UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

PRELIMINARY DETERMINATION OF EPICENTERS
MONTHLY LISTING

JULY - SEPTEMBER 1988

NATIONAL EARTHQUAKE INFORMATION CENTER

Open File Report

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1989

PRELIMINARY DETERMINATION OF EPICENTERS

MONTHLY LISTING

U.S. DEPARTMENT OF THE INTERIOR / GEOLOGICAL SURVEY

National Earthquake Information Center

JULY 1988

K E Y	DAY	ORIGIN TIME UTC HR	MN	SEC	GEOGRAPHIC COORDINATES LAT		LONG		DEPTH		MAGNITUDES GS MB	Msz	SD	NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
	01	00	05	18.2	38.313	N	20.346	E	10	G			1.2	11	GREECE. ML 3.7 (ATH).
	01	02	00	03.9&	39.472	N	118.467	W	0					10	NEVADA. <REN>. MD 3.3 (REN).
a	01	02	07	00.9	16.234	S	177.714	W	33	N	5.4	5.2	1.2	130	FIJI ISLANDS REGION
a	01	02	55	32.7	16.247	S	177.629	W	32	D	5.5	5.5	1.2	124	FIJI ISLANDS REGION
	01	03	47	55.6?	12.54	S	116.86	E	33	N	4.2		1.0	11	SOUTH OF SUMBAWA ISLAND
	01	04	50	50.9%	42.256	N	24.925	E	10	G			1.5	5	BULGARIA
	01	06	16	38.7&	37.477	N	121.798	W	6					15	CENTRAL CALIFORNIA. <BRK> ML 2.6 (BRK).
	01	07	48	42.3*	14.306	N	92.110	W	58		4.4		1.0	28	NEAR COAST OF CHIAPAS, MEXICO
	01	07	49	25.5	39.990	N	23.726	E	9		3.8		1.2	38	AEGEAN SEA. ML 3.5 (ATH).
	01	09	09	59.7%	40.446	N	29.217	E	10	G			0.5	5	TURKEY
	01	10	57	05.6%	39.610	N	29.426	E	10	G			0.9	6	TURKEY
	01	11	52	51.8?	43.01	N	18.72	E	10	G			0.5	4	YUGOSLAVIA. ML 2.1 (TTG).
	01	12	24	31.2?	39.79	N	29.18	E	10	G			0.8	6	TURKEY
a	01	12	48	07.4	52.931	N	166.771	W	33	N	5.0	4.9	1.1	120	FOX ISLANDS, ALEUTIAN ISLANDS. ML 5.0 (PMR).
	01	12	51	03.3%	60.480	N	5.431	E	0	G			0.8	6	SOUTHERN NORWAY. MD 1 9 (BER). Proboble explosion.
	01	12	57	05.3*	53.019	N	166.715	W	33	N	4.4		1.0	8	FOX ISLANDS, ALEUTIAN ISLANDS
	01	12	59	07.7*	5.447	S	152.908	E	33	N	4.6	3.7	1.2	10	NEW BRITAIN REGION
	01	13	09	38.8%	42.743	N	19.144	E	0	G			0.2	5	YUGOSLAVIA. ML 2.1 (TTG). Probable explosion.
	01	13	23	14.7*	0.095	S	132.636	E	33	N	3.8		1.5	13	WEST IRIAN REGION
	01	15	13	52.9*	40.267	N	142.561	E	57	*	4.6	3.8	1.3	31	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) ot Miyoko ond (I JMA) ot Hachinohe and Morioka.
	01	17	52	11.1?	44.53	N	7.34	E	10	G			0.7	5	NORTHERN ITALY ML 2 4 (LDG).
	01	17	56	27.3*	40.018	N	23.760	E	10	G			1.5	6	GREECE. MD 3.1 (ATH).
	01	18	02	00.0?	40.24	N	24.07	E	10	G			1.5	5	AEGEAN SEA
	01	18	34	08.3*	36.324	N	6.059	W	10	G			1.2	8	STRAIT OF GIBRALTAR
	01	18	38	30.9?	36.23	N	6.02	W	10	G			1.4	7	STRAIT OF GIBRALTAR
	01	18	51	59.8%	61.817	N	7.401	E	10	G			1.3	8	SOUTHERN NORWAY. MD 2.3 (BER).
	01	19	31	15.8%	60.333	N	5.362	E	0	G			0.5	7	SOUTHERN NORWAY. MD 2.0 (BER). Probable explosion.
	01	19	51	08.7&	40.688	N	124.712	W	14					8	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.2 (BRK).
	01	20	53	01.4%	60.700	N	5.621	E	10	G			0.6	6	SOUTHERN NORWAY. MD 2.2 (BER).
	01	21	54	24.4%	40.231	N	29.640	E	10	G			0.8	8	TURKEY
	01	22	05	16.5?	52.01	N	17.29	E	10	G			0.7	9	POLAND. ML 3.6 (VKA), 3.2 (GRF), 2.6 (KRA).
	01	22	14	14.5%	16.105	N	61.287	W	10	G			0.9	6	LEEWARD ISLANDS. ML 2.1 (FDF).
	02	00	11	01.4%	42.765	N	12.559	E	10	G			0.6	8	CENTRAL ITALY
o	02	00	22	40.5	8.411	S	156.290	E	49	*	5.5	5.1	1.2	107	SOLOMON ISLANDS
	02	00	26	37.1	33.442	N	116.359	W	5	G			1.0	8	SOUTHERN CALIFORNIA. Foreshock.
	02	00	26	58.1&	33.480	N	116.440	W	13					20	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.0 (PAS). Felt (IV) ot Anzo, Julion, Ramono and Thermal; (III) ot Cothedral City, Lo Quinto, Palm Desert, Sonta Ysobel, Thousond Polms and Warner Springs. Felt in Riverside, Son Bernardino ond Son Diego Counties.
	02	00	47	50.4	42.213	N	16.140	E	33	N			1.3	15	ADRIATIC SEA
	02	01	56	23.1%	42.602	N	12.989	E	10	G			0.5	5	CENTRAL ITALY
	02	02	34	41.2%	44.006	N	12.167	E	10	G			0.6	5	NORTHERN ITALY
	02	03	30	36.0	33.446	N	140.868	E	64	*	4.9		0.9	32	SOUTH OF HONSHU, JAPAN. Felt (I JMA) on Hachijo-jimo and Miyake-jimo.
	02	03	34	06.3*	24.438	S	67.547	W	199	*			1.1	11	CHILE-ARGENTINA BORDER REGION
	02	05	27	40.8*	20.885	S	70.827	W	33	N	4.7		1.2	12	NEAR COAST OF NORTHERN CHILE
	02	05	47	57.5	16.004	N	91.301	W	31		4.2		1.3	20	MEXICO-GUATEMALA BORDER REGION
	02	06	30	08.6?	12.16	S	75.93	W	73	?	4.9		1.0	15	PERU. Felt ot Limo.
	02	08	18	44.8?	56.33	S	146.85	E	10	G	4.7		1.4	10	WEST OF MACQUARIE ISLAND
f	02	10	01	28.8	14.278	S	167.180	E	143	G	5.9		1.0	336	VANUATU ISLANDS. Ms 5.8 (BRK). Depth from broodband displacement seismograms.
	02	10	54	53.2	26.052	N	128.478	E	30	D	5.4		1.1	118	RYUKYU ISLANDS. Felt (I JMA) on Okinowo.
	02	11	00	19.8*	26.031	N	128.382	E	40	*	4.6		1.0	15	RYUKYU ISLANDS
	02	11	29	54.1?	31.15	S	69.17	W	10	G			1.2	5	SAN JUAN PROVINCE, ARGENTINA
	02	11	38	08.5?	52.08	N	17.11	E	10	G			0.7	13	POLAND. ML 3.8 (VKA), 2.9 (KRA).
	02	12	48	39.0%	15.347	N	60.481	W	27	*			0.4	6	LEEWARD ISLANDS. ML 2.3 (FDF).

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	02	13	38	55.3&	56.976	N	154.867	W	75		4.5		23	KODIAK ISLAND REGION. <AGS-P>.
	02	16	20	04.6%	46.277	N	7.295	E	19			0.8	12	SWITZERLAND ML 2.9 (LOG).
a	02	17	32	39.0	18.731	S	174.535	W	116	D	5.5	1.1	83	TONGA ISLANDS
	02	19	04	22.4%	48.051	N	0.395	W	10	G		0.4	5	FRANCE. ML 2.2 (LDG).
	02	19	17	27.8	42.751	N	12.522	E	10	G		0.6	9	CENTRAL ITALY
	02	19	48	25.7*	30.778	N	131.447	E	41	?	3.8	1.3	9	KYUSHU, JAPAN
	02	22	13	07.7*	7.570	S	128.644	E	194	?	4.6	0.7	6	BANDA SEA
	02	22	39	32.6?	2.43	N	126.98	E	33	N	4.0	0.7	6	MOLUCCA PASSAGE
	03	00	19	13.5	38.351	N	20.387	E	18		3.5	1.2	19	GREECE. MD 3.7 (ATH).
	03	01	42	05.2?	36.67	N	141.25	E	33	N		0.1	5	NEAR EAST COAST OF HONSHU, JAPAN
	03	02	06	01.1&	33.980	N	117.000	W	18				10	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	03	02	16	56.9*	6.881	N	73.117	W	158		4.3	0.7	9	NORTHERN COLOMBIA
	03	04	46	15.6?	30.38	S	69.23	W	10	G		1.4	8	CHILE-ARGENTINA BORDER REGION
a	03	05	09	42.9	24.822	S	179.380	E	537	D	5.5	1.1	194	SOUTH OF FIJI ISLANDS
	03	05	20	39.7*	25.109	N	121.542	E	21	*	4.7	1.3	10	TAIWAN. Eleven people injured by rockslides. Felt on northern Toiwon
	03	05	32	21.2	34.826	N	28.290	E	33	N		0.6	7	EASTERN MEDITERRANEAN SEA
	03	05	36	16.9?	5.46	S	146.73	E	33	N	3.4	1.0	8	EAST PAPUA NEW GUINEA REGION
a	03	08	19	18.8	22.078	N	94.251	E	85	D	5.2	0.9	182	BURMA
	03	08	23	11.9*	35.627	S	144.512	E	10	G		1.4	6	NEW SOUTH WALES, AUSTRALIA. ML 4.1 (CNB).
	03	08	23	56.3?	52.23	N	170.96	E	33	N	4.2	1.4	4	NEAR ISLANDS, ALEUTIAN ISLANDS
	03	09	00	13.7*	36.407	N	7.906	W	10	G		1.1	5	STRAIT OF GIBRALTAR
	03	09	13	36.9	37.989	N	23.090	E	10	G		0.5	6	SOUTHERN GREECE. MD 3.2 (ATH).
	03	09	17	17.6*	35.692	S	144.538	E	10	G		0.3	5	NEW SOUTH WALES, AUSTRALIA. ML 3.5 (BFD).
	03	09	53	32.9	33.606	N	34.777	E	10	G		0.5	7	EASTERN MEDITERRANEAN SEA. ML 3.2 (BHL).
f	03	11	43	12.6	8.919	N	137.896	E	15	G	5.9 6.3	1.1	228	WEST CAROLINE ISLANDS. Ms 6.0 (BRK). Depth from broodbond displocement seismograms.
	03	12	38	25.4	41.982	N	20.346	E	10	G		0.8	15	ALBANIA. ML 3.0 (TTG).
	03	15	10	18.0?	54.57	S	143.38	E	10	G	4.9 4.5	1.5	12	WEST OF MACQUARIE ISLAND
	03	15	48	11.9*	41.664	N	20.767	E	5	G		1.4	8	ALBANIA. ML 2.7 (TTG).
	03	22	42	52.8*	33.835	S	70.914	W	33	N		1.4	9	CHILE-ARGENTINA BORDER REGION
	03	23	02	56.8?	18.12	S	177.93	W	525	?	4.2	0.9	18	FIJI ISLANDS REGION
	03	23	49	55.6*	38.491	N	24.066	E	10	G		0.8	5	AEGEAN SEA. MD 3.0 (ATH).
	04	01	18	02.4?	31.60	N	35.31	E	10	G		0.3	5	DEAD SEA REGION
	04	01	47	42.2%	18.027	N	66.832	W	23	*		0.1	6	PUERTO RICO REGION
	04	02	12	28.0&	61.585	N	149.693	W	39				37	SOUTHERN ALASKA. <AGS-P>. ML 4.0 (PMR). Felt (III) ot Anchoroge ond Eogle River.
a	04	03	35	52.3?	56.75	S	140.60	W	10	G	5.3 5.0	1.3	9	SOUTH PACIFIC CORDILLERA
	04	04	26	33.4*	5.814	S	146.038	E	33	N		0.7	7	EAST PAPUA NEW GUINEA REGION
	04	05	38	09.3&	19.221	N	155.459	W	11		5.1		100	HAWAII. <HVO-P>. ML 5.2 (HVO). Felt (IV) ot Pohola and Volcano; (III) ot Hokolou, Hilo, Honokoa, Loupohoehoe and Pepeekeo. Felt throughout much of the Island of Howoii.
	04	07	02	41.3%	18.005	N	66.562	W	33	N		0.5	6	PUERTO RICO REGION
	04	07	13	20.7	8.706	N	138.231	E	33	N	4.0 4.4	1.0	16	WEST CAROLINE ISLANDS
	04	07	30	00.9	42.268	N	19.911	E	10	G		0.5	7	YUGOSLAVIA. ML 2.4 (TTG).
o	04	08	28	17.6	21.741	S	179.395	W	595		5.3	1.0	126	FIJI ISLANDS REGION
	04	08	30	18.5	39.669	N	24.180	E	10	G		0.9	15	AEGEAN SEA. ML 3.3 (ATH).
	04	08	47	13.2&	36.753	N	121.492	W	6				18	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK).
	04	08	48	42.3&	36.762	N	121.490	W	6				17	CENTRAL CALIFORNIA. <BRK>. ML 2.9 (BRK).
	04	09	51	22.4%	39.882	N	28.853	E	10	G		1.0	5	TURKEY
	04	10	49	39.3*	18.398	N	95.927	W	102	*	4.0	0.6	6	VERA CRUZ, MEXICO
	04	10	56	54.5	35.918	N	114.916	W	5	G		0.7	25	CALIFORNIA-NEVADA BORDER REGION. ML 3.7 (NEIS), 3.6 (PAS). Felt (IV) ot Boulder City, Nevado. Also felt ot Green Volley ond Henderson, Nevodo.
	04	11	24	47.2%	60.430	N	5.017	E	0	G		0.6	7	SOUTHERN NORWAY. MD 2.1 (BER). Proboble explosion.
	04	12	27	49.4	38.737	N	22.533	E	23			1.5	16	GREECE. MD 3.4 (ATH).
	04	12	33	33.7&	61.981	N	150.495	W	47				32	SOUTHERN ALASKA. <AGS-P>. ML 3.1 (PMR).
o	04	13	54	14.2	17.636	S	71.718	W	20	G	5.8 5.4	0.9	258	NEAR COAST OF PERU. Felt (III) ot Arequipo ond Camono; (II) at Tocno Deth from broodband displocement seismogrmos
	04	13	59	45.8*	27.958	N	130.562	E	60	?	4.7	0.8	13	RYUKYU ISLANDS
a	04	14	38	59.0	2.804	N	128.209	E	38	D	5.5 5.2	1.2	100	HALMAHERA
	04	14	39	18.2	34.324	S	70.245	W	10	G		0.4	9	CHILE-ARGENTINA BORDER REGION
	04	15	12	29.2*	9.562	S	75.667	W	33	N	4.6	1.2	14	PERU. Felt ot Tingo Morio.
	04	15	42	07.9&	38.800	N	122.778	W	6				23	NORTHERN CALIFORNIA. <BRK>. ML 3.8 (BRK). Mo=7.3*10**14 Nm (BRK). Felt (V) ot Middletown. Also felt ot The Geysers.
	04	16	58	01.2?	37.13	N	141.58	E	33	N		0.3	5	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) ot Onohomo ond Fukushimo.
	04	17	37	34.0*	1.625	N	126.999	E	33	N	4.9	1.1	17	MOLUCCA PASSAGE
	04	17	54	30.0?	6.71	N	126.49	E	33	N	4.7	0.2	5	MINDANAO, PHILIPPINE ISLANDS
	04	18	35	46.8&	60.207	N	150.976	W	67				44	KENAI PENINSULA, ALASKA. <AGS-P>.
	04	21	36	15.8	6.968	S	154.720	E	63		4.8	1.1	30	SOLOMON ISLANDS
	04	22	39	28.6%	42.477	N	13.728	E	10	G		0.4	5	CENTRAL ITALY
	05	00	28	01.0	30.335	S	179.818	W	414	D	5.1	1.2	33	KERMADEC ISLANDS REGION
	05	03	44	43.4	39.059	N	44.164	E	56	*	4.3 3.6	1.0	17	N.W. IRAN-USSR BORDER REGION
	05	04	56	15.9%	40.254	N	29.649	E	10	G		0.2	7	TURKEY
	05	07	06	53.1?	67.41	N	164.34	W	10	G		0.8	6	ALASKA
	05	07	27	48.8*	67.478	N	165.309	W	10	G		1.1	9	ALASKA
	05	07	36	26.9	28.137	N	91.252	E	61		4.9	0.9	69	TIBET
	05	08	00	01.2*	41.707	N	19.677	E	10	G		0.9	7	ALBANIA. ML 2.5 (TTG).
a	05	08	06	43.2	6.521	N	125.703	E	184		5.4	1.2	107	MINDANAO, PHILIPPINE ISLANDS
	05	09	08	15.9%	39.554	N	29.230	E	10	G		0.3	5	TURKEY
	05	10	20	37.6	4.352	S	135.094	E	33	N	4.6	1.3	16	WEST IRIAN REGION
	05	10	27	04.3*	22.880	S	170.261	E	33	N	4.2	1.0	9	LOYALTY ISLANDS REGION
	05	10	34	23.3*	37.820	N	23.871	E	33	N		1.3	6	SOUTHERN GREECE. ML 3.1 (ATH).
	05	11	37	37.9&	37.500	N	118.378	W	8				19	CALIFORNIA-NEVADA BORDER REGION. <REN>. MD 3.3 (REN).
	05	12	42	47.5	4.199	S	135.028	E	23	*	4.9	1.3	35	WEST IRIAN REGION. Felt (III) ot Nobire.
	05	13	54	33.7*	5.016	S	144.716	E	116	*	4.3	1.0	14	PAPUA NEW GUINEA
	05	14	31	50.5&	61.746	N	151.291	W	81				29	SOUTHERN ALASKA. <AGS-P>.
	05	18	18	47.5	36.392	N	117.973	W	5	G	4.4	0.7	74	CALIFORNIA-NEVADA BORDER REGION. ML 4.7 (BRK), 4.2 (PAS). Felt (IV) ot Olancho, Californio ond (III) ot

														Lone Pine, California. Also felt at Keeler, California.
	05	18	29	21.5	36.438	N	117.954	W	5	G		0.6	15	CALIFORNIA-NEVADA BORDER REGION. ML 2.8 (NEIS).
	05	18	45	58.5%	40.312	N	29.637	E	10	G		1.4	5	TURKEY
	05	19	01	58.7*	40.603	N	19.968	E	10	G		1.1	8	ALBANIA. ML 2.5 (TTG).
	05	20	32	02.3	6.127	S	148.801	E	59	G	5.1	1.0	261	NEW BRITAIN REGION. Depth fram braadband displacement seismograms.
f	05	20	32	07.2	5.964	S	148.780	E	53	G	6.0 6.8	1.0	112	NEW BRITAIN REGION. Ms 6.4 (PAS), 6.3 (BRK). Seven water tanks and 4 bush houses destrayed (V) in the Kandrian area. A tsunami was generated, but caused no damage, in the Arawe Islands area. Felt (V) at Kimbe and (IV) at Rabaul. Felt (IV) at Papandetta and (III) at Lae, New Guinea. Depth fram braadband displacement seismagrams.
	05	20	34	52.2	38.146	N	22.845	E	29		5.0 4.9	1.2	205	GREECE. MD 4.6 (ATH). Felt strangly at Carinth. Also felt at Athens.
	05	20	57	12.7?	15.63	N	61.08	W	33	N		1.3	5	LEEWARD ISLANDS
	05	21	01	32.9?	16.88	N	61.98	W	163	?		0.5	10	LEEWARD ISLANDS
	05	21	51	23.5*	7.043	S	129.883	E	155	?	4.5	1.1	9	BANDA SEA
	05	22	11	10.5*	6.718	S	149.280	E	33	N	4.6	0.8	8	NEW BRITAIN REGION
	05	23	22	40.0&	35.910	N	98.710	W	5	G			8	OKLAHOMA. <TUL>. mbLg 2.3 (TUL).
	06	00	28	39.2	37.320	N	114.607	W	5	G		0.5	26	SOUTHERN NEVADA. ML 3.0 (NEIS).
	06	00	34	27.1	36.416	N	117.966	W	5	G		0.6	31	CALIFORNIA-NEVADA BORDER REGION. ML 3.6 (NEIS). Felt (III) at Lane Pine, California.
a	06	01	10	52.7	17.741	S	178.844	W	547	D	5.6	0.8	329	FIJI ISLANDS REGION
a	06	01	48	42.5	6.076	S	148.789	E	67		5.5	1.1	72	NEW BRITAIN REGION
	06	02	10	57.9	29.374	N	52.486	E	21		4.6 4.5	1.0	91	SOUTHERN IRAN. Felt at Shiraz.
	06	03	00	14.5*	25.188	N	128.391	E	33	N	4.6	1.2	23	RYUKYU ISLANDS
	06	03	38	39.6	39.189	N	20.117	E	10	G	3.9	1.4	32	GREECE-ALBANIA BORDER REGION. MD 3.8 (ATH).
	06	04	02	34.3	40.255	N	29.668	E	10	G		0.6	7	TURKEY
	06	04	26	36.6	43.887	N	128.382	W	10	G	4.5 4.3	0.8	83	OFF COAST OF OREGON
	06	05	09	16.6?	51.81	N	5.13	W	10	G		0.5	6	UNITED KINGDOM
	06	05	44	20.9?	6.10	S	148.70	E	33	N	4.7	1.6	5	NEW BRITAIN REGION
	06	05	46	07.4?	32.65	S	179.09	W	33	N	4.9	1.2	9	SOUTH OF KERMADEC ISLANDS
	06	06	59	41.8?	49.30	N	6.80	E	10	G		1.4	5	GERMANY
	06	07	26	57.8	35.927	N	114.817	W	5	G		0.6	17	CALIFORNIA-NEVADA BORDER REGION. ML 2.7 (NEIS). Felt (IV) at Boulder City, Nevada.
	06	07	30	45.9%	17.802	N	66.622	W	10	G		0.5	7	PUERTO RICO REGION
	06	08	41	45.4?	15.61	N	61.26	W	33	N		1.4	5	LEEWARD ISLANDS
	06	09	27	03.2%	37.741	N	25.432	W	10	G		0.3	6	AZORES ISLANDS
	06	09	30	10.3&	59.826	N	153.322	W	113				17	SOUTHERN ALASKA. <AGS-P>.
	06	09	42	36.3%	37.769	N	25.446	W	5	G		0.9	5	AZORES ISLANDS
	06	09	56	41.0%	37.741	N	25.432	W	10	G		0.5	6	AZORES ISLANDS
	06	09	57	25.8%	37.752	N	25.416	W	10	G		0.8	6	AZORES ISLANDS
	06	10	12	27.4%	37.745	N	25.426	W	10	G		0.6	6	AZORES ISLANDS
	06	10	32	01.0%	37.739	N	25.441	W	10	G		0.5	6	AZORES ISLANDS
	06	10	55	05.5&	34.140	N	117.710	W	9		3.7		48	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.8 (PAS), 3.8 (BRK). Felt (V) at Fontana and La Verne; (IV) at Azusa, Claremant, Fullerton, Guasti, Mount Baldy, San Dimas and Upland. Felt in Los Angeles, Orange, Riverside and San Bernardino Counties.
	06	11	00	16.9%	37.752	N	25.424	W	10	G		0.6	6	AZORES ISLANDS
	06	11	06	31.8	49.105	N	128.927	W	10	G	4.7 4.5	0.9	116	VANCOUVER ISLAND REGION
	06	11	40	02.3?	17.21	N	61.01	W	10	G		0.3	6	LEEWARD ISLANDS
	06	11	47	41.9?	32.98	S	178.82	W	33	N	4.8	1.0	8	SOUTH OF KERMADEC ISLANDS
	06	12	25	01.3?	37.20	N	5.09	W	10	G		0.9	5	SPAIN
	06	12	32	45.1%	59.932	N	6.110	E	0	G		1.2	6	SOUTHERN NORWAY. MD 2.2 (BER). Probable explasian.
	06	13	48	52.6%	37.739	N	25.433	W	5	G		0.3	6	AZORES ISLANDS. Felt at Vila Franca.
	06	13	57	53.9%	61.273	N	10.226	E	10	G		0.5	5	SOUTHERN NORWAY. MD 2.3 (BER).
	06	14	47	04.3	37.091	N	141.832	E	67		4.6	0.7	24	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Mito; (I JMA) at Onahama, Fukushima and Utsunomiya.
f	06	15	54	19.1	41.744	N	144.199	E	30	G	5.9 6.3	1.0	445	HOKKAIDO, JAPAN REGION. Ms 5.8 (BRK). Felt (III JMA) at Kushira, Urakawa and Hiraa; (II JMA) at Obihira and Tamokamai; (I JMA) at Nemuro and Muroran. Felt (I JMA) at Aomari, Mariaka and Ishinamaki, Hanshu. Depth fram broadband displacement seismagrams.
	06	16	01	09.9%	37.739	N	25.439	W	10	G		0.5	6	AZORES ISLANDS. Felt at Vila Franca.
	06	16	31	32.6	41.712	N	144.122	E	40		5.3	1.1	121	HOKKAIDO, JAPAN REGION. Felt (I JMA) at Kushiro.
	06	16	43	38.5*	41.731	N	144.195	E	46	*	4.8	1.0	42	HOKKAIDO, JAPAN REGION
a	06	16	55	21.0	41.722	N	144.170	E	34		5.6 5.7	0.9	225	HOKKAIDO, JAPAN REGION. Felt (II JMA) at Obihiro and Kushiro; (I JMA) at Urakawa.
	06	18	54	37.5?	1.20	S	132.73	E	33	N	4.8	0.8	7	WEST IRIAN REGION
	06	19	48	50.3	11.068	N	62.575	W	117		5.1	1.0	185	WINDWARD ISLANDS. Felt widely in northern Trinidad.
	06	20	15	34.0	46.450	N	12.916	E	10	G		1.0	6	NORTHERN ITALY
	06	20	24	27.0	6.091	S	146.722	E	59		4.3	1.0	25	EAST PAPUA NEW GUINEA REGION
	06	20	37	05.0&	60.217	N	149.952	W	39				38	KENAI PENINSULA, ALASKA. <AGS-P>. ML 3.5 (PMR). Felt (IV) at Seward.
	06	21	55	37.0%	61.742	N	7.527	E	10	G		0.9	8	SOUTHERN NORWAY. MD 2.6 (BER).
	06	22	40	51.7%	30.548	S	116.800	E	10	G		0.7	5	WESTERN AUSTRALIA
a	06	23	05	15.9	35.276	S	15.654	W	10	G	5.3 5.3	1.0	102	TRISTAN DA CUNHA REGION
	07	00	55	14.3?	9.52	S	125.16	E	33	N	4.6	1.4	5	TIMOR
	07	01	09	57.8*	46.554	N	116.508	E	10	G	4.4	1.4	11	MONGOLIA
	07	01	36	18.7*	5.956	S	145.497	E	119	*	4.0	1.0	9	EAST PAPUA NEW GUINEA REGION
	07	01	49	16.7*	45.701	N	7.071	E	10	G		0.6	9	NORTHERN ITALY. ML 2.7 (LDG).
	07	01	56	48.1	9.313	S	124.561	E	33	N	4.0	1.5	7	TIMOR
a	07	02	09	03.5	6.043	S	146.637	E	46		5.1 4.9	1.0	76	EAST PAPUA NEW GUINEA REGION
	07	02	41	11.6	40.813	N	22.111	E	10	G	3.5	1.5	15	GREECE. ML 3.8 (ATH), 3.2 (TTG).
	07	03	05	34.4*	39.340	N	20.049	E	10	G	3.5	1.5	12	GREECE-ALBANIA BORDER REGION
	07	03	06	25.0?	41.13	N	145.80	E	33	N	4.3	1.0	5	HOKKAIDO, JAPAN REGION
	07	03	23	18.6%	43.240	N	17.921	E	10	G		1.1	7	YUGOSLAVIA. ML 2.5 (TTG).
	07	04	12	49.1%	43.041	N	18.907	E	5	G		0.6	5	YUGOSLAVIA. MD 2.2 (TTG).
	07	06	16	13.7	16.536	N	145.971	E	33	N	4.6	0.5	12	MARIANA ISLANDS
	07	06	59	40.2*	49.070	N	6.831	E	10	G		0.7	5	GERMANY. MD 2.0 (STR).
	07	07	32	32.5	33.142	S	68.556	W	9		3.4	0.8	16	MENDOZA PROVINCE, ARGENTINA

