09.0&	47.280	N	68.230	W	18	G				8	GASPE PENINSULA. <OTT-P>. mbLg 3.5 (OTT).
	30	02	13	01.9	52.418	N	170.669	W	33	N	4.7		1.0	57	FOX ISLANDS, ALEUTIAN ISLANDS
	30	02	15	01.1?	39.84	N	24.04	E	10	G			0.6	7	AEGEAN SEA. ML 2.3 (THE).
	30	02	16	42.6	62.778	N	17.129	E	10	G			0.8	9	SWEDEN. MD 2.9 (BER).
	30	02	33	31.0?	39.96	N	23.85	E	10	G			0.4	4	AEGEAN SEA. ML 2.2 (THE).
	30	02	47	32.2?	51.08	N	15.93	E	10	G			1.4	4	POLAND
	30	02	53	57.6	16.479	N	145.990	E	22	D	5.3	4.2	1.1	73	MARIANA ISLANDS
	30	02	59	04.2	40.281	N	22.028	E	10	G			0.7	9	GREECE. ML 2.4 (THE).
	30	03	39	51.9?	2.66	S	134.01	E	33	N	4.1		0.7	6	WEST IRIAN REGION
	30	03	58	03.2*	16.520	N	146.265	E	33	N	4.3		1.6	15	MARIANA ISLANDS
	30	04	22	48.1	39.895	N	23.989	E	10	G			0.8	14	AEGEAN SEA. ML 2.6 (THE).
	30	05	20	30.2*	23.641	S	179.194	E	530	*	4.7		1.4	27	SOUTH OF FIJI ISLANDS
	30	05	44	26.1&	38.635	N	122.278	W	2					13	NORTHERN CALIFORNIA. <BRK>. ML 3.3 (BRK).
	30	07	08	00.0	36.426	N	70.534	E	210		4.5		0.9	57	HINDU KUSH REGION
	30	07	29	54.6*	17.633	N	61.905	W	17	*			0.5	8	LEEWARD ISLANDS. ML 3.0 (FDF).
	30	07	41	53.1*	16.525	N	146.013	E	33	N	4.4		1.0	8	MARIANA ISLANDS
	30	07	43	34.7	16.507	N	145.937	E	33	N	5.1	4.2	1.1	61	MARIANA ISLANDS
	30	08	11	32.2*	24.303	S	179.846	E	628	?	4.9		1.0	26	SOUTH OF FIJI ISLANDS
	30	08	27	19.2	16.479	N	145.956	E	33	N	4.8		1.1	43	MARIANA ISLANDS
	30	10	26	29.8*	40.428	N	137.722	E	300	*	4.2		0.6	10	EASTERN SEA OF JAPAN
	30	10	43	57.8	34.820	N	29.042	E	33	N			1.1	13	EASTERN MEDITERRANEAN SEA. MD 3.9 (ATH), 4.0 (HLW). ML 4.1 (CSS).
	30	11	35	39.9	61.450	N	150.943	W	33	N			0.7	8	SOUTHERN ALASKA. ML 3.0 (PMR).
	30	11	35	41.7	16.600	N	145.948	E	33	N	4.6		1.2	31	MARIANA ISLANDS
	30	12	44	38.4%	40.101	N	28.087	E	10	G			0.4	5	TURKEY
	30	13	22	23.2?	32.91	S	72.40	W	10	G			1.5	7	OFF COAST OF CENTRAL CHILE
	30	13	48	21.2	39.514	N	28.472	E	10	G			1.2	16	TURKEY
	30	14	05	59.7?	31.40	N	51.24	E	33	N	4.1		1.5	6	IRAN
	30	14	57	00.8?	31.45	S	70.60	W	33	N			0.7	7	CHILE-ARGENTINA BORDER REGION
	30	15	07	28.7	16.349	N	145.933	E	33	N	4.8		1.0	26	MARIANA ISLANDS
	30	15	09	13.3%	11.423	N	61.902	W	10	G			0.5	6	WINDWARD ISLANDS
	30	18	35	42.0	36.490	N	25.470	E	10	G			1.2	8	DODECANESE ISLANDS. MD 3.6 (ATH).
	30	19	26	46.5*	38.454	N	28.206	E	10	G			0.7	5	TURKEY
	30	19	41	37.2?	0.89	S	79.52	W	33	N			0.9	5	ECUADOR
	30	21	40	02.0?	0.47	S	77.43	W	10	G			0.5	5	ECUADOR
	30	21	51	30.9*	51.165	N	15.991	E	10	G			0.6	6	POLAND
	30	22	33	49.1?	44.88	N	6.52	E	10	G			1.0	6	FRANCE. ML 2.0 (GEN).
	31	01	38	17.1	39.932	N	24.001	E	14		4.1		1.2	149	AEGEAN SEA. ML 4.4 (THE), 4.4 (ATH).
	31	01	39	54.5	39.926	N	23.837	E	10	G	4.4		0.9	10	AEGEAN SEA. ML 4.0 (THE).
	31	01	46	31.7?	35.51	N	52.32	E	10	G			0.7	5	IRAN
	31	01	48	40.2	39.943	N	24.050	E	13		4.0		1.3	48	AEGEAN SEA. ML 3.7 (THE), 3.7 (ATH).
	31	01	53	29.9	39.962	N	23.874	E	10	G			1.0	15	AEGEAN SEA. ML 3.0 (THE). MD 3.2 (ATH).
	31	02	03	33.7	39.977	N	23.930	E	10	G			1.1	13	AEGEAN SEA. ML 2.8 (THE).
	31	02	06	32.3*	40.010	N	23.826	E	10	G			1.3	8	GREECE. ML 2.5 (THE).
	31	02	11	02.5	37.375	N	23.251	E	127	*			1.0	23	SOUTHERN GREECE
	31	02	58	38.7	39.982	N	23.877	E	10	G			0.8	8	AEGEAN SEA. ML 2.5 (THE).
	31	03	10	49.5?	51.51	N	16.31	E	10	G			1.7	4	POLAND
	31	03	15	59.5	39.935	N	23.921	E	10	G			0.9	7	AEGEAN SEA. ML 2.3 (THE).
	31	03	50	10.0	40.024	N	23.833	E	10	G			0.9	15	GREECE. ML 3.0 (THE), 3.1 (ATH).
	31	03	59	20.6	39.957	N	22.468	E	10	G			0.5	7	GREECE. ML 2.1 (THE).
	31	04	21	39.2	39.986	N	24.021	E	10	G			1.0	21	AEGEAN SEA. ML 3.5 (THE), 3.5 (ATH).
	31	04	27	16.8?	16.46	S	176.83	W	432	*	4.0		0.4	7	FIJI ISLANDS REGION
	31	04	52	01.6?	24.00	S	179.91	W	499	?	4.6		0.8	21	SOUTH OF FIJI ISLANDS
	31	05	18	49.6	13.100	N	70.215	W	10	G	4.5	4.7	1.0	32	CARIBBEAN SEA
	31	06	19	28.1%	39.557	N	23.601	E	10	G			0.5	6	AEGEAN SEA. ML 2.6 (THE).
	31	06	34	02.8?	39.80	N	24.13	E	10	G			0.7	6	AEGEAN SEA. ML 2.3 (THE).
	31	06	35	53.6	16.495	N	145.892	E	33	N	4.7	4.1	0.9	40	MARIANA ISLANDS
	31	07	08	56.9%	47.402	N	1.019	W	10	G			0.6	5	FRANCE. ML 2.4 (LDG).
	31	08	19	22.6&	59.838	N	151.766	W	65		2.7			27	KENAI PENINSULA, ALASKA. <AGS-P>.
	31	08	29	30.7	45.114	N	7.387	E	5	G			0.7	24	NORTHERN ITALY. ML 2.6 (GEN), 2.4 (LDG).
	31	08	54	55.6*	23.539	S	114.988	W	10	G	5.0	4.9	1.2	37	EASTER ISLAND REGION
	31	10	02	15.4*	2.779	S	79.403	W	86	?	4.4		1.0	16	NEAR COAST OF ECUADOR
	31	10	02	33.2?	39.61	N	29.36	E	10	G			0.6	4	TURKEY
	31	10	33	42.5%	40.010	N	23.889	E	10	G			1.1	5	GREECE. ML 2.5 (THE).
	31	10	56	53.5*	46.048	N	16.156	E	5	G			0.7	9	YUGOSLAVIA. MD 3.0 (LJU).
	31	11	01	09.8*	44.504	N	6.719	E	10	G			0.2	6	FRANCE. ML 2.3 (GEN).
	31	11	26	11.3%	39.879	N	24.071	E	10	G			0.6	8	AEGEAN SEA. ML 2.5 (THE).
	31	12	12	23.7*	53.889	N	163.413	E	33	N	4.5		0.8	17	OFF EAST COAST OF KAMCHATKA
	31	12	14	16.2?	39.15	N	27.63	E	10	G			0.3	4	TURKEY
	31	12	20	14.7*	8.196	N	126.428	E	33	N	4.5		0.5	15	MINDANAO, PHILIPPINE ISLANDS
	31	12	58	51.4?	39.09	N	27.60	E	10	G			0.6	4	TURKEY
	31	13	28	59.2&	36.148	N	120.748	W	9					16	CENTRAL CALIFORNIA. <BRK>. ML 2.9 (BRK).
	31	13	48	34.0	39.968	N	23.985	E	10	G	3.7		0.9	31	AEGEAN SEA. ML 3.7 (THE), 3.5 (ATH).
	31	14	08	02.5	16.451	N	145.800	E	33	N	4.7	3.8	1.1	30	MARIANA ISLANDS
	31	14	16	16.4&	60.003	N	152.609	W	84					46	SOUTHERN ALASKA. <AGS-P>.
	31	16	37	13.9	39.942	N	23.877	E	10	G			1.0	13	AEGEAN SEA. ML 3.0 (THE). MD 3.4 (ATH).
	31	16	54	51.0*	16.006	S	167.805	E	33	N	4.8	4.0	1.0	37	VANUATU ISLANDS
	31	16	58	45.4*	35.269	N	4.541	W	10	G			1.2	6	STRAIT OF GIBRALTAR. mbLg 2.5 (MDD).
	31	17	42	01.1	36.229	N	137.868	E	16		4.4	4.1	1.1	18	HONSHU, JAPAN
	31	17	45	05.6&	62.835	N	150.546	W	83					24	CENTRAL ALASKA. <AGS-P>.
	31	18	51	33.5	39.948	N	23.857	E	10	G			1.0	13	AEGEAN SEA. ML 2.7 (THE).
f	31	19	31	42.7	42.891	N	146.969	E	21	G	5.9	5.8	0.9	384	OFF COAST OF HOKKAIDO, JAPAN. Ms 5.3 (BRK). Depth from broadband displacement seismograms.
	31	20	15	25.6	39.982	N	23.798	E	10	G			1.1	12	AEGEAN SEA. ML 2.4 (THE).
	31	20	19	35.3*	39.970	S	45.783	E	10	G	5.3	5.8	1.3	36	ATLANTIC-INDIAN RISE
	31	20	55	34.2	42.960	N	146.980	E	41	D	4.7	5.0	0.9	54	OFF COAST OF HOKKAIDO, JAPAN
	31	21	05	46.8&	61.624	N	151.945	W	111					17	SOUTHERN ALASKA. <AGS-P>.
	31	21	09	23.5	42.792	N	147.001	E	35	D	4.7		1.0	64	OFF COAST OF HOKKAIDO, JAPAN
	31	21	12	34.3	42.853	N	146.973	E	33	N	4.9	4.5	1.2	82	OFF COAST OF HOKKAIDO, JAPAN
	31	21	47	58.2	39.981	N	23.841	E	10	G			1.2	17	AEGEAN SEA. ML 2.9 (THE), 3.2 (ATH).
	31	22	59	48.0&	32.380	N	115.240	W	6	G	3.4			21	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 4.3 (PAS).

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

01 02 23 23.10 53.340N 160.030E 27km
5.4mb (60 obs.) 5.6Msz (23 obs.)
NEAR EAST COAST OF KAMCHATKA
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 12S, 27C
Centroid Location:
Origin Time 02:23:30.3 0.4
Lat 53.48N 0.07 Lon 160.06E 0.07
Dep 33.0 FIX Half-durotion 3.1
Principal Axes:
Scale 10**17 Nm
T Val= 5.87 Plg= 6 Azm=268
N -0.82 64 10
P -5.04 25 175
Best Double Couple:Mo=5.5*10**17
NP1:Strike=315 Dip=68 Slip=-166
NP2: 219 77 -23

01 07 35 21.09 51.218N 175.214W 33km
4.9mb (27 obs.) 4.6Msz (3 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS.
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 13S, 23C
Centroid Locotion:
Origin Time 07:35:27.3 0.9
Lot 51.88N 0.17 Lon 175.14W 0.12
Dep 20.8 6.4 Half-durotion 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 6.59 Plg=52 Azm= 21
N -0.65 28 248
P -5.94 24 145
8est Double Couple:Mo=6.3*10**16
NP1:Strike=193 Dip=33 Slip= 30
NP2: 77 74 120

01 16 06 00.84 7.892S 121.112E 39km
5.5mb (33 obs.) 4.9Msz (15 obs.)
FLORES SEA
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 15S, 39C
Centroid Location:
Origin Time 16:06: 4.6 0.5
Lot 7.66S 0.05 Lon 121.65E 0.07
Dep 33.5 4.7 Half-durotion 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 2.68 Plg=11 Azm= 42
N 0.61 79 229
P -3.29 1 133
8est Double Couple:Mo=3.0*10**17
NP1:Strike=178 Dip=81 Slip= 7
NP2: 87 83 171

01 21 40 58.94 30.614N 131.099E 58km
5.1mb (25 obs.) 5.0Msz (4 obs.)
KYUSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 6S, 9C
Centroid Locotion:
Origin Time 21:41: 1.4 1.8
Lot 30.37N 0.18 Lon 130.34E 0.26
Dep 55.215.3 Half-durotion 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 8.27 Plg=54 Azm=347
N 1.25 14 238
P -9.52 32 139
Best Double Couple:Mo=8.9*10**16
NP1:Strike=188 Dip=18 Slip= 39
NP2: 60 79 104

02 22 06 25.25 21.934S 174.135W 33km
5.4mb (24 obs.) 4.9Msz (8 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 13S, 23C
Centroid Location:
Origin Time 22:06:35.2 2.8
Lot 21.88S 0.18 Lon 174.68W 0.19
Dep 15.0 FIX Half-durotion 1.7
Principal Axes:
Scale 10**16 Nm
T Val= 6.21 Plg=63 Azm=343
N 0.66 3 246
P -6.87 27 154
Best Double Couple:Mo=6.5*10**16
NP1:Strike=236 Dip=18 Slip= 79
NP2: 67 72 94

03 05 11 33.72 32.097N 139.619E 143km
5.3mb (65 obs.)
SOUTH OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 11C
Centroid Location:
Origin Time 05:11:37.2 1.1
Lot 32.14N 0.09 Lon 139.31E 0.13
Dep 145.9 3.1 Half-durotion 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 7.98 Plg=39 Azm= 71
N -0.11 11 170
P -7.88 48 273
Best Double Couple:Mo=7.9*10**16
NP1:Strike=103 Dip=12 Slip=-158
NP2: 351 86 -79

03 12 16 27.96 22.122S 175.163E 33km
6.3mb (32 obs.) 7.4Msz (20 obs.)
SOUTH OF FIJI ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=135 Dip=83 Slip= 156
NP2: 228 66 8
Principal Axes:
T Plg=22 Azm= 89
P 11 184
Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting with o moderote reverse component. The preferred foult plone is not determined.
RADIATED ENERGY
No. of sto: 8 Focal mech. F
Energy 1.7±0.6*10**15 Nm
MOMENT TENSOR SOLUTION
Dep 23 No. of sto: 14
Principal Axes:
Scale 10**20 Nm
T Val= 1.37 Plg= 7 Azm= 96
N -0.05 76 338
P -1.32 13 187
Best Double Couple:Mo=1.3*10**20
NP1:Strike=231 Dip=76 Slip= -4
NP2: 322 86 -166
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 42C M.W.: 11S, 33C
Centroid Locotion:
Origin Time 12:16:43.7 0.1
Lot 22.05S 0.01 Lon 175.35E 0.01
Dep 25.3 1.2 Half-duration 10.0
Principal Axes:
Scale 10**20 Nm
T Val= 2.75 Plg=18 Azm= 90
N 0.53 68 309
P -3.27 13 184
Best Double Couple:Mo=3.0*10**20
NP1:Strike=228 Dip=68 Slip= 4
NP2: 137 87 158

04 17 21 59.05 15.539S 167.568E 141km
5.4mb (36 obs.)
VANUATU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 28C
Centroid Location:
Origin Time 17:21:40.4 0.8
Lot 15.68S 0.10 Lon 168.62E 0.09
Dep 33.0 FIX Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 7.39 Plg=13 Azm=144
N 1.75 77 306
P -9.14 4 53
Best Double Couple:Mo=8.3*10**16
NP1:Strike=187 Dip=78 Slip= 174
NP2: 279 84 12

04 19 46 19.67 28.925N 66.331E 10km
5.8mb (71 obs.) 6.1Msz (34 obs.)
PAKISTAN
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=235 Dip=55 Slip= 45
NP2: 115 55 135
Principal Axes:
T Plg=55 Azm= 85
P 0 355
Comment: The focal mechanism is poorly controlled and corresponds to reverse foulting with o large strike-slip component. The preferred foult plone is not determined.
RADIATED ENERGY
No. of sto: 7 Focal mech. F
Energy 6.2±1.7*10**12 Nm
MOMENT TENSOR SOLUTION
Dep 30 No. of sto: 13
Principal Axes:
Scale 10**17 Nm
T Val= 7.61 Plg=51 Azm= 93
N 1.50 37 247
P -9.11 13 347
Best Double Couple:Mo=8.4*10**17
NP1:Strike=114 Dip=45 Slip= 147
NP2: 229 67 50
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 35C
Centroid Locotion:
Origin Time 19:46:23.9 0.3
Lot 28.66N 0.04 Lon 66.16E 0.03
Dep 28.0 FIX Half-durotion 4.0
Principal Axes:
Scale 10**18 Nm
T Val= 1.32 Plg= 6 Azm=233
N 0.07 77 350
P -1.39 11 142
Best Double Couple:Mo=1.4*10**18
NP1:Strike=278 Dip=78 Slip=-176
NP2: 187 86 -12

05 16 38 12.57 18.318S 168.063E 21km
5.6mb (34 obs.) 7.0Msz (32 obs.)
VANUATU ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=155 Dip=70 Slip= 45
NP2: 46 48 153
Principal Axes:
T Plg=45 Azm= 20
P 13 276
Comment: The focal mechanism is poorly controlled and corresponds to reverse foulting with o large strike-slip component. The preferred foult plane is not determined.
RADIATED ENERGY
No. of sto: 8 Focal mech. C
Energy 1.3±0.3*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 22 No. of sto: 16
Principal Axes:
Scale 10**19 Nm
T Val= 5.35 Plg=26 Azm= 14
N -0.11 64 189
P -5.25 2 283
Best Double Couple:Mo=5.3*10**19
NP1:Strike= 56 Dip=70 Slip= 162
NP2: 152 73 21
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 49C M.W.: 11S, 29C
Centroid Location:
Origin Time 16:38:21.8 0.2
Lot 18.35S 0.01 Lon 168.04E 0.01
Dep 36.9 0.7 Half-duration 9.0
Principal Axes:
Scale 10**19 Nm
T Val= 3.42 Plg=71 Azm= 47
N -0.13 7 157
P -3.29 18 249
8est Double Couple:Mo=3.3*10**19
NP1:Strike=350 Dip=28 Slip= 104
NP2: 153 63 83

05 20 47 00.76 36.907N 73.021E 12km
5.8mb (90 obs.) 6.0Msz (12 obs.)
NORTHWESTERN KASHMIR
MOMENT TENSOR SOLUTION

Dep 22 No. of sta: 10
Principal Axes:
Scale 10**18 Nm
T Val= 1.98 Plg=18 Azm= 54
N -0.01 16 319
P -1.98 65 191
Best Double Couple:Mo=2.0*10**18
NP1:Strike=169 Dip=30 Slip= -57
NP2: 311 65 -108
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 31C
Centroid Location:
Origin Time 20:47: 6.7 0.2
Lat 37.04N 0.06 Lon 72.85E 0.05
Dep 17.5 2.7 Half-duration 4.3
Principal Axes:
Scale 10**18 Nm
T Val= 2.10 Plg=16 Azm= 71
N -0.29 24 334
P -1.81 60 192
Best Double Couple:Mo=2.0*10**18
NP1:Strike=192 Dip=36 Slip= -46
NP2: 322 65 -117

06 13 30 58.41 11.147S 117.440E 22km
5.6mb (38 obs.) 4.8Msz (14 obs.)
SOUTH OF SUMBAWA ISLAND
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 31C
Centroid Location:
Origin Time 13:31: 2.1 0.6
Lat 11.52S 0.07 Lon 117.62E 0.08
Dep 33.0 FIX Half-duration 2.2
Principal Axes:
Scale 10**17 Nm
T Val= 2.17 Plg= 0 Azm=147
N -0.11 12 57
P -2.06 78 237
Best Double Couple:Mo=2.1*10**17
NP1:Strike=250 Dip=46 Slip= -73
NP2: 45 46 -107

06 18 07 04.76 36.909N 73.038E 20km
5.0mb (40 obs.) 4.9Msz (6 obs.)
NORTHWESTERN KASHMIR
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 23C
Centroid Location:
Origin Time 18:07: 8.7 0.6
Lat 37.18N 0.11 Lon 72.84E 0.08
Dep 33.0 FIX Half-duration 1.9
Principal Axes:
Scale 10**17 Nm
T Val= 1.52 Plg=20 Azm= 71
N -0.13 25 331
P -1.39 58 195
Best Double Couple:Mo=1.5*10**17
NP1:Strike=195 Dip=33 Slip= -41
NP2: 321 69 -116

06 21 39 50.26 36.913N 73.095E 24km
5.2mb (55 obs.) 4.7Msz (11 obs.)
NORTHWESTERN KASHMIR
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 22C
Centroid Location:
Origin Time 21:39:53.8 0.7
Lat 37.20N 0.12 Lon 73.08E 0.10
Dep 17.4 4.8 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 6.88 Plg= 0 Azm=264
N -0.91 7 354
P -5.97 83 174
Best Double Couple:Mo=6.4*10**16
NP1:Strike=347 Dip=45 Slip=-100
NP2: 182 45 -80

07 02 16 18.28 3.517N 126.702E 85km
5.1mb (11 obs.)
TALAUD ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 22C
Centroid Location:
Origin Time 02:16:15.7 0.9
Lat 4.01N 0.13 Lon 127.56E 0.16
Dep 15.710.0 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 6.51 Plg=28 Azm=158
N -0.80 51 289
P -5.72 25 54
Best Double Couple:Mo=6.1*10**16
NP1:Strike=195 Dip=51 Slip= 177
NP2: 287 88 39

07 18 22 03.19 17.295S 66.675E 10km
5.2mb (14 obs.) 5.2Msz (12 obs.)
MASCARENE ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 39C
Centroid Location:
Origin Time 18:22:14.0 0.2
Lat 17.03S 0.03 Lon 66.41E 0.03
Dep 15.0 FIX Half-duration 3.5
Principal Axes:
Scale 10**17 Nm
T Val= 9.97 Plg=13 Azm=102
N -2.00 72 240
P -7.98 11 9
Best Double Couple:Mo=9.0*10**17
NP1:Strike=145 Dip=72 Slip= 179
NP2: 236 89 18

08 07 08 43.33 11.625N 140.998E 45km
5.4mb (40 obs.) 4.6Msz (11 obs.)
WEST CAROLINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 27C
Centroid Location:
Origin Time 07:08:45.2 0.4
Lat 11.46N 0.05 Lon 140.85E 0.08
Dep 43.4 4.9 Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Val= 8.16 Plg=79 Azm= 32
N 3.43 9 250
P -11.59 7 159
Best Double Couple:Mo=9.9*10**16
NP1:Strike=239 Dip=39 Slip= 76
NP2: 77 52 101

08 09 47 45.34 58.391N 152.960W 67km
5.8mb (84 obs.)
KODIAK ISLAND REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 35C
Centroid Location:
Origin Time 09:47:50.5 0.3
Lat 58.30N 0.06 Lon 153.17W 0.07
Dep 59.7 3.0 Half-duration 2.6
Principal Axes:
Scale 10**17 Nm
T Val= 3.58 Plg= 3 Azm=126
N -0.25 52 220
P -3.33 37 33
Best Double Couple:Mo=3.5*10**17
NP1:Strike=176 Dip=62 Slip=-154
NP2: 73 67 -31

08 18 57 01.43 25.452N 96.559E 33km
4.8mb (29 obs.) 5.1Msz (6 obs.)
BURMA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 15C
Centroid Location:
Origin Time 18:57: 5.1 0.7
Lat 25.11N 0.09 Lon 96.61E 0.11
Dep 56.5 8.9 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 7.92 Plg=17 Azm=349
N -0.49 71 143
P -7.44 8 256
Best Double Couple:Mo=7.7*10**16
NP1:Strike= 32 Dip=73 Slip= 173
NP2: 124 84 18

09 12 34 03.36 60.307N 152.286W 85km
5.0mb (47 obs.)
SOUTHERN ALASKA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 27C
Centroid Location:
Origin Time 12:34: 4.6 0.9
Lat 60.54N 0.08 Lon 152.34W 0.17
Dep 110.2 3.9 Half-duration 1.8
Principal Axes:
Scale 10**16 Nm
T Val= 10.47 Plg=45 Azm=269
N -0.34 43 109
P -10.14 11 9
Best Double Couple:Mo=1.0*10**17
NP1:Strike= 60 Dip=51 Slip= 28
NP2: 311 68 137

10 03 31 20.85 21.797S 170.542E 51km
5.1mb (11 obs.)
LOYALTY ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 25C
Centroid Location:
Origin Time 03:31:26.2 0.7
Lat 21.84S 0.08 Lon 169.86E 0.07
Dep 53.9 5.0 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 10.70 Plg= 7 Azm=321
N -1.17 59 63
P -9.53 30 227
Best Double Couple:Mo=1.0*10**17
NP1:Strike= 8 Dip=64 Slip=-162
NP2: 270 74 -27