	07	09	40	31.7*	41.444	N	144.589	E	33	N	4.7	1.2	12	HOKKAIDO, JAPAN REGION
	07	12	11	53.4?	19.41	S	70.81	W	33	N		0.8	6	NEAR COAST OF NORTHERN CHILE. Felt in the Arica area.
	07	12	24	07.9*	13.240	N	88.051	W	33	N	4.4 3.6	1.1	15	EL SALVADOR
	07	13	05	16.7	43.129	N	25.549	E	10	G		0.8	7	BULGARIA
	07	14	13	19.5%	18.214	N	66.930	W	10	G		1.2	5	PUERTO RICO REGION
	07	14	14	10.3%	60.351	N	4.995	E	0	G		1.6	7	SOUTHERN NORWAY. MD 1.7 (BER).
	07	14	29	44.5%	59.808	N	6.629	E	10	G		0.8	5	SOUTHERN NORWAY. MD 2.1 (BER).
	07	14	33	42.8%	60.571	N	4.994	E	10	G		0.3	5	SOUTHERN NORWAY. MD 2.2 (BER).
	07	15	05	30.0&	37.252	N	116.377	W	0		5.6 4.3		346	SOUTHERN NEVADA. <DOE>. ML 5.4 (BRK). 37° 15' 08.80" N., 116° 22' 36.04" W., Surface Elev. 1992 m., Depth of Burial 600 m., Shot Time 150530.072, "ALAMO," Nevada Test Site (Dept. of Energy). Felt at Las Vegas.
	07	15	27	30.5?	39.09	N	15.35	E	276	?		0.5	9	SOUTHERN ITALY
	07	15	38	51.9*	39.124	N	20.225	E	10	G	3.5	1.4	9	GREECE-ALBANIA BORDER REGION. MD 3.4 (ATH).
	07	19	01	05.7	44.673	N	25.302	E	10	G		1.4	18	ROMANIA
	07	21	45	22.7	16.493	S	73.029	W	67		5.1	1.0	112	NEAR COAST OF PERU
	07	23	40	38.8?	31.24	S	117.44	E	10	G		1.6	5	WESTERN AUSTRALIA
	08	02	20	53.4*	1.056	S	100.733	E	145	*	4.4	0.6	10	SOUTHERN SUMATERA
	08	03	48	46.4*	31.402	S	68.938	W	137	?		0.8	14	SAN JUAN PROVINCE, ARGENTINA
	08	04	03	01.5&	48.085	N	121.531	W	0				69	WASHINGTON. <SEA>. CL 3.2 (SEA). Felt in the Robe Valley.
	08	04	25	28.2	36.463	N	70.979	E	210	*	4.5	0.9	25	HINDU KUSH REGION
	08	04	59	05.1	39.184	N	20.149	E	10	G	3.8	1.3	26	GREECE-ALBANIA BORDER REGION. MD 3.7 (ATH).
	08	07	44	53.0*	50.226	N	13.523	E	10	G		1.1	5	CZECHOSLOVAKIA. ML 3.3 (VKA), 3.2 (GRF), 3.0 (KBA).
	08	09	28	08.5%	39.633	N	29.437	E	10	G		0.5	5	TURKEY
	08	10	01	20.2*	41.100	N	25.822	E	10	G		0.8	5	GREECE-BULGARIA BORDER REGION
	08	10	10	27.3?	16.26	S	167.98	E	190	*	4.7	1.5	15	VANUATU ISLANDS
	08	10	29	40.2*	18.820	S	69.611	W	146	*	4.9	1.4	12	NORTHERN CHILE
	08	11	03	28.1	5.670	S	150.298	E	112		5.0	0.8	34	NEW BRITAIN REGION
	08	11	16	52.5*	12.242	N	121.392	E	33	N	4.1	1.3	6	MINDORO, PHILIPPINE ISLANDS
a	08	13	12	52.1	3.001	S	147.801	E	33	N	4.9 4.9	1.4	38	BISMARCK SEA
	08	13	56	50.1*	38.089	N	21.267	E	10	G		1.2	5	GREECE. ML 3.2 (ATH).
	08	14	01	19.4	4.274	S	131.008	E	37	*	4.9 4.9	1.0	33	BANDA SEA
a	08	15	16	47.9	6.077	S	148.795	E	65	*	5.0	1.4	43	NEW BRITAIN REGION
	08	15	44	31.1*	38.203	N	20.357	E	10	G		1.1	10	GREECE. MD 3.6 (ATH).
a	08	16	35	35.7	6.290	S	154.677	E	74		5.8	1.0	236	SOLOMON ISLANDS. Felt (V) at Arawa and Panguna, Bougainville.
	08	16	53	48.6*	51.563	N	6.556	E	10	G		1.1	7	GERMANY
	08	16	56	32.1	36.703	N	44.034	E	67		4.7	1.3	155	IRAN-IRAQ BORDER REGION
	08	17	31	41.1&	59.718	N	152.302	W	60				28	SOUTHERN ALASKA. <AGS-P>.
	08	18	44	00.1	16.369	S	69.720	W	218		4.9	1.1	18	PERU-BOLIVIA BORDER REGION
	08	19	17	23.1?	17.97	S	175.39	W	173	*	4.3	1.1	24	TONGA ISLANDS
	08	21	43	23.1?	16.77	S	71.59	W	33	N		1.0	5	SOUTHERN PERU
	08	23	31	11.1	36.213	N	5.419	W	16			1.0	26	STRAIT OF GIBRALTAR. MG 3.8 (MDD). Felt (V) in the Gibraltar area.
	08	23	47	13.3	15.873	N	145.530	E	167		4.8	1.0	89	MARIANA ISLANDS
	09	00	09	42.0	60.372	N	170.555	E	10	G	4.6	1.1	29	EASTERN SIBERIA
	09	01	18	11.5&	46.838	N	119.694	W	0				53	WASHINGTON. <SEA>. CL 3.7 (SEA).
	09	01	31	05.4*	36.977	N	43.856	E	33	N	4.1	1.4	7	IRAQ
	09	02	19	30.3	36.222	N	5.453	W	10			1.1	14	STRAIT OF GIBRALTAR. MG 2.8 (MDD). Felt in the Gibraltar area.
	09	03	19	53.7?	4.14	S	154.48	E	171	*	4.6	1.2	9	SOLOMON ISLANDS
a	09	03	40	07.2	4.988	S	151.885	E	104		5.7	0.8	224	NEW BRITAIN REGION. Felt (IV) at Rabaul.
	09	04	51	12.8?	18.55	N	67.17	W	33	N		0.3	5	MONA PASSAGE
	09	05	44	30.2	13.088	N	88.820	W	136	D	5.0	1.0	54	EL SALVADOR
	09	06	23	32.2?	24.37	S	176.07	W	33	N	4.7	0.8	13	SOUTH OF FIJI ISLANDS
	09	08	51	18.8*	51.709	N	176.533	W	63	*	4.6	0.9	21	ANDREANOF ISLANDS, ALEUTIAN IS.
	09	09	02	17.2%	39.608	N	29.452	E	10	G		1.1	5	TURKEY
	09	09	09	42.6?	44.37	N	143.11	E	33	N	4.3	0.6	5	HOKKAIDO, JAPAN REGION
	09	09	10	08.4?	17.13	S	174.26	E	33	N	4.6 3.9	1.2	17	FIJI ISLANDS REGION
	09	10	03	35.4?	44.28	N	7.50	E	10	G		0.2	7	NORTHERN ITALY. MD 1.5 (STR).
	09	10	15	43.8	37.828	N	29.159	E	10	G	3.9	1.0	30	TURKEY. Felt at Denizli.
	09	10	17	01.9*	41.414	N	19.921	E	10	G		1.0	9	ALBANIA. ML 2.9 (TTG).
	09	11	46	02.8%	37.772	N	25.371	W	10	G		0.4	6	AZORES ISLANDS
	09	13	00	37.0*	36.541	N	34.375	E	33	N		1.0	11	TURKEY. Felt at Mersin.
	09	13	05	25.3%	39.335	N	28.347	E	10	G		1.2	8	TURKEY
	09	13	06	30.6%	39.320	N	28.237	E	10	G		1.2	6	TURKEY
	09	13	16	23.0?	52.14	N	17.38	E	10	G		0.7	11	POLAND. ML 3.8 (VKA), 3.7 (GRF), 2.8 (KRA).
	09	14	04	50.2*	51.065	N	15.752	E	10	G		1.3	7	POLAND. ML 3.2 (GRF), 2.6 (KRA).
a	09	15	10	57.9	29.843	S	178.961	W	262		5.5	1.0	215	KERMADEC ISLANDS. Felt on Raoul Island.
	09	16	36	50.0?	5.92	S	146.05	E	100	*	4.3	0.9	8	EAST PAPUA NEW GUINEA REGION
	09	17	25	48.6?	9.77	S	121.92	E	33	N	3.9	1.5	8	SAVU SEA
	09	18	25	54.6	32.372	S	69.361	W	121		4.9	0.9	103	MENDOZA PROVINCE, ARGENTINA. Felt (IV) at Valparaiso and Santiago, Chile. Felt (II) at Mendaza.
	09	19	43	47.7	36.394	N	71.155	E	33	N	4.4	0.8	10	AFGHANISTAN-USSR BORDER REGION
	09	19	54	59.5%	16.756	N	61.221	W	33	N		0.5	5	LEEWARD ISLANDS. ML 2.5 (FDF).
	09	21	11	49.5%	43.064	N	12.928	E	10	G		0.9	6	CENTRAL ITALY
	09	21	32	13.2?	6.83	N	73.25	W	173	?	4.0	1.0	9	NORTHERN COLOMBIA
a	10	02	42	55.0	12.965	N	57.486	E	10	G	5.0 4.1	1.0	76	ARABIAN SEA
	10	03	31	30.6	25.064	N	95.372	E	129	D	4.8	0.9	99	BURMA-INDIA BORDER REGION
	10	04	31	33.2	13.427	N	120.396	E	54	*	4.9	0.9	28	MINDORO, PHILIPPINE ISLANDS
	10	06	18	28.1?	42.84	N	13.19	E	10	G		0.2	4	CENTRAL ITALY
	10	06	36	13.8	12.163	N	92.867	E	33	N	4.5	0.8	35	ANDAMAN ISLANDS REGION
	10	08	36	01.9?	33.95	S	72.29	W	10	G		0.9	9	OFF COAST OF CENTRAL CHILE
	10	08	47	56.4*	18.090	S	69.647	W	163	?	4.3	0.3	6	NORTHERN CHILE
	10	09	46	13.7&	58.779	N	152.718	W	62				20	KODIAK ISLAND REGION. <AGS-P>.
	10	11	03	20.8	35.836	N	29.240	E	10	G		0.7	8	EASTERN MEDITERRANEAN SEA
	10	11	26	21.1%	40.268	N	29.709	E	10	G		1.1	6	TURKEY
	10	11	35	33.5%	41.882	N	12.802	E	10	G		0.7	5	SOUTHERN ITALY
	10	11	49	06.3	40.447	N	24.003	E	10	G	3.8	1.3	27	AEGEAN SEA. ML 3.5 (ATH).
	10	12	31	24.6*	18.281	N	67.041	W	10	G		0.6	5	MONA PASSAGE
	10	13	01	27.6	42.763	N	1.865	W	10	G		0.6	9	PYRENEES. ML 2.8 (LDG).
	10	13	22	52.4	30.661	N	137.711	E	506	*	4.5	0.7	40	SOUTH OF HONSHU, JAPAN

	10	14	02	25.8	42.801	N	1.873	W	10	G		0.6	8	PYRENEES. ML 2.7 (LDG).
	10	15	04	22.0?	55.20	N	161.35	W	33	N		0.6	8	ALASKA PENINSULA
a	10	16	47	10.7	21.514	S	114.057	W	10	G	5.3 5.1	0.8	76	EASTER ISLAND CORDILLERA
	10	17	29	04.1*	18.970	S	173.752	W	33	N	4.8	0.9	19	TONGA ISLANDS
a	10	17	36	00.6	19.966	S	168.763	E	44	D	5.0 5.1	1.2	89	VANUATU ISLANDS
	10	17	51	03.4%	33.604	S	118.027	E	10	G		1.1	8	WESTERN AUSTRALIA
	10	18	28	38.0	42.791	N	1.830	W	10	G		1.1	10	PYRENEES. ML 3.0 (LDG).
a	10	19	51	03.8	56.325	S	26.418	W	28	D	5.4	0.9	37	SOUTH SANDWICH ISLANDS REGION
	10	20	45	59.4&	41.225	N	111.629	W	7				9	UTAH. <SLC-P>. ML 3.6 (SLC).
	10	22	22	52.9	44.581	N	10.337	E	10	G		0.5	8	NORTHERN ITALY
	10	22	38	44.9%	37.868	N	29.497	E	10	G		1.3	6	TURKEY
a	11	00	12	35.3	5.368	N	126.612	E	67		5.9	1.2	234	MINDANAO, PHILIPPINE ISLANDS
	11	00	50	20.9*	16.319	S	65.863	W	33	N		1.2	9	BOLIVIA
	11	01	00	43.3&	36.320	N	118.340	W	6	G			7	CENTRAL CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	11	01	07	51.9&	57.030	N	145.803	W	10	G			21	GULF OF ALASKA. <AGS-P>.
	11	01	50	20.2&	45.249	N	120.131	W	0				46	WASHINGTON-OREGON BORDER REGION. <SEA>. CL 2.9 (SEA).
	11	01	53	02.2*	4.756	S	81.158	W	33	N	4.4	0.8	10	NEAR COAST OF NORTHERN PERU
	11	03	01	36.9?	5.14	S	133.70	E	33	N	4.2	1.6	9	AROE ISLANDS REGION
	11	03	15	14.9*	8.231	S	151.186	E	33	N		1.3	8	DENTRECASTEAUX ISLANDS REGION
	11	03	34	03.7	44.557	N	9.563	E	10	G		1.2	21	NORTHERN ITALY. ML 2.8 (LDG).
	11	03	35	25.8*	44.351	N	9.345	E	10	G		0.9	7	NORTHERN ITALY. ML 2.6 (LDG).
	11	05	12	55.0&	20.673	N	155.399	W	5				43	HAWAII. <HVO-P>. MD 4.1 (HVO).
	11	05	53	43.3?	22.27	N	93.88	E	33	N	4.5	0.3	7	BURMA-INDIA BORDER REGION
	11	06	22	07.5&	37.022	N	121.452	W	8				23	CENTRAL CALIFORNIA. <BRK>. ML 3.6 (BRK). Ma=3.7*10**14 Nm (BRK). Felt (III) at Gilroy and San Martin.
	11	10	01	26.1%	39.617	N	29.464	E	10	G		0.8	5	TURKEY
	11	10	49	02.3%	40.111	N	28.751	E	10	G		0.8	5	TURKEY
	11	11	41	45.9	42.848	N	1.885	W	10	G		1.1	16	PYRENEES. ML 3.2 (LDG).
	11	11	46	55.9&	39.192	N	111.988	W	2				23	UTAH. <SLC-P>. ML 3.1 (SLC). Felt (IV) at Fayette.
	11	13	55	07.8	42.320	N	19.791	E	10	G		0.5	7	YUGOSLAVIA. ML 2.4 (TTG).
	11	14	45	07.9	47.690	N	128.377	W	10	G	4.0	0.8	31	OFF COAST OF WASHINGTON
	11	14	50	05.2?	43.93	N	7.67	E	10	G		1.6	5	NEAR SOUTH COAST OF FRANCE. MD 1.0 (STR).
	11	16	18	52.0	41.021	N	20.989	E	10	G		0.7	11	ALBANIA. MD 3.5 (ATH). ML 3.1 (TTG).
	11	18	12	05.9	33.387	S	68.243	W	23			0.8	15	MENDOZA PROVINCE, ARGENTINA
	11	19	58	25.1%	61.208	N	10.267	E	10	G		0.9	6	SOUTHERN NORWAY. MD 2.1 (BER).
	11	20	18	30.6%	46.004	N	2.703	E	10	G		0.7	8	FRANCE. ML 2.0 (LDG).
	11	20	30	30.8*	12.932	N	125.500	E	33	N	4.6	0.9	12	SAMAR, PHILIPPINE ISLANDS
	11	20	40	04.9&	40.400	N	124.500	W	18				11	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.5 (BRK).
	11	20	46	14.0	43.219	N	21.133	E	10	G		1.5	34	YUGOSLAVIA. ML 3.0 (TTG).
	11	21	28	59.0*	35.528	S	71.522	W	87	*	4.5	0.8	22	CENTRAL CHILE
	11	22	01	36.8*	13.984	N	93.091	W	33	N	4.5	1.2	17	OFF COAST OF CHIAPAS, MEXICO
	11	23	19	36.3%	61.646	N	7.559	E	10	G		0.6	5	SOUTHERN NORWAY. MD 2.4 (BER).
	11	23	22	43.4*	26.568	N	96.179	E	33	N	4.8	0.5	6	BURMA
	12	00	52	10.7	6.116	N	126.173	E	159	*	5.4	1.2	28	MINDANAO, PHILIPPINE ISLANDS
	12	02	26	54.4	38.745	N	23.445	E	23		4.5 4.7	1.2	145	GREECE. ML 4.5 (ATH).
	12	02	33	59.6%	38.730	N	23.614	E	10	G		0.8	5	GREECE. ML 3.1 (ATH).
	12	02	49	42.8&	40.442	N	124.412	W	19				9	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.0 (BRK).
	12	05	38	59.7	38.716	N	23.490	E	26			0.8	14	GREECE. ML 3.9 (ATH).
	12	07	02	25.5?	20.89	S	178.76	W	572	?	5.2	1.2	33	FIJI ISLANDS REGION
	12	08	22	19.5?	52.28	N	162.48	W	33	N	4.5	1.0	8	SOUTH OF ALASKA. ML 4.2 (PMR).
	12	08	31	57.0?	36.58	S	73.95	W	33	N		1.2	18	NEAR COAST OF CENTRAL CHILE
a	12	08	41	47.2	26.414	N	141.813	E	55		5.2 4.1	0.9	111	BONIN ISLANDS REGION
	12	09	14	14.7?	33.79	S	72.08	W	33	N		0.7	7	OFF COAST OF CENTRAL CHILE
a	12	09	55	26.6	31.314	S	179.757	E	423		5.2	1.0	178	KERMADEC ISLANDS REGION
	12	09	55	54.0	9.852	N	71.379	W	29		5.5 4.4	0.8	242	LAKE MARACAIBO. Minor damage at Maracaibo. Felt in the states of Lara, Tachiro, Merida, Trujillo and Zulia.
	12	10	04	46.6&	61.096	N	151.056	W	64				32	SOUTHERN ALASKA. <AGS-P>.
	12	10	45	52.4*	46.402	N	13.188	E	10	G		0.4	5	AUSTRIA. ML 1.8 (KBA).
	12	11	26	01.0?	19.74	S	133.91	E	10	G		1.3	7	NORTHERN TERRITORY, AUSTRALIA
	12	12	22	30.4%	60.728	N	4.961	E	10	G		0.3	5	SOUTHERN NORWAY. MD 2.0 (BER).
	12	12	51	03.4%	61.702	N	7.564	E	10	G		0.9	7	SOUTHERN NORWAY. MD 2.5 (BER).
	12	15	00	24.0*	32.162	S	70.699	W	108	*	4.7	1.4	14	CHILE-ARGENTINA BORDER REGION
	12	16	35	59.6%	60.723	N	5.574	E	10	G		0.9	5	SOUTHERN NORWAY. MD 2.1 (BER).
a	12	17	00	08.6	6.802	N	123.970	E	52	*	5.2 4.7	1.4	98	MINDANAO, PHILIPPINE ISLANDS
	12	17	02	42.5	47.427	N	10.506	E	13			1.3	57	AUSTRIA. ML 3.7 (KBA), 3.5 (LDG), 3.4 (GRF). Felt at Elmen.
	12	17	43	17.2*	38.733	N	23.464	E	10	G		0.4	6	GREECE. ML 3.4 (ATH).
	12	17	44	29.4?	24.87	S	179.35	E	591	*	4.9	0.9	17	SOUTH OF FIJI ISLANDS
a	12	17	59	12.8	10.159	N	62.488	W	5	G	5.2 4.7	1.0	184	NEAR COAST OF VENEZUELA. MD 5.1 (TRN). Felt throughout Trinidad and eastern Venezuela.
	12	20	27	39.7%	38.764	N	27.790	E	10	G		0.5	5	TURKEY
	12	21	12	48.5*	24.866	N	125.316	E	55		4.6	1.3	30	SOUTHWESTERN RYUKYU ISLANDS
	12	22	41	12.3*	4.242	S	143.083	E	116	*	4.4	1.5	13	PAPUA NEW GUINEA
	12	23	09	12.0&	59.000	N	153.924	W	108				14	SOUTHERN ALASKA. <AGS-P>.
	12	23	13	26.2&	36.762	N	121.488	W	6				14	CENTRAL CALIFORNIA. <BRK>. ML 2.9 (BRK).
	12	23	23	01.5	24.907	N	123.146	E	136		4.5	1.1	40	SOUTHWESTERN RYUKYU ISLANDS
	12	23	26	41.3	46.989	N	7.220	E	10	G		1.3	22	SWITZERLAND. ML 2.9 (LDG).
	12	23	50	40.3%	42.316	N	19.891	E	10	G		1.2	5	YUGOSLAVIA. ML 2.3 (TTG).
	13	00	05	01.1?	11.98	N	125.84	E	33	N	4.4	1.1	9	SAMAR, PHILIPPINE ISLANDS
	13	00	45	15.5	44.305	N	129.218	W	10	G	4.3	0.6	42	OFF COAST OF OREGON
	13	01	49	44.1	32.990	N	47.136	E	79	*	4.8	0.7	16	IRAN-IRAQ BORDER REGION
	13	03	12	54.9*	12.326	S	74.424	W	33	N	4.9	1.6	21	PERU
	13	06	17	44.2%	45.998	N	2.731	E	10	G		0.7	7	FRANCE. ML 2.2 (LDG).
	13	07	16	39.0*	38.733	N	23.447	E	10	G		0.9	5	GREECE. ML 3.4 (ATH).
	13	07	16	57.1&	60.045	N	151.711	W	48				29	KENAI PENINSULA, ALASKA. <AGS-P>.
	13	07	27	13.7?	34.38	N	23.57	E	33	N		1.4	7	CRETE. ML 4.0 (ATH).
	13	09	19	47.1	45.792	N	10.607	E	10	G		0.8	9	NORTHERN ITALY
	13	10	22	23.6%	45.991	N	2.705	E	10	G		0.5	11	FRANCE. ML 2.4 (LDG).
	13	10	39	31.5	38.666	N	23.509	E	31			1.1	20	GREECE. MD 3.1 (ATH).
	13	11	14	58.6	44.385	N	6.866	E	10	G		0.7	14	FRANCE. ML 2.8 (LDG).
	13	12	26	33.1&	57.779	N	142.968	W	10	G			28	GULF OF ALASKA. <AGS-P>.
	13	12	47	14.8	42.788	N	1.860	W	51	?		0.9	21	PYRENEES. ML 2.5 (LDG). Felt (III) at Ulzama, Spain.
	13	14	41	35.1	41.942	N	141.460	E	102		4.8	0.9	109	HOKKAIDO, JAPAN REGION. Felt (II JMA) at Hachinahe and

														(1 JMA) at Aomori, Honshu; (1 JMA) at Hakodote ond Aomori, Hokkoido.
	13	15	30	14.9	50.666	N	129.824	W	10	G	4.3	1.0	38	VANCOUVER ISLAND REGION
	13	16	09	12.5	44.574	N	9.742	E	10	G		1.0	15	NORTHERN ITALY
a	13	17	29	34.9	41.875	S	16.249	W	10	G	5.6 5.1	1.0	108	SOUTH ATLANTIC RIDGE
	13	18	08	18.0&	58.248	N	142.682	W	10	G			25	GULF OF ALASKA. <AGS-P>.
	13	18	35	44.4%	47.426	N	9.840	E	10	G		1.6	6	GERMANY
	13	19	32	51.7?	42.31	N	5.33	E	10	G		0.4	5	WESTERN MEDITERRANEAN SEA. ML 2.9 (LDG).
	13	20	07	34.7?	17.64	N	99.67	W	10	G		1.0	6	GUERRERO, MEXICO
	13	21	18	46.7&	60.440	N	153.175	W	138				34	SOUTHERN ALASKA. <AGS-P>.
	13	21	49	36.5	45.989	N	2.709	E	10	G		0.7	11	FRANCE. ML 2.5 (LDG).
	13	23	47	45.6*	39.217	N	27.180	E	10	G		1.5	5	TURKEY
	14	00	08	29.6	41.922	N	19.276	E	10	G		1.0	25	ALBANIA. MD 3.0 (TTG).
	14	00	19	41.6	40.853	N	25.613	E	10	G		1.3	7	AEGEAN SEA. MD 2.9 (ATH).
	14	01	22	22.2	40.777	N	28.334	E	10	G		1.4	10	TURKEY
	14	02	39	04.5	39.923	N	120.851	W	5	G		0.9	10	NORTHERN CALIFORNIA. ML 2.7 (BRK).
	14	03	11	37.0*	4.736	N	125.366	E	33	N	4.5	1.2	17	TALAUD ISLANDS
a	14	05	28	18.8	4.731	S	130.595	E	98		5.1	1.1	74	BANDA SEA
	14	05	43	35.4	38.725	N	23.521	E	10	G		0.6	8	GREECE. ML 3.3 (ATH).
	14	08	09	07.3	25.211	N	123.475	E	179		4.8	0.9	58	NORTHEAST OF TAIWAN. Felt (1 JMA) on Ishigaki-shimo, Ryukyu Islands.
	14	08	36	42.8?	49.02	N	154.94	E	33	N	4.7	1.1	8	KURIL ISLANDS
	14	09	08	02.9%	39.634	N	29.463	E	10	G		1.2	6	TURKEY
	14	10	01	25.5	44.260	N	7.484	E	10	G		0.6	6	NORTHERN ITALY. MD 1.2 (STR).
	14	10	07	34.9&	59.008	N	151.906	W	53				29	KENAI PENINSULA, ALASKA. <AGS-P>.
	14	10	33	58.8	4.014	S	143.897	E	60	*	4.9	1.0	41	PAPUA NEW GUINEA
	14	10	43	06.5*	8.788	S	118.005	E	174	?	4.6	0.6	14	SUMBAWA ISLAND REGION
	14	11	15	14.7?	13.95	S	175.66	W	33	N	4.6	1.4	30	SAMOA ISLANDS REGION
	14	12	05	51.3	38.784	N	23.452	E	15		4.0	1.4	40	GREECE. ML 4.0 (ATH).
	14	12	14	41.3	19.321	N	64.510	W	33	N		1.0	16	VIRGIN ISLANDS
	14	12	45	33.4&	46.888	N	119.413	W	2				45	WASHINGTON. <SEA>. CL 3.3 (SEA).
	14	12	53	30.1?	32.72	S	72.79	W	33	N		0.8	8	OFF COAST OF CENTRAL CHILE
	14	13	18	12.6	38.753	N	23.545	E	10	G		1.1	10	GREECE. ML 3.6 (ATH).
	14	15	07	23.4*	40.150	N	23.423	E	10	G		0.7	6	GREECE. MD 3.0 (ATH).
	14	15	16	47.8?	58.32	N	6.00	E	10	G		0.6	6	SOUTHERN NORWAY. MD 2.1 (BER).
	14	15	57	32.5%	45.499	N	25.022	E	10	G		1.2	5	ROMANIA
	14	16	02	56.1%	42.566	N	18.602	E	10	G		0.2	5	YUGOSLAVIA. MD 2.3 (TTG).
	14	17	02	12.2&	48.316	N	122.101	W	3				45	WASHINGTON. <SEA>. CL 3.1 (SEA). Felt at Indian Ridge Correctian Center.
	14	17	31	33.0	44.456	N	114.083	W	5	G	4.9 4.1	0.8	116	WESTERN IDAHO. Felt (IV) ot Challis, Clayton, Ellis and Moy. Felt from Boise, Idoho to Heleno, Montano.
	14	17	32	32.3*	59.387	S	25.514	W	33	N	4.9	1.1	13	SOUTH SANDWICH ISLANDS REGION
	14	17	39	14.4	44.443	N	113.997	W	5	G		1.0	10	EASTERN IDAHO. ML 3.5 (NEIS).
	14	18	06	25.7	38.777	N	23.517	E	10	G		1.3	10	GREECE. ML 3.5 (ATH).
	14	18	13	46.5*	59.407	S	25.600	W	33	N	5.2	1.0	17	SOUTH SANDWICH ISLANDS REGION
	14	18	17	46.7	35.908	N	140.116	E	79		4.1	0.7	16	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Utsunomiyo ond Mito; (I JMA) ot Tokyo.
	14	18	28	23.8*	10.307	S	161.221	E	81	*	5.1	1.0	21	SOLOMON ISLANDS
	14	18	43	52.1	44.435	N	114.087	W	5	G		0.6	18	WESTERN IDAHO. ML 3.9 (NEIS).
	14	21	12	06.4	44.491	N	10.071	E	10	G		0.9	20	NORTHERN ITALY. ML 3.1 (LDG).
	14	21	39	11.5	16.888	N	61.098	W	51		5.1 3.8	0.7	125	LEEWARD ISLANDS
	14	21	48	48.4%	16.898	N	61.039	W	10	G		0.3	6	LEEWARD ISLANDS. ML 2.8 (FDF).
	14	22	05	02.9%	40.528	N	16.324	E	10	G		1.8	5	SOUTHERN ITALY
	14	22	15	34.7?	42.84	N	11.32	E	10	G		0.5	5	CENTRAL ITALY
	14	22	36	45.9	16.873	S	128.903	E	10	G		0.7	7	WESTERN AUSTRALIA
	14	22	46	41.2?	38.74	N	23.46	E	10	G		0.4	4	GREECE. ML 3.0 (ATH).
	14	23	18	08.0	8.487	S	112.596	E	33	N	5.3	1.2	49	JAVA
	14	23	52	34.1&	61.328	N	149.818	W	27				14	SOUTHERN ALASKA. <AGS-P>.
	15	00	38	09.5*	36.374	N	110.448	W	5	G		1.2	5	EASTERN ARIZONA. ML 3.3 (NEIS).
	15	00	50	59.1	36.268	N	140.061	E	77		4.2	1.0	18	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Utsunomiyo, Mito ond Kumogoyo; (I JMA) at Tokyo, Yokohamo, Onohomo ond Moeboshi.
	15	01	03	22.8?	32.08	N	35.61	E	10	G		0.6	5	DEAD SEA REGION
	15	01	22	21.0*	44.026	N	126.674	W	10	G		0.5	50	OFF COAST OF OREGON. CL 3.2 (SEA).
	15	01	53	50.8?	16.89	N	61.08	W	10	G		0.4	5	LEEWARD ISLANDS. ML 2.3 (FDF).
o	15	02	00	28.2	16.169	S	176.008	W	370	*	4.8	1.2	121	FIJI ISLANDS REGION
	15	03	26	49.8*	38.746	N	23.560	E	10	G		0.4	5	GREECE ML 3.3 (ATH).
	15	04	01	49.4?	41.78	N	21.87	E	10	G		1.1	4	YUGOSLAVIA. ML 1.7 (SKO).
	15	04	07	38.6?	5.99	S	146.81	E	52	?	3.9	0.5	8	EAST PAPUA NEW GUINEA REGION
	15	04	34	54.8%	40.537	N	15.221	E	10	G		1.2	5	SOUTHERN ITALY
	15	06	13	30.8&	40.375	N	124.538	W	16				8	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.0 (BRK).
	15	06	47	07.7?	33.29	S	72.49	W	33	N		0.7	11	OFF COAST OF CENTRAL CHILE
	15	08	54	27.5	28.722	S	67.354	W	127		4.4	0.8	21	LA RIOJA PROVINCE, ARGENTINA
	15	09	10	33.4*	32.762	S	70.628	W	33	N		0.8	9	CHILE-ARGENTINA BORDER REGION
	15	09	56	40.4?	18.92	N	64.26	W	49	*		1.0	15	VIRGIN ISLANDS
	15	10	57	38.3&	32.070	N	116.410	W	6	G			10	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.3 (PAS).
	15	11	30	46.5	44.382	N	7.403	E	10	G		0.7	13	NORTHERN ITALY. ML 2.7 (LDG).
	15	11	40	22.0%	61.100	N	10.180	E	10	G		1.0	6	SOUTHERN NORWAY. MD 2.3 (BER).
	15	11	47	39.7*	36.742	N	1.489	E	10	G		0.8	11	ALGERIA. MG 3.3 (ALG).
	15	13	30	42.8&	40.733	N	124.215	W	19				9	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.0 (BRK). Felt (IV) at Fields Landing and (III) at Rio Dell.
	15	13	37	12.7*	38.114	N	72.268	E	33	N	4.9	1.3	11	TAJIK SSR
	15	13	59	25.0%	60.705	N	5.660	E	0	G		0.6	7	SOUTHERN NORWAY. MD 2.4 (BER). Probable explosion.
	15	14	38	49.4*	36.498	N	10.210	W	10	G		0.8	10	NORTH ATLANTIC OCEAN. MG 3.4 (MDD).
	15	14	44	31.7%	18.208	N	67.173	W	33	N		0.9	6	MONA PASSAGE
	15	16	10	21.5%	42.833	N	11.573	E	10	G		0.1	5	CENTRAL ITALY
	15	16	54	41.7?	35.13	N	21.69	E	10	G	3.8	1.4	8	MEDITERRANEAN SEA. ML 3.9 (ATH).
	15	16	57	09.3%	42.263	N	6.745	W	10	G		1.0	5	SPAIN. MG 2.8 (MDD).
	15	19	03	24.2	40.770	N	25.652	E	10	G		1.4	9	AEGEAN SEA
	15	19	17	03.1?	51.48	N	7.40	E	10	G		1.1	5	GERMANY
	15	19	49	52.7*	38.777	N	23.698	E	10	G		1.9	8	GREECE. ML 3.7 (ATH).
	15	23	44	09.6?	3.65	N	125.93	E	33	N	4.7	1.3	10	TALAUD ISLANDS
a	16	01	16	49.3	41.273	S	88.513	W	10	G	5.1 4.8	1.3	59	WEST CHILE RISE