10 10 15 03.90 50.907N 157.244E 51km
5.7mb (86 obs.)
KURIL ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 45 Dip=67 Slip= 90
NP2: 225 23 90
Principal Axes:
T Plg=68 Azm=315
P 22 135
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 53 No. of sta: 9
Principal Axes:
Scale 10**17 Nm
T Val= 2.13 Plg=85 Azm= 5
N -0.02 4 221
P -2.12 3 130
Best Double Couple:Mo=2.1*10**17
NP1:Strike=216 Dip=42 Slip= 84
NP2: 44 48 95
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 32C
Centroid Location:
Origin Time 10:15: 8.5 0.5
Lat 50.67N 0.05 Lon 157.60E 0.06
Dep 48.1 3.2 Half-duration 2.1
Principal Axes:
Scale 10**17 Nm
T Val= 1.57 Plg=73 Azm= 21
N 0.55 17 213
P -2.12 4 122
Best Double Couple:Mo=1.8*10**17
NP1:Strike=195 Dip=44 Slip= 65
NP2: 48 51 112

11 00 55 31.29 37.278S 78.241E 10km
5.1mb (16 obs.) 4.9Msz (5 obs.)
MID-INDIAN RISE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 23C
Centroid Location:
Origin Time 00:55:39.6 0.9
Lat 37.30S 0.10 Lon 78.47E 0.09
Dep 15.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Val= 9.89 Plg=12 Azm=272
N -1.32 74 135
P -8.58 11 4
Best Double Couple:Mo=9.2*10**16
NP1:Strike= 48 Dip=74 Slip= 1
NP2: 318 89 164

11 22 20 50.49 20.529S 168.207E 38km
5.3mb (19 obs.) 5.3Msz (6 obs.)
LOYALTY ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN

L.P.B.: 13S, 29C
Centroid Location:
Origin Time 22:20:54.6 0.3
Lat 20.68S 0.04 Lon 167.78E 0.04
Dep 15.0 FIX Half-duration 2.4
Principal Axes:
Scale 10**17 Nm
T Val= 3.35 Plg= 7 Azm= 85
N -0.63 32 351
P -2.72 57 186
Best Double Couple:Mo=3.0*10**17
NP1:Strike=206 Dip=48 Slip= -44
NP2: 329 59 -128

11 22 46 34.68 33.493N 138.654E 24km
5.3mb (44 obs.) 4.6Msz (2 obs.)
SOUTH OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 20C
Centroid Location:
Origin Time 22:46:36.8 0.5
Lat 33.45N 0.06 Lon 138.04E 0.06
Dep 52.1 5.8 Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 2.17 Plg= 0 Azm=269
N -0.38 83 0
P -1.78 7 179
Best Double Couple:Mo=2.0*10**17
NP1:Strike=314 Dip=85 Slip=-175
NP2: 223 85 -5

12 12 59 50.65 47.895S 165.318E 19km
5.4mb (7 obs.) 5.0Msz (2 obs.)
OFF W. COAST OF S. ISLAND, N.Z.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 31C
Centroid Location:
Origin Time 12:59:57.3 0.6
Lat 47.56S 0.07 Lon 164.59E 0.07
Dep 15.0 FIX Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.84 Plg= 0 Azm=162
N -0.46 90 180
P -1.38 0 72
Best Double Couple:Mo=1.6*10**17
NP1:Strike=207 Dip=90 Slip=-180
NP2: 297 90 0

12 13 32 55.50 3.158S 128.838E 26km
5.2mb (27 obs.) 5.0Msz (11 obs.)
CERAM
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 17C
Centroid Location:
Origin Time 13:33: 3.6 0.6
Lat 3.38S 0.05 Lon 128.84E 0.11
Dep 71.7 7.7 Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.45 Plg=61 Azm=256
N 0.68 25 110
P -2.13 14 14
Best Double Couple:Mo=1.8*10**17
NP1:Strike= 74 Dip=38 Slip= 47
NP2: 303 63 118

12 14 41 19.48 51.484N 175.032W 14km
6.0mb (61 obs.) 6.2Msz (45 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 52 Dip=74 Slip= 90
NP2: 232 16 90
Principal Axes:
T Plg=61 Azm=322
P 29 142
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
RADIATED ENERGY
No. of sta: 8 Focal mech. C
Energy 2.9±0.9*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 30 No. of sta: 24
Principal Axes:
Scale 10**18 Nm
T Val= 3.50 Plg=58 Azm=313
N 0.03 16 70
P -3.53 27 168
Best Double Couple:Mo=3.5*10**18
NP1:Strike=291 Dip=23 Slip= 134
NP2: 65 74 74
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 18S, 51C M.W.: 10S, 17C
Centroid Location:
Origin Time 14:41:26.6 0.2
Lat 51.70N 0.02 Lon 174.90W 0.03
Dep 19.4 1.0 Half-duration 5.8
Principal Axes:
Scale 10**18 Nm
T Val= 3.73 Plg=65 Azm=342
N 0.07 5 242
P -3.80 25 149
Best Double Couple:Mo=3.8*10**18
NP1:Strike=229 Dip=21 Slip= 76
NP2: 63 70 95

12 15 06 29.70 51.479N 174.984W 15km
5.1mb (48 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 24C
Centroid Location:
Origin Time 15:06:31.3 1.5
Lat 51.50N FIX;Lon 174.94W FIX
Dep 15.0 FIX Half-duration 2.3
Principal Axes:
Scale 10**17 Nm
T Val= 3.80 Plg=54 Azm=327
N 0.43 8 68
P -4.23 35 163
Best Double Couple:Mo=4.0*10**17
NP1:Strike=288 Dip=12 Slip= 131
NP2: 66 81 82

12 23 18 14.34 13.231S 167.044E 163km
5.1mb (23 obs.)
VANUATU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 20C
Centroid Location:
Origin Time 23:18:20.5 1.1
Lat 13.73S 0.11 Lon 166.57E 0.11
Dep 168.3 2.9 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 8.98 Plg=78 Azm= 74
N -1.71 3 330
P -7.26 11 240
Best Double Couple:Mo=8.1*10**16
NP1:Strike=326 Dip=34 Slip= 85
NP2: 152 56 93

13 00 02 52.75 23.942N 145.035E 30km
5.2mb (27 obs.) 4.5Msz (6 obs.)
NORTH PACIFIC OCEAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 22C
Centroid Location:
Origin Time 00:02:54.1 1.1
Lat 24.02N 0.08 Lon 144.68E 0.10
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 6.51 Plg=10 Azm=222
N 1.64 78 3
P -8.15 8 130
Best Double Couple:Mo=7.3*10**16
NP1:Strike=266 Dip=78 Slip= 179
NP2: 356 89 12

13 00 32 59.18 73.325N 134.909E 18km
5.5mb (82 obs.) 4.9Msz (7 obs.)
LAPTEV SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 24C
Centroid Location:
Origin Time 00:32:56.0 1.0
Lat 73.08N 0.12 Lon 136.66E 0.60
Dep 15.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**17 Nm
T Val= 0.99 Plg= 0 Azm= 96
N 0.05 0 6
P -1.04 90 180
Best Double Couple:Mo=1.0*10**17
NP1:Strike=186 Dip=45 Slip= -90
NP2: 6 45 -90

13 00 42 27.46 7.28 S 106.44 W 10km
4.6mb (6 obs.) 4.9Msz (3 obs.)
NORTHERN EASTER I. CORDILLERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 32C
Centroid Location:
Origin Time 00:42:40.2 0.5
Lat 6.37S 0.05 Lon 107.24W 0.03
Dep 15.0 FIX Half-duration 2.2
Principal Axes:
Scale 10**17 Nm
T Val= 2.06 Plg= 0 Azm=144
N -0.38 90 180
P -1.69 0 54
Best Double Couple:Mo=1.9*10**17
NP1:Strike=189 Dip=90 Slip=-180
NP2: 279 90 0

13 01 04 50.41 16.611S 172.530W 30km
5.2mb (12 obs.) 5.2Msz (5 obs.)
SAMOA ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 25C
Centroid Location:
Origin Time 01:04:52.3 0.9
Lat 16.72S FIX;Lon 172.39W FIX
Dep 31.9 8.0 Half-duration 1.7
Principal Axes:
Scale 10**17 Nm
T Val= 1.40 Plg=60 Azm=294
N 0.12 6 193
P -1.52 29 100
Best Double Couple:Mo=1.5*10**17
NP1:Strike=174 Dip=17 Slip= 70
NP2: 15 74 96

13 13 30 40.37 47.906S 165.653E 33km
5.1mb (3 obs.) 5.1Msz (2 obs.)
OFF W. COAST OF S. ISLAND, N.Z.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 35C
Centroid Location:
Origin Time 13:30:48.0 0.5
Lat 47.64S 0.06 Lon 164.62E 0.06
Dep 15.0 FIX Half-duration 2.1
Principal Axes:
Scale 10**17 Nm
T Val= 2.08 Plg= 0 Azm=162
N -0.52 90 180
P -1.55 0 72
Best Double Couple:Mo=1.8*10**17
NP1:Strike=207 Dip=90 Slip=-180
NP2: 297 90 0

13 19 40 33.68 3.429S 76.913W 112km
5.7mb (64 obs.)
NORTHERN PERU
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=145 Dip=84 Slip= -74
NP2: 255 17 -159
Principal Axes:
T Plg=37 Azm=221
P 49 72
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 1.4±0.6*10**12 Nm
MOMENT TENSOR SOLUTION
Dep 91 No. of sta: 10
Principal Axes:
Scale 10**16 Nm
T Val= 7.12 Plg=39 Azm=231
N 0.02 6 325
P -7.14 51 62
Best Double Couple:Mo=7.1*10**16
NP1:Strike=281 Dip= 8 Slip=-135
NP2: 146 84 -84
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 28C
Centroid Location:

Origin Time 19:40:39.1 0.4
Lat 3.46S 0.04 Lon 76.91W 0.06
Dep 117.5 2.0 Half-duration 2.4
Principal Axes:
Scale 10**17 Nm
T Val= 3.20 Plg= 3 Azm=254
N -0.42 12 164
P -2.79 78 357
Best Double Couple:Mo=3.0*10**17
NP1:Strike=357 Dip=44 Slip= -72
NP2: 153 49 -106

13 23 05 29.42 3.994S 39.925E 10km
5.3mb (60 obs.) 5.2Msz (12 obs.)
KENYA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 26C
Centroid Location:
Origin Time 23:05:36.8 0.8
Lat 3.87S 0.05 Lon 40.48E 0.06
Dep 15.0 FIX Half-duration 2.2
Principal Axes:
Scale 10**17 Nm
T Val= 2.25 Plg= 3 Azm=255
N -0.20 22 346
P -2.04 68 157
Best Double Couple:Mo=2.2*10**17
NP1:Strike=323 Dip=46 Slip=-121
NP2: 185 52 -62

14 03 33 17.34 10.212N 59.800W 47km
5.1mb (41 obs.) 4.8Msz (5 obs.)
NORTH ATLANTIC OCEAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 20C
Centroid Location:
Origin Time 03:33:21.3 1.0
Lat 9.99N 0.10 Lan 59.25W 0.08
Dep 30.4 8.3 Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Val= 14.30 Plg=24 Azm=336
N -1.85 57 110
P -12.45 21 236
Best Double Couple:Mo=1.3*10**17
NP1:Strike= 16 Dip=57 Slip= 178
NP2: 107 88 33

14 03 44 49.62 4.575N 122.620E 639km
5.6mb (64 obs.)
CELEBES SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 20C
Centroid Location:
Origin Time 03:44:50.9 0.5
Lat 4.30N 0.05 Lan 122.25E 0.07
Dep 615.9 4.4 Half-duration 2.8
Principal Axes:
Scale 10**17 Nm
T Val= 4.46 Plg=45 Azm= 90
N -0.09 4 356
P -4.37 44 262
Best Double Couple:Mo=4.4*10**17
NP1:Strike=272 Dip= 4 Slip= 6
NP2: 176 90 94

15 00 12 42.92 31.658N 60.213E 16km
4.9mb (37 obs.) 4.6Msz (5 obs.)
IRAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 19C
Centroid Location:
Origin Time 00:12:48.1 0.9
Lat 31.44N 0.09 Lon 60.30E 0.10
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 6.21 Plg= 5 Azm=325
N 0.25 82 196
P -6.47 7 56
Best Double Couple:Mo=6.3*10**16
NP1:Strike=100 Dip=82 Slip= -1
NP2: 190 89 -172

15 04 56 34.52 15.130S 167.238E 132km
5.6mb (39 obs.)
VANUATU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 40C M.W.: 11S, 25C
Centroid Location:
Origin Time 04:56:40.2 0.2
Lat 15.17S 0.02 Lon 167.22E 0.02
Dep 120.9 0.6 Half-duration 6.6
Principal Axes:
Scale 10**18 Nm
T Val= 5.44 Plg=76 Azm=176
N 0.37 14 13
P -5.81 4 282
Best Double Couple:Mo=5.6*10**18
NP1:Strike=358 Dip=43 Slip= 70
NP2: 204 50 108

16 15 52 42.63 24.897N 109.035W 10km
5.5mb (38 obs.) 6.1Msz (15 obs.)
GULF OF CALIFORNIA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 30C M.W.: 9S, 20C
Centroid Location:
Origin Time 15:52:49.0 0.2
Lat 24.34N 0.02 Lon 108.86W 0.02
Dep 15.0 FIX Half-durotion 4.8
Principal Axes:
Scale 10**18 Nm
T Val= 1.78 Plg= 0 Azm=259
N 0.05 90 180
P -1.83 0 169
Best Double Couple:Mo=1.8*10**18
NP1:Strike=304 Dip=90 Slip=-180
NP2: 34 90 0

17 12 20 14.16 4.398S 144.068E 123km
5.4mb (22 obs.)
NEAR N COAST OF PAPUA NEW GUINEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 12C
Centroid Location:
Origin Time 12:20:18.8 1.1
Lat 4.23S 0.11 Lon 144.97E 0.17
Dep 102.610.1 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 4.46 Plg=33 Azm= 50
N 1.77 34 294
P -6.23 39 171
Best Double Couple:Mo=5.3*10**16
NP1:Strike=197 Dip=34 Slip= -6
NP2: 292 87 -124

18 22 30 07.60 48.688S 106.802E 10km
5.2mb (5 obs.) 5.2Msz (7 obs.)
SOUTHEAST INDIAN RISE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 26C
Centroid Location:
Origin Time 22:30:17.2 0.5
Lat 48.58S 0.05 Lon 107.42E 0.11
Dep 15.0 FIX Half-duration 2.2
Principal Axes:
Scale 10**17 Nm
T Val= 1.65 Plg= 0 Azm=161
N 0.52 90 180
P -2.16 0 71
Best Double Couple:Mo=1.9*10**17
NP1:Strike=206 Dip=90 Slip=-180
NP2: 296 90 0

18 23 19 29.72 20.286S 66.740E 20km
5.8mb (74 obs.) 5.4Msz (12 obs.)
MASCARENE ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 19C
Centroid Location:
Origin Time 23:19:30.8 1.1
Lat 20.45S FIX;Lon 66.76E FIX
Dep 15.0 FIX Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 6.86 Plg=64 Azm=324
N -0.17 25 132
P -6.69 5 224
Best Double Couple:Mo=6.8*10**16
NP1:Strike=339 Dip=46 Slip= 127
NP2: 113 55 58

20 01 12 19.72 27.220N 141.605E 47km
5.8mb (89 obs.) 5.0Msz (18 obs.)
BONIN ISLANDS REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 3 Dip=70 Slip= -38
NP2: 108 55 -155
Principal Axes:
T Plg=10 Azm= 59
P 41 320
Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting with a large normal component. The preferred fault plane is nat determined.
MOMENT TENSOR SOLUTION
Dep 41 Na. of sta: 13
Principal Axes:
Scale 10**17 Nm
T Val= 5.09 Plg=13 Azm= 50
N 0.04 50 155
P -5.13 37 310
Best Double Couple:Mo=5.1*10**17
NP1:Strike= 97 Dip=54 Slip=-160
NP2: 355 74 -37
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 27C
Centroid Location:
Origin Time 01:12:28.3 0.5
Lat 27.70N 0.08 Lon 141.32E 0.05
Dep 15.0 FIX Half-duration 2.9
Principal Axes:
Scale 10**17 Nm
T Val= 6.31 Plg=29 Azm= 85
N -0.22 19 185
P -6.09 54 304
Best Double Couple:Mo=6.2*10**17
NP1:Strike=133 Dip=23 Slip=-144
NP2: 10 77 -71

20 18 55 22.33 45.846S 96.229E 10km
5.1mb (8 obs.) 5.1Msz (3 obs.)
SOUTHEAST INDIAN RISE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 25C
Centroid Location:
Origin Time 18:55:30.8 0.8
Lat 45.50S 0.08 Lon 95.86E 0.13
Dep 15.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Val= 6.64 Plg= 0 Azm=241
N 2.60 90 180
P -9.25 0 151
Best Double Couple:Mo=7.9*10**16
NP1:Strike=286 Dip=90 Slip=-180
NP2: 16 90 0

20 22 04 48.44 29.496N 131.595E 31km
5.6mb (78 obs.) 5.1Msz (10 obs.)
RYUKYU ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 17C
Centroid Location:
Origin Time 22:04:52.1 1.3
Lat 29.35N 0.10 Lan 131.43E 0.08
Dep 57.4 4.8 Half-duration 2.1
Principal Axes:
Scale 10**17 Nm
T Val= 2.16 Plg=71 Azm=223
N -0.13 19 45
P -2.03 1 315
Best Double Couple:Mo=2.1*10**17
NP1:Strike= 27 Dip=47 Slip= 64
NP2: 243 49 115

21 16 46 05.45 31.092S 179.093W 145km
6.2mb (52 obs.)
KERMADEC ISLANDS REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=320 Dip=80 Slip= 90
NP2: 140 10 90
Principal Axes:
T Plg=55 Azm=230
P 35 50
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. C
Energy 5.2±1.8*10**13 Nm

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 35C M.W.: 17S, 37C
Centroid Location:
Origin Time 16:46:16.9 0.2
Lat 30.71S 0.02 Lon 179.38W 0.03
Dep 157.3 0.8 Half-duration 7.6
Principal Axes:
Scale 10**18 Nm

	Val=	Plg=	Azm=
T	7.98	57	218
N	0.78	1	309
P	-8.76	33	39

Best Double Couple:Mo=8.4*10**18

	Strike=	Dip=	Slip=
NP1:	131	12	93
NP2:	309	78	89

21 22 05 55.61 5.503S 152.007E 61km
5.3mb (18 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 16C
Centroid Location:
Origin Time 22:05:51.1 3.4
Lat 6.04S 0.33 Lon 152.59E 0.16
Dep 62.512.5 Half-duration 1.7
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	10.71	4	56
N	-1.62	67	317
P	-9.09	23	148

Best Double Couple:Mo=9.9*10**16

	Strike=	Dip=	Slip=
NP1:	189	71	-14
NP2:	284	77	-161

22 00 00 16.41 36.919S 177.197E 225km
5.8mb (30 obs.)
OFF E. COAST OF N. ISLAND, N.Z.
FAULT PLANE SOLUTION: P-Waves

	Strike=	Dip=	Slip=
NP1:	215	80	-90
NP2:	35	10	-90

Principal Axes:

	Plg=	Azm=
T	35	305
P	55	125

Comment: The focal mechanism is poorly controlled and corresponds to normal faulting. The preferred fault plane is NP1.
MOMENT TENSOR SOLUTION
Dep 211 No. of sta: 8
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	3.03	38	286
N	-0.01	24	36
P	-3.01	43	150

Best Double Couple:Mo=3.0*10**17

	Strike=	Dip=	Slip=
NP1:	314	24	-173
NP2:	218	87	-66

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 26C
Centroid Location:
Origin Time 00:00:21.2 0.6
Lat 36.85S 0.08 Lon 176.78E 0.07
Dep 210.5 2.8 Half-duration 2.4
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	2.62	45	288
N	-0.16	14	33
P	-2.46	42	136

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

	Strike=	Dip=	Slip=
NP1:	296	14	173
NP2:	32	88	76

22 02 11 50.68 8.473S 158.891E 116km
5.5mb (38 obs.)
SOLOMON ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 37C
Centroid Location:
Origin Time 02:11:58.1 0.4
Lat 8.46S 0.05 Lon 158.58E 0.04
Dep 114.7 2.9 Half-duration 2.3
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	2.87	44	137
N	-0.87	18	245
P	-2.01	40	350

Best Double Couple:Mo=2.4*10**17

	Strike=	Dip=	Slip=
NP1:	147	18	173
NP2:	244	88	72

23 13 35 37.42 49.235S 122.283E 10km
5.0mb (5 obs.) 5.4Msz (1 obs.)
SOUTH OF AUSTRALIA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 22C
Centroid Location:
Origin Time 13:35:42.6 0.8
Lat 49.60S 0.12 Lon 122.43E 0.12
Dep 15.0 FIX Half-duration 1.6
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	8.55	56	176
N	-1.27	23	48
P	-7.28	24	307

Best Double Couple:Mo=7.9*10**16

	Strike=	Dip=	Slip=
NP1:	0	29	38
NP2:	235	72	114

23 14 07 15.47 16.132N 96.278W 63km
5.2mb (47 obs.)
OAXACA, MEXICO
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 22C
Centroid Location:
Origin Time 14:07:16.2 1.9
Lat 16.44N 0.14 Lon 96.03W 0.14
Dep 44.1 8.0 Half-duration 1.7
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	9.43	36	52
N	3.82	45	275
P	-13.25	23	160

Best Double Couple:Mo=1.1*10**17

	Strike=	Dip=	Slip=
NP1:	201	46	12
NP2:	103	82	135

23 21 06 03.06 43.718N 147.756E 33km
5.2mb (59 obs.) 4.7Msz (15 obs.)
KURIL ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 22C
Centroid Location:
Origin Time 21:06:10.4 0.6
Lat 43.66N 0.10 Lon 147.22E 0.07
Dep 20.4 7.2 Half-duration 1.7
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	1.02	30	197
N	0.15	57	347
P	-1.17	14	99

Best Double Couple:Mo=1.1*10**17

	Strike=	Dip=	Slip=
NP1:	234	59	168
NP2:	331	79	32

24 07 05 52.17 47.624S 165.261E 33km
5.4mb (21 obs.) 5.1Msz (7 obs.)
OFF W. COAST OF S. ISLAND, N.Z.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 35C
Centroid Location:
Origin Time 07:05:53.8 0.6
Lat 47.96S 0.05 Lon 164.53E 0.05
Dep 15.0 FIX Half-duration 2.0
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	2.84	0	190
N	-1.06	90	180
P	-1.78	0	100

Best Double Couple:Mo=2.3*10**17

	Strike=	Dip=	Slip=
NP1:	235	90	-180
NP2:	325	90	0

24 17 20 18.32 16.247S 173.058W 30km
5.3mb (33 obs.) 4.9Msz (6 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 27C
Centroid Location:
Origin Time 17:20:22.8 0.5
Lat 16.52S 0.07 Lon 172.49W 0.06
Dep 29.6 4.3 Half-duration 1.9
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	1.42	52	24
N	-0.07	33	170
P	-1.35	17	271

Best Double Couple:Mo=1.4*10**17

	Strike=	Dip=	Slip=
NP1:	39	40	146
NP2:	156	69	55

25 00 01 10.68 33.619N 57.022E 33km
4.8mb (31 obs.) 4.6Msz (2 obs.)
IRAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 16C
Centroid Location:
Origin Time 00:01:11.1 0.8
Lat 33.34N 0.13 Lon 56.99E 0.06
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	5.98	0	178
N	1.02	90	180
P	-7.00	0	88

Best Double Couple:Mo=6.5*10**16

	Strike=	Dip=	Slip=
NP1:	223	90	-180
NP2:	313	90	0

25 01 10 42.85 32.958S 178.447W 33km
5.1mb (11 obs.) 5.1Msz (3 obs.)
SOUTH OF KERMADEC ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 25C
Centroid Location:
Origin Time 01:10:46.8 0.7
Lat 32.78S 0.08 Lon 178.07W 0.08
Dep 15.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	1.13	72	323
N	0.28	8	206
P	-1.42	16	114

Best Double Couple:Mo=1.3*10**17

	Strike=	Dip=	Slip=
NP1:	192	30	73
NP2:	31	61	99

25 06 22 20.38 7.944N 127.329E 53km
5.0mb (21 obs.) 4.3Msz (6 obs.)
PHILIPPINE ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 27C
Centroid Location:
Origin Time 06:22:22.7 0.7
Lat 7.82N 0.08 Lon 127.16E 0.07
Dep 32.9 5.2 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	6.94	6	259
N	-0.82	9	350
P	-6.11	79	136

Best Double Couple:Mo=6.5*10**16

	Strike=	Dip=	Slip=
NP1:	339	40	-104
NP2:	177	52	-78

25 13 16 06.92 9.814N 84.828W 27km
5.8mb (76 obs.) 6.4Msz (2 obs.)
COSTA RICA
FAULT PLANE SOLUTION: P-Waves

	Strike=	Dip=	Slip=
NP1:	98	70	90
NP2:	278	20	90

Principal Axes:

	Plg=	Azm=
T	65	8
P	25	188

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. F
Energy 1.3±0.6*10**13 Nm

25 13 22 55.60 9.919N 84.808W 22km
6.2mb (56 obs.) 7.0Msz (23 obs.)
COSTA RICA
FAULT PLANE SOLUTION: P-Waves

	Strike=	Dip=	Slip=
NP1:	102	72	130
NP2:	212	43	27

Principal Axes:

	Plg=	Azm=
T	47	54
P	17	164

Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting with a large left-lateral strike-slip component. The preferred fault plane is NP2.