	16	01	33	21.1%	39.114	N	29.441	E	10	G			0.6	5	TURKEY
	16	01	54	32.0	37.480	N	22.748	E	76		4.6		1.2	213	SOUTHERN GREECE
	16	05	23	03.9&	39.172	N	123.302	W	2					15	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.5 (BRK). Mo=4.1*10**14 Nm (BRK). Felt (III) at Boonville, Potter Valley and Ukiah.
a	16	06	05	01.9	3.266	N	126.953	E	31	D	5.4	5.4	1.5	115	TALAUD ISLANDS
	16	06	39	40.3*	19.181	S	169.458	E	148	*	4.9		1.4	89	VANUATU ISLANDS
	16	07	26	20.4&	62.249	N	124.303	W	10	G				9	NORTHWEST TERRITORIES, CANADA. <PGC>. mbLg 3.3 (PGC).
	16	08	08	46.0	38.577	N	31.249	E	10	G			0.9	6	TURKEY
o	16	08	34	17.7	7.342	S	120.190	E	424		5.5		1.1	253	FLORES SEA
o	16	08	42	02.6	13.990	N	51.659	E	10	G	5.5	5.1	1.0	180	EASTERN GULF OF ADEN
	16	09	20	36.2?	7.38	S	127.79	E	109	?	4.6		1.3	12	BANDA SEA
	16	09	30	40.7?	62.04	N	7.49	E	10	G			1.2	7	SOUTHERN NORWAY. MD 2.5 (BER).
	16	09	45	59.4?	19.80	N	66.35	W	33	N			0.4	6	PUERTO RICO REGION
	16	11	30	54.4*	48.768	N	10.054	E	10	G			1.2	6	GERMANY
	16	11	33	46.9?	8.50	N	103.69	W	10	G	4.7	4.1	1.3	17	OFF COAST OF MEXICO
	16	13	45	02.8%	38.613	N	26.914	E	10	G			1.7	5	AEGEAN SEA
	16	14	37	28.2*	13.477	N	51.823	E	10	G	4.6		1.3	15	EASTERN GULF OF ADEN
	16	15	35	13.9*	7.021	S	129.090	E	120	?	4.9		1.3	13	BANDA SEA
	16	16	29	08.1*	18.930	N	108.391	W	10	G	4.5	3.9	1.3	22	REVILLA GIGEDO ISLANDS REGION
o	16	16	55	00.5	27.285	S	176.758	W	30	D	5.4	5.3	1.1	146	KERMADEC ISLANDS REGION
	16	17	56	27.6	39.951	N	23.800	E	10	G	3.5	4.0	1.1	38	AEGEAN SEA. ML 3.5 (ATH).
o	16	19	53	27.1	19.809	N	121.916	E	33	N	5.3	5.2	1.2	166	PHILIPPINE ISLANDS REGION
o	16	20	46	53.3	52.056	N	170.637	W	33	N	5.4	4.6	1.0	224	FOX ISLANDS, ALEUTIAN ISLANDS. ML 5.3 (PMR).
	16	20	49	58.4*	32.141	S	122.141	E	10	G			1.3	8	WESTERN AUSTRALIA
a	16	21	15	13.6	13.923	S	167.288	E	177	*	5.1		1.3	130	VANUATU ISLANDS
	16	22	01	15.5	57.337	N	143.475	W	10	G	4.0		1.3	15	GULF OF ALASKA. ML 3.9 (PMR).
	16	22	26	43.9	8.551	N	82.959	W	10	G			0.3	10	PANAMA-COSTA RICA BORDER REGION. MD 4.1 (HDC).
	16	22	33	56.0?	31.52	S	67.93	W	10	G			1.1	6	SAN JUAN PROVINCE, ARGENTINA
	17	00	16	14.3*	13.703	N	51.593	E	10	G	4.7	3.9	1.2	18	EASTERN GULF OF ADEN
a	17	03	23	05.0	20.090	N	121.992	E	9		5.4	5.6	1.3	189	PHILIPPINE ISLANDS REGION
	17	05	50	27.1?	36.40	N	139.24	E	161	*	3.6		0.4	6	HONSHU, JAPAN. Felt (1 JMA) at Utsunomiyo.
	17	09	23	20.6*	40.647	N	29.929	E	10	G			1.5	7	TURKEY
	17	12	33	16.4?	31.14	S	68.93	W	127	?			1.0	9	SAN JUAN PROVINCE, ARGENTINA
	17	12	51	46.9*	57.045	N	8.086	E	10	G			1.1	5	DENMARK. MD 2.7 (BER).
o	17	13	12	11.5	17.824	S	167.856	E	33	N	5.1	4.8	1.5	106	VANUATU ISLANDS
	17	14	41	15.7?	5.64	S	147.38	E	196	*	4.6		1.2	7	EAST PAPUA NEW GUINEA REGION
a	17	15	05	58.2	37.052	N	142.225	E	32	D	5.1	5.4	1.1	183	OFF EAST COAST OF HONSHU, JAPAN. Felt (11 JMA) at Yokohoma and (1 JMA) at Utsunomiya, Mito, Onahamo and Fukushimo. Also felt at Sendoi.
	17	16	11	41.5?	16.88	N	61.07	W	10	G			0.4	5	LEEWARD ISLANDS. ML 2.7 (FDF).
	17	17	01	37.3*	51.508	N	6.804	E	10	G			0.9	5	GERMANY
	17	18	34	42.4	3.928	N	31.465	W	10	G	4.8	4.4	1.0	61	CENTRAL MID-ATLANTIC RIDGE
	17	18	46	12.6	46.331	N	142.922	E	332	*	4.4		0.7	62	SAKHALIN ISLAND
	17	19	49	37.6*	38.749	N	23.535	E	10	G			0.3	5	GREECE. ML 3.3 (ATH).
	17	20	04	49.0*	49.293	N	6.810	E	10	G			1.0	7	GERMANY
a	17	21	13	29.6	2.392	N	128.285	E	172		5.0		1.4	64	HALMAHERA
	17	21	19	29.8	41.707	N	29.285	W	10	G	4.6	4.0	1.0	72	AZORES ISLANDS REGION
	17	21	23	10.1	6.807	N	73.087	W	155		4.9		1.0	95	NORTHERN COLOMBIA. Felt at Bucaramonga and Bogota.
	17	21	29	06.9*	36.235	N	27.954	E	33	N			1.1	13	DODECANESE ISLANDS
	17	23	22	00.2*	16.481	S	168.020	E	194	*	4.8		1.5	64	VANUATU ISLANDS
	18	00	23	11.8%	41.773	N	12.678	E	13	*			0.2	6	SOUTHERN ITALY
	18	01	43	35.9*	31.615	S	69.692	W	162	?			0.4	15	SAN JUAN PROVINCE, ARGENTINA
	18	01	44	14.7*	35.048	N	23.354	E	33	N	4.2		1.5	15	CRETE. ML 3.7 (ATH).
a	18	02	08	56.6	9.082	S	156.412	E	33	N	5.2	4.8	1.5	71	SOLOMON ISLANDS
	18	02	09	29.2*	32.247	S	117.397	E	10	G			1.0	6	WESTERN AUSTRALIA
	18	02	30	29.3	22.068	S	69.961	W	19		5.3	4.8	1.0	122	NORTHERN CHILE. Felt (II) in the Antofogosto area.
	18	03	05	11 8	31.697	N	104.084	E	33	N	4.7	4.4	0.8	57	SICHUAN PROVINCE, CHINA
	18	03	25	07.7&	37.673	N	122.025	W	1					11	CENTRAL CALIFORNIA. <BRK>. ML 2.2 (BRK). Felt at Hoyward and Castro Valley.
	18	03	25	47.3&	19.266	N	155.267	W	33					51	HAWAII. <HVO-P>. MD 4.2 (HVO). Felt.
	18	07	10	50.0	6.839	N	72.975	W	159	D	4.4		0.8	47	NORTHERN COLOMBIA
	18	07	37	53.2*	29.431	S	67.694	W	118	?			1.2	9	LA RIOJA PROVINCE, ARGENTINA
	18	07	40	01.4	42.264	N	19.950	E	10	G	3.2		1.2	29	YUGOSLAVIA. MD 3.4 (TTG).
	18	08	24	02.8	17.862	S	167.831	E	31	*	4.7		1.0	20	VANUATU ISLANDS
a	18	08	41	12.1	4.712	S	103.225	E	81	*	5.4		1.2	107	SOUTHERN SUMATERA
	18	10	20	58.6%	39.642	N	29.348	E	10	G			0.5	5	TURKEY
	18	10	48	55.3?	20.26	S	177.87	W	520	?	4.3		0.9	14	FIJI ISLANDS REGION
	18	12	18	55.8%	37.404	N	2.226	W	10	G			0.3	6	SPAIN. MG 2.7 (MDD).
	18	12	24	54.0%	40.793	N	29.992	E	10	G			1.5	6	TURKEY
	18	12	38	12.6%	39.508	N	29.104	E	10	G			1.1	10	TURKEY
o	18	13	22	11.2	54.601	N	168.487	E	23	D	4.9	5.4	1.3	108	KOMANDORSKY ISLANDS REGION
	18	14	45	59.3	19.989	N	122.335	E	19	*	4.3		1.4	31	PHILIPPINE ISLANDS REGION
	18	14	48	52.6	20.010	N	122.165	E	16	*	4.6	5.4	1.5	49	PHILIPPINE ISLANDS REGION
	18	16	40	45.8*	50.812	N	29.975	W	10	G	4.4		0.9	20	NORTH ATLANTIC RIDGE
	18	16	43	12.1	6.785	S	128.637	E	54	*	4.8	5.2	1.2	38	BANDA SEA
	18	17	17	15.9*	20.018	N	122.374	E	33	N	4.2		1.3	24	PHILIPPINE ISLANDS REGION
	18	17	29	30.1%	16.213	N	60.771	W	32				0.3	10	LEEWARD ISLANDS. ML 2.6 (FDF).
	18	17	47	32.7%	38.294	N	4.488	W	10	G			1.5	5	SPAIN. MG 2.7 (MDD).
	18	17	49	47.1*	32.221	S	117.406	E	10	G			0.8	5	WESTERN AUSTRALIA
	18	19	42	58.1?	21.92	S	178.44	W	547	?	4.5		1.1	11	FIJI ISLANDS REGION
	18	20	00	02.5	21.609	S	68.287	W	124	D	4.8		1.2	79	CHILE-BOLIVIA BORDER REGION
	18	20	32	53.4	37.141	N	3.890	W	11				1.4	21	SPAIN. MG 3.3 (MDD). Felt (IV) in the epicentral area.
	18	20	43	33.5?	51.84	N	16.72	E	10	G			1.3	8	POLAND. ML 3.3 (GRF).
	18	22	04	40.5*	4.833	S	152.906	E	77	*	4.4		1.0	7	NEW BRITAIN REGION
	18	22	48	27.7&	37.520	N	121.693	W	6					14	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
	19	00	08	59.3%	38.245	N	27.349	E	10	G			1.1	8	TURKEY
f	19	01	00	19.6	19.576	S	175.038	W	137	G	6.1		1.0	390	TONGA ISLANDS. mb 6.1 (BRK). Depth from broadband displacement seismograms.
	19	01	58	55.0?	33.70	S	72.07	W	12	*			0.4	7	OFF COAST OF CENTRAL CHILE
	19	02	12	18.5	39.545	N	29.080	E	10	G			0.8	12	TURKEY
o	19	02	58	15.6*	45.254	S	167.653	E	135	*	5.3		1.2	20	SOUTH ISLAND, NEW ZEALAND. Felt at Queenstown and Invercargill.

	19	02	59	59.5%	43.755	N	12.543	E	10	G			1.0	6	CENTRAL ITALY
	19	03	02	26.8?	16.67	N	62.84	W	33	N			1.5	10	LEEWARD ISLANDS. ML 3.5 (FDF).
	19	03	15	57.0	44.018	N	11.344	E	10	G			1.3	10	NORTHERN ITALY
	19	03	21	02.3%	44.166	N	11.395	E	10	G			0.3	7	NORTHERN ITALY
	19	04	31	52.8?	16.45	S	74.10	W	33	N			0.6	5	NEAR COAST OF PERU
	19	04	34	52.9?	35.84	N	26.84	E	10	G			1.0	6	CRETE
	19	06	00	39.4*	51.368	N	175.089	W	33	N	4.7		1.2	23	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.3 (PMR).
	19	06	03	37.8*	51.223	N	175.153	W	33	N	4.7		1.4	10	ANDREANOF ISLANDS, ALEUTIAN IS.
	19	06	15	03.9	1.313	N	123.816	E	313	*	4.5		0.7	20	MINAHASSA PENINSULA
	19	06	24	22.3	44.994	N	6.675	E	10	G			0.7	15	FRANCE. ML 2.7 (LDG).
	19	06	53	32.1	61.428	N	151.283	W	107	?			0.5	8	SOUTHERN ALASKA. Felt (II) at Palmer.
	19	08	22	21.9*	16.649	N	92.668	W	33	N	3.9		0.9	7	CHIAPAS, MEXICO
	19	08	56	46.5?	16.66	N	60.97	W	33	N			0.1	6	LEEWARD ISLANDS. ML 2.4 (FDF).
	19	09	55	53.5%	39.617	N	29.357	E	10	G			0.1	5	TURKEY
	19	10	10	54.5&	37.137	N	121.170	W	8					16	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).
a	19	10	54	41.7	50.506	N	129.924	W	10	G	5.4	5.4	1.0	209	VANCOUVER ISLAND REGION
	19	12	10	35.6*	19.921	N	122.252	E	33	N	4.5		1.3	11	PHILIPPINE ISLANDS REGION
	19	13	06	20.4?	21.48	S	68.60	W	33	N			1.2	5	CHILE-BOLIVIA BORDER REGION
	19	13	47	19.0	48.060	N	6.894	E	10	G			0.2	7	FRANCE. ML 2.5 (LDG).
	19	14	51	40.2%	60.592	N	4.789	E	0	G			0.7	6	SOUTHERN NORWAY. MD 2.2 (BER). Probable explosion.
	19	14	58	57.0	2.932	S	101.443	E	81	*	5.0		0.7	28	SOUTHERN SUMATERA
	19	15	24	12.1	41.550	N	29.419	W	10	G	4.6	3.7	1.1	42	AZORES ISLANDS REGION
	19	16	11	42.0	45.127	N	112.974	W	5	G			0.7	12	MONTANA. ML 3.5 (BUT).
	19	16	14	09.2?	51.25	N	173.75	W	33	N	4.4		1.4	13	ANDREANOF ISLANDS, ALEUTIAN IS.
	19	16	15	47.6%	59.001	N	5.955	E	10	G			0.5	5	SOUTHERN NORWAY. MD 2.0 (BER).
	19	16	20	15.7%	58.865	N	5.966	E	10	G			0.5	7	SOUTHERN NORWAY. MD 2.2 (BER).
a	19	16	30	56.1*	60.484	S	26.890	W	19	D	5.4		1.3	38	SOUTH SANDWICH ISLANDS REGION
	19	17	07	47.0	60.683	N	150.536	W	64		3.8		0.7	15	KENAI PENINSULA, ALASKA. Felt strongly at Anchorage.
	19	18	09	15.3	39.928	N	28.071	E	10	G			0.4	14	TURKEY
	19	19	34	16.9%	39.905	N	28.049	E	10	G			1.2	9	TURKEY
	19	19	47	56.7%	60.696	N	5.606	E	0	G			0.6	6	SOUTHERN NORWAY. MD 2.2 (BER). Probable explosion.
	19	20	10	43.5*	38.736	N	23.568	E	10	G			0.1	5	GREECE. ML 3.6 (ATH).
	19	20	44	12.9	38.230	N	38.729	E	10	G	4.2		1.1	36	TURKEY
	19	21	20	47.1	62.327	N	151.240	W	104	*	3.9		0.7	11	CENTRAL ALASKA
	19	22	30	02.3?	52.54	N	162.57	W	33	N			1.6	6	SOUTH OF ALASKA
	19	23	11	46.6?	6.59	S	147.11	E	89	*	4.0		1.0	8	EAST PAPUA NEW GUINEA REGION
	19	23	12	52.8*	50.839	N	177.926	W	33	N	4.5		1.1	30	ANDREANOF ISLANDS, ALEUTIAN IS. ML 3.9 (PMR).
	19	23	43	21.9	31.187	S	68.858	W	109	D	5.0		1.0	70	SAN JUAN PROVINCE, ARGENTINA. Felt (III) at San Juan.
a	19	23	57	27.2	60.370	S	26.690	W	33	N	5.2	5.1	1.4	24	SOUTH SANDWICH ISLANDS REGION
	20	01	18	50.6	14.390	N	90.292	W	194		4.7		0.9	55	GUATEMALA
	20	01	43	12.6&	50.502	N	129.953	W	10	G	3.6			35	VANCOUVER ISLAND REGION. <PGC>. ML 3.3 (PGC).
	20	02	31	34.5	38.735	N	116.421	W	5	G			0.2	7	NEVADA. MD 2.8 (REN).
	20	02	52	30.2	38.727	N	116.494	W	5	G			0.7	7	NEVADA. ML 3.4 (NEIS).
	20	04	14	42.3	22.391	S	68.430	W	125	D	4.8		1.0	20	NORTHERN CHILE
	20	05	05	12.3&	39.263	N	123.200	W	1					4	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 2.1 (BRK). Felt at Ukioh.
a	20	05	13	47.1	1.720	N	126.398	E	69	*	5.2		1.2	78	MOLUCCA PASSAGE
a	20	06	20	51.4	37.028	N	72.914	E	41	*	5.5	5.0	1.0	242	TAJIK SSR. Felt (IV) at Ishkashim; (III) at Kharog and Kalaikhum, USSR.
	20	07	07	06.5*	19.824	S	134.066	E	10	G			1.8	5	NORTHERN TERRITORY, AUSTRALIA
	20	07	40	17.9*	51.593	N	7.128	E	10	G			0.3	5	GERMANY
	20	07	46	27.4&	11.150	N	85.629	W	162					8	NICARAGUA. <HDC>. MD 4.1 (HDC).
	20	08	45	43.9	42.995	N	18.862	E	10	G			1.0	7	YUGOSLAVIA. ML 2.7 (TTG).
	20	09	40	01.4	13.721	N	91.119	W	57		4.9		1.2	112	NEAR COAST OF GUATEMALA. Ms 4.7 (BRK).
	20	09	50	26.8%	39.520	N	29.410	E	10	G			1.0	5	TURKEY
	20	11	57	37.7%	39.564	N	29.345	E	10	G			0.2	5	TURKEY
	20	12	16	50.9?	33.35	S	72.05	W	33	N			1.1	10	OFF COAST OF CENTRAL CHILE
	20	13	32	53.8%	16.761	N	61.642	W	33	N			1.5	7	LEEWARD ISLANDS. ML 2.6 (FDF).
	20	13	35	22.1%	39.545	N	29.371	E	10	G			0.5	5	TURKEY
	20	14	05	11.4?	25.15	N	109.73	W	10	G	4.1		0.9	17	GULF OF CALIFORNIA
a	20	14	51	09.2	51.923	N	170.116	W	33	N	4.9	4.7	0.9	83	FOX ISLANDS, ALEUTIAN ISLANDS
	20	15	00	14.5*	7.145	S	129.425	E	157	*	5.0		1.5	18	BANDA SEA
	20	15	00	28.3?	51.71	N	169.78	W	33	N	4.3		0.8	7	FOX ISLANDS, ALEUTIAN ISLANDS
	20	15	36	55.9*	54.846	N	168.172	E	33	N	4.4		0.7	16	KOMANDORSKY ISLANDS REGION
	20	17	25	05.3?	6.39	S	129.67	E	242	*	4.6		1.1	8	BANDA SEA
	20	17	32	39.2	45.335	N	24.963	E	10	G			1.6	17	ROMANIA
	20	17	45	54.5?	10.07	N	85.12	W	33	N			0.4	6	COSTA RICA
a	20	18	19	58.5	13.118	N	143.850	E	135		5.1		0.9	119	SOUTH OF MARIANA ISLANDS
	20	19	56	54.5	25.864	N	100.915	E	33	N	4.6		0.5	9	YUNNAN PROVINCE, CHINA. ML 4.1 (BJI).
	20	19	59	58.7*	40.413	N	20.458	E	10	G			0.6	7	GREECE-ALBANIA BORDER REGION. ML 2.6 (TTG).
	20	20	08	54.4?	33.02	S	72.42	W	33	N			0.6	9	OFF COAST OF CENTRAL CHILE
	20	20	09	24.9*	37.958	N	20.322	E	10	G			1.6	7	IONIAN SEA. ML 3.6 (ATH).
	20	20	15	13.4?	33.20	S	71.94	W	33	N			1.2	10	NEAR COAST OF CENTRAL CHILE
	20	20	35	41.6*	35.931	N	141.439	E	47	*	4.5		1.0	17	NEAR EAST COAST OF HONSHU, JAPAN
	20	20	45	45.2	36.414	N	117.978	W	5	G			0.6	37	CALIFORNIA-NEVADA BORDER REGION. ML 3.7 (BRK), 3.6 (NEIS). Felt (III) at Lone Pine, California.
	20	21	41	38.8*	7.519	S	131.434	E	33	N	4.6		0.5	5	TANIMBAR ISLANDS REGION
f	20	23	15	36.6	23.902	N	121.598	E	51	G	5.8	5.7	1.1	344	TAIWAN. Ms 5.4 (BRK). One person killed and one injured. Landslides domaged a major highway between Hua-lien and Su-hua. Felt throughout most of Taiwan. Depth from broadband displacement seismagrams.
	21	00	24	48.9?	16.81	N	61.14	W	10	G			0.6	6	LEEWARD ISLANDS. ML 3.2 (FDF).
	21	01	32	47.3?	21.24	S	68.46	W	33	N			1.3	5	CHILE-BOLIVIA BORDER REGION
	21	03	29	29.9*	41.818	N	23.833	E	10	G			1.0	5	GREECE-BULGARIA BORDER REGION
	21	04	39	25.4*	8.457	S	108.489	E	33	N	4.4		1.4	8	JAVA
	21	06	22	41.4	3.104	S	129.686	E	104	?	4.7		1.3	38	CERAM
	21	06	53	42.8*	18.906	N	94.841	E	62	*	4.6		0.5	11	BURMA
	21	07	26	41.6*	60.447	N	153.045	W	33	N			1.1	6	SOUTHERN ALASKA. ML 3.0 (PMR).
	21	07	48	36.9%	37.868	N	1.789	W	10	G			0.6	5	SPAIN. MG 2.5 (MDD).
	21	08	22	24.4?	44.31	N	7.34	E	5	G			0.1	5	NORTHERN ITALY. MD 1.0 (STR).
	21	09	57	17.5%	39.593	N	29.367	E	10	G			0.4	5	TURKEY
a	21	11	44	08.2*	22.944	S	112.189	W	10	G	5.0	4.7	0.8	31	EASTER ISLAND REGION
	21	13	40	33.9%	61.363	N	7.878	E	10	G			0.5	6	SOUTHERN NORWAY. MD 2.1 (BER).

	21	13	49	00.1?	33.99	S	72.22	W	23			1.0	13	OFF COAST OF CENTRAL CHILE
	21	14	01	49.4?	42.71	N	141.91	E	44	?	4.1	0.9	5	HOKKAIDO, JAPAN REGION. Felt (I JMA) at Sapporo.
	21	14	05	58.1?	34.02	S	72.47	W	10	G		0.3	8	NEAR COAST OF CENTRAL CHILE
	21	14	07	43.6?	34.13	S	72.57	W	10	G		0.5	8	NEAR COAST OF CENTRAL CHILE
	21	14	20	52.8?	34.04	S	72.51	W	10	G		0.2	9	NEAR COAST OF CENTRAL CHILE
	21	14	47	29.5*	0.248	S	131.156	E	33	N	4.4	1.6	8	WEST IRIAN REGION
	21	14	53	35.4?	34.05	S	72.48	W	10	G		0.5	8	NEAR COAST OF CENTRAL CHILE
	21	14	57	06.6?	19.57	S	179.38	W	662	*	4.2	1.0	20	FIJI ISLANDS REGION
	21	15	00	55.5	51.597	N	7.880	E	10	G		1.2	25	GERMANY. ML 3.3 (BNS), 3.1 (GRF).
	21	15	35	12.3	47.064	N	6.967	E	10	G		0.8	21	FRANCE. ML 3.1 (LDG).
	21	15	36	36.5%	47.085	N	7.247	E	10	G		1.4	5	SWITZERLAND. ML 2.6 (LDG).
	21	17	18	16.4%	37.963	N	15.750	E	32	*		1.0	8	SICILY
	21	17	51	17.4*	4.605	N	96.578	E	42	?	4.9 4.0	1.3	12	NORTHERN SUMATERA
	21	18	01	10.2%	61.137	N	10.236	E	10	G		1.0	6	SOUTHERN NORWAY. MD 2.3 (BER).
	21	18	30	05.4&	38.800	N	122.800	W	1				10	NORTHERN CALIFORNIA. <BRK>. ML 2.7 (BRK).
	21	18	32	37.2*	52.019	N	30.188	W	10	G	4.2	1.2	18	NORTH ATLANTIC RIDGE
	21	18	39	31.4	22.675	N	121.611	E	37		4.9	1.2	69	TAIWAN REGION. Felt on Taiwan.
	21	19	30	41.0*	62.130	N	150.597	W	33	N		1.1	5	CENTRAL ALASKA
	21	19	50	30.3?	51.85	N	16.88	E	10	G		0.5	9	POLAND. ML 3.3 (GRF).
	21	20	19	26.1?	37.53	N	25.25	W	10	G		0.1	7	AZORES ISLANDS
	21	20	27	18.6*	53.932	N	165.648	W	33	N	4.4	1.0	12	FOX ISLANDS, ALEUTIAN ISLANDS
	21	21	37	53.8*	15.364	N	94.057	E	108	*	3.9	0.8	9	SOUTH BURMA
	21	22	12	31.6	56.816	N	156.675	W	64	*	4.6	1.0	22	ALASKA PENINSULA
	21	22	29	04.1%	37.745	N	14.737	E	20	*		0.9	12	SICILY
	21	22	57	32.4*	42.226	N	16.522	E	10	G		1.1	5	ADRIATIC SEA
	21	23	02	30.6?	7.29	S	129.44	E	33	N	4.0	1.0	6	BANDA SEA
	22	00	09	26.0	36.144	N	120.175	W	15	G		0.7	7	CENTRAL CALIFORNIA. ML 3.1 (PAS).
	22	00	56	11.3	46.264	N	149.665	E	117	?	4.8	0.9	76	KURIL ISLANDS
	22	02	09	48.9*	3.881	S	101.243	E	33	N	4.8	0.2	7	SOUTHERN SUMATERA
	22	03	42	30.0?	34.04	N	46.72	E	33	N	4.6	0.4	6	WESTERN IRAN
	22	04	39	21.4	19.517	S	169.329	E	221		4.6	1.0	74	VANUATU ISLANDS
	22	04	40	18.2	42.298	N	19.877	E	10	G		1.2	11	YUGOSLAVIA. MD 2.9 (TTG).
	22	07	50	30.4?	26.58	S	69.11	W	33	N		1.1	14	NORTHERN CHILE
a	22	07	52	36.5	61.890	N	149.702	W	56		4.8	0.8	103	SOUTHERN ALASKA. Felt (V) at Anchorage, Chickaloon and Talkeetna; (IV) at Chugiak, Eagle River, Hatcher Pass, Palmer, Skwentna, Trapper Creek, Wasilla and Willow.
	22	08	11	03.6*	37.028	N	33.711	E	10	G		1.2	9	TURKEY
	22	08	21	58.2	36.712	N	31.568	E	127	*		0.8	17	TURKEY. MG 4.0 (HLW).
	22	08	59	59.8%	37.778	N	25.451	W	10	G		0.4	5	AZORES ISLANDS
	22	10	23	20.2	24.494	S	179.539	W	450	*	4.7	1.0	39	SOUTH OF FIJI ISLANDS
	22	12	00	09.2?	58.67	N	6.17	E	10	G		0.7	7	SOUTHERN NORWAY. MD 2.2 (BER).
	22	12	17	38.0*	24.188	S	67.053	W	177	*	4.4	1.3	35	CHILE-ARGENTINA BORDER REGION
	22	12	32	48.8%	38.724	N	28.861	E	10	G		1.5	10	TURKEY
	22	12	38	15.4*	61.886	N	149.837	W	33	N		1.7	9	SOUTHERN ALASKA. ML 3.4 (PMR).
	22	13	06	06.2?	31.68	S	70.70	W	33	N		1.3	12	CHILE-ARGENTINA BORDER REGION
	22	14	04	13.8?	24.03	S	66.89	W	191	*		0.9	6	SALTA PROVINCE, ARGENTINA
	22	14	25	15.4*	14.665	S	167.350	E	182	*	4.8	1.1	65	VANUATU ISLANDS
	22	15	06	39.8*	18.866	S	169.281	E	270	*	4.2	1.1	21	VANUATU ISLANDS
	22	15	23	54.5?	5.08	S	143.82	E	33	N	4.5	0.5	5	PAPUA NEW GUINEA
	22	15	30	36.0*	18.384	N	105.698	W	33	N	4.4	0.9	39	OFF COAST OF JALISCO, MEXICO
	22	15	46	52.9%	40.600	N	27.858	E	10	G		1.1	6	TURKEY
	22	16	31	26.4*	38.715	N	44.901	E	66	?	4.1	1.2	10	TURKEY-IRAN BORDER REGION
	22	16	46	29.7%	60.725	N	5.626	E	0	G		1.0	7	SOUTHERN NORWAY. MD 2.4 (BER). Probable explosion.
	22	16	49	34.0*	38.928	N	45.417	E	33	N	4.0	0.8	7	N.W. IRAN-USSR BORDER REGION
	22	17	49	23.7?	18.33	N	67.24	W	33	N		0.7	7	MONA PASSAGE
	22	17	55	37.2*	17.974	S	178.619	W	587	*	4.5	0.9	24	FIJI ISLANDS REGION
	22	18	08	56.0?	11.51	S	118.25	E	33	N	4.9	1.6	6	SOUTH OF SUMBAWA ISLAND
	22	18	11	31.6	22.341	S	179.547	W	586		5.2	0.8	90	SOUTH OF FIJI ISLANDS
	22	18	23	36.6%	61.735	N	7.497	E	10	G		1.1	6	SOUTHERN NORWAY. MD 2.4 (BER).
	22	19	14	38.2*	36.585	N	70.472	E	184	?	4.6	0.8	15	HINDU KUSH REGION
	22	19	25	55.8?	15.85	N	98.13	W	33	N		0.8	7	OFF COAST OF GUERRERO, MEXICO
	22	19	42	06.8*	20.418	S	178.475	W	573		5.1	0.7	25	FIJI ISLANDS REGION
	22	19	49	04.9?	5.53	S	130.94	E	33	N	4.7	0.8	8	BANDA SEA
	22	21	07	45.7*	40.662	N	24.676	E	10	G		0.9	5	AEGEAN SEA
a	22	21	16	04.0	39.862	N	29.589	W	10	G	5.0 5.3	1.0	198	AZORES ISLANDS. Ms 5.6 (BRK).
	23	00	04	06.9*	11.536	S	166.313	E	60	*	4.8	1.0	21	SANTA CRUZ ISLANDS
	23	00	22	07.3*	5.073	S	144.649	E	123	?	4.5	0.9	12	PAPUA NEW GUINEA
	23	01	33	43.9	13.628	N	91.917	W	57		4.4	1.0	67	NEAR COAST OF GUATEMALA
	23	03	31	04.3	39.024	N	71.698	E	33	N	4.6	1.1	41	TAJIK SSR
	23	03	57	40.0*	22.389	S	178.213	W	365	?	4.6	0.9	18	SOUTH OF FIJI ISLANDS
	23	04	00	07.0%	40.853	N	28.508	E	10	G		0.4	6	TURKEY
	23	04	06	45.6*	7.556	S	128.533	E	152	?	4.3	1.3	11	BANDA SEA
a	23	04	10	15.6	51.205	N	175.734	W	26	D	4.9 4.5	1.0	123	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.9 (PMR).
	23	05	51	45.9	40.076	N	114.023	E	33	N	4.3	1.4	24	NORTHEASTERN CHINA
	23	06	48	05.5%	44.852	N	6.855	E	10	G		0.8	6	FRANCE. ML 2.2 (LDG).
	23	07	04	37.7%	59.544	N	5.651	E	10	G		0.8	8	SOUTHERN NORWAY. MD 2.4 (BER).
a	23	07	38	09.7	48.706	N	90.565	E	19	D	5.5 5.8	1.2	291	MONGOLIA. Felt in Fuyun County, China.
	23	08	23	10.7*	50.442	N	18.972	E	10	G		1.1	7	POLAND. ML 3.5 (GRF).
	23	08	38	34.7?	7.27	S	130.62	E	198	?	3.7	1.2	7	TANIMBAR ISLANDS REGION
	23	08	48	34.8%	39.585	N	29.241	E	10	G		1.6	5	TURKEY
	23	09	19	46.6	36.575	N	21.912	E	53	*	4.1	1.0	46	SOUTHERN GREECE. MD 3.9 (ATH). Felt in the Kalamai area.
	23	10	14	47.7*	36.489	S	97.748	W	10	G	4.9 4.3	1.0	22	WEST CHILE RISE
	23	12	15	00.2*	14.691	S	167.270	E	231	?	4.9	1.2	35	VANUATU ISLANDS
	23	13	39	33.6	61.986	N	149.340	W	33	N		0.6	8	SOUTHERN ALASKA. ML 3.0 (PMR).
	23	13	53	23.2?	62.03	N	7.47	E	10	G		1.3	6	SOUTHERN NORWAY. MD 2.6 (BER).
	23	14	20	44.2%	47.955	N	1.519	W	10	G		0.5	5	FRANCE. ML 2.8 (LDG).
f	23	14	25	36.7	22.127	S	174.900	E	19	G	5.9 6.4	1.0	279	LOYALTY ISLANDS REGION. Ms 6.6 (BRK), 6.0 (PAS). Complex event. Depth from broadband displacement seismograms, based on first event.
	23	14	31	59.6%	33.466	S	70.673	W	87	?		0.6	11	CHILE-ARGENTINA BORDER REGION
	23	14	39	46.5*	22.074	S	174.882	E	33	N	5.4	1.2	29	LOYALTY ISLANDS REGION
	23	14	57	20.3?	3.03	S	149.32	E	33	N	4.6	1.0	8	BISMARCK SEA