RADIATED ENERGY
No. of sta: 9 Focal mech. F
Energy 2.2±0.7*10**14 Nm
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 18S, 50C M.W.: 14S, 38C
Centraid Location:
Origin Time 13:23: 7.8 0.1
Lat 9.95N 0.02 Lon 84.58W 0.01
Dep 17.9 0.8 Half-duration 15.0
Principal Axes:
Scale 10**19 Nm

	Val=	Plg=	Azm=
T	10.96	56	15
N	0.10	3	109
P	-11.06	34	201

Best Double Cauple:Ma=1.1*10**20

	Strike=	Dip=	Slip=
NP1:	303	11	104
NP2:	108	79	87

GEOSCOPE MOMENT TENSOR (PAR)
Dep 15.0 Half-duration 25.0
Best Double Couple:Mo=7.8*10**19

	Strike=	Dip=	Slip=
NP1:	275	26	43
NP2:	145	73	110

25 21 35 24.44 9.591N 84.659W 41km
5.6mb (64 obs.) 5.4Msz (14 obs.)
COSTA RICA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 33C
Centraid Location:
Origin Time 21:35:30.5 0.6
Lat 9.65N FIX;Lon 84.67W FIX
Dep 15.0 FIX Half-duration 2.4
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	4.13	54	51
N	-0.28	11	305
P	-3.85	33	207

Best Double Couple:Ma=4.0*10**17

	Strike=	Dip=	Slip=
NP1:	259	16	43
NP2:	127	79	102

26 22 47 16.75 9.253N 125.606E 39km
5.6mb (39 obs.) 5.5Msz (20 obs.)
MINDANAO, PHILIPPINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 29C
Centraid Location:
Origin Time 22:47:14.4 0.4
Lat 9.04N 0.06 Lon 125.74E 0.06
Dep 44.0 4.6 Half-duration 3.5
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	6.72	23	205
N	2.62	61	64
P	-9.34	16	302

Best Double Couple:Mo=8.0*10**17

	Strike=	Dip=	Slip=
NP1:	345	61	5
NP2:	252	85	151

27 20 04 16.23 5.298S 145.865E 82km
5.3mb (32 obs.)
EAST PAPUA NEW GUINEA REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 25C
Centroid Location:
Origin Time 20:04.21.4 0.5
Lat 5.38S 0.04 Lon 145.67E 0.06
Dep 69.3 4.3 Half-duration 1.7
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	1.18	33	287
N	0.21	51	72
P	-1.38	18	185

Best Double Couple:Mo=1.3*10**17

	Strike=	Dip=	Slip=
NP1:	322	53	167
NP2:	59	80	38

28 01 20 41.52 21.810S 175.190E 10km
5.1mb (15 obs.) 4.9Msz (4 obs.)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 33C
Centraid Location:
Origin Time 01:20:52.5 0.6
Lat 21.94S 0.05 Lon 174.62E 0.05
Dep 15.0 FIX Half-duration 1.9
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	1.36	0	234
N	-0.20	90	180
P	-1.15	0	144

Best Double Cauple:Ma=1.3*10**17

	Strike=	Dip=	Slip=
NP1:	279	90	-180
NP2:	9	90	0

28 19 50 19.97 16.094S 173.112W 33km
5.3mb (17 obs.) 4.3Msz (2 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 30C
Centraid Location:
Origin Time 19:50:24.4 1.0
Lat 16.47S 0.10 Lon 172.74W 0.09
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	6.00	53	215
N	0.97	30	355
P	-6.96	20	97

Best Double Cauple:Ma=6.5*10**16

	Strike=	Dip=	Slip=
NP1:	226	37	147
NP2:	343	71	58

29 04 34 04.29 45.331N 150.204E 50km
5.2mb (70 obs.) 4.1Msz (2 obs.)
KURIL ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 21C
Centraid Location:
Origin Time 04:34:12.9 0.7
Lat 45.59N 0.08 Lon 149.26E 0.10
Dep 60.7 8.3 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	4.80	67	278
N	0.01	14	44
P	-4.81	18	139

Best Double Couple:Ma=4.8*10**16

	Strike=	Dip=	Slip=
NP1:	251	30	120
NP2:	37	65	74

29 14 15 44.82 16.572N 145.831E 24km
5.3mb (21 obs.) 4.6Msz (11 obs.)
MARIANA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 28C
Centraid Location:
Origin Time 14:15:43.2 0.7
Lat 16.72N 0.06 Lon 146.11E 0.08
Dep 15.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	9.12	2	301
N	-3.14	63	207
P	-5.98	27	32

Best Double Couple:Mo=7.6*10**16

	Strike=	Dip=	Slip=
NP1:	73	70	-18
NP2:	170	73	-159

29 16 19 15.80 39.408N 73.256E 25km
5.4mb (78 obs.) 5.1Msz (8 obs.)
TAJIK-XINJIANG BORDER REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 29C
Centraid Location:
Origin Time 16:19:21.0 0.7
Lat 39.04N 0.08 Lon 73.09E 0.08
Dep 22.0 FIX Half-duration 1.8
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	1.41	24	236
N	-0.25	56	8
P	-1.16	22	136

Best Double Cauple:Ma=1.3*10**17

	Strike=	Dip=	Slip=
NP1:	276	56	178
NP2:	6	89	34

30 00 42 06.96 20.231N 122.038E 124km
5.5mb (91 obs.)
PHILIPPINE ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 22C
Centraid Location:
Origin Time 00:42: 7.0 0.4
Lat 20.10N 0.05 Lon 121.64E 0.05
Dep 70.6 5.5 Half-duration 2.3
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	2.35	57	105
N	0.46	18	345
P	-2.81	27	246

Best Double Cauple:Ma=2.6*10**17

	Strike=	Dip=	Slip=
NP1:	299	24	41
NP2:	170	75	109

31 19 31 42.75 42.891N 146.969E 21km
5.9mb (76 obs.) 5.8Msz (25 obs.)
OFF COAST OF HOKKAIDO, JAPAN
FAULT PLANE SOLUTION: P-Waves

	Strike=	Dip=	Slip=
NP1:	34	80	67
NP2:	282	25	156

Principal Axes:

	Plg=	Azm=
T	50	279
P	31	143

Comment: The focal mechanism is moderately well controlled and corresponds to reverse faulting with a moderate right-lateral strike-slip component. The preferred fault plane is NP2.
RADIATED ENERGY
No. of sta: 7 Focal mech. M
Energy 8.7±3.2*10**12 Nm
MOMENT TENSOR SOLUTION
Dep 18 No. of sta: 18
Principal Axes:
Scale 10**18 Nm

	Val=	Plg=	Azm=
T	1.16	46	280
N	0.00	29	46
P	-1.16	29	155

Best Double Cauple:Ma=1.2*10**18

	Strike=	Dip=	Slip=
NP1:	295	31	161
NP2:	41	80	60

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 35C
Centroid Location:
Origin Time 19:31:48.7 0.3
Lat 42.98N 0.03 Lon 146.49E 0.05
Dep 15.0 FIX Half-duration 3.6
Principal Axes:
Scale 10**18 Nm

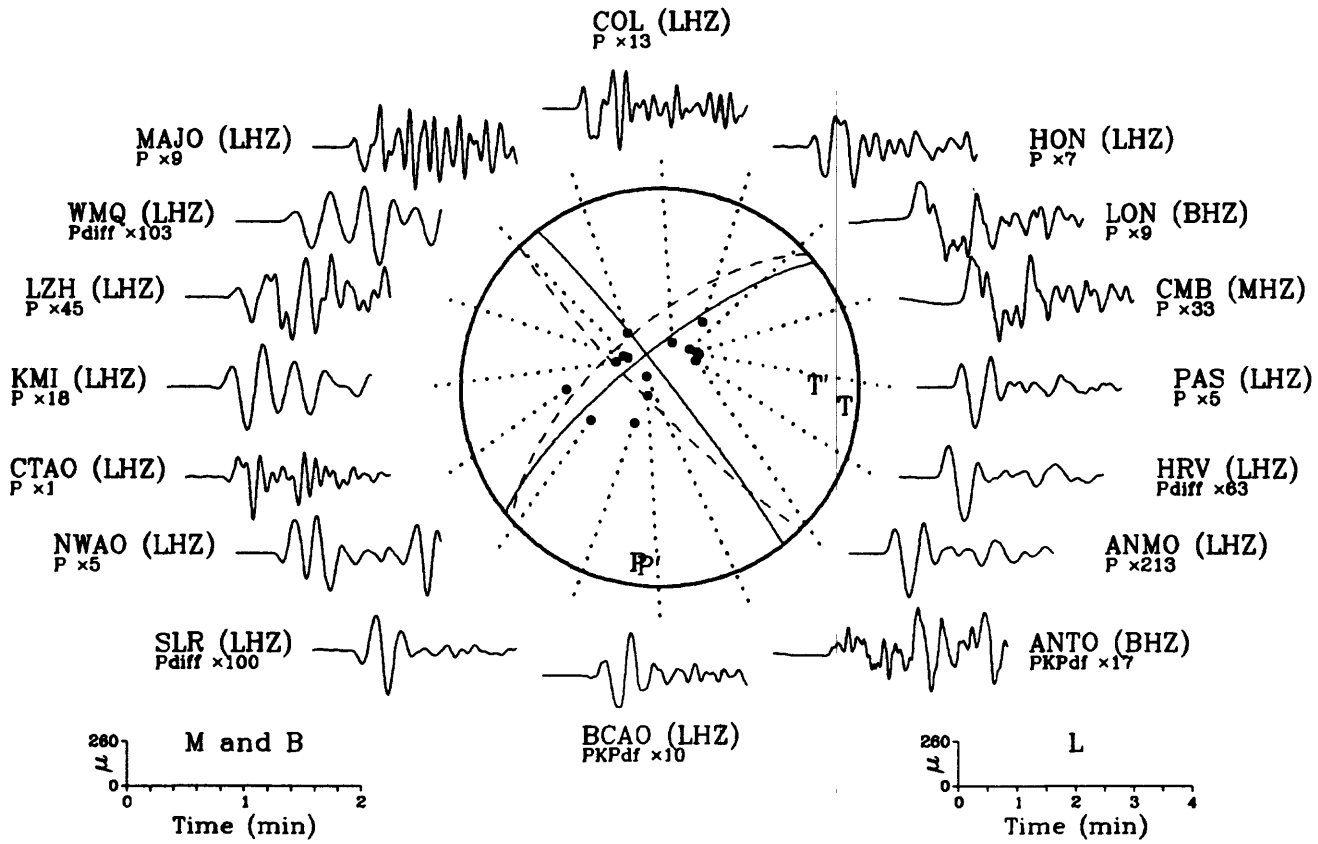
	Val=	Plg=	Azm=
T	1.27	56	292
N	0.11	8	35
P	-1.39	32	130

Best Double Cauple:Ma=1.3*10**18

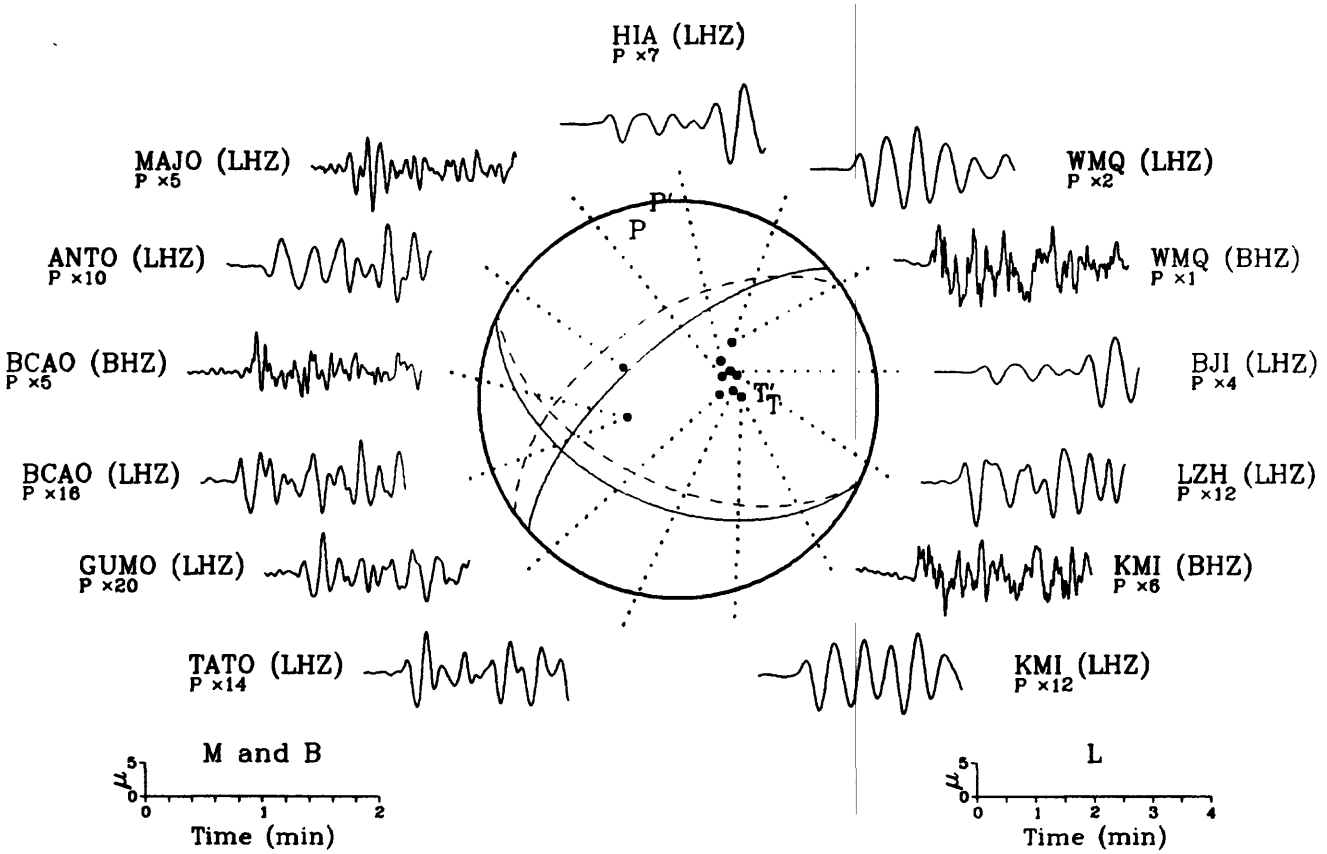
	Strike=	Dip=	Slip=
NP1:	248	15	125
NP2:	33	78	81

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

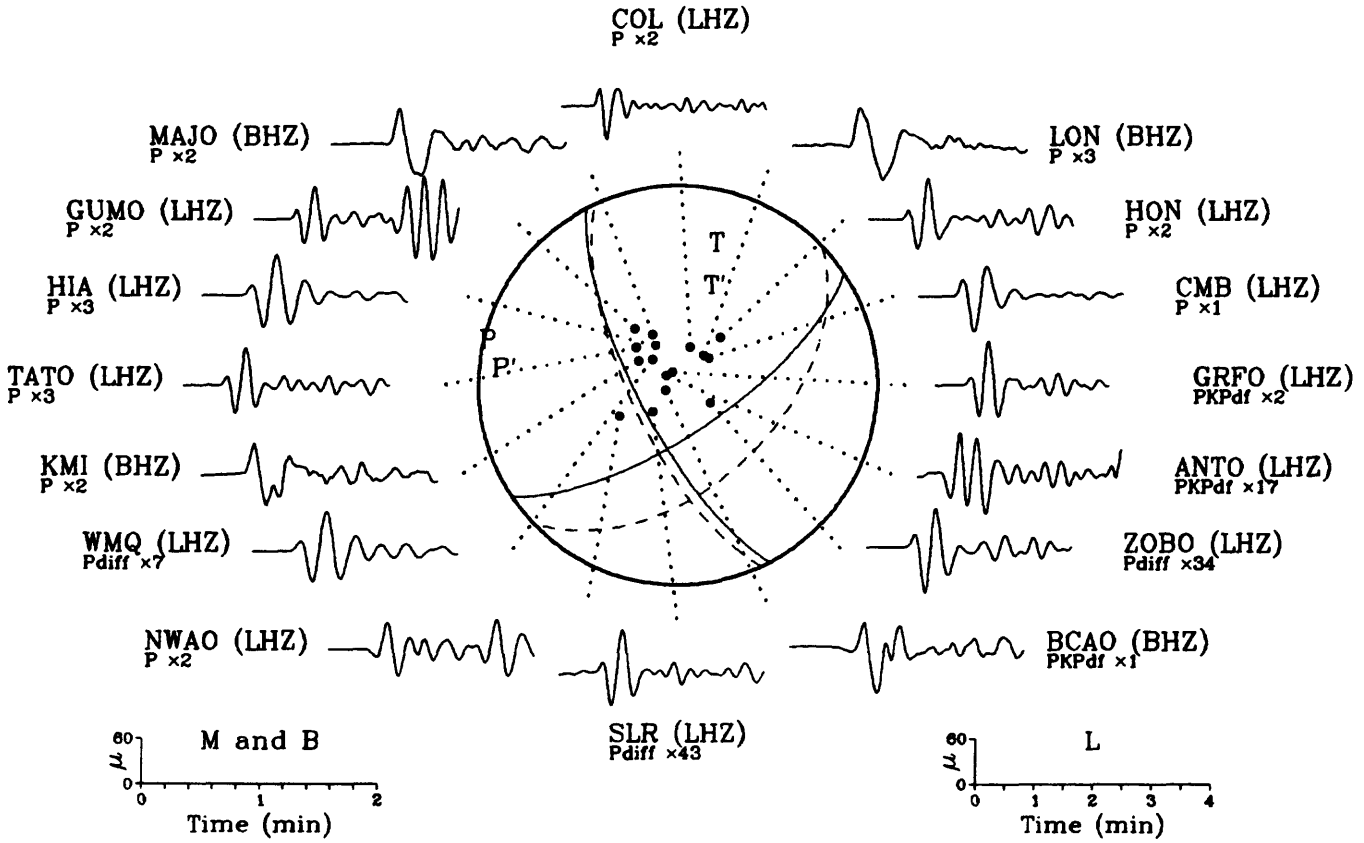
03 March 1990 12:16:27.96
South of Fiji Islands



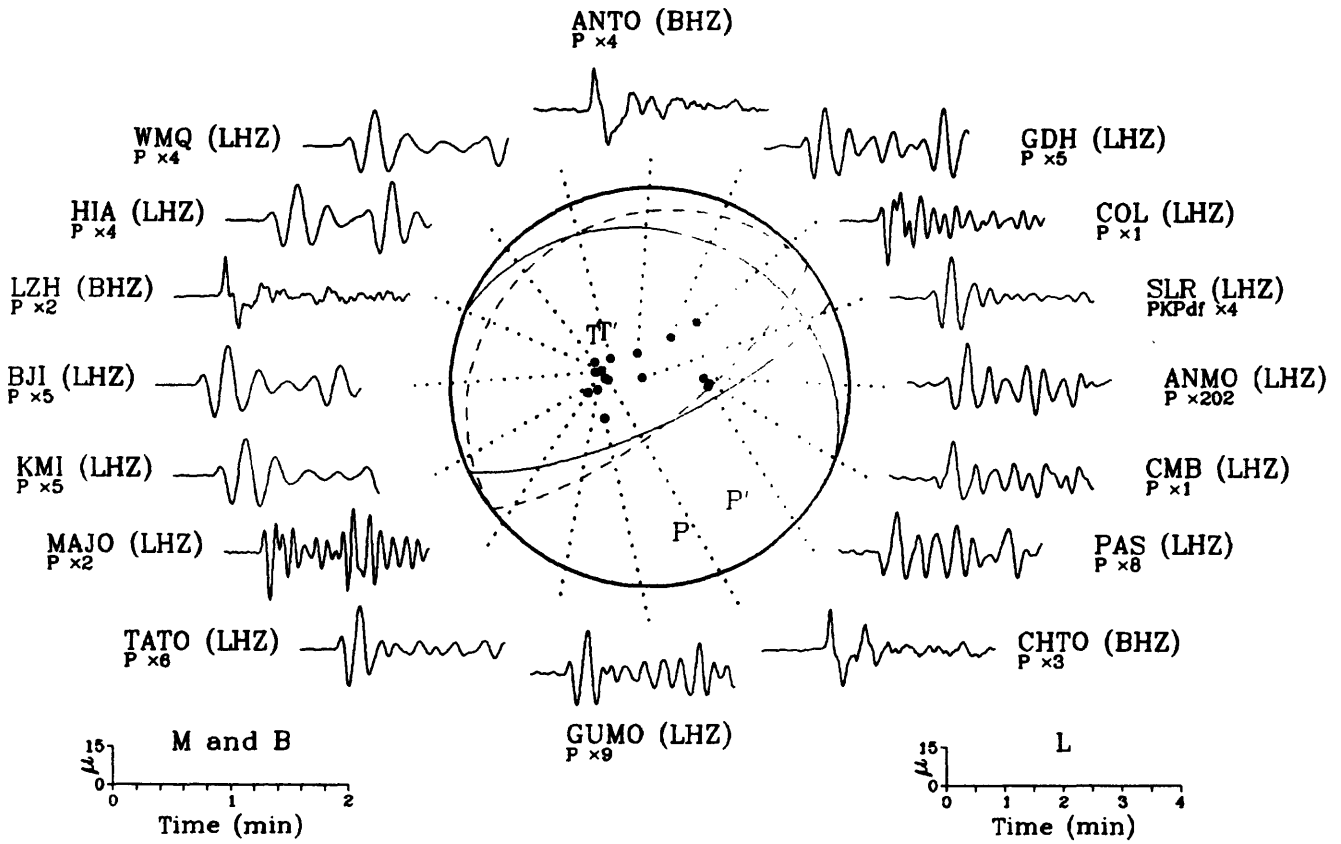
04 March 1990 19:46:19.67
Pakistan



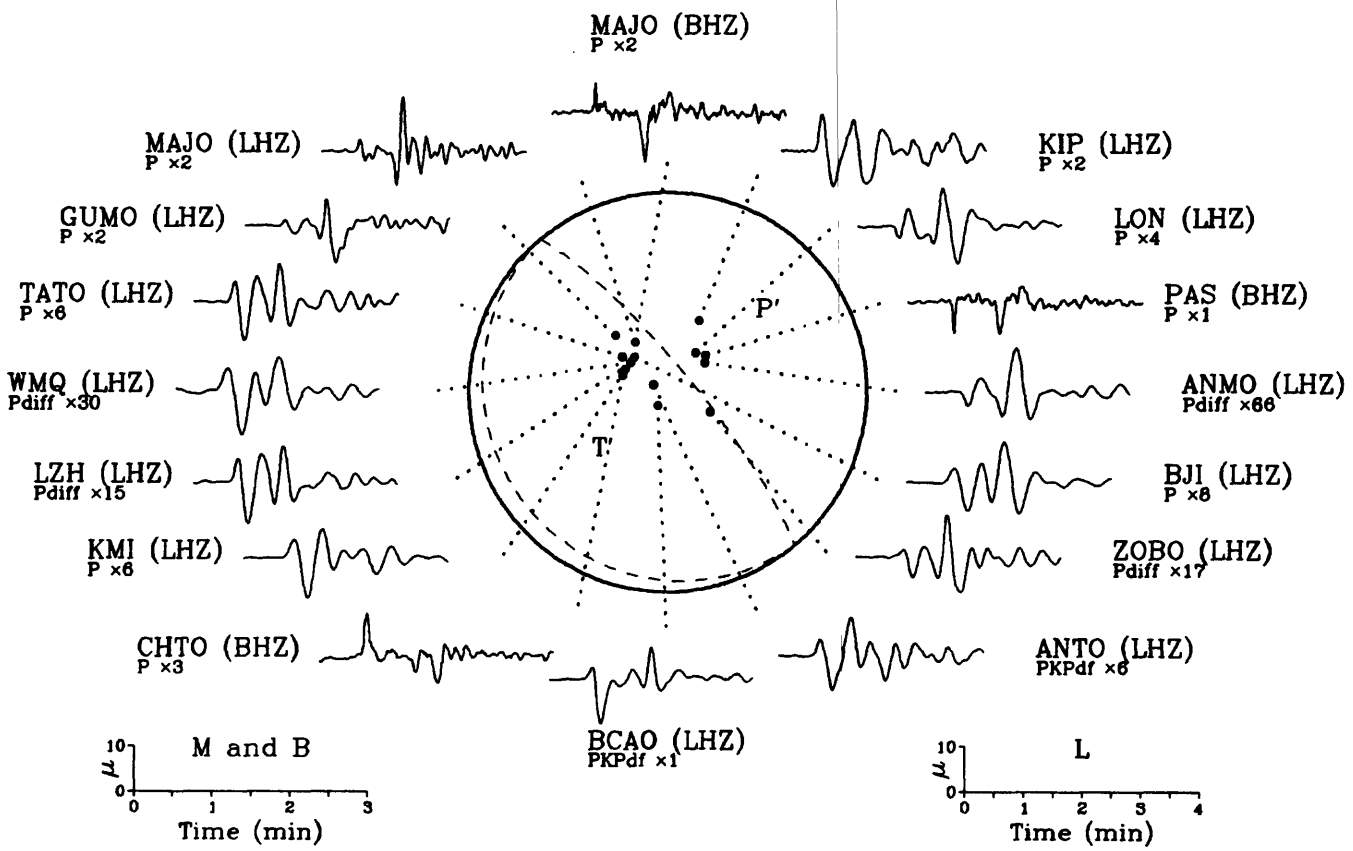
05 March 1990 16:38:12.57
Vanuatu Islands