a	23	15	17	08.1	6.526	S	152.779	E	17	G	6.7	6.7	0.9	402	NEW BRITAIN REGION. Ms 6.8 (BRK), 6.5 (PAS). Felt (IV) at Raboul. Also felt (IV) at Arawa and Panguna, Bougainville. Depth from broadband displacement seismograms.
	23	15	58	50.3*	3.857	S	149.278	E	90	?	4.8		0.9	16	BISMARCK SEA
	23	16	11	04.7%	42.263	N	19.912	E	10	G			0.6	8	YUGOSLAVIA. MD 2.8 (TTG).
	23	16	19	55.3	6.609	S	152.889	E	50	*	4.7		1.4	28	NEW BRITAIN REGION
	23	16	48	59.2	6.401	S	152.838	E	39	*	4.7		1.1	28	NEW BRITAIN REGION
	23	17	11	37.2	6.466	S	153.007	E	28	D	5.6	5.5	0.9	219	NEW BRITAIN REGION
	23	17	34	16.0	9.106	N	84.357	W	10	G			0.5	10	COSTA RICA. MD 3.5 (HDC). Felt (III) at Quepos. Also felt at San Jose.
	23	17	58	46.9	38.723	N	15.766	E	110		3.6		0.9	26	SICILY
	23	18	24	28.8*	6.586	S	153.314	E	33	N	4.0		1.4	5	NEW BRITAIN REGION
	23	18	57	59.1?	3.37	S	149.53	E	10	G	4.5		1.0	10	BISMARCK SEA
	23	19	05	01.0	6.415	S	152.844	E	26		5.4	4.5	0.9	66	NEW BRITAIN REGION
	23	19	10	02.9	30.837	N	50.113	E	40		4.6		1.0	65	IRAN. Felt in the Da Ganbadan area.
	23	19	55	56.9	6.548	S	152.861	E	22	D	5.2		1.0	65	NEW BRITAIN REGION
	23	20	49	22.7*	42.956	N	20.452	E	10	G			1.4	7	YUGOSLAVIA. MD 2.8 (TTG).
	23	22	32	37.9	6.483	S	152.895	E	34		5.2	4.7	1.0	62	NEW BRITAIN REGION
	23	23	22	35.6%	43.156	N	12.659	E	10	G			0.9	5	CENTRAL ITALY
	23	23	57	10.4%	42.285	N	12.167	E	10	G			0.4	8	CENTRAL ITALY
	23	23	58	46.1?	7.83	S	153.73	E	33	N	4.3		1.3	6	NEW BRITAIN REGION
	24	00	05	34.9*	22.262	S	174.882	E	33	D	4.8	4.5	1.1	29	LOYALTY ISLANDS REGION
	24	00	29	54.3	22.364	S	177.128	W	224	D	5.0		0.8	91	SOUTH OF FIJI ISLANDS
	24	00	47	22.5	35.443	N	3.678	W	10	G			1.2	20	STRAIT OF GIBRALTAR. MG 3.3 (MDD).
	24	00	48	08.4	44.269	N	6.771	E	10	G			0.2	8	FRANCE. ML 2.3 (LDG).
	24	00	59	06.2*	14.960	N	92.753	W	71	*	4.3		1.0	23	NEAR COAST OF CHIAPAS, MEXICO
	24	02	19	19.2	38.173	N	20.335	E	10	G			0.9	12	GREECE. ML 3.6 (ATH).
	24	02	21	50.7*	6.477	S	153.095	E	33	N	4.2		1.2	7	NEW BRITAIN REGION
	24	02	51	37.0*	6.368	S	154.777	E	80		4.9		1.2	16	SOLOMON ISLANDS
	24	04	19	41.8*	25.962	S	179.738	E	484	*	4.9		1.0	24	SOUTH OF FIJI ISLANDS
a	24	05	04	38.6	11.548	N	141.329	E	32	D	5.4	4.5	1.0	112	WEST CAROLINE ISLANDS
	24	05	47	11.9*	17.805	N	122.826	E	33	N	5.0	5.0	0.8	8	LUZON, PHILIPPINE ISLANDS
	24	05	48	08.0	6.673	S	153.103	E	33	N	4.5		0.9	11	NEW BRITAIN REGION
	24	06	11	32.1?	17.67	N	65.81	W	10	G			0.2	7	PUERTO RICO REGION
	24	06	21	36.7*	21.843	S	179.346	W	604		5.0		1.0	36	FIJI ISLANDS REGION
	24	06	39	52.5?	7.39	S	129.86	E	191	?	3.7		1.0	5	BANDA SEA
	24	08	03	14.1%	41.558	N	14.799	E	10	G			0.0	5	SOUTHERN ITALY
	24	08	03	55.7*	3.093	S	130.004	E	65	?	4.5		0.7	7	CERAM
	24	08	13	54.8&	35.084	N	97.373	W	5	G				5	OKLAHOMA. <TUL>. MD 1.7 (TUL).
a	24	08	58	27.6	22.025	S	174.908	E	26	D	5.4	5.0	1.0	161	LOYALTY ISLANDS REGION
	24	09	38	31.5	40.625	N	29.824	E	10	G			0.6	9	TURKEY
	24	11	57	01.2*	6.565	S	152.882	E	33	N	3.8		1.6	5	NEW BRITAIN REGION
	24	12	20	27.7*	6.528	S	153.010	E	33	N	3.8		1.1	6	NEW BRITAIN REGION
	24	12	37	29.1	6.520	S	152.760	E	33	N			1.0	9	NEW BRITAIN REGION
a	24	14	47	51.2	6.446	S	152.937	E	31		5.2	4.8	1.1	74	NEW BRITAIN REGION
	24	15	46	42.1?	7.48	S	128.42	E	117	?	4.0		0.7	6	BANDA SEA
	24	15	47	56.4	12.927	N	143.355	E	182		5.0		1.0	55	SOUTH OF MARIANA ISLANDS
	24	15	58	30.9&	11.250	N	85.900	W	151	G				6	NICARAGUA. <HDC>.
	24	16	16	24.5*	15.295	S	174.537	W	248	*	4.6		0.9	55	TONGA ISLANDS
	24	17	45	37.9*	43.219	N	17.860	E	10	G			1.0	9	YUGOSLAVIA. ML 2.8 (TTG).
	24	18	46	08.9	19.808	N	122.157	E	58	*	4.5		1.3	27	PHILIPPINE ISLANDS REGION
	24	19	17	04.7*	6.908	S	152.405	E	33	N	3.7		1.2	5	NEW BRITAIN REGION
	24	19	44	02.2*	19.840	S	133.951	E	5	G			1.2	5	NORTHERN TERRITORY, AUSTRALIA. ML 3.6 (ISO).
	24	20	20	20.9*	39.704	N	23.549	E	10	G			1.4	8	AEGEAN SEA. ML 3.1 (ATH).
	24	21	51	35.0	19.082	N	100.051	E	33	N	4.2		1.3	27	SOUTHEAST ASIA
	24	22	03	46.8*	15.650	N	148.836	E	33	N	4.5		0.6	7	MARIANA ISLANDS REGION
	24	22	16	37.7	6.693	S	152.791	E	33	N	5.3		1.0	21	NEW BRITAIN REGION
	24	22	20	00.9*	36.589	N	21.918	E	33	N			1.0	8	SOUTHERN GREECE. ML 3.4 (ATH).
a	24	22	22	50.9	18.260	N	146.430	E	87	*	4.9		1.0	38	MARIANA ISLANDS
	24	23	41	12.9	1.451	N	127.431	E	156		5.2		1.1	53	HALMAHERA
	25	00	29	34.7%	46.637	N	7.236	E	10	G			1.2	7	SWITZERLAND. ML 2.3 (LDG).
	25	01	22	06.5&	36.883	N	121.338	W	5					12	CENTRAL CALIFORNIA. <BRK>. ML 2.7 (BRK).
	25	01	55	38.5%	33.138	S	71.021	W	64	?			0.3	11	NEAR COAST OF CENTRAL CHILE
	25	03	26	04.5	40.641	N	29.758	E	10	G			1.4	19	TURKEY
	25	04	53	36.6*	52.512	N	169.248	W	72	*	4.3		1.4	10	FOX ISLANDS, ALEUTIAN ISLANDS
	25	05	29	07.9*	36.484	N	4.437	W	112	?			0.2	6	STRAIT OF GIBRALTAR
	25	05	51	00.9*	32.317	S	71.621	W	10	G			0.6	14	NEAR COAST OF CENTRAL CHILE
f	25	06	46	06.6	6.081	S	133.667	E	28	G	6.5	6.7	1.0	419	AROE ISLANDS REGION. Ms 6.9 (BRK), 6.7 (PAS). Felt at Darwin, Australia. Two events about 5 seconds apart. Depth from broadband displacement seismograms.
	25	07	28	31.7	3.612	S	149.403	E	86	?	4.7		0.8	20	BISMARCK SEA
	25	07	46	34.6	6.402	S	133.907	E	33	N			1.3	12	AROE ISLANDS REGION
	25	07	58	42.2	35.941	N	45.935	E	77		4.9		1.1	73	IRAN-IRAQ BORDER REGION
	25	09	21	57.1*	6.606	S	133.919	E	33	N	4.2		0.9	6	AROE ISLANDS REGION
	25	09	33	54.6%	40.692	N	29.686	E	10	G			0.8	5	TURKEY
	25	09	44	49.7*	10.402	N	83.543	W	11				0.4	10	COSTA RICA. MD 3.7 (HDC). Felt (II) at San Jose.
	25	09	45	23.8	46.838	N	153.181	E	33	N	5.0		0.8	40	KURIL ISLANDS
	25	10	20	43.0*	39.304	N	142.866	E	33	N	4.6		0.9	18	NEAR EAST COAST OF HONSHU, JAPAN
	25	10	28	37.0	52.370	N	156.824	E	173	D	5.1		0.8	108	KAMCHATKA
	25	11	00	23.1?	23.61	S	172.45	E	33	N	4.7		1.4	7	LOYALTY ISLANDS REGION
	25	11	10	49.2&	11.180	N	85.710	W	175	G				5	NICARAGUA. <HDC>.
	25	12	40	51.4*	40.158	N	25.620	E	10	G			0.6	6	AEGEAN SEA
	25	14	27	12.4	51.276	N	179.257	W	33	N	4.8		1.0	59	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.4 (PMR).
	25	15	17	50.7%	16.004	N	61.204	W	10	G			0.6	5	LEEWARD ISLANDS. ML 1.8 (FDF).
	25	15	54	52.1%	42.121	N	24.800	E	10	G			1.3	5	BULGARIA
	25	16	41	06.5*	34.594	N	79.634	E	57	?	4.2		1.1	12	KASHMIR-TIBET BORDER REGION
	25	18	19	21.9*	30.227	N	141.868	E	33	N	4.6		0.7	8	SOUTH OF HONSHU, JAPAN
	25	18	48	23.4%	44.074	N	10.916	E	10	G			0.3	5	NORTHERN ITALY
	25	19	24	31.7	51.233	N	176.147	W	41	*	4.9		1.0	95	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.2 (PMR).
	25	19	39	56.5	44.062	N	10.837	E	12				1.0	19	NORTHERN ITALY. MD 3.0 (FIR), ML 2.9 (LDG). Felt at San Marcello Pistoiese.
	25	19	56	56.1*	4.963	S	149.887	E	402		4.0		0.7	13	BISMARCK SEA

	25	20	03	04.9	36.546	N	7.174	W	27		4.5	1.4	83	STRAIT OF GIBRALTAR. MG 4.3 (MDD). Felt (III) along the coost of Spain.
	25	20	12	35.0*	51.131	N	176.008	W	33	N	4.2	0.7	9	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.5 (PMR).
	25	20	23	05.7*	30.244	N	137.981	E	502	*	4.4	0.8	20	SOUTH OF HONSHU, JAPAN
a	25	20	52	52.7	11.414	S	164.173	E	33	N	5.3 4.8	1.0	77	SANTA CRUZ ISLANDS REGION
	25	23	29	26.8*	51.174	N	175.996	W	33	N	4.7	0.9	14	ANDREANOF ISLANDS, ALEUTIAN IS.
	25	23	33	10.0*	5.442	S	152.568	E	53	?	4.4 4.4	1.4	12	NEW BRITAIN REGION
a	25	23	42	35.1	50.947	N	157.697	E	85	D	5.6	0.8	308	KURIL ISLANDS
	25	23	55	20.4%	14.816	N	60.885	W	33	N		1.2	8	WINDWARD ISLANDS. ML 3.2 (FDF).
o	26	00	31	33.9	55.502	N	166.612	E	33	N	4.9 4.8	1.2	165	KOMANDORSKY ISLANDS REGION
	26	01	09	51.6*	7.372	S	127.944	E	125	?	5.1	1.3	13	BANDA SEA
	26	01	16	30.0	55.644	N	166.280	E	33	N	4.7	0.9	49	KOMANDORSKY ISLANDS REGION
	26	01	40	33.3?	34.93	N	139.22	E	10	G		0.3	4	NEAR S. COAST OF HONSHU, JAPAN
	26	02	55	43.9*	51.152	N	176.105	W	33	N	4.9	1.0	9	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.7 (PMR).
	26	03	00	56.6*	51.108	N	175.958	W	33	N	4.9	1.1	8	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.4 (PMR).
	26	03	26	55.9&	36.558	N	121.175	W	2		4.9 4.0		90	CENTRAL CALIFORNIA. <BRK>. ML 4.7 (BRK). Ma=2.5*10**16 Nm (BRK). Felt (III) at Gonzales, Mass Landing and San Lucas. Small landslide reparted along Panache Raad 8 miles east af Paicines.
	26	03	48	36.0&	36.573	N	121.182	W	4				32	CENTRAL CALIFORNIA. <BRK>. ML 3.5 (BRK).
	26	04	35	37.2?	41.82	N	19.65	E	10	G		0.8	7	ALBANIA. MD 2.8 (TTG).
	26	05	01	42.4?	41.30	N	20.15	E	10	G		0.7	6	ALBANIA. ML 2.8 (TTG).
	26	05	53	40.1	9.549	N	93.819	E	33	N	5.0	1.1	18	NICOBAR ISLANDS REGION
	26	06	30	46.0*	34.915	N	139.176	E	10	G		0.4	5	NEAR S. COAST OF HONSHU, JAPAN
	26	07	09	32.5*	6.410	S	152.745	E	33	N	4.4	1.5	10	NEW BRITAIN REGION
	26	07	41	38.3*	48.009	N	7.091	E	10	G		0.1	5	FRANCE. MD 1.8 (STR).
	26	10	55	31.6%	18.247	N	67.152	W	33	N		0.5	6	MONA PASSAGE
	26	11	11	30.1	0.840	S	120.780	E	56	*	4.7	1.2	35	MINAHASSA PENINSULA
a	26	11	39	40.5	8.200	N	123.391	E	49	*	5.1 4.6	1.0	56	MINDANAO, PHILIPPINE ISLANDS
	26	11	45	18.9?	62.07	N	4.10	E	10	G		0.8	6	NORWEGIAN SEA. MD 2.5 (BER).
	26	13	33	05.3?	35.65	N	69.43	E	33	N	4.6	0.3	5	HINDU KUSH REGION
	26	13	49	43.6	6.644	S	152.745	E	33		4.9 4.3	1.1	43	NEW BRITAIN REGION
	26	14	11	18.3?	48.96	S	124.92	E	10	G	4.8 4.2	1.4	11	SOUTH OF AUSTRALIA
	26	14	43	13.6	50.176	N	6.618	E	10	G		0.7	6	GERMANY
	26	14	46	36.5*	39.587	N	118.488	E	33	N		1.2	5	NORTHEASTERN CHINA. ML 3.2 (BJI).
	26	15	28	13.6*	30.976	S	69.403	W	33	N		1.5	13	CHILE-ARGENTINA BORDER REGION
	26	15	29	53.9	44.090	N	10.892	E	10	G		0.6	6	NORTHERN ITALY. MD 2.9 (FIR).
a	26	16	13	17.0	34.106	N	141.334	E	40	D	5.1 4.4	1.2	115	OFF EAST COAST OF HONSHU, JAPAN. Felt at Fukushima.
	26	16	35	35.9	24.047	S	179.779	E	539	*	5.1	1.1	50	SOUTH OF FIJI ISLANDS
	26	17	38	02.2*	20.673	S	179.177	W	674	*	4.9	0.9	20	FIJI ISLANDS REGION
	26	18	02	08.2	9.201	S	156.641	E	33	N	4.5	0.7	8	SOLOMON ISLANDS
	26	18	06	55.3*	9.107	S	156.333	E	33	N	4.7	1.6	8	SOLOMON ISLANDS
	26	18	56	15.5	34.935	N	139.180	E	10	G		0.1	6	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajira.
	26	19	04	30.1*	15.071	N	119.855	E	47	*	5.0 5.6	1.0	23	LUZON, PHILIPPINE ISLANDS. Felt (III) at Cubi Paint.
a	26	19	12	07.0	6.509	S	152.660	E	31	D	5.4 5.3	1.0	159	NEW BRITAIN REGION
	26	19	31	09.6*	36.539	N	69.312	E	33	N	4.0	1.7	5	HINDU KUSH REGION
	26	19	46	59.8	6.588	S	152.737	E	44	*	4.6	0.9	20	NEW BRITAIN REGION
	26	19	55	52.8?	12.04	S	114.90	E	10	G	4.0	1.1	6	NORTHWEST OF AUSTRALIA
	26	20	11	54.1	6.627	S	152.847	E	33	N	4.4	1.2	13	NEW BRITAIN REGION
	26	20	27	02.1	34.937	N	139.171	E	14		4.2	0.8	11	NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) at Ajiro; (II JMA) at Tateyama and an Oshima; (I JMA) at Yokahama and Mishima.
	26	20	51	38.6	34.924	N	139.167	E	10	G		0.2	7	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajira; (I JMA) at Tateyama and an Oshima.
	26	21	30	47.2	13.957	N	93.236	E	35		5.1 4.3	0.9	130	ANDAMAN ISLANDS REGION
	26	21	33	35.2?	51.99	N	17.24	E	10	G		0.5	9	POLAND. ML 3.1 (GRF).
	26	22	43	24.9%	40.649	N	29.758	E	10	G		0.4	8	TURKEY
	26	22	55	20.0%	35.196	N	118.651	E	33	N		1.1	5	EASTERN CHINA. ML 3.8 (BJI).
	26	23	14	51.3?	42.65	S	85.18	W	10	G	4.8	0.9	21	WEST CHILE RISE
	26	23	18	30.6*	33.250	S	71.163	W	78			1.2	20	NEAR COAST OF CENTRAL CHILE. Felt (IV) at the Santiago area; (III) at San Felipe, Valparaiso, San Antonia and Lujan; (II) at Petorco and La Ligua.
	26	23	59	25.4*	28.201	N	57.357	E	33	N	4.6	1.1	17	SOUTHERN IRAN
	27	02	10	31.1	44.646	N	114.279	W	5	G		0.5	12	WESTERN IDAHO. ML 3.1 (BUT).
	27	03	00	55.8%	44.076	N	10.894	E	10	G		0.2	5	NORTHERN ITALY
	27	03	07	12.3?	6.31	S	134.01	E	33	N	4.0	1.3	5	AROE ISLANDS REGION
	27	03	36	08.6*	11.893	S	167.643	E	355	*	4.4	1.0	18	SANTA CRUZ ISLANDS
	27	03	46	25.7*	6.405	S	152.806	E	33	N	4.2	1.3	7	NEW BRITAIN REGION
	27	04	32	39.4?	38.88	N	29.76	E	10	G		1.4	5	TURKEY
	27	04	36	12.6	19.360	S	177.460	W	373		4.9	0.9	94	FIJI ISLANDS REGION
	27	05	00	07.5	35.184	N	24.699	E	44		4.6	1.1	140	CRETE
	27	05	25	17.6?	11.87	S	122.34	E	33	N	4.3	1.0	7	SOUTH OF TIMOR
	27	07	07	42.9	31.605	N	78.627	E	33	N	4.4 3.7	1.0	12	TIBET-INDIA BORDER REGION
	27	08	53	17.7%	16.459	N	61.221	W	10	G		0.5	5	LEEWARD ISLANDS. ML 2.7 (FDF).
	27	09	12	05.0*	32.351	S	69.624	W	97	?		1.2	13	MENDOZA PROVINCE, ARGENTINA
	27	09	30	10.8*	42.914	N	17.569	E	10	G		1.1	7	ADRIATIC SEA. ML 2.6 (TTG).
	27	10	00	22.2?	7.71	S	129.82	E	145	?	4.0	1.4	8	BANDA SEA
	27	10	52	23.6%	44.072	N	10.896	E	10	G		0.1	5	NORTHERN ITALY
	27	11	54	15.7*	36.781	N	72.319	E	33	N	4.5	1.4	17	AFGHANISTAN-USSR BORDER REGION
a	27	12	17	18.5	3.247	S	68.029	E	10	G	5.1 4.8	1.1	69	CHAGOS ARCHIPELAGO REGION
	27	12	29	37.3*	6.536	S	155.908	E	195		4.6	1.0	23	SOLOMON ISLANDS. Felt (III) at Panguna, Bougainville.
	27	12	32	48.8*	61.827	N	150.563	W	113	*	4.1	1.2	9	SOUTHERN ALASKA
	27	12	38	25.3?	44.27	N	7.26	E	10	G		0.2	5	NORTHERN ITALY. MD 1.5 (STR).
	27	12	44	51.2	24.206	S	179.945	E	515	*	4.8	1.0	70	SOUTH OF FIJI ISLANDS
	27	13	06	25.8&	12.030	N	86.500	W	34	G			6	NICARAGUA. <HDC>.
	27	13	12	09.9?	58.15	N	6.42	E	10	G		0.3	6	SOUTHERN NORWAY. MD 2.3 (BER).
	27	13	25	35.4%	15.119	N	60.589	W	33	N		0.3	9	LEEWARD ISLANDS. ML 2.8 (FDF).
	27	13	30	45.0*	22.310	S	171.024	E	79	*	5.0	1.4	31	LOYALTY ISLANDS REGION
	27	13	51	42.2*	6.599	S	146.420	E	33	N		0.8	5	EAST PAPUA NEW GUINEA REGION
	27	14	36	20.8	6.866	S	155.387	E	102		3.6	1.1	15	SOLOMON ISLANDS
	27	15	46	20.3*	37.489	N	31.012	E	10	G		1.0	5	TURKEY
	27	16	45	49.6*	6.388	S	153.113	E	33	N	4.2	1.3	7	NEW BRITAIN REGION
	27	16	50	11.2*	51.281	N	176.376	W	33	N	4.6	1.5	17	ANDREANOF ISLANDS, ALEUTIAN IS.

	27	16	57	40.4&	36.568	N	121.180	W	3			31	CENTRAL CALIFORNIA. <BRK>. ML 3.6 (BRK), 3.4 (PAS). Felt at Bear Valley and Beaver Valley Fire Stations. Also felt at Chalame Peak and Call Mountain Laakouts.
a	27	16	58	17.0	18.606	N	145.598	E	217 D 5.4	1.0	182	MARIANA ISLANDS. mb 6.0 (BRK).
	27	17	08	19.5%	39.476	N	16.923	E	10 G	0.3	5	SOUTHERN ITALY
a	27	20	18	02.3	14.022	N	93.003	W	28 5.2 4.5	0.9	175	NEAR COAST OF CHIAPAS, MEXICO
	27	20	35	49.5%	47.224	N	0.968	W	10 G	1.1	9	FRANCE. ML 2.8 (LDG).
	27	21	26	07.5?	40.87	S	16.79	W	10 G 5.0	1.4	17	SOUTH ATLANTIC RIDGE
	27	21	26	37.8	44.033	N	10.863	E	10 G	1.1	21	NORTHERN ITALY. ML 3.0 (LDG).
a	27	21	27	07.2	14.050	N	93.019	W	27 5.4 4.6	0.9	209	NEAR COAST OF CHIAPAS, MEXICO
	27	21	52	04.1	44.570	N	9.596	E	10 G	0.8	19	NORTHERN ITALY. ML 2.8 (LDG).
a	27	21	55	09.6	13.112	S	167.051	E	172 G 5.9	1.1	341	VANUATU ISLANDS. mb 6.4 (PAS). Depth fram braadband displacement seismagrams.
a	27	22	44	34.9	13.150	S	166.967	E	177 D 5.8	1.0	198	VANUATU ISLANDS
	27	23	45	30.1	64.301	N	161.391	W	10 G 4.3	0.6	16	ALASKA. ML 4.8 (PMR).
	27	23	48	10.6	8.074	S	155.527	E	48 * 4.9	1.3	41	SOLOMON ISLANDS
	28	00	10	33.6*	34.928	N	139.197	E	10 G	0.1	5	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajira, Tateyama and an Oshima.
	28	00	35	36.2?	44.01	N	7.61	E	10 G	0.3	8	NORTHERN ITALY. ML 2.2 (LDG).
	28	02	27	37.2*	52.595	N	174.781	W	181 ? 4.5	0.8	20	ANDREANOF ISLANDS, ALEUTIAN IS.
a	28	03	58	17.9	51.005	N	156.847	E	117 D 5.0	0.9	222	KAMCHATKA. Felt (IV) at Severa-Kurilsk, Kuril Islands.
	28	04	04	56.2	51.246	N	176.142	W	33 N 4.8	1.1	65	ANDREANOF ISLANDS, ALEUTIAN IS.
	28	09	47	53.5?	44.20	N	7.51	E	10 G	0.3	5	NORTHERN ITALY. MD 1.7 (STR).
	28	11	20	24.2	36.407	N	117.998	W	5 G	0.6	61	CALIFORNIA-NEVADA BORDER REGION. ML 4.4 (BRK), 3.7 (PAS). Felt (III) at Lone Pine and Olancho, Califarnia.
	28	11	33	14.5	36.407	N	117.996	W	5 G	0.4	55	CALIFORNIA-NEVADA BORDER REGION. ML 3.9 (BRK), 3.3 (PAS).
	28	11	36	29.5*	6.524	S	152.834	E	33 N	1.0	5	NEW BRITAIN REGION
	28	11	56	26.4	34.917	N	139.185	E	10 G	0.4	7	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajira; (I JMA) at Tateyama, Mishima and an Oshima.
	28	12	12	25.6	42.553	N	24.078	E	10 G	1.5	8	BULGARIA
	28	12	12	46.1?	63.62	N	146.50	W	33 N	0.1	4	CENTRAL ALASKA. ML 3.4 (PMR).
	28	13	12	55.5&	12.650	N	87.710	W	36 G		6	NEAR COAST OF NICARAGUA. <HDC>.
a	28	13	15	31.0	18.258	N	146.465	E	73 * 4.9	0.7	71	MARIANA ISLANDS
	28	13	29	16.9%	39.576	N	29.350	E	10 G	1.0	5	TURKEY
	28	14	38	09.3*	2.785	N	97.322	E	33 N 4.7	1.0	19	NORTHERN SUMATERA
	28	15	36	17.2?	32.66	S	72.40	W	10 G	0.6	7	OFF COAST OF CENTRAL CHILE
	28	16	14	45.6*	15.078	N	86.513	W	43 ? 4.2	1.3	21	HONDURAS
	28	16	26	50.3%	37.332	N	15.898	E	10 G	0.4	6	SICILY
	28	16	38	23.3	13.237	S	167.109	E	227 ? 4.7	0.9	19	VANUATU ISLANDS
a	28	17	12	33.3	22.062	S	65.716	W	279 G 5.8	0.9	337	JUJUY PROVINCE, ARGENTINA. mb 5.9 (BRK). Felt (III) in the Antafagasta, Chile area. Depth fram braadband displacement seismagrams.
	28	17	22	27.2?	19.71	N	94.55	E	79 ? 4.1	0.2	5	BURMA
	28	17	37	53.4	35.361	N	4.824	W	117 *	0.7	16	STRAIT OF GIBRALTAR. MG 3.7 (MDD).
	28	21	38	41.0?	62.11	N	153.42	W	33 N	0.0	4	CENTRAL ALASKA. ML 3.0 (PMR).
	28	22	22	31.3	41.925	N	142.399	E	69 4.8	1.0	57	HOKKAIDO, JAPAN REGION. Felt (II JMA) at Urakawa. Felt (I JMA) at Hachinahe, Hanshu.
	28	22	28	34.2*	34.904	N	139.182	E	10 G	0.7	5	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajira.
a	28	22	36	25.0	29.386	N	142.113	E	40 D 5.0 4.8	1.0	95	SOUTH OF HONSHU, JAPAN
	28	22	40	22.4%	16.260	N	61.092	W	33 N	0.5	5	LEEWARD ISLANDS. ML 2.0 (FDF).
	29	00	47	02.1	41.085	N	19.951	E	10 G	0.6	12	ALBANIA. ML 2.9 (TTG).
	29	01	32	24.3*	41.168	N	20.084	E	10 G	0.6	7	ALBANIA. ML 2.6 (TTG).
	29	01	37	53.4%	46.203	N	2.613	E	10 G	0.4	6	FRANCE. ML 1.8 (LDG).
	29	01	47	05.7&	36.560	N	121.183	W	5		21	CENTRAL CALIFORNIA. <BRK>. ML 3.1 (BRK).
	29	02	03	24.5	45.058	N	13.451	W	10 G 4.6 4.4	1.2	100	NORTH ATLANTIC OCEAN. Felt (III) along the coast af northwestern Spain.
	29	02	47	11.8*	55.931	N	149.348	W	33 N	1.1	13	GULF OF ALASKA. ML 3.6 (PMR).
	29	02	48	25.8	13.313	N	90.047	W	40 4.5 4.2	1.1	90	NEAR COAST OF GUATEMALA
	29	03	37	20.6*	4.470	N	97.797	E	33 * 4.6	1.2	15	NORTHERN SUMATERA
	29	04	16	58.0?	8.02	N	102.52	W	10 G 4.3	1.1	9	OFF COAST OF MEXICO
	29	04	17	13.3%	37.674	N	15.227	E	10 G	0.5	6	SICILY
	29	04	59	47.2&	46.854	N	121.914	W	12 3.9		102	WASHINGTON. <SEA>. CL 4.1 (SEA). Felt (V) at Ashford, Carbanado and Paradise; (IV) at Elbe, Langmire, Mineral, Packwood and Randle; (III) at Eatonville, Enumclaw, Kapowsin, Narth Bend and Orting.
	29	05	27	17.9?	14.31	S	176.06	W	33 N	1.3	7	FIJI ISLANDS REGION
	29	06	00	08.7&	46.851	N	121.918	W	11		102	WASHINGTON. <SEA>. CL 3.8 (SEA). Felt at Longmire, Packwood, Eatonville and Randle.
	29	07	13	10.9	34.943	N	139.156	E	10 G	0.4	8	NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) at Ajiro, (II JMA) an Oshima and (I JMA) at Mishimo.
	29	08	15	07.5*	7.023	S	130.701	E	148 *	0.6	7	TANIMBAR ISLANDS REGION
	29	08	30	59.1?	46.39	N	9.88	E	10 G	1.1	6	SWITZERLAND
	29	08	31	38.4	7.241	S	153.599	E	46 5.0 4.1	1.1	41	NEW BRITAIN REGION
	29	09	30	55.5	46.466	N	10.187	E	10 G	1.0	40	NORTHERN ITALY. ML 3.3 (LDG), MD 3.1 (TRI).
	29	09	54	54.2?	34.93	N	139.23	E	10 G	0.0	4	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) an Oshima.
	29	09	56	40.6?	34.92	N	139.22	E	10 G	0.3	4	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) on Oshima.
	29	09	59	31.5	33.611	N	132.276	E	43 D 4.9 4.2	0.9	84	SHIKOKU, JAPAN. Felt (II JMA) at Matsuyama, (I JMA) at Oita, Kyushu and (I JMA) at Hirashima, Honshu.
	29	10	37	04.7?	9.83	S	113.66	E	33 N 4.4	1.4	7	SOUTH OF JAVA
	29	11	18	35.2%	42.789	N	12.582	E	10 G	0.8	7	CENTRAL ITALY
	29	12	07	57.9*	22.769	S	70.651	W	10 G 4.8	1.2	25	NEAR COAST OF NORTHERN CHILE
	29	13	37	48.0	40.738	N	23.046	E	10 G	1.2	16	GREECE. ML 3.7 (ATH). Felt at Thessalaniki.
	29	14	04	59.2%	60.703	N	5.634	E	0 G	0.5	7	SOUTHERN NORWAY. MD 2.4 (BER). Prabable explasion.
	29	14	10	58.7	5.934	S	80.875	W	33 N 5.4	1.0	74	NEAR COAST OF NORTHERN PERU
	29	14	18	31.6?	18.72	S	169.10	E	229 * 3.8	1.1	9	VANUATU ISLANDS
	29	14	58	36.9&	36.292	N	120.395	W	8		11	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
	29	16	05	04.8?	7.51	S	128.68	E	161 ? 3.9	1.3	11	BANDA SEA
	29	18	16	33.3	20.125	S	133.603	E	5 G	0.7	9	NORTHERN TERRITORY, AUSTRALIA. ML 4.2 (ISO).
	29	19	08	59.7	0.300	N	126.257	E	45 * 4.7	1.4	24	MOLUCCA PASSAGE
	29	21	16	06.9	42.268	N	16.713	E	10 G	1.1	9	ADRIATIC SEA. ML 2.9 (TTG).
	29	21	36	27.4?	8.88	S	152.03	E	33 N 3.6	1.0	5	DENTRECASTEAUX ISLANDS REGION
	29	22	46	17.6	34.896	N	139.195	E	10 G	0.4	6	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajira

														and on Oshima.
	30	00	00	13.1%	61.761	N	7.440	E	10	G			1.2	7 SOUTHERN NORWAY. MD 2.4 (BER).
	30	00	28	05.3	42.246	N	19.905	E	9		3.5		1.0	30 YUGOSLAVIA. MD 3.6 (TTG), 3.5 (ATH).
	30	00	49	57.6?	15.23	S	173.44	W	33	N	4.9		1.1	9 TONGA ISLANDS
	30	01	33	40.9	13.812	N	124.526	E	33	N	4.8	4.3	1.0	55 LUZON, PHILIPPINE ISLANDS
	30	02	28	10.9?	7.33	S	127.94	E	120	?	4.4		0.9	8 BANDA SEA
	30	02	41	41.6%	61.135	N	5.385	E	10	G			1.0	5 SOUTHERN NORWAY. MD 2.3 (BER).
a	30	02	45	13.6*	24.373	S	115.876	W	10	G	5.2	5.1	1.1	74 EASTER ISLAND CORDILLERA. Ms 5.1 (BRK).
	30	03	23	09.0?	6.15	S	146.89	E	174	*	4.3		0.7	9 EAST PAPUA NEW GUINEA REGION
	30	03	23	20.4*	9.212	N	126.503	E	69	?	4.7		1.3	23 MINDANAO, PHILIPPINE ISLANDS
	30	04	14	56.3*	18.856	S	123.782	E	10	G			1.6	5 WESTERN AUSTRALIA
	30	04	35	07.2*	32.044	S	68.394	W	33	N			1.3	10 MENDOZA PROVINCE, ARGENTINA
	30	05	07	51.1*	5.455	N	82.937	W	10	G	4.4		1.2	9 SOUTH OF PANAMA
a	30	05	52	06.9	31.321	N	41.109	W	20	D	5.0	4.6	0.7	92 NORTH ATLANTIC RIDGE
	30	06	03	53.5%	42.655	N	19.048	E	10	G			0.6	5 YUGOSLAVIA. ML 2.4 (TTG).
	30	06	46	48.0?	36.43	N	28.32	E	10	G			1.5	5 DODECANESE ISLANDS
	30	06	54	40.2*	22.542	S	70.201	W	35	D	4.5		1.4	11 NEAR COAST OF NORTHERN CHILE
	30	07	02	37.9?	3.54	N	97.39	E	103	?	3.9		1.0	5 NORTHERN SUMATERA
	30	07	14	36.3%	42.211	N	20.013	E	10	G			0.8	7 YUGOSLAVIA. ML 2.6 (TTG).
	30	08	07	01.8	50.646	N	129.697	W	10	G	4.5		0.9	69 VANCOUVER ISLAND REGION
	30	08	17	18.5*	17.405	S	174.324	W	172	?	4.8		1.0	40 TONGA ISLANDS
	30	08	55	22.2	44.018	N	114.634	W	5	G			1.1	16 WESTERN IDAHO. ML 3.3 (NEIS).
	30	09	45	18.0%	39.651	N	29.511	E	10	G			1.1	6 TURKEY
	30	10	05	59.1	18.932	N	104.634	W	33	N	4.7		1.2	56 NEAR COAST OF JALISCO, MEXICO
	30	10	44	33.4%	39.591	N	118.805	E	33	N			1.6	5 NORTHEASTERN CHINA. ML 3.8 (BJI).
	30	11	19	39.0*	21.306	S	174.205	W	79	?	4.9		1.3	42 TONGA ISLANDS
	30	12	00	53.7	62.438	N	149.698	W	33	N			0.4	7 CENTRAL ALASKA. ML 3.2 (PMR).
	30	12	38	25.1?	10.90	S	166.86	E	148	?	4.2		1.0	6 SANTA CRUZ ISLANDS
	30	12	46	38.4&	11.416	N	86.003	W	149	G				4 NEAR COAST OF NICARAGUA. <HDC>.
	30	15	38	39.9?	43.13	N	0.92	E	0	G			1.6	5 FRANCE. ML 2.9 (LDG). Prabable explasion.
	30	16	12	02.7*	5.082	N	125.176	E	33	N	4.6		1.2	18 MINDANAO, PHILIPPINE ISLANDS
a	30	16	26	23.9	33.119	S	83.820	E	10	G	5.3	5.1	0.9	49 AMSTERDAM-NATURALISTE RIDGE
	30	17	13	25.5%	33.460	S	70.963	W	33	N			1.0	8 CHILE-ARGENTINA BORDER REGION
	30	18	41	46.6	9.115	N	83.927	W	33	N			0.6	10 COSTA RICA. MD 3.8 (HDC). Felt at San Jose and Heredia.
	30	18	54	38.1	34.712	N	139.187	E	10	G	4.3		0.7	10 NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) an Oshima and (I JMA) at Ajiro and Tateyama.
	30	20	07	21.8?	17.77	N	86.91	W	10	G	4.2		1.3	11 CARIBBEAN SEA
a	30	21	07	21.1	44.771	N	149.890	E	61	G	6.3		0.8	461 KURIL ISLANDS. Ms 5.1 (BRK). Felt (I JMA) at Kushira and Urakawa, Hakkaida. Depth fram braadband displacement seismograms.
	30	22	01	22.6	60.033	N	153.588	W	160		4.0		0.8	26 SOUTHERN ALASKA. Felt (III) ot Homer.
	30	22	39	13.2*	34.928	N	139.177	E	10	G			0.3	5 NEAR S. COAST OF HONSHU, JAPAN
	30	22	42	01.8?	34.93	N	139.17	E	10	G			0.0	4 NEAR S. COAST OF HONSHU, JAPAN
	30	22	43	37.4?	34.95	N	139.21	E	10	G			0.0	4 NEAR S. COAST OF HONSHU, JAPAN
	30	22	54	54.1*	34.914	N	139.155	E	10	G			0.0	5 NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro.
	30	23	08	03.5*	34.929	N	139.177	E	10	G			0.3	5 NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro.
	30	23	09	01.8	34.928	N	139.185	E	10	G			0.3	6 NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro.
	30	23	15	16.1	34.904	N	139.201	E	10	G	4.7		1.4	37 NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) at Ajiro and (II JMA) at Yokohama, Mishima, Tateyama and an Oshima.
	30	23	40	41.2	34.814	N	139.331	E	10	G	5.2	4.5	1.0	157 NEAR S. COAST OF HONSHU, JAPAN. Felt (IV JMA) at Ajira; (III JMA) at Tateyama, Yokahama, Mishima and an Oshimo; (II JMA) at Takya; (I JMA) at Chashi, Maebashi, Kafu, Kumogaya, Kawaguchi-ka and Shizuako. Felt (IV) at Yakosuko.
	30	23	47	10.0	34.917	N	139.148	E	10	G			0.1	7 NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro and on Oshima.
	30	23	51	16.2?	34.95	N	139.18	E	10	G			0.2	4 NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) an Oshimo.
	31	00	25	37.6	34.910	N	139.133	E	10	G			0.1	6 NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) on Oshima ond (I JMA) at Ajira.
	31	01	05	56.9	34.903	N	139.143	E	10	G			0.3	7 NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) on Oshimo and (I JMA) at Ajiro and Yokahama.
	31	01	09	34.6*	36.225	N	30.510	E	10	G			0.8	6 TURKEY
o	31	01	28	53.0	6.389	S	153.091	E	33		5.2	5.0	1.0	111 NEW BRITAIN REGION
	31	02	24	19.2	34.916	N	139.147	E	10	G			0.3	6 NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) an Oshima and at Ajiro; (I JMA) ot Mishima.
	31	02	45	42.0?	37.70	N	70.84	E	33	N	4.3		1.3	9 AFGHANISTAN-USSR BORDER REGION
	31	02	49	36.8	34.895	N	139.133	E	10	G			0.2	8 NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) an Oshima and (II JMA) ot Ajiro.
	31	03	01	34.8?	34.85	N	139.07	E	10	G			1.3	4 NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) on Oshima.
	31	03	11	33.0	34.909	N	139.151	E	10	G			0.2	6 NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajiro ond (I JMA) an Oshima.
	31	03	17	36.9	34.952	N	139.192	E	10	G			0.7	8 NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajira ond an Oshimo; (I JMA) ot Mishima ond Tateyama.
	31	03	42	38.4	34.904	N	139.184	E	10	G	4.3		1.1	25 NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) at Ajiro and an Oshima; (II JMA) at Tateyama ond Yokohama; (I JMA) at Takya and Mishima.
	31	03	45	09.7	6.586	S	153.067	E	28	*	4.7	4.1	1.1	33 NEW BRITAIN REGION
	31	04	28	20.6	34.916	N	139.153	E	10	G			0.2	7 NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) on Oshima and (I JMA) at Ajira and Tateyama.
	31	04	31	23.7	34.898	N	139.136	E	10	G	4.7		1.4	19 NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) at Ajira and an Oshima; (II JMA) at Tateyama and Yokahama; (I JMA) at Mishima.
	31	04	48	20.9	34.897	N	139.184	E	10	G			0.5	6 NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) an Oshima and at Ajira.
	31	05	17	15.5?	34.93	N	139.16	E	10	G			0.5	4 NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) on Oshima and (I JMA) at Ajira.
	31	05	43	55.6	34.921	N	139.143	E	10	G			0.4	8 NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) an Oshima and (I JMA) at Ajiro.
	31	05	46	59.2	34.910	N	139.154	E	10	G			0.4	7 NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajiro and an Oshima; (I JMA) at Tateyama.
	31	05	54	34.0	34.934	N	139.129	E	10	G	4.2		0.5	11 NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) at Ajira