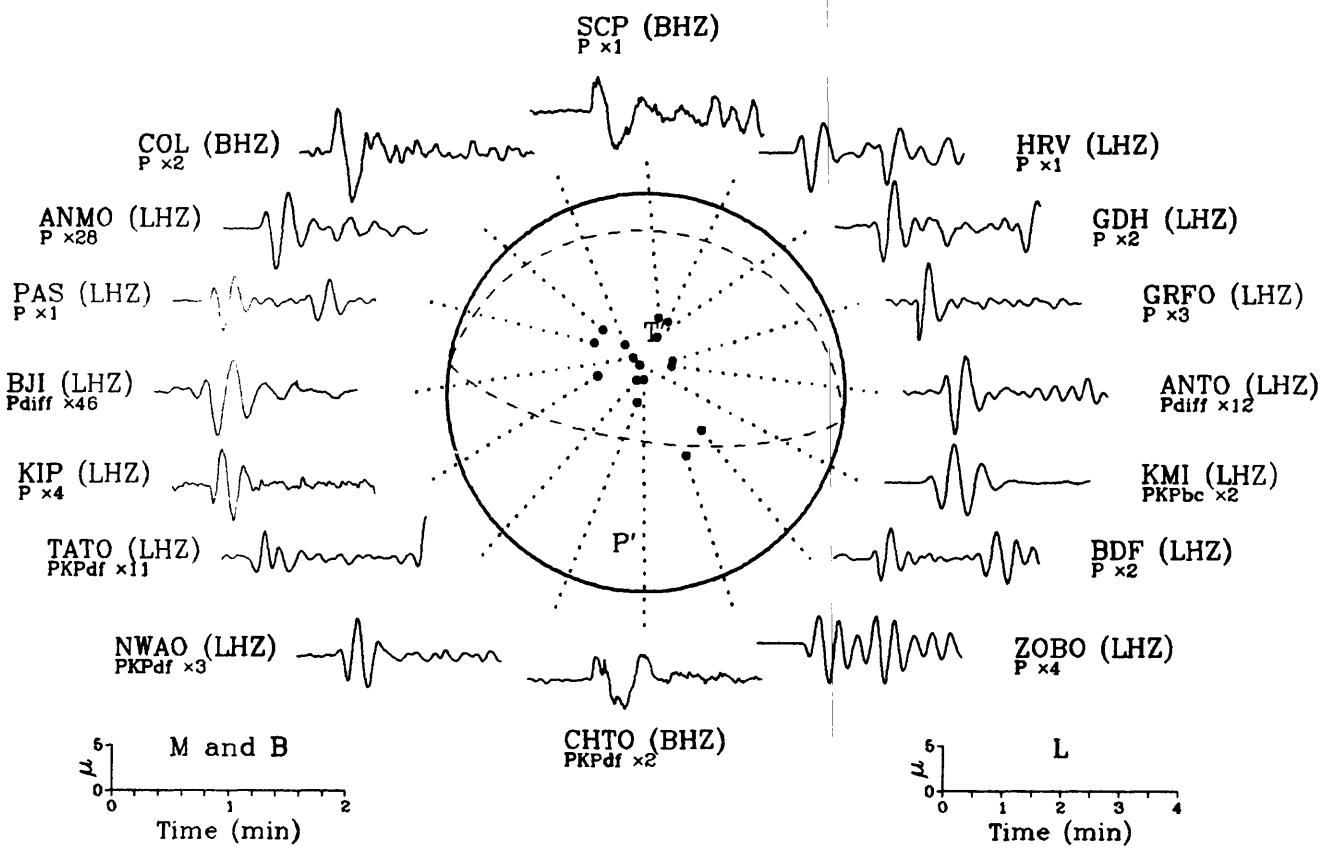
12 March 1990 14:41:19.48
Andreanof Islands, Aleutian Is.



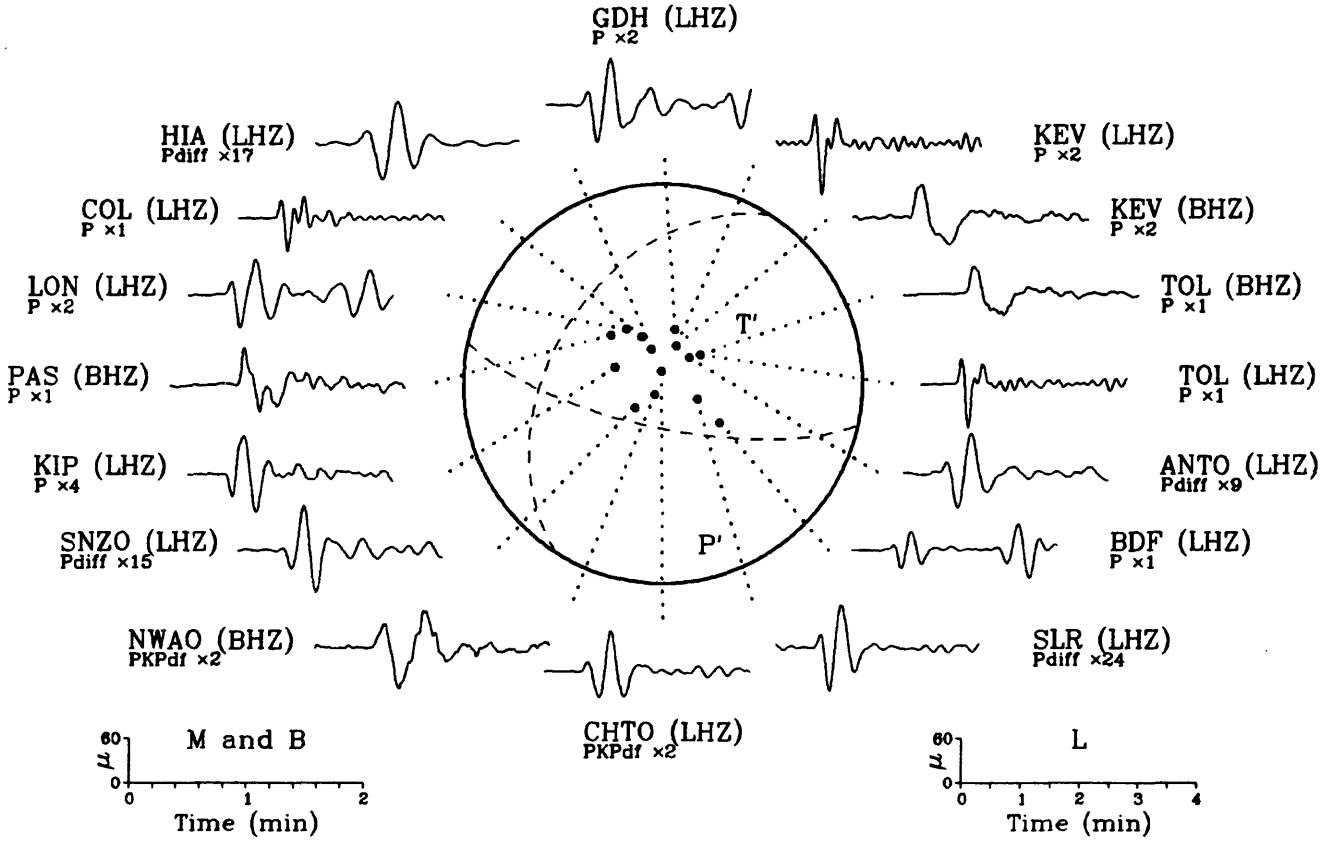
21 March 1990 16:46:05.45
Kermadec Islands Region



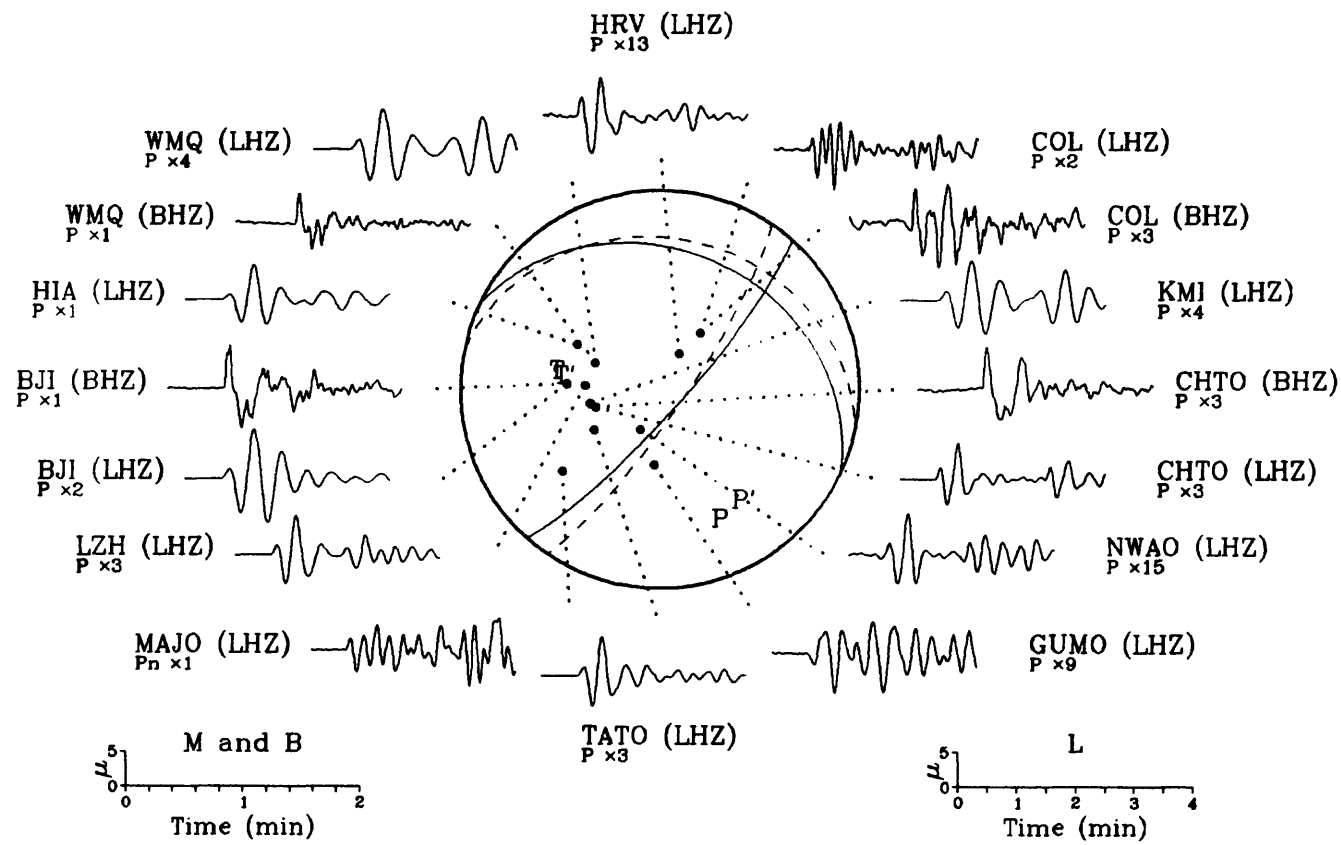
25 March 1990 13:16:06.92
Costa Rica



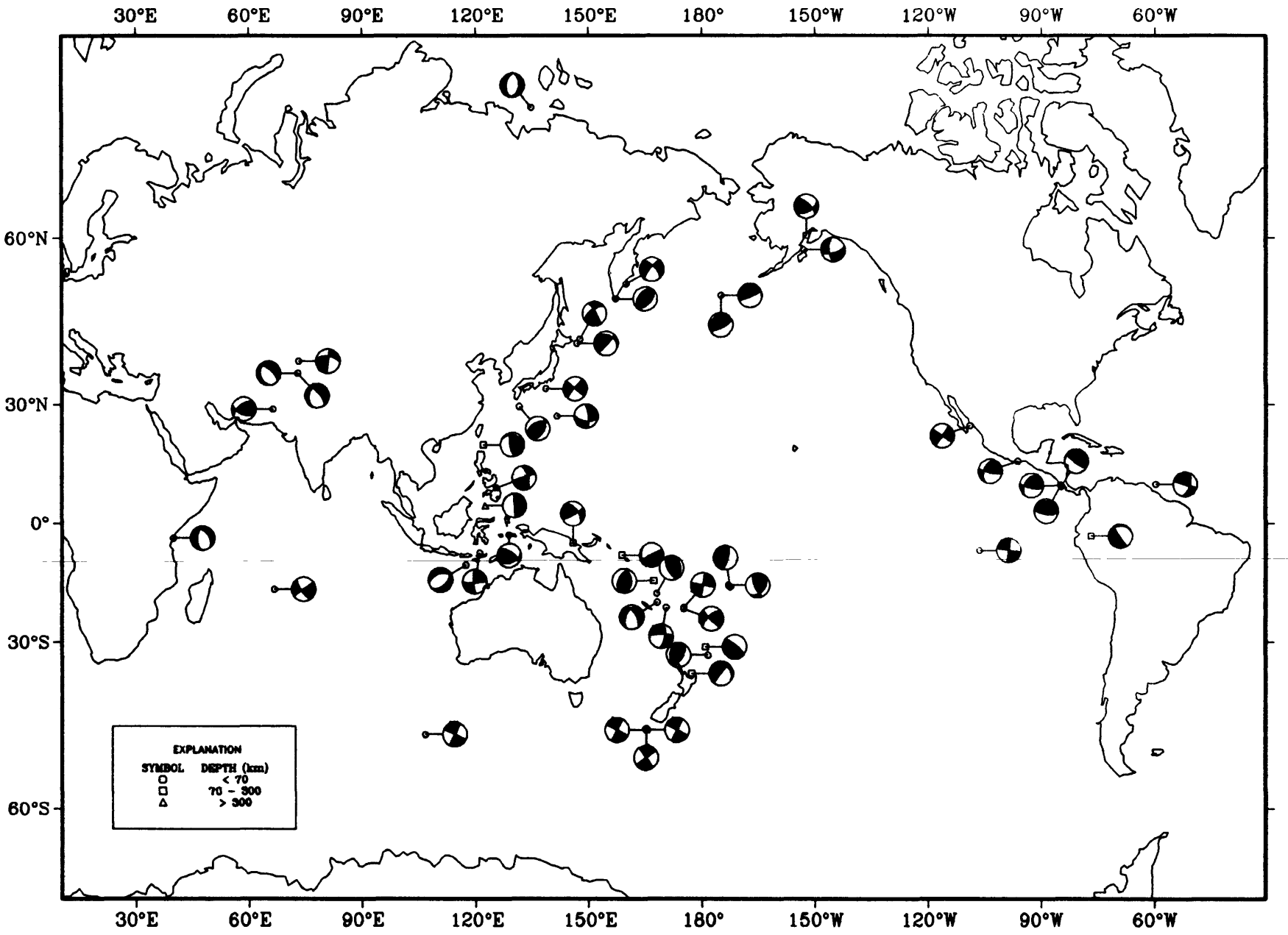
25 March 1990 13:22:55.60
Costa Rica

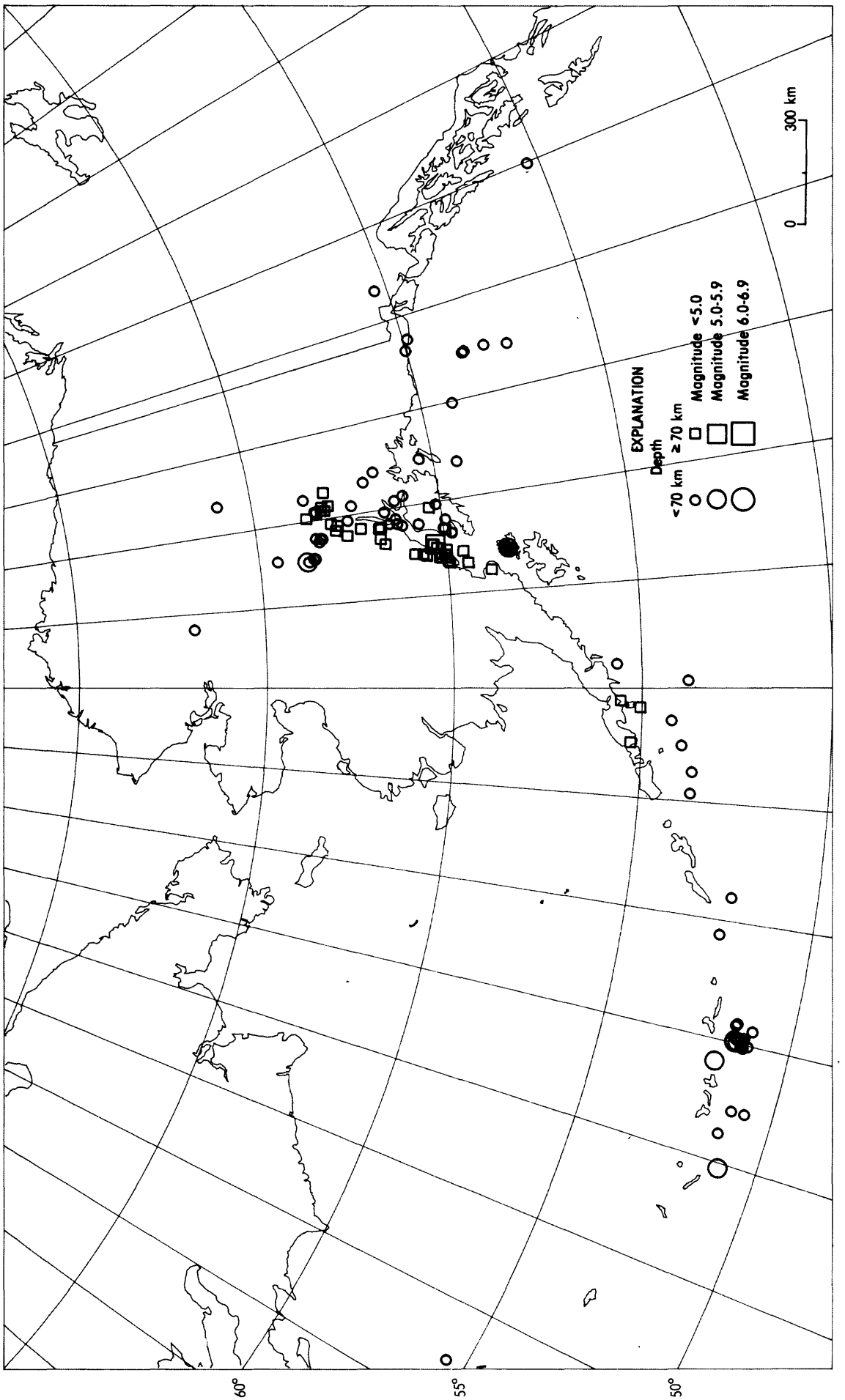


31 March 1990 19:31:42.75
Off Coast of Hokkaido, Japan

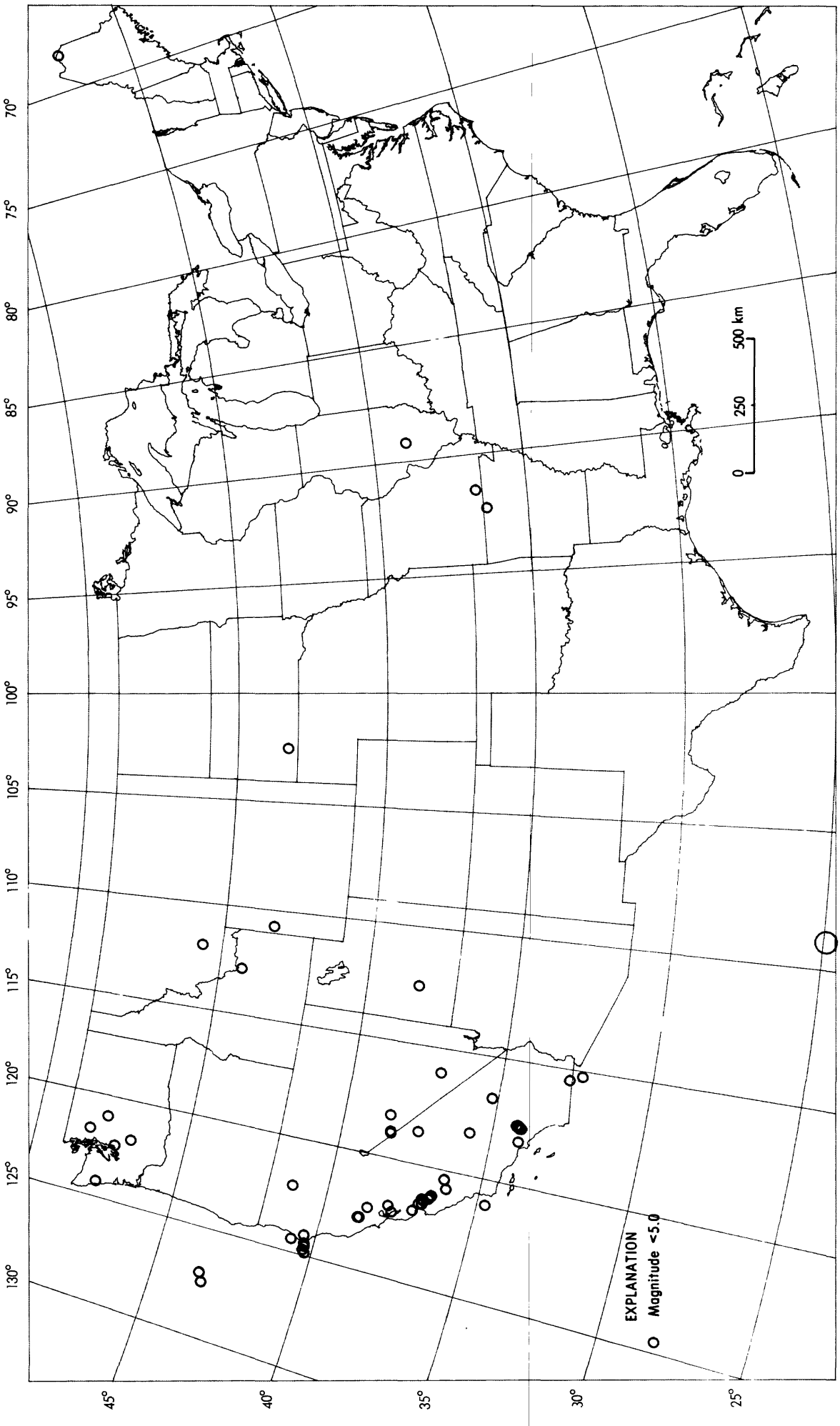


Earthquake Focal Mechanisms for March 1990

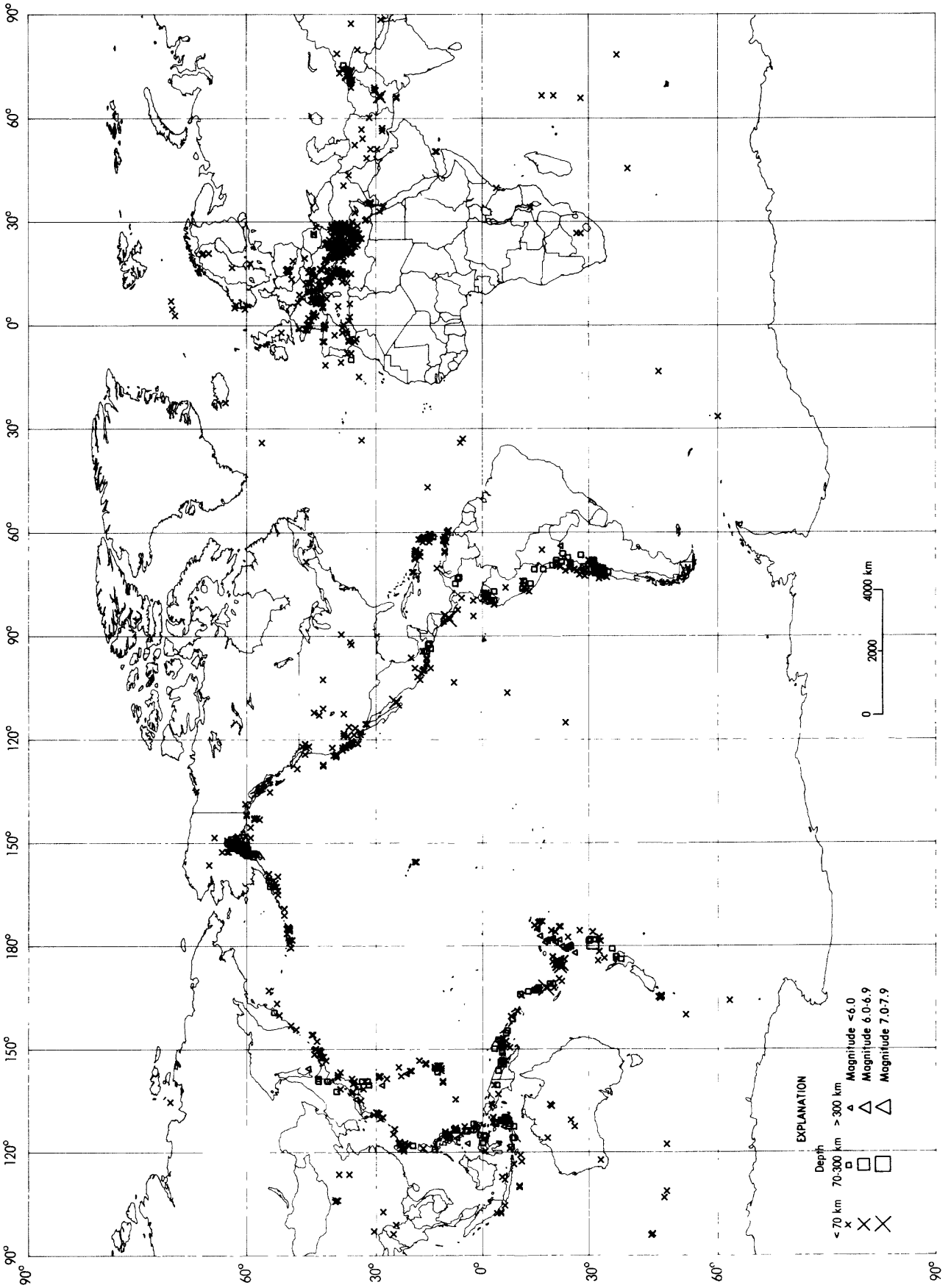




Earthquake epicenters in Alaska and adjacent regions for March, 1990 (C. Stover).



Earthquake epicenters in the conterminous United States and adjacent regions for March, 1990 (C. Stover).



Earthquakes located in March, 1990 (C. Stover).

CHANGE OF ADDRESS FORM

NAME—FIRST, LAST

COMPANY NAME OR ADDITIONAL ADDRESS LINE

STREET ADDRESS

CITY | STATE | ZIP CODE

PLEASE PRINT OR TYPE

(or) COUNTRY

Mail this form to: NEW ADDRESS

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

Attach last subscription label here.

SUBSCRIPTION ORDER FORM

SUBSCRIPTION ORDER FORM

ENTER MY SUBSCRIPTION TO:

@ $ Domestic; @ $ Foreign.

NAME—FIRST, LAST

COMPANY NAME OR ADDITIONAL ADDRESS LINE

STREET ADDRESS

CITY | STATE | ZIP CODE

PLEASE PRINT OR TYPE

(or) COUNTRY

☐ Remittance Enclosed (Make checks payable to Superintendent of Documents)

☐ Charge to my Deposit Account No. .....

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