														and an Oshima; (II JMA) at Yokahama; (I JMA) at Tateyama and Mishima.
	31	06	13	02.6?	51.66	N	16.92	E	10	G			0.4	9 POLAND. ML 3.1 (GRF).
	31	06	43	37.9	6.493	S	153.007	E	21		4.7	3.8	0.9	16 NEW BRITAIN REGION
	31	06	44	51.8?	34.92	N	139.19	E	10	G			1.1	4 NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) an O and at Ajiro.
	31	06	45	21.2*	18.027	S	178.570	W	586		4.8		0.9	22 FIJI ISLANDS REGION
	31	06	47	02.4*	34.924	N	139.176	E	10	G			0.3	5 NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro.
	31	06	56	15.4*	34.883	N	139.159	E	10	G			0.4	5 NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro and Mishima.
	31	07	01	21.2	34.937	N	139.178	E	10	G			0.5	6 NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) an Oshima and at Ajiro.
	31	07	18	15.9*	34.951	N	139.201	E	10	G			0.1	5 NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro.
	31	07	26	16.2	34.915	N	139.170	E	10	G			0.5	6 NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajiro and an Oshima; (I JMA) at Mishima.
	31	07	45	43.2*	34.908	N	139.173	E	10	G			0.3	5 NEAR S. COAST OF HONSHU, JAPAN
	31	07	57	45.6	34.914	N	139.138	E	10	G			0.4	6 NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro and on Oshima.
	31	08	09	56.0	34.917	N	139.164	E	10	G			0.2	7 NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro, Tateyama and on Oshima.
	31	08	36	00.3?	51.22	N	175.93	W	33	N	4.4		1.3	8 ANDREANOF ISLANDS, ALEUTIAN IS.
	31	09	05	23.3*	34.957	N	139.193	E	10	G			0.2	5 NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro and Mishima.
	31	09	08	01.9*	62.096	N	1.854	E	10	G			0.9	14 NORWEGIAN SEA. MD 2.8 (BER).
	31	09	14	36.4	34.937	N	139.163	E	10	G			0.4	6 NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) Ajiro and (I JMA) on Oshima.
	31	09	19	49.7*	40.470	N	19.742	E	10	G			1.3	5 ALBANIA. MD 3.2 (ATH).
	31	09	22	33.9?	34.93	N	139.20	E	10	G			0.7	4 NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajiro.
	31	09	29	37.3*	39.228	N	27.304	E	10	G			0.6	6 TURKEY
	31	09	32	25.6	39.185	N	27.462	E	10	G			0.9	13 TURKEY
	31	10	24	04.2*	19.985	N	122.039	E	10	G	4.3		1.4	19 PHILIPPINE ISLANDS REGION
	31	10	26	03.6&	36.178	N	120.267	W	9					26 CENTRAL CALIFORNIA. <BRK>. ML 2.7 (BRK), 3.1 (PAS). Felt at Caalinga.
	31	10	37	26.0?	34.94	N	139.17	E	10	G			0.0	4 NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) on Oshima.
	31	10	57	27.3*	34.928	N	139.245	E	10	G			0.6	5 NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) an Oshima.
	31	11	34	32.6*	34.930	N	139.178	E	10	G			0.3	5 NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro and an Oshima.
	31	11	55	08.8	80.119	N	1.876	W	10	G	4.0		0.6	13 NORTH OF SVALBARD
	31	11	59	20.9	20.065	N	147.326	E	33	N	4.7		0.8	34 MARIANA ISLANDS REGION
	31	12	01	21.2?	15.47	N	60.33	W	10	G			0.8	6 LEEWARD ISLANDS. ML 3.3 (FDF).
	31	12	25	40.3	34.898	N	139.121	E	12				0.4	9 NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) at Ajiro, (II JMA) an Oshima and (I JMA) at Tateyama.
	31	12	48	06.9?	7.19	S	134.04	E	33	N	4.6		0.9	7 AROE ISLANDS REGION
a	31	12	50	07.7	22.212	S	171.082	E	56	G	5.8	6.3	1.0	317 LOYALTY ISLANDS REGION. Ms 6.3 (BRK). Felt at Naum New Caledonia. Depth from broadbond displacement seismagrams.
	31	13	17	27.7	34.916	N	139.120	E	10	G			0.3	7 NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Tateyama and an Oshima.
	31	13	26	21.9	34.922	N	139.173	E	10	G			0.2	7 NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) an Oshima and (I JMA) at Ajiro.
	31	14	01	13.3	34.950	N	139.208	E	19		4.5		1.1	22 NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) an Oshima and (I JMA) at Mishima, Yo kohama and Tateyama.
	31	14	04	33.0&	18.924	N	155.207	W	17		4.5			64 HAWAII. <HVO-P>. MD 4.6 (HVO).
	31	14	50	46.4&	18.935	N	155.190	W	17		4.4			47 HAWAII. <HVO-P>. MD 4.4 (HVO).
a	31	15	22	48.7	31.891	S	57.448	E	10	G	5.8	5.9	1.1	255 ATLANTIC-INDIAN RISE
	31	15	24	29.5*	6.640	S	152.886	E	33	N	4.0		1.3	6 NEW BRITAIN REGION
	31	16	02	51.4*	34.941	N	139.180	E	10	G			0.5	5 NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) an Oshima and (I JMA) at Tateyama.
	31	16	10	18.9	34.960	N	139.175	E	7		4.6		1.4	33 NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) an Oshima and at Yokohama; (I JMA) at Takyo and Tateyama.
	31	16	24	52.7*	34.907	N	139.239	E	10	G			0.7	5 NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) an Oshima and (I JMA) at Tateyama.
	31	17	04	30.3*	34.830	N	139.230	E	27	*			0.4	6 NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) an Oshima and (I JMA) at Tateyama.
	31	17	13	33.7*	34.925	N	139.186	E	10	G			0.4	5 NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) an Oshima.
	31	17	26	35.8?	34.93	N	139.18	E	10	G			0.1	4 NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) an Oshima.
	31	18	12	17.0	34.921	N	139.214	E	10	G			0.5	6 NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) an Oshima.
	31	18	17	24.1	34.926	N	139.158	E	10	G			0.3	6 NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) an Oshima and (I JMA) at Tateyama.
	31	18	18	49.5*	34.915	N	139.195	E	10	G			0.2	5 NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) on Oshima and at Kofu.
	31	18	24	20.8	34.840	N	139.207	E	18		4.6		1.3	26 NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) on Oshima and (I JMA) at Tateyama, Takyo and Yokohama.
	31	18	26	24.1%	45.003	N	6.162	E	10	G			0.2	6 FRANCE. ML 2.3 (LDG).
	31	19	25	55.8	3.083	N	126.754	E	33	N	4.7		1.4	12 TALAUD ISLANDS
	31	19	31	30.0*	34.937	N	139.192	E	10	G			0.4	5 NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) on Oshima.
	31	20	00	48.5	44.942	N	9.340	E	10	G			1.0	20 NORTHERN ITALY. ML 2.6 (LDG).
	31	20	24	58.8*	34.923	N	139.180	E	10	G			0.3	5 NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) an Oshima.
	31	20	25	17.4?	3.29	N	127.00	E	33	N	4.4		0.6	6 TALAUD ISLANDS
	31	20	46	13.6	34.902	N	139.117	E	10	G			0.4	7 NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) an Oshima and (I JMA) at Tokya and Tateyama.
	31	20	48	44.8?	34.94	N	139.20	E	10	G			0.1	4 NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) an O
a	31	20	57	15.8	51.255	N	176.154	W	33	N	5.0	4.6	1.0	142 ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.9 (PMR). Felt on Adak.
	31	21	06	18.1	51.263	N	176.140	W	33	N	4.9	4.7	0.9	115 ANDREANOF ISLANDS, ALEUTIAN IS.
	31	21	20	10.8	34.941	N	139.172	E	10	G			0.9	11 NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) an Oshima and (I JMA) at Tateyama.
	31	21	24	12.1*	34.919	N	139.145	E	10	G			0.6	5 NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) an Oshima and (I JMA) at Tokyo.

31	22 17 32.6?	34.94	N	139.19	E	10 G	0.2	4	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) on Oshimo.
31	22 33 29.8	36.556	N	71.088	E	80 * 4.5	0.9	36	AFGHANISTAN-USSR BORDER REGION
31	22 33 55.0*	34.838	N	139.150	E	18 *	0.4	6	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) on Oshima.
31	22 43 13.3%	45.188	N	0.899	E	10 G	1.1	8	FRANCE. ML 2.3 (LDG).
31	22 54 59.6*	34.908	N	139.141	E	10 G	0.2	5	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) on Oshimo.
31	23 12 50.6	34.871	N	139.137	E	10 G	0.6	9	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Tateyomo.
31	23 35 45.2*	36.304	N	29.314	E	10 G	0.4	5	TURKEY

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 07 00.95 16.234S 177.714W 33km
5.4mb (17 obs.) 5.2Msz (14 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 13S, 25C
Centroid Location:
Origin Time 02:07: 7.2 1.0
Lat 16.08S 0.08 Lon 177.84W 0.06
Dep 15.0 FIX Half-duration 2.6
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	3.95	21	103
N	-0.32	67	306
P	-3.62	8	196

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

	Strike=	Dip=	Slip=
NP1:	242	69	10
NP2:	148	81	159

01 02 55 32.76 16.247S 177.629W 32km
5.5mb (15 obs.) 5.5Msz (16 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 29C
Centroid Locotion:
Origin Time 02:55:38.9 0.7
Lot 15.99S 0.05 Lon 177.56W 0.04
Dep 15.0 BDY Holf-durotion 3.5
Principol Axes:
Scole 10**17 Nm

	Vol=	Plg=	Azm=
T	8.85	9	104
N	-0.46	78	326
P	-8.39	8	195

Best Double Couple:Mo=8.6*10**17

	Strike=	Dip=	Slip=
NP1:	240	78	1
NP2:	149	89	168

01 12 48 07.45 52.931N 166.771W 33km
5.0mb (40 obs.) 4.9Msz (8 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 9S, 15C
Centroid Locotion:
Origin Time 12:48:10.2 0.5
Lot 52.98N FIX;Lon 166.72W FIX
Dep 15.0 FIX Holf-durotion 1.9
Principol Axes:
Scole 10**16 Nm

	Vol=	Plg=	Azm=
T	9.23	65	350
N	2.52	15	224
P	-11.75	19	129

Best Double Couple:Mo=1.0*10**17

	Strike=	Dip=	Slip=
NP1:	195	29	58
NP2:	51	66	107

02 00 22 40.51 8.411S 156.290E 49km
5.5mb (15 obs.) 5.1Msz (6 obs.)
SOLOMON ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 8S, 22C
Centroid Location:
Origin Time 00:22:40.8 0.8
Lat 8.43S FIX;Lon 156.31E FIX
Dep 15.0 BDY Half-duration 1.8
Principol Axes:
Scale 10**17 Nm

	Vol=	Plg=	Azm=
T	1.71	28	152
N	-0.37	57	299
P	-1.33	15	54

Best Double Couple:Mo=1.5*10**17

	Strike=	Dip=	Slip=
NP1:	190	59	170
NP2:	285	81	32

02 10 01 28.85 14.278S 167.180E 143km
5.9mb (44 obs.)
VANUATU ISLANDS
FAULT PLANE SOLUTION: P-Waves

	Strike=	Dip=	Slip=
NP1:	183	50	120
NP2:	321	48	59

Principol Axes:

	Plg=	Azm=
T	67	160
P	1	252

Comment: The focol mechanism is moderotely well controlled ond corresponds to normal faulting with o moderate strike-slip component. The preferred foult plone is not determined.
RADIATED ENERGY
No. of sta: 9 Focal mech. M
Energy 2.7±0.7*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 138 No. of sto: 12
Principal Axes:
Scale 10**18 Nm

	Vol=	Plg=	Azm=
T	3.65	77	192
N	0.04	12	351
P	-3.69	5	82

Best Double Couple:Mo=3.7*10**18

	Strike=	Dip=	Slip=
NP1:	185	42	109
NP2:	341	51	74

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 31C
Centroid Location:
Origin Time 10:01:35.6 0.6
Lot 14.21S 0.06 Lon 167.12E 0.03
Dep 148.1 1.0 Holf-durotion 5.4
Principal Axes:
Scale 10**18 Nm

	Vol=	Plg=	Azm=
T	3.20	74	177
N	0.38	16	356
P	-3.58	0	86

Best Double Couple:Mo=3.4*10**18

	Strike=	Dip=	Slip=
NP1:	191	47	112
NP2:	341	47	68

02 17 32 39.00 18.731S 174.535W 116km
5.5mb (23 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 11S, 23C
Centroid Locotion:
Origin Time 17:32:45.0 1.0
Lot 18.82S 0.11 Lon 174.42W 0.06
Dep 124.3 2.8 Half-durotion 1.7
Principal Axes:
Scole 10**17 Nm

	Vol=	Plg=	Azm=
T	1.13	43	286
N	-0.15	14	182
P	-0.99	43	78

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

	Strike=	Dip=	Slip=
NP1:	92	14	0
NP2:	2	90	104

03 05 09 42.96 24.822S 179.380E 537km
5.5mb (44 obs.)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 9S, 13C
Centroid Locotion:
Origin Time 05:09:51.9 0.9
Lot 24.78S 0.08 Lon 179.06E 0.07
Dep 530.7 4.2 Holf-durotion 2.5
Principal Axes:
Scale 10**17 Nm

	Vol=	Plg=	Azm=
T	3.58	24	54
N	-0.31	48	174
P	-3.27	32	308

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

	Strike=	Dip=	Slip=
NP1:	94	48	-173
NP2:	359	85	-42

03 08 19 18.81 22.078N 94.251E 85km
5.2mb (56 obs.)
BURMA
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 8S, 14C
Centroid Location:
Origin Time 08:19:21.0 1.5
Lot 22.22N 0.14 Lon 94.36E 0.14
Dep 86.0 FIX Half-duration 1.4
Principol Axes:
Scole 10**16 Nm

	Val=	Plg=	Azm=
T	5.39	27	54
N	-1.87	4	146
P	-3.52	63	244

Best Double Couple:Mo=4.4*10**16

	Strike=	Dip=	Slip=
NP1:	133	18	-104
NP2:	327	72	-85

03 11 43 12.67 8.919N 137.896E 15km
5.9mb (50 obs.) 6.3Msz (26 obs.)
WEST CAROLINE ISLANDS
FAULT PLANE SOLUTION: P-Waves

	Strike=	Dip=	Slip=
NP1:	200	55	42
NP2:	83	57	137

Principal Axes:

	Plg=	Azm=
T	52	50
P	1	142

Comment: The focal mechanism is moderotely well controlled ond corresponds to strike-slip faulting with o lorge reverse component. The preferred fault plone is not determined.
RADIATED ENERGY
No. of sto: 7 Focol mech. C
Energy 1.3±0.3*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 22 No. of sto: 9
Principol Axes.
Scole 10**19 Nm

	Val=	Plg=	Azm=
T	0.97	75	190
N	0.06	15	19
P	-1.03	2	289

Best Double Couple:Mo=1.0*10**19

	Strike=	Dip=	Slip=
NP1:	3	45	68
NP2:	213	49	110

CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 10S, 26C M.W.: 8S, 19C
Centroid Locotion:
Origin Time 11:43:22.0 0.2
Lot 9.03N 0.02 Lon 137.63E 0.03
Dep 27.8 0.8 Holf-durotion 6.6
Principol Axes:
Scole 10**18 Nm

	Val=	Plg=	Azm=
T	5.72	78	158
N	0.49	5	41
P	-6.21	11	310

Best Double Couple:Mo=6.0*10**18

	Strike=	Dip=	Slip=
NP1:	33	35	80
NP2:	225	56	97

04 03 35 52.39 56.75 S 140.60 W 10km
5.3mb (3 obs.) 5.0Msz (1 obs.)
SOUTH PACIFIC CORDILLERA
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 11S, 26C
Centroid Locotion:
Origin Time 03:36: 1.1 0.4
Lot 56.90S 0.08 Lon 141.26W 0.06
Dep 15.0 FIX Half-duration 2.1
Principol Axes:
Scole 10**17 Nm

	Vol=	Plg=	Azm=
T	1.99	0	158
N	-0.04	90	180
P	-1.95	0	68

Best Double Couple:Mo=2.0*10**17

	Strike=	Dip=	Slip=
NP1:	203	90	180
NP2:	293	90	0

04 08 28 17.64 21.741S 179.395W 595km
5.3mb (40 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 20C
Centroid Location:
Origin Time 08:28:24.4 1.3
Lat 21.45S 0.12 Lon 179.52W 0.11
Dep 624.7 7.5 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	9.05	41	93
N	-0.37	23	204
P	-8.67	41	315

Best Double Couple:Mo=8.9*10**16
NP1:Strike=114 Dip=23 Slip= 180
NP2: 204 90 67

04 13 54 14.22 17.636S 71.718W 20km
5.8mb (52 obs.) 5.4Msz (9 obs.)
NEAR COAST OF PERU
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=220 Dip=58 Slip= 25
NP2: 116 69 145
Principal Axes:

	Plg=	Azm=
T	39	75
P	7	170

Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting with a large reverse component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 19 No. of sta: 7
Principal Axes:
Scale 10**18 Nm

	Val=	Plg=	Azm=
T	1.01	28	90
N	0.00	60	297
P	-1.01	12	187

Best Double Couple:Mo=1.0*10**18
NP1:Strike=232 Dip=62 Slip= 12
NP2: 136 79 151
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 36C
Centroid Location:
Origin Time 13:54:21.1 0.3
Lat 18.35S 0.04 Lon 71.72W 0.04
Dep 27.0 BDY Half-duration 2.9
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	4.97	41	119
N	0.81	42	336
P	-5.78	19	227

Best Double Couple:Mo=5.4*10**17
NP1:Strike=272 Dip=46 Slip= 19
NP2: 168 76 134

04 14 38 59.02 2.804N 128.209E 38km
5.5mb (20 obs.) 5.2Msz (6 obs.)
HALMAHERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 19C
Centroid Location:
Origin Time 14:38:58.1 0.8
Lat 2.98N 0.08 Lon 127.43E 0.12
Dep 57.0 FIX Half-duration 2.5
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	2.81	12	49
N	0.57	45	306
P	-3.38	42	150

Best Double Couple:Mo=3.1*10**17
NP1:Strike=180 Dip=51 Slip= -24
NP2: 286 71 -139

05 08 06 43.24 6.521N 125.703E 184km
5.4mb (34 obs.)
MINDANAO, PHILIPPINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 18C
Centroid Location:
Origin Time 08:06:45.6 0.7
Lat 6.64N 0.07 Lon 125.74E 0.08
Dep 179.1 2.9 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	8.72	73	192
N	-0.15	17	10
P	-8.57	1	100

Best Double Couple:Mo=8.6*10**16
NP1:Strike=207 Dip=47 Slip= 114
NP2: 353 48 67

05 20 32 07.20 5.964S 148.780E 53km
6.0mb (19 obs.) 6.8Msz (18 obs.)
NEW BRITAIN REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=112 Dip=52 Slip= 90
NP2: 292 38 90
Principal Axes:

	Plg=	Azm=
T	83	22
P	7	202

Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
RADIATED ENERGY
No. of sta: 9 Focal mech. M
Energy 4.1±1.1*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 49 No. of sta: 12
Principal Axes:
Scale 10**19 Nm

	Val=	Plg=	Azm=
T	1.57	84	92
N	-0.10	6	287
P	-1.47	2	197

Best Double Couple:Mo=1.5*10**19
NP1:Strike=281 Dip=44 Slip= 81
NP2: 113 47 98
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 28C M.W.: 9S, 25C
Centroid Location:
Origin Time 20:32:16.2 0.2
Lat 6.13S 0.01 Lon 148.91E 0.02
Dep 48.9 0.6 Half-duration 9.3
Principal Axes:
Scale 10**19 Nm

	Val=	Plg=	Azm=
T	1.41	82	42
N	0.14	5	270
P	-1.55	6	179

Best Double Couple:Mo=1.5*10**19
NP1:Strike=264 Dip=39 Slip= 82
NP2: 94 51 97

06 01 10 52.75 17.741S 178.844W 547km
5.6mb (43 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 25C
Centroid Location:
Origin Time 01:10:58.0 0.5
Lat 17.81S 0.07 Lon 178.90W 0.05
Dep 549.2 2.9 Half-duration 3.4
Principal Axes.
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	9.13	46	347
N	-1.37	43	151
P	-7.76	8	248

Best Double Couple:Mo=8.4*10**17
NP1:Strike= 16 Dip=53 Slip= 149
NP2: 126 66 42

06 01 48 42.59 6.076S 148.789E 67km
5.5mb (11 obs.)
NEW BRITAIN REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 95 Dip=60 Slip= 90
NP2: 275 30 90
Principal Axes:

	Plg=	Azm=
T	75	5
P	15	185

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.: 9S, 24C
Centroid Location:
Origin Time 01:48:46.8 1.1
Lat 6.38S 0.07 Lon 148.88E 0.10
Dep 56.1 6.4 Half-duration 2.3
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	2.34	77	351
N	0.53	2	89
P	-2.88	13	180

Best Double Couple:Mo=2.6*10**17
NP1:Strike=272 Dip=32 Slip= 94
NP2: 88 58 88

06 15 54 19.14 41.744N 144.199E 30km
5.9mb (63 obs.) 6.3Msz (25 obs.)
HOKKAIDO, JAPAN REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 18 Dip=82 Slip= 105
NP2: 135 17 29
Principal Axes:

	Plg=	Azm=
T	51	305
P	35	95

Comment: The focal mechanism is moderately well controlled and corresponds to reverse faulting with a small strike-slip component. The preferred fault plane is NP2.
RADIATED ENERGY
No. of sta: 12 Focal mech. M
Energy 2.3±0.5*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 27 No. of sta: 19
Principal Axes:
Scale 10**18 Nm

	Val=	Plg=	Azm=
T	2.86	69	265
N	-0.10	4	7
P	-2.76	21	99

Best Double Couple:Mo=2.8*10**18
NP1:Strike=197 Dip=24 Slip= 101
NP2: 5 66 85
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 31C M.W.: 7S, 15C
Centroid Location:
Origin Time 15:54:23.9 0.2
Lat 41.59N 0.02 Lon 144.64E 0.03
Dep 36.3 1.2 Half-duration 5.2
Principal Axes:
Scale 10**18 Nm

	Val=	Plg=	Azm=
T	2.51	62	276
N	-0.09	10	25
P	-2.42	26	120

Best Double Couple:Mo=2.5*10**18
NP1:Strike=232 Dip=21 Slip= 118
NP2: 22 71 80

06 16 55 21.09 41.722N 144.170E 34km
5.6mb (50 obs.) 5.7Msz (5 obs.)
HOKKAIDO, JAPAN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 21C
Centroid Location:
Origin Time 16:55:27.9 1.2
Lat 41.31N 0.13 Lon 145.06E 0.23
Dep 15.0 FIX Half-duration 2.5
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	2.68	64	45
N	-0.69	26	222
P	-1.99	1	312

Best Double Couple:Mo=2.3*10**17
NP1:Strike= 67 Dip=50 Slip= 126
NP2: 199 52 56

06 23 05 15.92 35.276S 15.654W 10km
5.3mb (34 obs.) 5.3Msz (7 obs.)
TRISTAN DA CUNHA REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 34C
Centroid Location:
Origin Time 23:05:23.3 0.3
Lat 35.10S 0.03 Lon 15.48W 0.04
Dep 15.0 FIX Half-duration 3.2
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	6.71	11	120
N	0.09	78	328
P	-6.80	6	211

Best Double Couple:Mo=6.8*10**17
NP1:Strike=256 Dip=78 Slip= 4
NP2: 166 86 168

07 02 09 03.56 6.043S 146.637E 46km
5.1mb (11 obs.) 4.9Msz (2 obs.)
EAST PAPUA NEW GUINEA REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 24C
Centroid Location:

Origin Time 02:09: 7.5 0.8
Lat 6.30S 0.06 Lon 146.52E 0.09
Dep 33.0 FIX Half-duration 1.6
Principal Axes:
Scale 10**17 Nm
T Val= 1.63 Plg=47 Azm= 74
N -0.07 20 321
P -1.56 36 215
Best Double Couple:Mo=1.6*10**17
NP1:Strike=248 Dip=21 Slip= 16
NP2: 143 84 110

08 13 12 52.13 3.001S 147.801E 33km
4.9mb (6 obs.) 4.9Msz (6 obs.)
BISMARCK SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 24C
Centroid Location:
Origin Time 13:12:52.4 0.7
Lat 3.09S 0.04 Lon 148.09E 0.06
Dep 15.0 FIX Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.10 Plg= 0 Azm=139
N 0.16 90 180
P -1.26 0 49
Best Double Couple:Mo=1.2*10**17
NP1:Strike=184 Dip=90 Slip= 180
NP2: 274 90 0

08 15 16 47.97 6.077S 148.795E 65km
5.0mb (5 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 27C
Centroid Location:
Origin Time 15:16:53.5 1.0
Lat 6.25S 0.05 Lon 148.65E 0.09
Dep 47.3 4.8 Half-durotion 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 6.44 Plg=78 Azm=315
N 0.84 9 96
P -7.28 8 187
Best Double Couple:Mo=6.9*10**16
NP1:Strike=288 Dip=38 Slip= 105
NP2: 89 53 78

08 16 35 35.74 6.290S 154.677E 74km
5.8mb (31 obs.)
SOLOMON ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 29C
Centroid Location:
Origin Time 16:35:39.1 0.2
Lat 6.29S 0.03 Lon 154.42E 0.03
Dep 59.5 2.2 Half-durotion 2.4
Principal Axes:
Scale 10**17 Nm
T Val= 2.59 Plg=86 Azm=347
N 0.23 4 140
P -2.81 2 230
Best Double Couple:Mo=2.7*10**17
NP1:Strike=324 Dip=43 Slip= 95
NP2: 136 47 85

09 03 40 07.22 4.988S 151.885E 104km
5.7mb (34 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 21C
Centroid Location:
Origin Time 03:40:11.5 0.9
Lat 5.08S 0.06 Lon 151.81E 0.09
Dep 105.2 5.7 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 9.15 Plg=51 Azm=301
N -0.85 14 194
P -8.30 36 94
Best Double Couple:Mo=8.7*10**16
NP1:Strike=134 Dip=16 Slip= 29
NP2: 16 82 104

09 15 10 57.97 29.843S 178.961W 262km
5.5mb (42 obs.)
KERMADEC ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 26C
Centroid Location:
Origin Time 15:11: 5.3 0.4
Lat 29.71S 0.04 Lon 179.02W 0.04
Dep 264.9 1.3 Half-duration 2.8
Principal Axes:
Scale 10**17 Nm
T Val= 3.70 Plg=36 Azm=254
N 1.97 28 141
P -5.67 41 23
Best Double Couple:Mo=4.7*10**17
NP1:Strike= 45 Dip=28 Slip= -6
NP2: 139 87 -118

10 02 42 55.05 12.965N 57.486E 10km
5.0mb (27 obs.) 4.1Msz (3 obs.)
ARABIAN SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 20C
Centroid Location:
Origin Time 02:43: 0.0 1.2
Lat 12.97N FIX;Lon 57.46E FIX
Dep 15.0 FIX Half-duration 1.3
Principal Axes:
Scale 10**16 Nm
T Val= 3.23 Plg=11 Azm= 51
N -0.76 8 319
P -2.46 76 194
Best Double Couple:Mo=2.8*10**16
NP1:Strike=151 Dip=35 Slip= -76
NP2: 314 57 -100

10 16 47 10.71 21.514S 114.057W 10km
5.3mb (11 obs.) 5.1Msz (4 obs.)
EASTER ISLAND CORDILLERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 25C
Centroid Location:
Origin Time 16:47:18.6 1.0
Lat 21.67S 0.10 Lon 114.11W 0.09
Dep 15.0 FIX Half-durotion 1.8
Principal Axes:
Scale 10**16 Nm
T Val= 6.65 Plg= 0 Azm=112
N -0.38 90 180
P -6.26 0 22
Best Double Couple:Mo=6.5*10**16
NP1:Strike=157 Dip=90 Slip= 180
NP2. 247 90 0

10 17 36 00.67 19.966S 168.763E 44km
5.0mb (5 obs.) 5.1Msz (9 obs.)
VANUATU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 25C
Centroid Locotion:
Origin Time 17:36: 6.0 0.4
Lot 20.16S 0.05 Lon 168.12E 0.04
Dep 15.0 FIX Half-duration 2.4
Principal Axes:
Scale 10**17 Nm
T Val= 2.74 Plg=71 Azm= 53
N 0.32 6 161
P -3.06 18 253
Best Double Couple:Mo=2.9*10**17
NP1:Strike=353 Dip=28 Slip= 103
NP2: 158 63 83

10 19 51 03.84 56.325S 26.418W 28km
5.4mb (7 obs.)
SOUTH SANDWICH ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 21C
Centroid Location:
Origin Time 19:51:11.3 0.8
Lat 56.20S 0.09 Lon 25.93W 0.17
Dep 34.4 7.1 Half-duration 1.4
Principal Axes:
Scale 10**16 Nm
T Val= 4.86 Plg=77 Azm=284
N 0.47 9 152
P -5.33 9 61
Best Double Couple:Mo=5.1*10**16
NP1:Strike=140 Dip=36 Slip= 75
NP2: 338 55 101

11 00 12 35.33 5.368N 126.612E 67km
5.9mb (68 obs.)
MINDANAO, PHILIPPINE ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 25 Dip=82 Slip= 39
NP2: 289 51 170
Principal Axes:
T Plg=33 Azm=254
P 20 151
Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting with a large reverse component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 65 No. of sta: 8
Principal Axes:
Scale 10**18 Nm
T Val= 1.20 Plg=24 Azm=252
N -0.14 53 18
P -1.06 26 149
Best Double Couple:Mo=1.1*10**18
NP1:Strike=291 Dip=53 Slip=-178
NP2: 200 89 -37
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 23C
Centroid Location:
Origin Time 00:12:38.1 0.4
Lat 5.17N 0.03 Lon 126.88E 0.05
Dep 25.2 3.1 Half-duration 3.4
Principal Axes:
Scale 10**17 Nm
T Val= 9.15 Plg=38 Azm=227
N 3.83 42 4
P -12.98 24 117
Best Double Couple:Mo=1.1*10**18
NP1:Strike=256 Dip=44 Slip= 167
NP2: 355 81 47

12 08 41 47.25 26.414N 141.813E 55km
5.2mb (28 obs.) 4.1Msz (1 obs.)
BONIN ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 14C
Centroid Location:
Origin Time 08:41:48.2 1.2
Lat 26.28N 0.12 Lon 141.71E 0.12
Dep 75.815.8 Half-duration 1.3
Principal Axes:
Scale 10**16 Nm
T Val= 3.33 Plg=69 Azm=245
N -0.36 3 343
P -2.96 21 74
Best Double Couple:Mo=3.1*10**16
NP1:Strike=171 Dip=24 Slip= 98
NP2: 342 66 86

12 09 55 26.68 31.314S 179.757E 423km
5.2mb (31 obs.)
KERMADEC ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 18C
Centroid Location:
Origin Time 09:55:55.1 2.8
Lat 9.28N 0.23 Lon 71.52W 0.20
Dep 15.0 FIX Half-durotion 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 8.47 Plg=32 Azm=294
N -1.28 11 197
P -7.19 55 90
Best Double Couple:Mo=7.8*10**16
NP1:Strike= 59 Dip=16 Slip= -47
NP2: 194 78 -101

12 17 00 08.62 6.802N 123.970E 52km
5.2mb (22 obs.) 4.7Msz (6 obs.)
MINDANAO, PHILIPPINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 7S, 18C
Centroid Location:
Origin Time 17:00: 8.2 0.4
Lat 6.69N 0.07 Lon 123.62E 0.09
Dep 37.5 4.0 Half-duration 2.2
Principal Axes:
Scale 10**17 Nm
T Val= 2.31 Plg=76 Azm=131
N 0.37 7 10
P -2.67 12 279
Best Double Couple:Mo=2.5*10**17
NP1:Strike=359 Dip=34 Slip= 77

NP2: 195 57 98

12 17 59 12.84 10.159N 62.488W 5km
5.2mb (47 obs.) 4.7Msz (4 obs.)
NEAR COAST OF VENEZUELA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 26C
Centroid Location:
Origin Time 17:59:25.1 1.2
Lat 11.04N 0.16 Lon 62.96W 0.15
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 8.38 Plg=19 Azm= 60
N 1.62 48 172
P -10.00 36 316
Best Double Couple:Mo=9.2*10**16
NP1:Strike=104 Dip=50 Slip=-166
NP2: 5 79 -41

13 17 29 34.93 41.875S 16.249W 10km
5.6mb (26 obs.) 5.1Msz (3 obs.)
SOUTH ATLANTIC RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 20C
Centroid Location:
Origin Time 17:29:35.6 1.7
Lat 41.95S 0.15 Lon 17.07W 0.19
Dep 15.0 FIX Half-duration 1.4
Principal Axes:
Scale 10**16 Nm
T Val= 4.21 Plg= 3 Azm= 61
N 1.00 19 153
P -5.20 70 322
Best Double Couple:Mo=4.7*10**16
NP1:Strike=132 Dip=45 Slip=-118
NP2: 349 51 -65

14 05 28 18.82 4.731S 130.595E 98km
5.1mb (18 obs.)
BANDA SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 19C
Centroid Location:
Origin Time 05:28:16.2 1.8
Lat 4.86S 0.10 Lon 130.78E 0.19
Dep 93.1 9.1 Half-duration 1.4
Principal Axes:
Scale 10**16 Nm
T Val= 3.42 Plg=87 Azm= 67
N -0.46 3 223
P -2.96 1 314
Best Double Couple:Mo=3.2*10**16
NP1:Strike= 47 Dip=44 Slip= 94
NP2: 221 46 86

15 02 00 28.27 16.169S 176.008W 370km
4.8mb (13 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 18C
Centroid Location:
Origin Time 02:00:31.5 1.3
Lat 16.33S 0.13 Lon 175.99W 0.12
Dep 362.9 5.4 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 7.74 Plg=17 Azm=327
N -0.60 71 118
P -7.14 9 234
Best Double Couple:Mo=7.4*10**16
NP1:Strike= 10 Dip=72 Slip= 174
NP2: 101 84 19

16 01 16 49.37 41.273S 88.513W 10km
5.1mb (14 obs.) 4.8Msz (3 obs.)
WEST CHILE RISE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 32C
Centroid Location:
Origin Time 01:16:53.3 0.3
Lat 41.45S 0.05 Lon 88.49W 0.08
Dep 15.0 FIX Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.75 Plg= 0 Azm=233
N -0.46 90 180
P -1.29 0 143

Best Double Couple:Mo=1.5*10**17
NP1:Strike=278 Dip=90 Slip= 180
NP2: 8 90 0

16 06 05 01.90 3.266N 126.953E 31km
5.4mb (25 obs.) 5.4Msz (12 obs.)
TALAUD ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 20C
Centroid Location:
Origin Time 06:05: 9.0 0.9
Lat 3.46N 0.10 Lon 126.65E 0.08
Dep 15.0 FIX Half-duration 2.1
Principal Axes:
Scale 10**17 Nm
T Val= 2.59 Plg=13 Azm=293
N 2.24 40 35
P -4.83 47 189
Best Double Couple:Mo=3.7*10**17
NP1:Strike=344 Dip=47 Slip=-152
NP2: 234 69 -46

16 08 34 17.70 7.342S 120.190E 424km
5.5mb (43 obs.)
FLORES SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 17C
Centroid Location:
Origin Time 08:34:27.1 2.0
Lat 6.70S 0.16 Lon 120.92E 0.07
Dep 453.8 3.4 Half-duration 2.7
Principal Axes:
Scale 10**17 Nm
T Val= 3.90 Plg= 4 Azm=169
N -0.99 3 260
P -2.91 85 30
Best Double Couple:Mo=3.4*10**17
NP1:Strike=256 Dip=41 Slip= -95
NP2: 83 49 -86

16 08 42 02.64 13.990N 51.659E 10km
5.5mb (50 obs.) 5.1Msz (6 obs.)
EASTERN GULF OF ADEN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 36C
Centroid Location:
Origin Time 08:42: 4.1 0.6
Lat 13.96N 0.07 Lon 51.52E 0.04
Dep 15.0 FIX Half-duration 2.6
Principal Axes:
Scale 10**17 Nm
T Val= 3.18 Plg=13 Azm=344
N -0.11 76 138
P -3.07 6 253
Best Double Couple:Mo=3.1*10**17
NP1:Strike= 28 Dip=76 Slip= 175
NP2. 119 85 14

16 16 55 00.51 27.285S 176.758W 30km
5.4mb (25 obs.) 5.3Msz (11 obs.)
KERMADEC ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 30C
Centroid Location:
Origin Time 16:55: 7.4 0.4
Lat 27.09S 0.04 Lan 176.70W 0.04
Dep 32.3 2.4 Half-duratian 2.6
Principal Axes:
Scale 10**17 Nm
T Val= 3.43 Plg=68 Azm=256
N 0.58 8 6
P -4.01 21 99
Best Double Couple:Mo=3.7*10**17
NP1:Strike=203 Dip=25 Slip= 109
NP2: 3 66 81

16 19 53 27.18 19.809N 121.916E 33km
5.3mb (48 obs.) 5.2Msz (7 obs.)
PHILIPPINE ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 22C
Centroid Location:
Origin Time 19:53:27.4 0.4
Lat 19.62N 0.05 Lan 121.49E 0.07
Dep 32.5 4.7 Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.66 Plg= 2 Azm= 44
N 0.13 82 150
P -1.79 8 314
Best Double Couple:Mo=1.7*10**17
NP1:Strike= 89 Dip=83 Slip=-176
NP2: 359 86 -7

16 20 46 53.36 52.056N 170.637W 33km
5.4mb (76 obs.) 4.6Msz (6 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 25C
Centroid Location:
Origin Time 20:46:52.2 1.0
Lat 51.96N 0.09 Lon 170.41W 0.14
Dep 35.0 6.5 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 8.40 Plg=60 Azm=299
N 0.20 12 51
P -8.60 27 147
Best Double Couple:Mo=8.5*10**16
NP1:Strike=265 Dip=21 Slip= 126
NP2: 47 73 77

16 21 15 13.68 13.923S 167.288E 177km
5.1mb (12 obs.)
VANUATU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 16C
Centroid Location:
Origin Time 21:15:16.5 2.5
Lat 14.63S 0.21 Lon 167.23E 0.23
Dep 178.2 8.0 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 6.82 Plg=33 Azm= 33
N -0.57 51 177
P -6.25 18 290
Best Double Couple:Mo=6.5*10**16
NP1:Strike= 67 Dip=53 Slip= 168
NP2: 164 80 38

17 03 23 05.06 20.090N 121.992E 9km
5.4mb (51 obs.) 5.6Msz (10 obs.)
PHILIPPINE ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 24C
Centroid Location:
Origin Time 03:23: 7.6 0.3
Lat 20.06N 0.04 Lon 121.91E 0.06
Dep 15.0 FIX Half-duration 3.2
Principal Axes:
Scale 10**17 Nm
T Val= 6.13 Plg= 8 Azm= 23
N 1.89 81 240
P -8.02 5 114
Best Double Couple:Mo=7.1*10**17
NP1:Strike=159 Dip=81 Slip= 2
NP2: 69 89 171

17 13 12 11.58 17.824S 167.856E 33km
5.1mb (10 obs.) 4.8Msz (3 obs.)
VANUATU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 21C
Centroid Location:
Origin Time 13:12:15.9 0.9
Lat 17.77S 0.08 Lon 167.54E 0.11
Dep 17.3 4.7 Half-duration 1.9
Principal Axes:
Scale 10**16 Nm
T Val= 12.00 Plg=55 Azm= 44
N 1.71 19 164
P -13.71 28 264
Best Double Couple:Mo=1.3*10**17
NP1:Strike= 33 Dip=24 Slip= 142
NP2: 158 75 70

17 15 05 58.27 37.052N 142.225E 32km
5.1mb (36 obs.) 5.4Msz (10 obs.)
OFF EAST COAST OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 29C
Centraid Location:
Origin Time 15:06: 1.5 0.5
Lat 36.92N 0.04 Lon 142.43E 0.05
Dep 33.9 2.9 Half-duration 2.2
Principal Axes:

Scale 10**17 Nm
T Val= 2.18 Plg=69 Azm=303
N 0.32 4 201
P -2.50 20 110
Best Double Couple:Mo=2.3*10**17
NP1:Strike=192 Dip=25 Slip= 79
NP2: 23 65 95

17 21 13 29.63 2.392N 128.285E 172km
5.0mb (15 obs.)
HALMAHERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 16C
Centroid Location:
Origin Time 21:13:28.0 1.1
Lat 2.43N 0.17 Lon 128.06E 0.21
Dep 130.8 6.1 Half-duration 1.4
Principal Axes:
Scale 10**16 Nm
T Val= 5.82 Plg=70 Azm=359
N 2.00 20 191
P -7.82 4 99
Best Double Couple:Mo=6.8*10**16
NP1:Strike=170 Dip=45 Slip= 62
NP2: 27 52 115

18 02 08 56.65 9.082S 156.412E 33km
5.2mb (11 obs.) 4.8Msz (4 obs.)
SOLOMON ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 21C
Centroid Location:
Origin Time 02:08:58.6 1.1
Lat 9.14S 0.09 Lon 156.45E 0.09
Dep 22.3 9.2 Half-duration 1.8
Principal Axes:
Scale 10**16 Nm
T Val= 10.11 Plg= 3 Azm=113
N 0.09 86 336
P -10.20 3 203
Best Double Couple:Mo=1.0*10**17
NP1:Strike=248 Dip=86 Slip= 0
NP2: 158 90 176

18 08 41 12.14 4.712S 103.225E 81km
5.4mb (18 obs.)
SOUTHERN SUMATERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 23C
Centroid Location:
Origin Time 08:41:16.2 0.8
Lat 5.08S 0.05 Lon 103.27E 0.07
Dep 61.0 5.2 Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Val= 7.90 Plg=68 Azm=343
N 2.23 14 109
P -10.13 17 204
Best Double Couple:Mo=9.0*10**16
NP1:Strike=314 Dip=30 Slip= 118
NP2: 102 64 75

18 13 22 11.23 54.601N 168.487E 23km
4.9mb (25 obs.) 5.4Msz (15 obs.)
KOMANDORSKY ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 36C
Centroid Location:
Origin Time 13:22:19.5 0.2
Lat 55.09N 0.03 Lon 168.20E 0.03
Dep 37.0 2.2 Half-duration 3.5
Principal Axes:
Scale 10**17 Nm
T Val= 10.30 Plg=16 Azm= 91
N -1.24 65 218
P -9.06 19 356
Best Double Couple:Mo=9.7*10**17
NP1:Strike=134 Dip=65 Slip=-178
NP2: 43 88 -25

19 01 00 19.69 19.576S 175.038W 137km
6.1mb (50 obs.)
TONGA ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 25 Dip=82 Slip= 39
NP2: 289 51 170
Principal Axes:
T Plg=33 Azm=254
P 20 151

Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting with a small strike-slip component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 142 No. of sta: 14
Principal Axes:
Scale 10**18 Nm
T Val= 4.03 Plg=60 Azm=298
N -0.05 24 78
P -3.98 17 176
Best Double Couple:Mo=4.0*10**18
NP1:Strike=298 Dip=35 Slip= 135
NP2: 67 66 64
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 28C M.W.: 11S, 24C
Centroid Location:
Origin Time 01:00:24.9 0.3
Lat 19.71S 0.02 Lon 174.39W 0.02
Dep 158.5 0.8 Half-duration 5.6
Principal Axes:
Scale 10**18 Nm
T Val= 3.92 Plg=58 Azm=330
N -0.39 12 220
P -3.53 29 123
Best Double Couple:Mo=3.7*10**18
NP1:Strike=182 Dip=19 Slip= 50
NP2: 43 75 103

19 02 58 15.65 45.254S 167.653E 135km
5.3mb (3 obs.)
SOUTH ISLAND, NEW ZEALAND
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 11C
Centroid Location:
Origin Time 02:58: 2.2 1.3
Lat 45.25S FIX;Lon 167.64E FIX
Dep 122.4 7.7 Half-duration 1.5
Principal Axes:
Scale 10**17 Nm
T Val= 2.08 Plg=55 Azm=176
N 0.38 18 293
P -2.46 29 33
Best Double Couple:Mo=2.3*10**17
NP1:Strike=162 Dip=23 Slip= 141
NP2: 289 76 72

19 10 54 41.73 50.506N 129.924W 10km
5.4mb (43 obs.) 5.4Msz (10 obs.)
VANCOUVER ISLAND REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 28C
Centroid Location:
Origin Time 10:54:51.5 0.7
Lat 50.96N 0.06 Lon 130.88W 0.09
Dep 15.0 FIX Half-duration 2.4
Principal Axes:
Scale 10**17 Nm
T Val= 3.26 Plg= 5 Azm=122
N -0.56 85 315
P -2.70 1 212
Best Double Couple:Mo=3.0*10**17
NP1:Strike=257 Dip=85 Slip= 3
NP2: 167 87 175

19 16 30 56.11 60.484S 26.890W 19km
5.4mb (8 obs.)
SOUTH SANDWICH ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 24C
Centroid Location:
Origin Time 16:31: 2.0 0.5
Lat 60.93S 0.07 Lon 26.05W 0.13
Dep 15.0 FIX Half-duration 2.0
Principal Axes:
Scale 10**16 Nm
T Val= 13.62 Plg=59 Azm=256
N 0.77 25 38
P -14.39 16 136
Best Double Couple:Mo=1.4*10**17
NP1:Strike=258 Dip=36 Slip= 136
NP2: 26 66 62

19 23 57 27.22 60.370S 26.690W 33km
5.2mb (4 obs.) 5.1Msz (1 obs.)
SOUTH SANDWICH ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 24C
Centroid Location:
Origin Time 23:57:29.2 0.5
Lat 59.57S 0.10 Lon 27.62W 0.16
Dep 15.0 FIX Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.62 Plg=36 Azm=306
N -0.20 13 207
P -1.42 51 100
Best Double Couple:Mo=1.5*10**17
NP1:Strike= 85 Dip=15 Slip= -30
NP2: 205 83 -103

20 05 13 47.11 1.720N 126.398E 69km
5.2mb (14 obs.)
MOLUCCA PASSAGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 19C
Centroid Location:
Origin Time 05:13:51.1 1.9
Lat 1.78N 0.15 Lon 126.27E 0.14
Dep 60.5 7.9 Half-duration 1.7
Principal Axes:
Scale 10**17 Nm
T Val= 1.07 Plg=61 Azm=198
N 0.25 28 26
P -1.31 3 294
Best Double Couple:Mo=1.2*10**17
NP1:Strike=358 Dip=49 Slip= 51
NP2: 229 54 126

20 06 20 51.47 37.028N 72.914E 41km
5.5mb (61 obs.) 5.0Msz (5 obs.)
TAJIK SSR
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 25C
Centroid Location:
Origin Time 06:20:54.3 0.4
Lat 36.91N 0.07 Lon 72.83E 0.05
Dep 15.0 BDY Half-duration 2.2
Principal Axes:
Scale 10**17 Nm
T Val= 2.38 Plg= 8 Azm= 51
N -0.55 3 142
P -1.82 82 256
Best Double Couple:Mo=2.1*10**17
NP1:Strike=137 Dip=38 Slip= -96
NP2: 324 53 -86

20 14 51 09.24 51.923N 170.116W 33km
4.9mb (26 obs.) 4.7Msz (8 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 29C
Centroid Location:
Origin Time 14:51:10.8 1.3
Lat 51.91N 0.15 Lon 170.07W 0.22
Dep 15.0 FIX Half-duration 1.4
Principal Axes:
Scale 10**16 Nm
T Val= 5.11 Plg=57 Azm=356
N -0.12 3 262
P -4.99 33 171
Best Double Couple:Mo=5.1*10**16
NP1:Strike=250 Dip=12 Slip= 77
NP2: 83 78 93

20 18 19 58.53 13.118N 143.850E 135km
5.1mb (19 obs.)
SOUTH OF MARIANA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 23C
Centroid Location:
Origin Time 18:19:58.0 1.3
Lat 12.94N 0.09 Lon 144.07E 0.17
Dep 131.1 4.7 Half-duration 1.4
Principal Axes:
Scale 10**16 Nm
T Val= 4.71 Plg=50 Azm=262
N -0.22 34 47
P -4.49 18 150
Best Double Couple:Mo=4.6*10**16
NP1:Strike=280 Dip=41 Slip= 150
NP2: 33 71 53

20 23 15 36.65 23.902N 121.598E 51km
5.8mb (86 obs.) 5.7Msz (15 obs.)

TAIWAN
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=338 Dip=74 Slip= 140
NP2: 81 52 21
Principal Axes:
T Plg=39 Azm=292
P 14 34
Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting with a large reverse component. The preferred fault plane is not determined.
RADIATED ENERGY
No. of sta: 5 Focal mech. C
Energy 9.9±4.4*10**12 Nm
MOMENT TENSOR SOLUTION
Dep 21 No. of sta: 9
Principal Axes:
Scale 10**17 Nm
T Val= 7.74 Plg=38 Azm=301
N 0.00 46 157
P -7.74 19 46
Best Double Couple:Mo=7.7*10**17
NP1:Strike= 90 Dip=48 Slip= 16
NP2: 349 78 137
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 29C
Centraid Lacation:
Origin Time 23:15:37.5 0.3
Lat 23.53N 0.04 Lan 121.35E 0.05
Dep 36.8 2.6 Half-duration 3.4
Principal Axes:
Scale 10**17 Nm
T Val= 7.15 Plg=67 Azm=255
N 1.98 16 30
P -9.13 15 125
Best Double Couple:Mo=8.1*10**17
NP1:Strike=237 Dip=33 Slip= 121
NP2: 21 62 71

21 11 44 08.20 22.944S 112.189W 10km
5.0mb (5 obs.) 4.7Msz (2 abs.)
EASTER ISLAND REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 25C
Centraid Lacation:
Origin Time 11:44:14.0 0.6
Lat 23.47S 0.07 Lon 111.88W 0.08
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 9.99 Plg=19 Azm= 38
N 0 79 10 131
P -10.78 68 247
Best Double Couple:Mo=1.0*10**17
NP1:Strike=111 Dip=27 Slip=-112
NP2: 316 65 -79

22 07 52 36.50 61.890N 149.702W 56km
4.8mb (30 obs.)
SOUTHERN ALASKA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 18C
Centraid Lacation:
Origin Time 07:52:41.6 1.7
Lat 62.00N 0.28 Lan 149.78W 0.33
Dep 97.8 9.4 Half-duration 1.2
Principal Axes:
Scale 10**16 Nm
T Val= 2.97 Plg= 7 Azm=312
N -1.33 24 45
P -1.64 65 208
Best Double Couple:Mo=2.3*10**16
NP1:Strike= 17 Dip=44 Slip=-127
NP2: 243 56 -60

22 21 16 04.07 39.862N 29.589W 10km
5.0mb (50 abs.) 5.3Msz (14 abs.)
AZORES ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 26C
Centroid Lacation:
Origin Time 21:16: 6.7 0.4
Lat 39.86N 0.07 Lan 29.77W 0.05
Dep 15.0 FIX Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.57 Plg= 3 Azm=290
N 0.32 8 21
P -1.90 81 178
Best Double Couple:Mo=1.7*10**17
NP1:Strike= 11 Dip=42 Slip=-103
NP2: 208 49 -79

23 04 10 15.63 51.205N 175.734W 26km
4.9mb (38 abs.) 4.5Msz (4 abs.)
ANDREANOF ISLANDS, ALEUTIAN IS.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 21C
Centroid Location:
Origin Time 04:10:22.1 1.1
Lat 51.89N 0.12 Lan 176.07W 0.20
Dep 15.0 FIX Half-duration 1.4
Principal Axes:
Scale 10**16 Nm
T Val= 7.83 Plg=56 Azm=339
N 0.28 1 247
P -8.11 34 156
Best Double Couple:Mo=8.0*10**16
NP1:Strike=241 Dip=11 Slip= 83
NP2: 67 79 91

23 07 38 09.73 48.706N 90.565E 19km
5.5mb (79 abs.) 5.8Msz (4 abs.)
MONGOLIA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 31C
Centraid Lacatian:
Origin Time 07:38:15.0 0.3
Lat 48.88N 0.03 Lon 91.04E 0.06
Dep 18.0 FIX Half-duration 3.4
Principal Axes:
Scale 10**17 Nm
T Val= 8.32 Plg=24 Azm=290
N 1.34 64 84
P -9.66 10 196
Best Double Couple:Mo=9.0*10**17
NP1:Strike=331 Dip=66 Slip= 170
NP2: 65 81 24

23 14 25 36.77 22.127S 174.900E 19km
5.9mb (30 abs.) 6.4Msz (11 abs.)
LOYALTY ISLANDS REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=303 Dip=85 Slip= -90
NP2: 123 5 -90
Principal Axes:
T Plg=40 Azm= 33
P 50 213
Comment: The focal mechanism is poorly controlled and corresponds to normal faulting. The preferred fault plane is not determined.
RADIATED ENERGY
No. of sta: 8 Focal mech. M
Energy 4.4±1.3*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 5 No. of sta: 10
Principal Axes:
Scale 10**18 Nm
T Val= 7.35 Plg=38 Azm= 79
N 0.27 35 316
P -7.62 33 199
Best Double Couple:Mo=7.5*10**18
NP1:Strike=232 Dip=35 Slip= 5
NP2: 138 87 125
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 31C
Centraid Lacatian:
Origin Time 14:25:42.9 0.4
Lat 22.27S 0.03 Lan 174.65E 0.03
Dep 29.3 2.2 Half-duration 6.0
Principal Axes:
Scale 10**18 Nm
T Val= 4.16 Plg=36 Azm= 86
N 0.43 43 314
P -4.59 26 197
Best Double Couple:Mo=4.4*10**18
NP1:Strike=235 Dip=43 Slip= 8
NP2: 139 84 133

23 15 17 08.18 6.526S 152.779E 17km
6.7mb (39 abs.) 6.7Msz (16 abs.)
NEW BRITAIN REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 97 Dip=62 Slip=-120
NP2: 328 40 -47
Principal Axes:
T Plg=12 Azm=208
P 61 321
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: 7 Focal mech. M
Energy 4.8±1.0*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 21 No. of sta: 7
Principal Axes:
Scale 10**19 Nm
T Val= 1.17 Plg= 5 Azm= 15
N -0.02 1 105
P -1.15 85 209
Best Double Couple:Mo=1.2*10**19
NP1:Strike=104 Dip=40 Slip= -92
NP2: 286 50 -88
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 33C M.W.: 5S, 15C
Centraid Lacation:
Origin Time 15:17:19.7 0.2
Lat 6.35S 0.02 Lan 152.75E 0.02
Dep 15.0 FIX Half-duratian 11.0
Principal Axes:
Scale 10**19 Nm
T Val= 3.01 Plg= 7 Azm= 31
N 0.47 23 124
P -3.48 66 286
Best Double Couple:Mo=3.2*10**19
NP1:Strike= 97 Dip=43 Slip=-125
NP2: 321 56 -61

24 05 04 38.61 11.548N 141.329E 32km
5.4mb (24 abs.) 4.5Msz (5 obs.)
WEST CAROLINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 26C
Centraid Lacation:
Origin Time 05:04:39.4 1.1
Lat 11.75N 0.10 Lan 141.80E 0.17
Dep 23.6 9.7 Half-duratian 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 9.81 Plg=50 Azm= 41
N -1.23 24 279
P -8.58 31 174
Best Double Couple:Mo=9.2*10**16
NP1:Strike=216 Dip=26 Slip= 24
NP2: 104 80 114

24 08 58 27.69 22.025S 174.908E 26km
5.4mb (23 abs.) 5.0Msz (8 abs.)
LOYALTY ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 21C
Centroid Lacatian:
Origin Time 08:58:31.9 0.9
Lat 22.23S 0.05 Lan 174.79E 0.08
Dep 19.4 3.6 Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.92 Plg= 9 Azm=108
N -0.63 37 204
P -1.29 52 6
Best Double Couple:Mo=1.6*10**17
NP1:Strike=163 Dip=49 Slip=-143
NP2: 46 63 -48

24 14 47 51.23 6.446S 152.937E 31km
5.2mb (18 abs.) 4.8Msz (2 abs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 20C
Centraid Lacation:
Origin Time 14:47:51.9 0.8
Lat 6.79S 0.08 Lon 153.01E 0.08
Dep 15.0 FIX Half-duratian 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 8.09 Plg=10 Azm= 28
N 1.36 18 121
P -9.45 70 270
Best Double Couple:Mo=8.8*10**16
NP1:Strike= 97 Dip=38 Slip=-119

NP2: 313 57 -69

24 22 22 50.90 18.260N 146.430E 87km
4.9mb (16 obs.)
MARIANA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 19C
Centraid Lacatian:
Origin Time 22:22:55.5 1.5
Lat 18.76N 0.12 Lan 146.35E 0.12
Dep 15.0 FIX Half-duration 1.3
Principal Axes:
Scale 10**16 Nm
T Val= 3.44 Plg=69 Azm=324
N 0.30 15 191
P -3.74 14 97
Best Double Cauple:Ma=3.6*10**16
NP1:Strike=167 Dip=33 Slip= 62
NP2: 19 61 107

25 06 46 06.69 6.081S 133.667E 28km
6.5mb (37 abs.) 6.7Msz (33 obs.)
AROE ISLANDS REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=274 Dip=57 Slip= -35
NP2: 25 61 -142
Principal Axes:
T Plg= 3 Azm=149
P 46 241
Camment: The facal mechanism is poarly contralled and carrespands to strike-slip faulting with a large normal campanent. The preferred fault plane is not determined.
RADIATED ENERGY
No. af sta: 8 Facal mech. M
Energy 6.6±1.5*10**15 Nm
MOMENT TENSOR SOLUTION
Dep 31 No. of sta: 7
Principal Axes:
Scale 10**19 Nm
T Val= 3.22 Plg= 2 Azm=148
N -0.07 26 57
P -3.14 64 241
Best Double Cauple:Ma=3.2*10**19
NP1:Strike=262 Dip=49 Slip= -54
NP2: 35 52 -124
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 30C M.W.: 9S, 25C
Centraid Location:
Origin Time 06:46:13.7 0.2
Lat 6.07S 0.02 Lan 133.53E 0.02
Dep 35.8 0.6 Half-duration 11.0
Principal Axes:
Scale 10**19 Nm
T Val= 2.74 Plg=10 Azm=294
N 0.19 4 204
P -2.93 79 93
Best Double Cauple:Ma=2.8*10**19
NP1:Strike= 29 Dip=35 Slip= -83
NP2: 201 55 -95

25 20 52 52.79 11.414S 164.173E 33km
5.3mb (13 obs.) 4.8Msz (7 obs.)
SANTA CRUZ ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 28C
Centraid Location:
Origin Time 20:52:53.8 0.6
Lat 11.46S FIX;Lan 164.18E FIX
Dep 15.0 FIX Half-duratian 1.9
Principal Axes:
Scale 10**17 Nm
T Val= 1.91 Plg=12 Azm=119
N -0.67 4 209
P -1.24 78 317
Best Double Cauple:Ma=1.6*10**17
NP1:Strike=204 Dip=33 Slip= -97
NP2: 32 57 -85

25 23 42 35.18 50.947N 157.697E 85km
5.6mb (62 obs.)
KURIL ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 23C
Centraid Lacatian:
Origin Time 23:42:40.6 0.9
Lat 51.22N 0.09 Lan 157.50E 0.13
Dep 99.3 6.7 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 8.80 Plg=37 Azm=311
N -2.30 24 201
P -6.50 44 86
Best Double Cauple:Ma=7.6*10**16
NP1:Strike=101 Dip=24 Slip= -9
NP2: 199 86 -114

26 00 31 33.99 55.502N 166.612E 33km
4.9mb (31 abs.) 4.8Msz (7 obs.)
KOMANDORSKY ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 27C
Centraid Location:
Origin Time 00:31:36.7 0.4
Lat 55.82N 0.05 Lan 165.98E 0.09
Dep 15.0 FIX Half-duration 1.8
Principal Axes:
Scale 10**16 Nm
T Val= 13.39 Plg=30 Azm= 74
N -2.70 59 239
P -10.69 6 340
Best Double Cauple:Ma=1.2*10**17
NP1:Strike=113 Dip=64 Slip= 162
NP2: 211 74 27

26 11 39 40.51 8.200N 123.391E 49km
5.1mb (11 obs.) 4.6Msz (6 obs.)
MINDANAO, PHILIPPINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 7S, 14C
Centraid Location:
Origin Time 11:39:41.2 1.6
Lat 7.84N 0.13 Lon 123.15E 0.18
Dep 53.6 9.6 Half-durotian 1.7
Principal Axes:
Scale 10**17 Nm
T Val= 1.10 Plg=13 Azm=353
N 0.08 77 187
P -1.19 3 84
Best Double Cauple:Mo=1.1*10**17
NP1:Strike=129 Dip=78 Slip= 7
NP2: 37 83 168

26 16 13 17.03 34.106N 141.334E 40km
5.1mb (35 obs.) 4.4Msz (5 abs.)
OFF EAST COAST OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 25C
Centroid Location:
Origin Time 16:13:19.4 0.8
Lat 33.86N 0.07 Lon 141.23E 0 08
Dep 44.7 5.7 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 8.37 Plg=16 Azm= 19
N 0.52 73 219
P -8.89 5 111
Best Double Cauple:Mo=8.6*10**16
NP1:Strike=156 Dip=75 Slip= 8
NP2: 64 83 165

26 19 12 07.06 6.509S 152.660E 31km
5.4mb (16 obs.) 5.3Msz (15 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 27C
Centroid Location:
Origin Time 19:12: 9.3 0.4
Lat 6.46S 0.04 Lon 152.62E 0.04
Dep 15.0 BDY Half-duration 2.3
Principal Axes:
Scale 10**17 Nm
T Val= 2.58 Plg= 9 Azm= 36
N 0.75 25 130
P -3.33 63 289
Best Double Cauple:Mo=3.0*10**17
NP1:Strike= 99 Dip=43 Slip=-129
NP2: 327 58 -60

27 12 17 18.58 3.247S 68.029E 10km
5.1mb (13 obs.) 4.8Msz (5 abs.)
CHAGOS ARCHIPELAGO REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 23C
Centraid Lacatian:
Origin Time 12:17:10.5 1.1
Lat 4.42S 0.07 Lon 67.89E 0.09
Dep 15.0 FIX Half-duratian 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 8.34 Plg= 0 Azm=206
N -1.43 72 296
P -6.91 18 116
Best Double Cauple:Mo=7.6*10**16
NP1:Strike=253 Dip=77 Slip=-167
NP2: 160 77 -13

27 16 58 17.04 18.606N 145.598E 217km
5.4mb (41 abs.)
MARIANA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 28C
Centraid Lacatian:
Origin Time 16:58:18.7 0.3
Lat 18.74N 0.03 Lan 145.74E 0.04
Dep 219.3 1.7 Half-duratian 2.4
Principal Axes:
Scale 10**17 Nm
T Val= 3.04 Plg=32 Azm=184
N -0.21 30 295
P -2.83 43 58
Best Double Cauple:Ma=2.9*10**17
NP1:Strike=219 Dip=31 Slip=-168
NP2: 119 84 -59

27 20 18 02.35 14.022N 93.003W 28km
5.2mb (40 obs.) 4.5Msz (2 obs.)
NEAR COAST OF CHIAPAS, MEXICO
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 24C
Centroid Location:
Origin Time 20:18: 0.5 0.9
Lat 13.94N 0.11 Lan 93.44W 0.12
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 5.71 Plg= 8 Azm= 17
N 1.93 1 287
P -7.64 82 188
Best Double Couple:Mo=6.7*10**16
NP1:Strike=108 Dip=37 Slip= -88
NP2: 286 53 -92

27 21 27 07.24 14.050N 93.019W 27km
5.4mb (54 obs.) 4.6Msz (1 abs.)
NEAR COAST OF CHIAPAS, MEXICO
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 7S, 16C
Centroid Location:
Origin Time 21:27: 7.1 1.2
Lat 13.98N FIX;Lon 92.96W FIX
Dep 15.0 FIX Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.20 Plg=19 Azm=185
N 0.65 8 278
P -1.85 69 31
Best Double Couple:Mo=1.5*10**17
NP1:Strike=261 Dip=27 Slip=-109
NP2: 102 65 -81

27 21 55 09.65 13.112S 167.051E 172km
5.9mb (41 obs.)
VANUATU ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=190 Dip=50 Slip= 85
NP2: 18 40 96
Principal Axes:
T Plg=84 Azm= 65
P 5 284
Camment: The facal mechanism is paarly cantrolled and corresponds ta reverse faulting with o small strike-slip component. The preferred fault plane is NP2.
RADIATED ENERGY
No. of sta: 8 Facal mech. C
Energy 4.9±1.3*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 183 No. of sta: 13
Principal Axes:
Scale 10**19 Nm
T Val= 1.30 Plg=74 Azm=176
N 0.01 16 354

P -1.31 1 84
Best Double Couple:Mo=1.3*10**19
NP1:Strike=190 Dip=47 Slip= 112
NP2: 339 48 68
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 38C M.W.: 10S, 27C
Centraid Locatian:
Origin Time 21:55:18.8 0.2
Lat 13.19S 0.02 Lon 166.74E 0.02
Dep 183.4 0.7 Half-duratian 8.8
Principal Axes:
Scale 10**19 Nm
T Val= 1.27 Plg=70 Azm=161
N 0.00 20 341
P -1.28 0 71
Best Double Couple:Mo=1.3*10**19
NP1:Strike=180 Dip=48 Slip= 118
NP2: 322 49 62

27 22 44 34.98 13.150S 166.967E 177km
5.8mb (26 obs.)
VANUATU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 17C
Centraid Locatian:
Origin Time 22:44:36.0 2.7
Lat 13.41S 0.20 Lan 167.20E 0.22
Dep 175.7 5.7 Half-duratian 3.5
Principal Axes:
Scale 10**17 Nm
T Val= 8.66 Plg=61 Azm=164
N 2.33 27 320
P -10.99 10 56
Best Double Couple:Ma=9.8*10**17
NP1:Strike=175 Dip=42 Slip= 133
NP2: 304 60 58

28 03 58 17.98 51.005N 156.847E 117km
5.0mb (59 obs.)
KAMCHATKA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 21C
Centraid Locatian:
Origin Time 03:58:18.3 1.4
Lat 50.88N 0.12 Lan 157.64E 0.19
Dep 137.2 4.7 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 13.35 Plg=13 Azm=250
N -2.66 49 356
P -10.69 38 150
Best Double Couple:Ma=1.2*10**17
NP1:Strike=297 Dip=53 Slip=-160
NP2: 195 74 -39

28 13 15 31.06 18.258N 146.465E 73km
4.9mb (13 obs.)
MARIANA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 20C
Centraid Location:
Origin Time 13:15:32.0 1.3
Lat 18.12N 0.11 Lon 146.77E 0.11
Dep 35.1 9.1 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 3.86 Plg=61 Azm=306
N 1.21 13 191
P -5.06 25 95
Best Double Couple:Mo=4.5*10**16
NP1:Strike=158 Dip=23 Slip= 55
NP2: 16 71 104

28 17 12 33.33 22.062S 65.716W 279km
5.8mb (72 obs.)
JUJUY PROVINCE, ARGENTINA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=155 Dip=84 Slip= 90
NP2: 335 6 90
Principal Axes:
T Plg=51 Azm= 65
P 39 245
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 278 No. of sta: 6
Principal Axes:
Scale 10**18 Nm
T Val= 2.66 Plg=45 Azm= 52
N -1.02 21 165
P -1.64 37 273
Best Double Couple:Ma=2.1*10**18
NP1:Strike= 63 Dip=22 Slip= 168
NP2: 164 86 68
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 38C
Centroid Locatian:
Origin Time 17:12:42.0 0.2
Lat 22.01S 0.02 Lan 65.61W 0.03
Dep 295.4 1.0 Half-duratian 4.6
Principal Axes:
Scale 10**18 Nm
T Val= 2.15 Plg=45 Azm= 78
N -0.39 35 305
P -1.76 25 196
Best Double Couple:Mo=2.0*10**18
NP1:Strike=238 Dip=37 Slip= 19
NP2: 133 79 125

28 22 36 25.06 29.386N 142.113E 40km
5.0mb (12 obs.) 4.8Msz (7 obs.)
SOUTH OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 23C
Centroid Locatian:
Origin Time 22:36:27.9 0.8
Lat 29.55N 0.08 Lan 142.09E 0.07
Dep 15.0 FIX Half-duration 1.8
Principal Axes:
Scale 10**17 Nm
T Val= 1.06 Plg=74 Azm=297
N 0.30 7 182
P -1.36 14 91
Best Double Couple:Mo=1.2*10**17
NP1:Strike=171 Dip=31 Slip= 77
NP2: 6 59 98

30 02 45 13.66 24.373S 115.876W 10km
5.2mb (12 obs.) 5.1Msz (8 obs.)
EASTER ISLAND CORDILLERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 31C
Centroid Location:
Origin Time 02:45:21.1 0.7
Lat 24.70S 0.05 Lan 116.19W 0.05
Dep 15.0 FIX Half-duration 2.4
Principal Axes:
Scale 10**17 Nm
T Val= 2.97 Plg= 0 Azm=101
N -0.92 90 180
P -2.05 0 11
Best Double Couple:Mo=2.5*10**17
NP1:Strike=146 Dip=90 Slip= 180
NP2: 236 90 0

30 05 52 06.96 31.321N 41.109W 20km
5.0mb (34 obs.) 4.6Msz (6 obs.)
NORTH ATLANTIC RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 18C
Centroid Location:
Origin Time 05:52:11.2 0.9
Lat 32.00N 0.16 Lon 40.55W 0.13
Dep 15.0 FIX Half-duration 1.3
Principal Axes:
Scale 10**16 Nm
T Val= 4.82 Plg=17 Azm=279
N 0.42 30 179
P -5.24 55 35
Best Double Couple:Ma=5.0*10**16
NP1:Strike= 45 Dip=38 Slip= -37
NP2: 166 68 -122

30 16 26 23.92 33.119S 83.820E 10km
5.3mb (12 obs.) 5.1Msz (1 obs.)
AMSTERDAM-NATURALISTE RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 23C
Centraid Location:
Origin Time 16:26:31.8 0.7
Lat 32.87S 0.10 Lan 83.78E 0.08
Dep 15.0 FIX Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 8.43 Plg=10 Azm=314
N -0.86 27 50
P -7.57 61 206
Best Double Couple:Mo=8.0*10**16
NP1:Strike= 15 Dip=42 Slip=-133
NP2: 246 61 -58

30 21 07 21.16 44.771N 149.890E 61km
6.3mb (84 obs.)
KURIL ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 69 Dip=83 Slip= 113
NP2: 175 24 17
Principal Axes:
T Plg=47 Azm= 3
P 34 140
Comment: The focal mechanism is moderately well controlled and corresponds to reverse faulting with a moderate strike-slip component. The preferred fault plane is NP2.
RADIATED ENERGY
No. of sta: 10 Focal mech. C
Energy 5.6±1.7*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 45 No. of sta: 11
Principal Axes:
Scale 10**17 Nm
T Val= 5.26 Plg=49 Azm= 9
N 0.01 34 228
P -5.27 20 124
Best Double Couple:Mo=5.3*10**17
NP1:Strike=172 Dip=39 Slip= 28
NP2: 60 72 126
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 31C
Centroid Location:
Origin Time 21:07:22.3 0.4
Lat 44.85N 0.03 Lon 150.18E 0.05
Dep 50.9 2.4 Half-duration 2.9
Principal Axes:
Scale 10**17 Nm
T Val= 4.78 Plg=49 Azm= 19
N 0.38 34 238
P -5.16 20 134
Best Double Couple:Mo=5.0*10**17
NP1:Strike=183 Dip=39 Slip= 28
NP2: 70 73 125

31 01 28 53.09 6.389S 153.091E 33km
5.2mb (11 obs.) 5.0Msz (4 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 28C
Centraid Location:
Origin Time 01:28:48.5 0.8
Lat 6.82S 0.07 Lon 153.42E 0.07
Dep 18.9 3.5 Half-duratian 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.63 Plg=21 Azm=161
N 0.79 20 62
P -2.42 60 294
Best Double Couple:Ma=2.0*10**17
NP1:Strike=282 Dip=29 Slip= -46
NP2: 55 69 -111

31 12 50 07.76 22.212S 171.082E 56km
5.8mb (42 obs.) 6.3Msz (17 obs.)
LOYALTY ISLANDS REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 95 Dip=77 Slip= 14
NP2: 2 76 167
Principal Axes:
T Plg=19 Azm=318
P 0 228
Comment: The focal mechanism is well controlled and corresponds to strike-slip faulting with a small reverse component. The preferred fault plane is not determined.
RADIATED ENERGY
No. of sta: 8 Focal mech. M
Energy 4.8±1.7*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 53 No. of sta: 14
Principal Axes:
Scale 10**18 Nm
T Val= 8.76 Plg=19 Azm=320

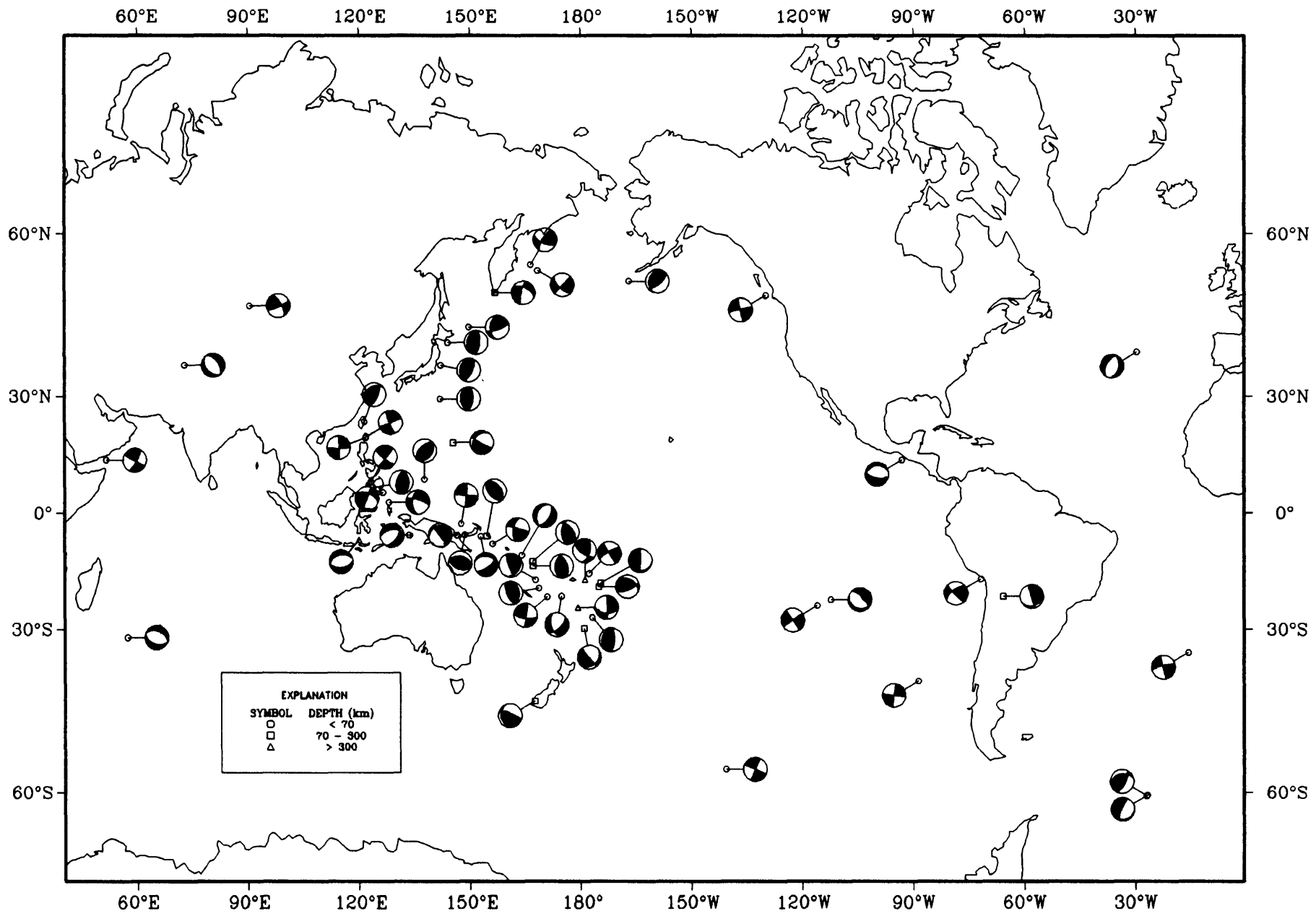
N 0.02 67 175
P -8.79 12 54
Best Double Couple:Mo=8.8*10**18
NP1:Strike= 98 Dip=68 Slip= 5
NP2: 6 85 157
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 34C M.W.: 12S, 33C
Centroid Location:
Origin Time 12:50:15.2 0.2
Lat 22.39S 0.01 Lon 170.85E 0.02
Dep 52.1 1.0 Half-duration 7.9
Principal Axes:
Scale 10**18 Nm
T Val= 9.80 Plg=21 Azm=316
N -3.20 67 156
P -6.60 7 49
Best Double Couple:Mo=8.2*10**18
NP1:Strike= 94 Dip=70 Slip= 10
NP2: 1 80 160

31 15 22 48.79 31.891S 57.448E 10km
5.8mb (38 obs.) 5.9Msz (16 obs.)
ATLANTIC-INDIAN RISE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 32C
Centroid Location:
Origin Time 15:22:56.0 1.8
Lat 31.72S 0.14 Lon 57.66E 0.10
Dep 15.0 FIX Half-duration 3.7
Principal Axes:
Scale 10**17 Nm
T Val= 8.20 Plg= 0 Azm=200
N -1.00 0 110
P -7.20 90 180
Best Double Couple:Mo=7.7*10**17
NP1:Strike=290 Dip=45 Slip= -90
NP2: 110 45 -90

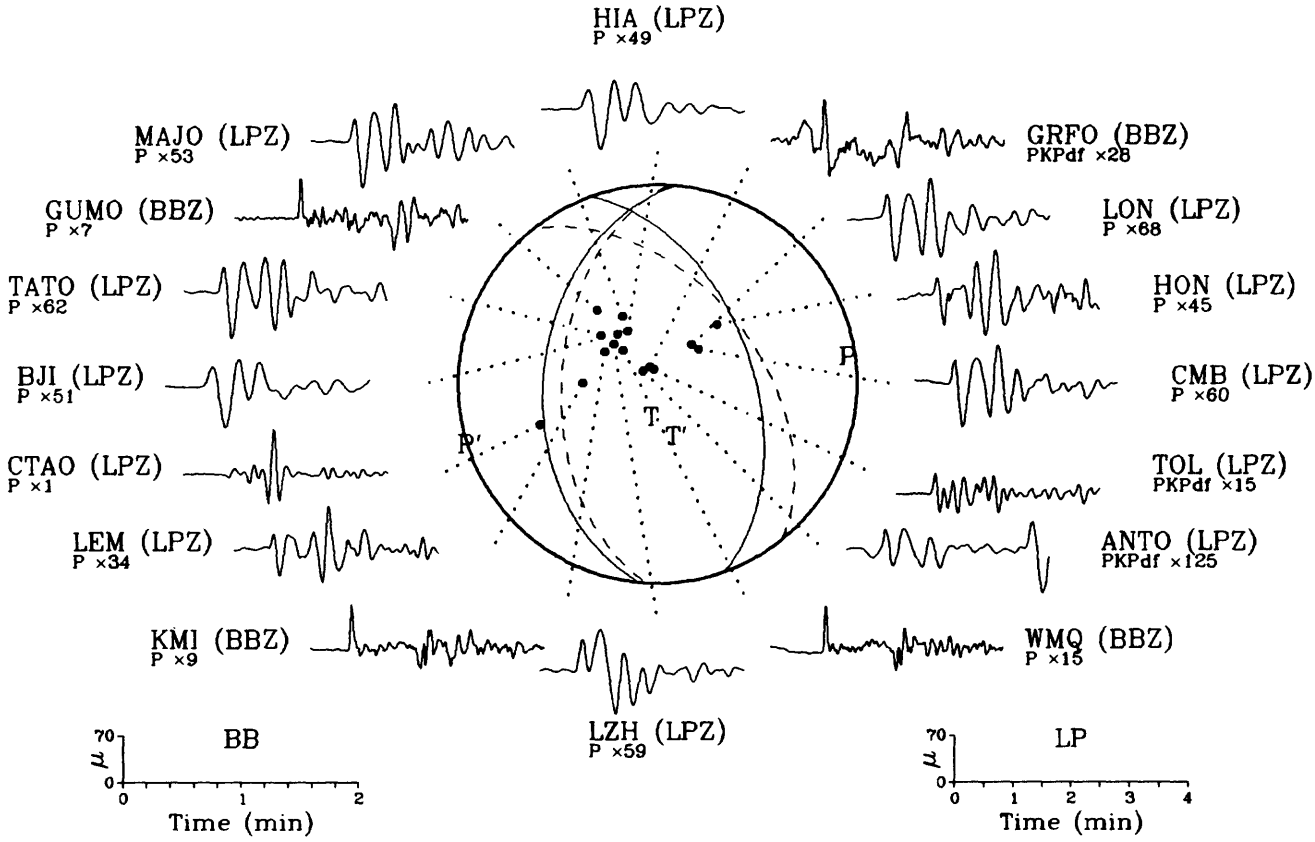
31 20 57 15.88 51.255N 176.154W 33km
5.0mb (36 obs.) 4.6Msz (5 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 32C
Centroid Location:
Origin Time 20:57:18.7 1.2
Lat 51.60N 0.11 Lon 175.75W 0.14
Dep 25.9 5.5 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 6.03 Plg=67 Azm=348
N 0.15 5 245
P -6.18 22 153
Best Double Couple:Mo=6.1*10**16
NP1:Strike=233 Dip=23 Slip= 77
NP2: 68 67 96

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

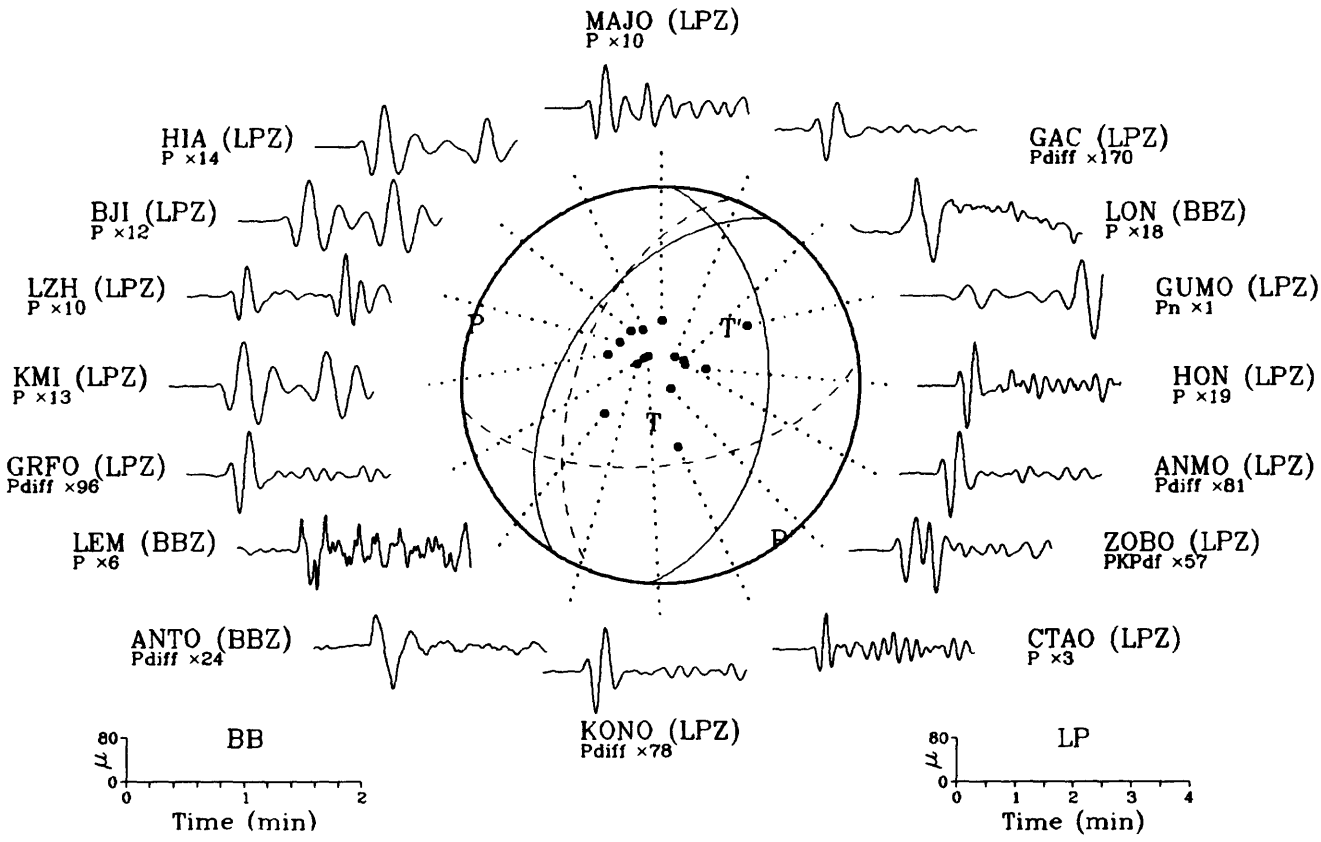
Earthquake Focal Mechanisms for July 1988



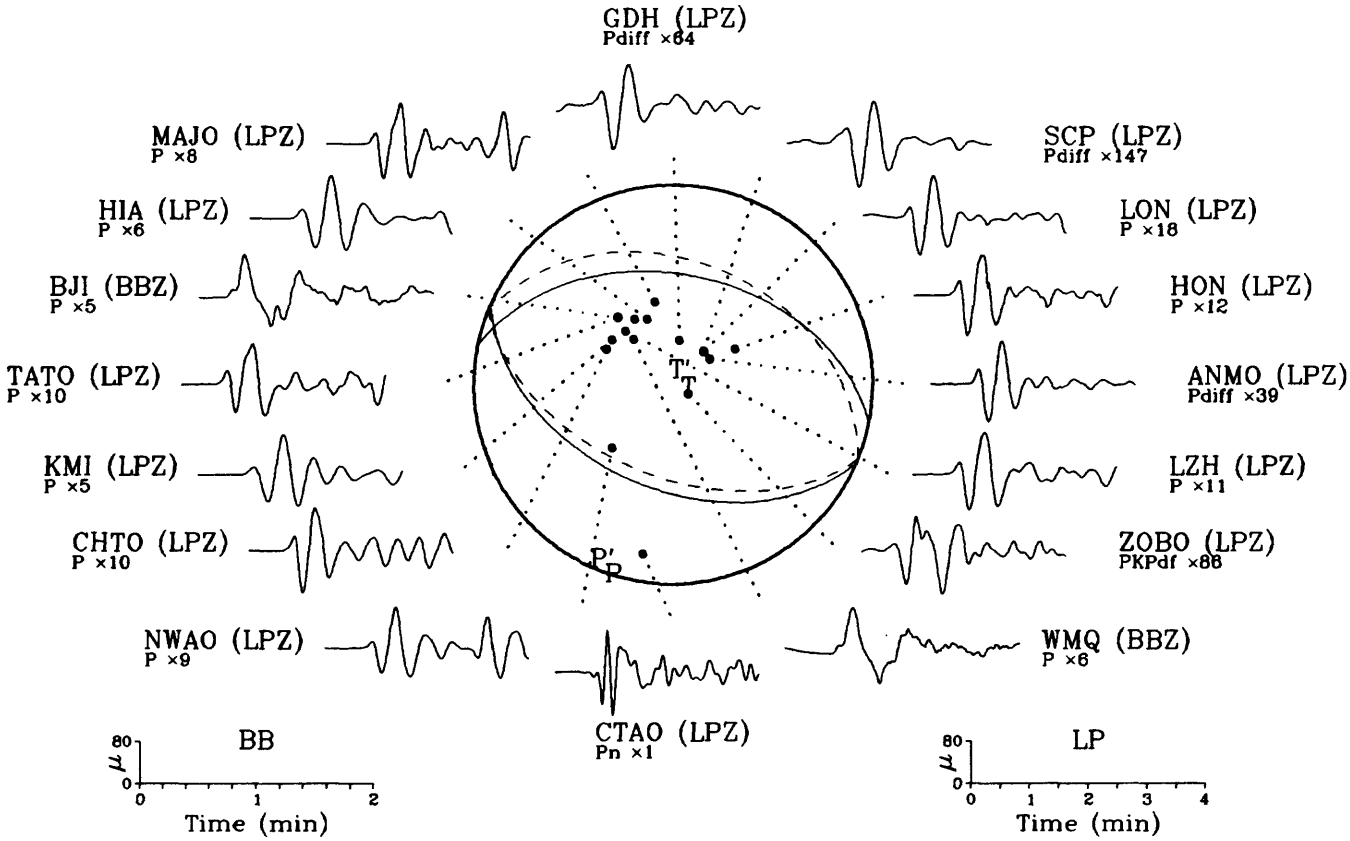
02 July 1988 10:01:28.85
Vanuatu Islands



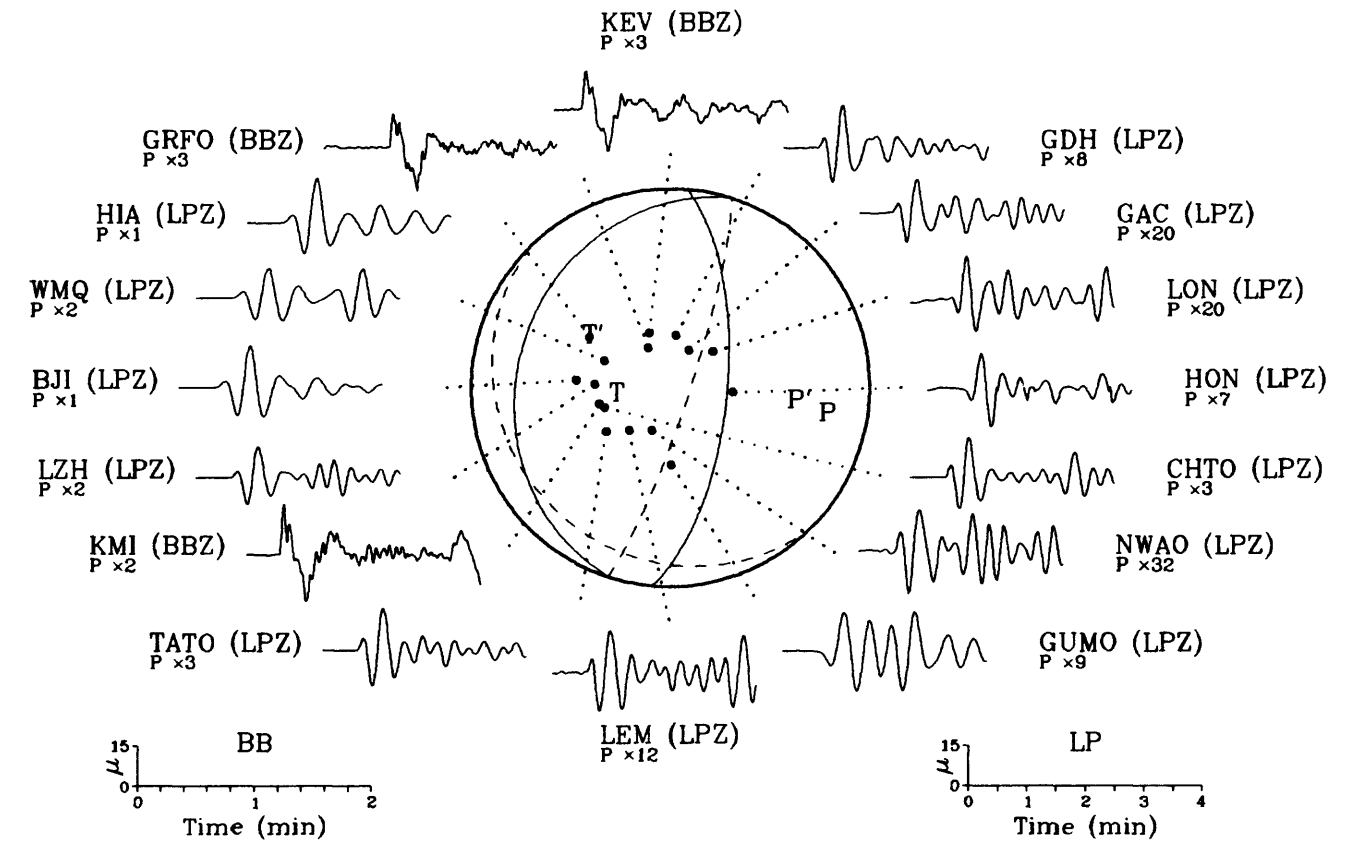
03 July 1988 11:43:12.67
West Caroline Islands



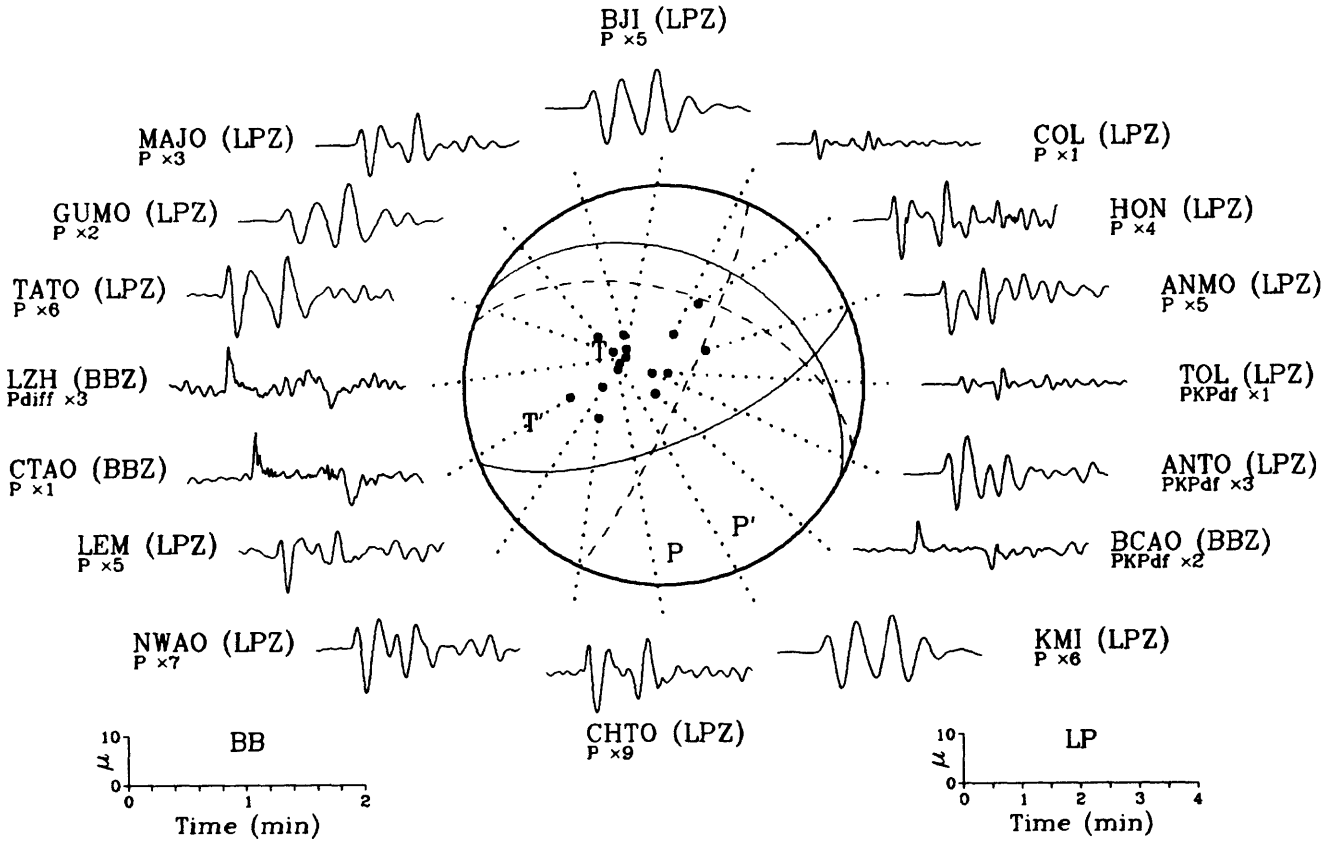
05 July 1988 20:32:07.20
New Britain Region



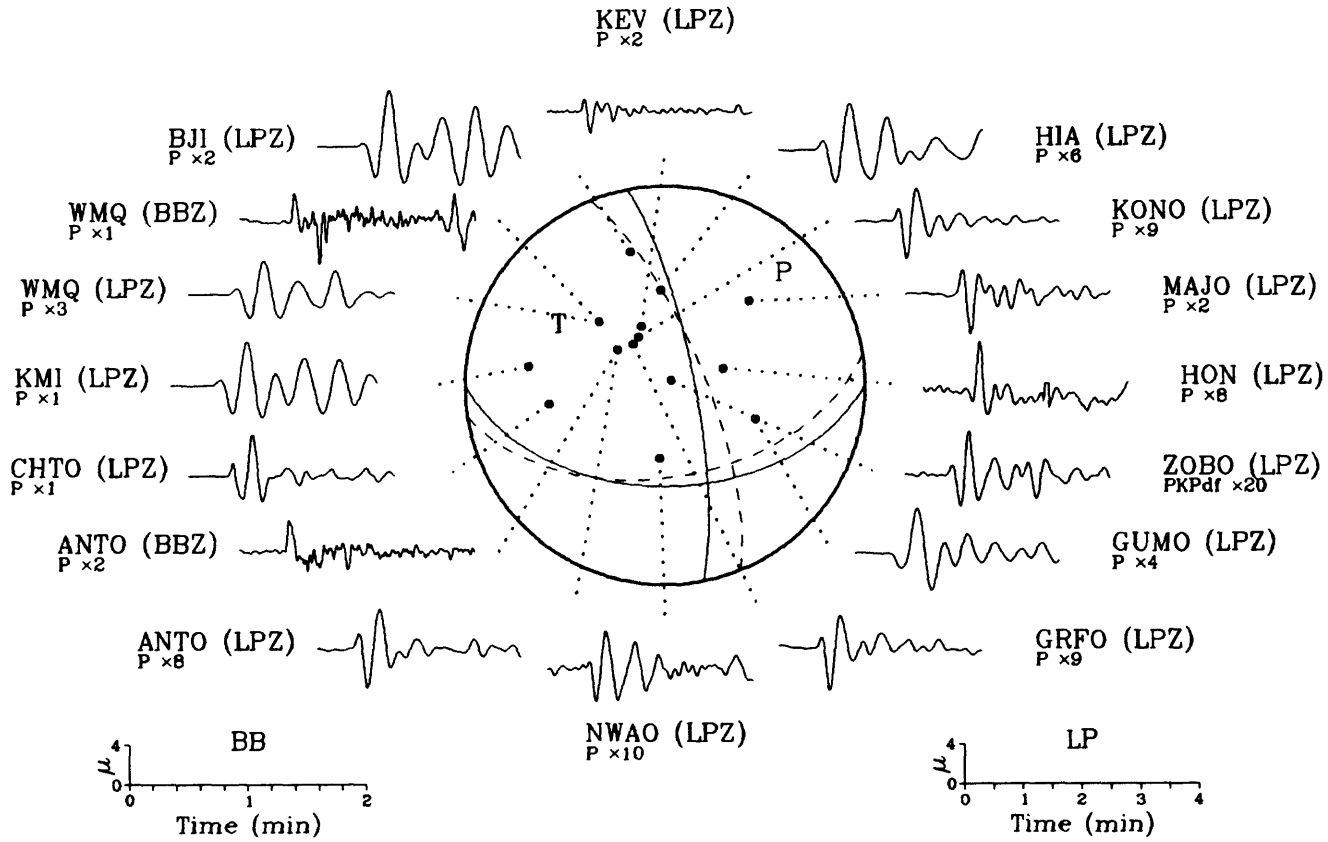
06 July 1988 15:54:19.14
Hokkaido, Japan Region



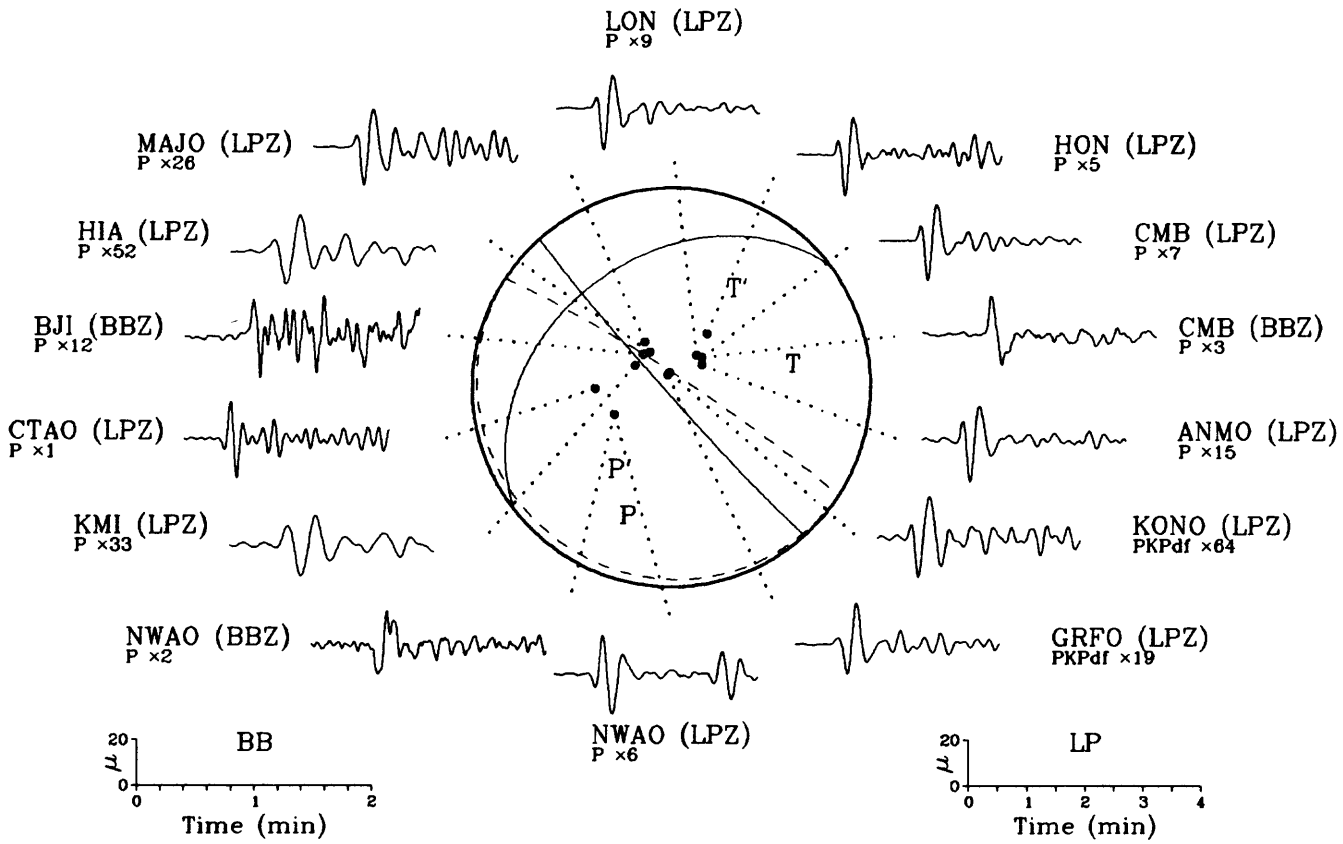
19 July 1988 01:00:19.69
Tonga Islands



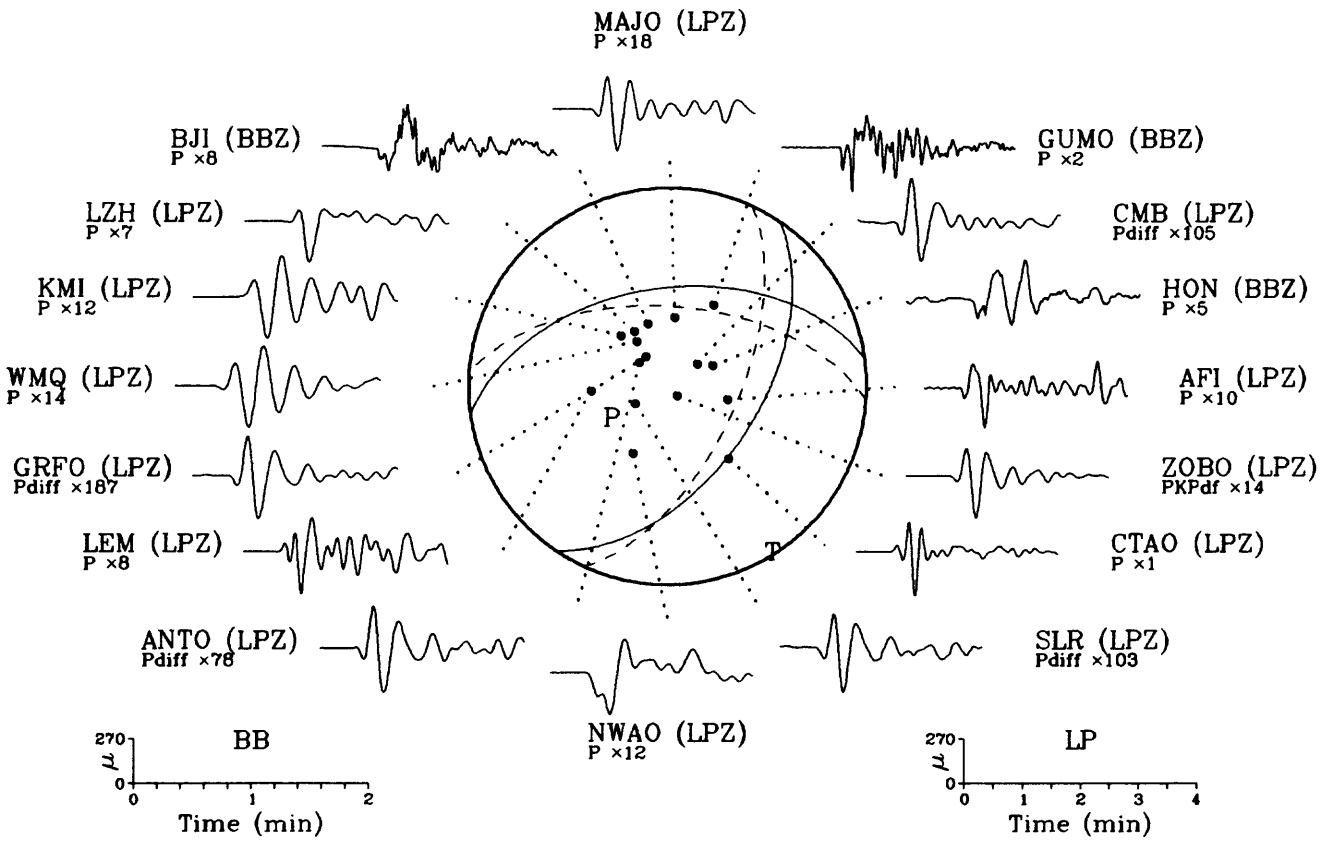
20 July 1988 23:15:36.65
Taiwan

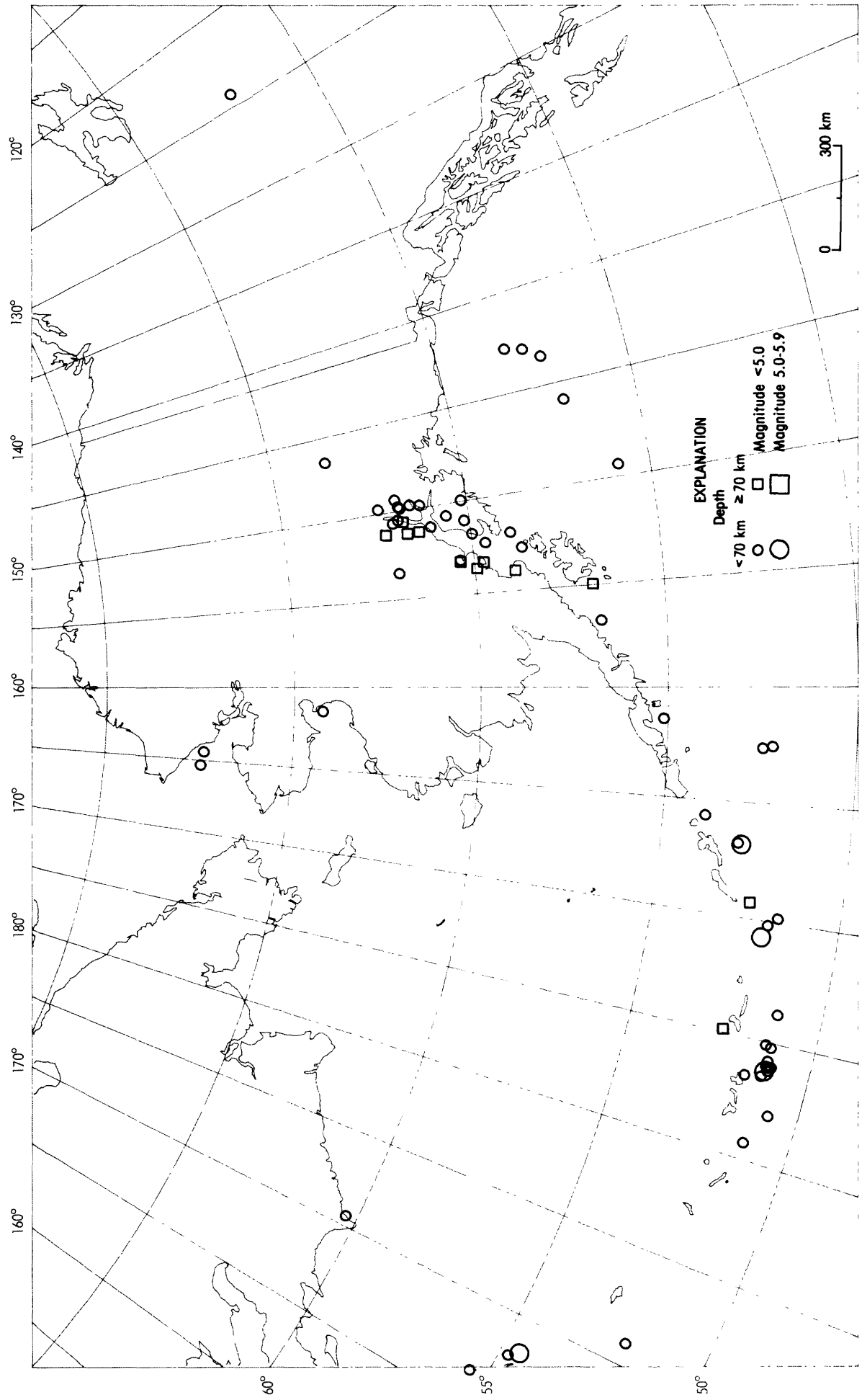


23 July 1988 14:25:36.77
Loyalty Islands Region

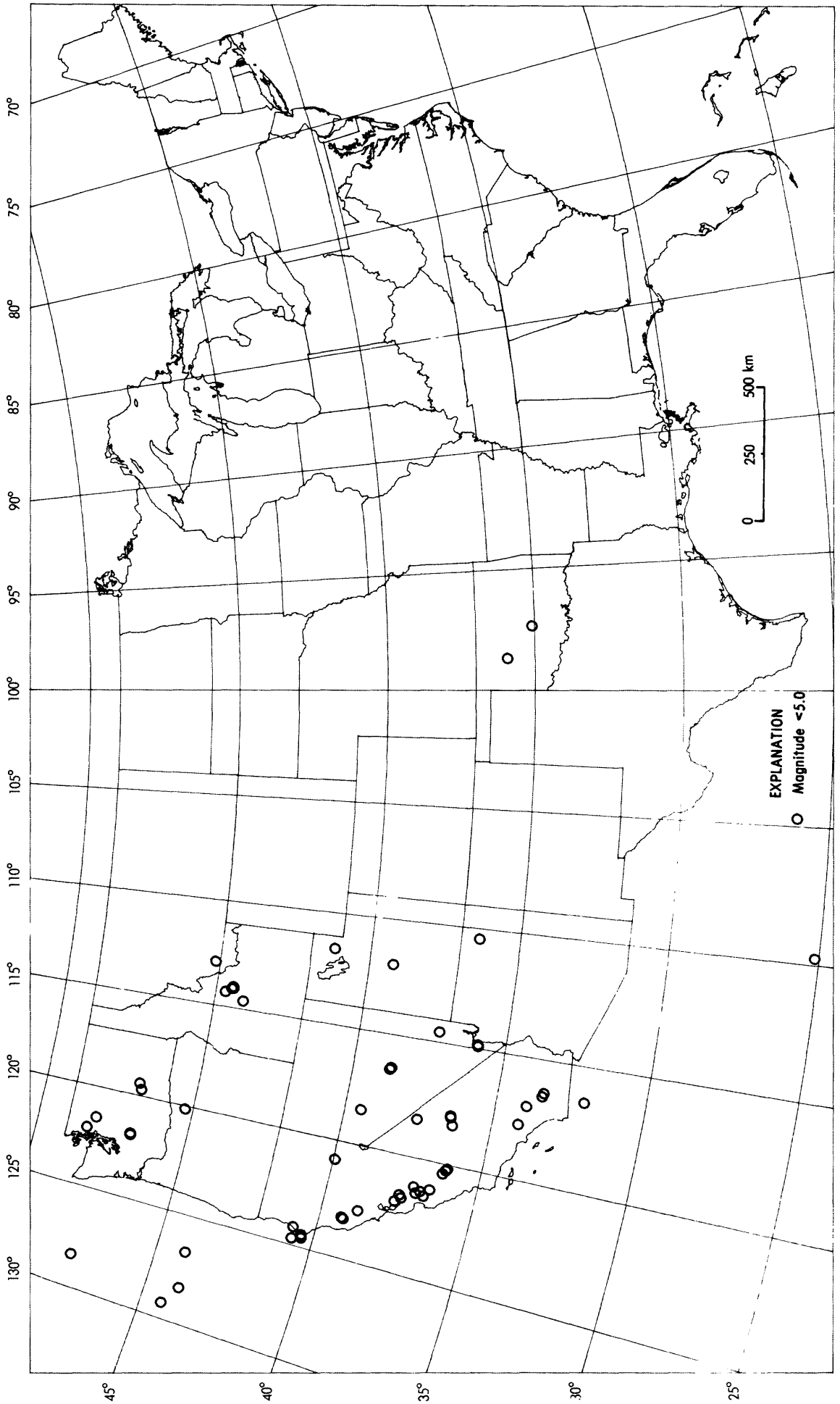


25 July 1988 06:46:06.69
Aroe Islands Region

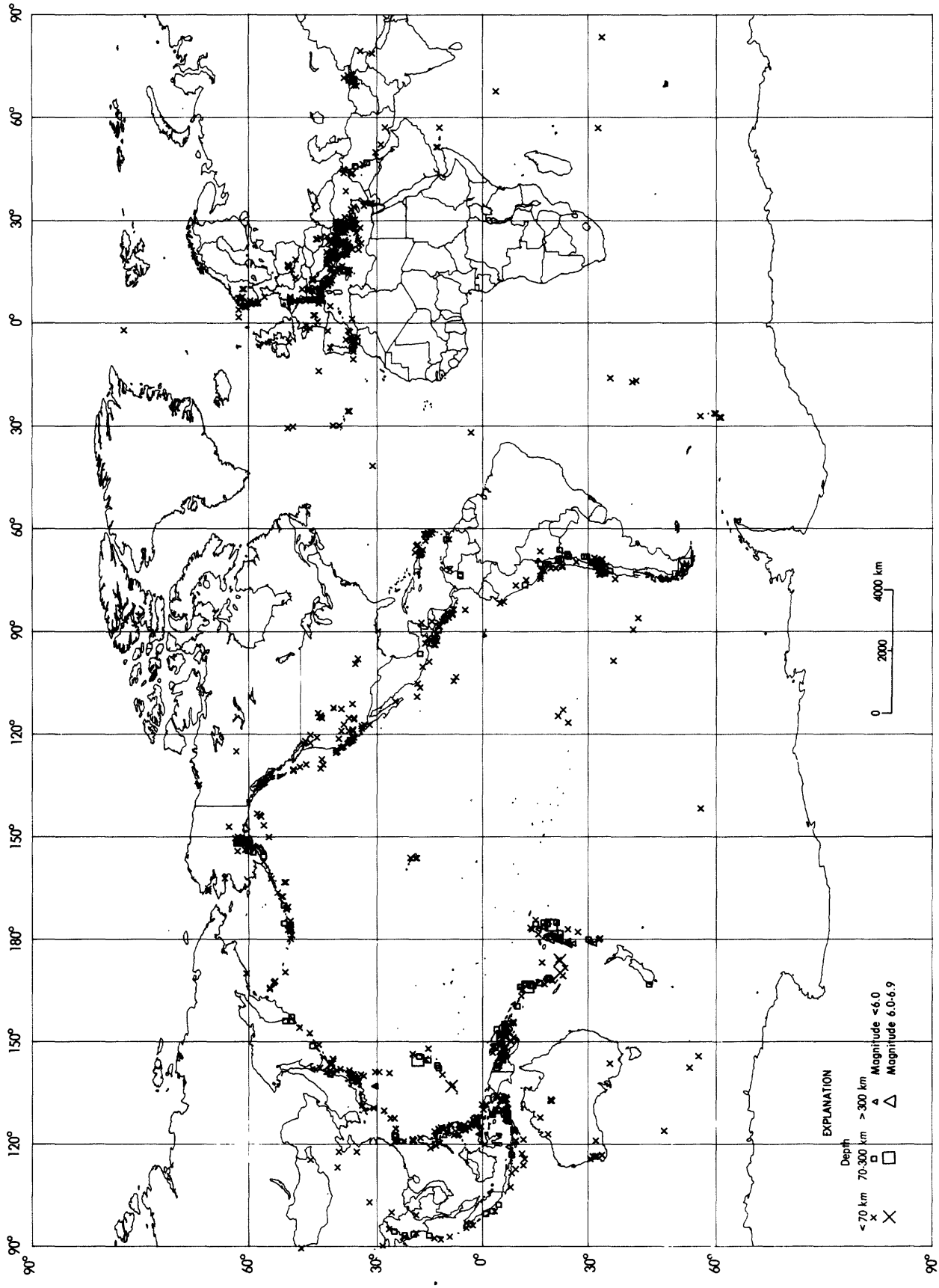




Earthquake epicenters in Alaska and adjacent regions for July, 1988 (C. Stover).



Earthquake epicenters in the conterminous United States and adjacent regions for July, 1988 (C. Stover).



Earthquakes located in July, 1988 (C. Stover).

EXPLANATION OF ABBREVIATIONS AND SYMBOLS APPEARING IN THIS PUBLICATION

Abbreviations in Heading

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

Symbols and Abbreviations Used in Comments

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, Heredio, Costa Rica.
HRV Harvard University, Cambridge, Massachusetts.
HVO Hawaiian Volcano Observatory.
JMA Japan Meteorological Agency (generally used to indicate 7-point Japanese Intensity Scale).
LAK Kansas Geological Survey, University of Kansas, Lawrence.
LDG Laboratoire de Detection et de Geophysique, Bruyeres-le-Chatel, France.
MACRO Hypocenter based upon macroseismic information.
MD Duration magnitude (shown as DUR prior to 1986).
MDD Instituto Geografico Nacional, Madrid, Spain.
MG Contributed local or regional magnitude of unspecified type (see "Contributed Magnitudes" below).
MW Moment Magnitude.
NEIS U.S. Geological Survey, National Earthquake Information Service, Golden, Colorado.
OTT Earth Physics Branch, Ottawa, Canada.
PAL Columbia University, Lamont-Doherty Geological Observatory, Palisades, New York.
PAS California Institute of Technology, Pasadena.
PGC Pacific Geoscience Centre, Sidney, British Columbia, Canada.
PMR Alaska Tsunami Warning Center, Palmer, Alaska.
REN University of Nevada, Reno.
RF Rossi-Forel Intensity Scale.
SEA University of Washington, Seattle.
SLC University of Utah, Salt Lake City.
SLM St. Louis University, Missouri.
SPEC An NEIS solution based on use of dense local networks, a local crustal model, or other methods not routinely applied in calculating the hypocenter parameters.
TEIC Center for Earthquake Research and Information, Memphis, Tennessee.
TUL Oklahoma Geological Survey, Leonard.
UVC Universidod 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.

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

U.S.A. Modified Mercalli (M.M.), 1931	Japanese, 1950 (JMA)	Rossi-Forel, 1873 (RF)	European (Mercolli - 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.

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. A description of this solution is reported in the comments on the Preliminary Determination of Epicenters Monthly Listing. Focal sphere solutions and first motion parameters are available upon request from National Earthquake Information Service, U.S. Geological Survey, Stop 967, Box 25046, Denver Federal Center, Denver, CO 80225.

NEIS MAGNITUDES

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

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

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

where:

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

T is the period in seconds.

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

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

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

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

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

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

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

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

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

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

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

ML These local magnitudes are computed according to the formula:

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

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

CONTRIBUTED MAGNITUDES

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

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.

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

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

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

WAVEFORM PLOTS

Each month selected events with MB ≥ 5.8 will be shown. For each event, up to 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, compressian axis (P), and tensian axis (T) will also be plotted when solutions are available. The dominant double couple of the USGS moment tensor will be shown in solid lines with the axes designated by P and T respectively. The NEIS first motions fault plane solution will be shown in dashed lines with the axes designated by P' and T' respectively. If both solutions are available, the primed axes may be suppressed unless they are sufficiently different from the unprimed axes. Each event will be titled with its origin date-time and Flinn-Engdahl region name to facilitate cross-referencing with the Monthly Listing text.

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

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

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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.

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)

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

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

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

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

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

3. MOMENT TENSOR. The scale factor (e.g., 10**20 Nm) is the number by which all subsequent entries related to values of the moment should be multiplied. For the moment tensor we give components in a spherical coordinate system: MRR = Mrr; MTT = $M\theta\theta$; MFF = $M\phi\phi$; MRT = $Mr\theta$; MRF = $Mr\phi$; MTF = $M\theta\phi$. In another frequently used notation: MRR = Mzz; MTT = Mxx; MFF = Myy; MRT = Mxz; MRF = -Myz; MTF = -Mxy (see Aki and Richards, 1980, p. 118). The solutions are constrained to have MRR + MTT + MFF = 0. The values following the entries for the elements of the moment tensor and centroid co-ordinates are standard errors, calculated under the usual assumption of uncorrelated errors in the data. The lateral heterogeneity of the Earth, however, clearly leads to systematic errors, and so the errors listed probably underestimate the true error in the solution.

4. PRINCIPAL AXES; rotation of the moment tensor into the principal axes system. Most of the solutions are predominantly of the double couple type: the largest positive eigenvalue corresponds to the tension axis (T); the usually small, intermediate eigenvalue is associated with the null axis (N); the smallest negative eigenvalue is identified with the compression axis (P). PLG are the plunges and AZM the azimuths of the axes.

5. BEST DOUBLE COUPLE. If the eigenvalue (T) is σ_1 and (P) is $-\sigma_2$, then the scalar seismic moment is defined as Mo = $1/2(\sigma_1 + \sigma_2)$. The strike, dip and slip of the first (NP1) and second (NP2) nodal planes are calculated from the directions of the P, T, and N axes. The remainder is a linear-vector dipole (Knopoff and Randall, 1970); in most cases the magnitude of LVD is small. Although all such decompositions are highly non-unique, this particular one is the best in estimating the starting solution for the non-linear, constrained double couple inverse problem. The angles strike, dip, and slip are defined using the convention of Aki and Richards (1980, p. 106) and are the angles designated there as ϕ_s, δ, λ, respectively.

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

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

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

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

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

BERKELEY MOMENT

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

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

PRELIMINARY DETERMINATION OF EPICENTERS

MONTHLY LISTING

U.S. DEPARTMENT OF THE INTERIOR / GEOLOGICAL SURVEY

National Earthquake Information Center

AUGUST 1988

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	16	25.5%	34.940	N	139.169	E	10	G			0.2	5	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) on Oshima and (I JMA) at Ajiro.
	01	01	12	03.4?	34.92	N	139.14	E	10	G			0.2	4	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro, Mishima and on Oshima.
	01	01	16	27.1	34.949	N	139.161	E	10	G	4.5		0.8	21	NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) at Ajiro; (II JMA) at Toteyama and on Oshima; (I JMA) at Mishima and Yokohama.
	01	01	34	25.0%	34.918	N	139.142	E	10	G			0.2	6	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajiro and (I JMA) at Mishima, Tokyo and on Oshima.
	01	01	39	21.6	34.849	N	139.279	E	10	G	4.9	4.5	1.3	106	NEAR S. COAST OF HONSHU, JAPAN. Felt (IV JMA) at Ajiro; (III JMA) at Toteyama, Mishima, Yokohama and on Oshima; (II JMA) at Nagaizuro and Tokyo; (I JMA) at Kawaguchi-ko.
	01	02	03	48.3	19.812	S	68.801	W	117	D	4.4		1.0	29	CHILE-BOLIVIA BORDER REGION
	01	02	12	49.9	45.145	N	6.678	E	5	G			1.1	15	FRANCE. ML 2.5 (GEN), 2.3 (LDG).
	01	02	46	58.5	17.832	S	178.782	W	561		4.9		0.9	110	FIJI ISLANDS REGION
	01	02	58	28.1%	34.908	N	139.140	E	10	G			0.4	7	NEAR S COAST OF HONSHU, JAPAN. Felt (II JMA) on Oshima; (I JMA) at Ajiro.
	01	03	04	45.8%	34.932	N	139.144	E	10	G			0.2	6	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajiro; (I JMA) at Mishima and on Oshima.
	01	03	07	52.3*	52.130	N	158.596	E	46	D	4.7		0.6	9	NEAR EAST COAST OF KAMCHATKA
	01	04	39	53.0	18.022	S	177.031	W	389		4.8		0.8	82	FIJI ISLANDS REGION
	01	04	39	57.3	1.663	N	125.067	E	222	*	5.0		0.9	22	MOLUCCA PASSAGE
	01	04	53	36.5*	34.944	N	139.003	E	10	G			1.5	5	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro, Mishima and on Oshima.
	01	05	13	07.3	34.896	N	139.165	E	10	G			0.3	7	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) on Oshima; (I JMA) at Ajiro, Mishima and Toteyama.
	01	06	23	24.9*	34.931	N	139.184	E	10	G			0.4	5	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) on Oshima.
	01	06	27	07.2?	5.18	S	150.55	E	104	?	3.5		1.5	8	NEW BRITAIN REGION
	01	06	28	47.6*	51.251	N	176.039	W	33	N	4.5		1.0	15	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.1 (PMR).
	01	06	47	55.9	53.618	N	163.516	W	33	N	4.8		0.9	68	UNIMAK ISLAND REGION. ML 4.5 (PMR).
	01	08	02	28.4	34.920	N	139.172	E	10	G			0.2	7	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajiro and on Oshima; (I JMA) at Toteyama.
	01	08	12	14.6*	34.917	N	139 155	E	10	G			0.2	5	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro.
	01	08	23	09.5	34.929	N	139.160	E	10	G	4.2		0.9	11	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajiro and on Oshima; (I JMA) at Mishima.
	01	08	24	56.3*	40.093	N	122 211	W	15	G			1.2	7	NORTHERN CALIFORNIA. ML 2.6 (BRK).
	01	08	35	03 0	34.919	N	139 165	E	10	G			0.2	7	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) on Oshima and (I JMA) at Ajiro.
	01	08	51	54.4*	34.841	N	139.121	E	10	G			1.1	6	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro and on Oshima.
	01	09	13	31.4*	58.164	N	143.233	W	10	G			0.4	7	GULF OF ALASKA. ML 3.4 (PMR).
	01	10	22	38.3?	7.35	S	129.46	E	203	?	3.8		1.3	8	BANDA SEA
	01	10	24	26.4*	39.565	N	29.334	E	10	G			1.4	5	TURKEY
	01	11	19	03.7	34.914	N	139.121	E	10	G			0.4	7	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajiro and (I JMA) at Mishima.
	01	11	34	08.3	47.585	N	115.614	W	10	G			0.5	76	MONTANA. ML 3.6 (NEIS), 4.1 (BUT). Felt (IV) at Saltese and Trout Creek, Montana. Also felt (IV) at Cataldo and Mullan, Idaho. Felt (III) at Haugan, Montana and Burke, Calder, Osburn, Pinehurst, Saint Maries and Wallace, Idaho. Also felt at Thompson Falls, Montana.
	01	12	04	48.2%	40.289	N	29.094	E	10	G			0.4	6	TURKEY
	01	12	14	03.2?	6.16	S	130.48	E	118	?	4.1		1.2	7	BANDA SEA
	01	12	50	03.6%	45.322	N	3.001	E	10	G			1.2	10	FRANCE. ML 2.7 (LDG).
	01	13	31	27.5?	9.23	S	124.42	E	33	N	3.9		1.5	7	TIMOR
	01	15	22	27.7*	21.028	N	94.966	E	120	*	4.2		1.1	11	BURMA
	01	16	03	09.9?	42.69	S	85.75	W	10	G	4.8		0.7	13	WEST CHILE RISE
	01	16	12	36.9	34.918	N	139.157	E	10	G			0.2	7	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajiro.

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	01	19	28	10.1?	37.81	N	16.74	E	10	G			1.0	6	IONIAN SEA
	01	20	50	55.3*	31.984	S	68.435	W	129	*			0.8	12	SAN JUAN PROVINCE, ARGENTINA
	01	20	55	23.2	38 504	N	26.708	E	13				0.9	18	AEGEAN SEA ML 4.0 (ATH).
	01	20	55	40.2	38.039	N	15.084	E	10	G			0.3	7	SICILY
	01	21	51	42.7	37.614	N	15.043	E	10	G			1.0	8	SICILY
	01	22	01	31.6	34.925	N	139.157	E	10	G			0.8	7	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajiro and on Oshimo; (I JMA) at Mishima and Tateyama.
	01	23	30	22.1&	36.177	N	120.783	W	9					13	CENTRAL CALIFORNIA. <BRK>. ML 2.7 (BRK).
	01	23	39	18.1*	36.511	N	70.748	E	184	?	4.2		1.2	16	HINDU KUSH REGION
	02	00	00	16.3?	8.14	S	129.04	E	194	?	4.7		1.1	11	TIMOR SEA
	02	00	16	31.2*	44.074	N	10.904	E	10	G			0.4	5	NORTHERN ITALY
	02	00	38	13.9	37.844	N	116.116	W	5	G			0.4	32	SOUTHERN NEVADA. ML 3.1 (NEIS), 3.1 (PAS).
	02	00	55	41.5%	17.974	N	99.750	W	33	N			0.7	6	GUERRERO, MEXICO
	02	00	55	47.3?	23.43	N	142.97	E	33	N	4.5		1.2	13	VOLCANO ISLANDS REGION
	02	01	10	28.0*	34.398	S	70.478	W	10	G			0.7	10	CHILE-ARGENTINA BORDER REGION
	02	01	36	11.8*	44.064	N	10.906	E	10	G			0.1	5	NORTHERN ITALY
	02	01	57	59.3	34.905	N	139.132	E	10	G			0.5	8	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajiro and on Oshima; (I JMA) at Mishima and Tateyama.
	02	03	13	44.7	40.269	N	27.164	E	10	G			1.4	15	TURKEY
	02	03	45	58.6*	40.405	N	27.047	E	10	G			0.9	6	TURKEY
	02	04	06	24.2&	37.565	N	118.748	W	5					12	CALIFORNIA-NEVADA BORDER REGION. <REN>. MD 2.8 (REN).
	02	04	32	03.5	34.925	N	139.165	E	10	G			0.3	6	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajiro; (I JMA) on Oshima.
	02	04	49	37.5?	43.16	N	21.04	E	10	G			0.3	4	YUGOSLAVIA
	02	05	04	01.9	40.545	N	27.142	E	10	G			1.5	13	TURKEY
	02	05	30	16.1*	6.501	S	153.122	E	33	N	3.9		1.3	6	NEW BRITAIN REGION
	02	06	33	34.3?	20.10	N	147.47	E	33	N	4.2		0.6	6	MARIANA ISLANDS REGION
	02	07	42	25.2%	39.840	N	28.847	E	10	G			0.8	5	TURKEY
	02	07	57	36.2	34.922	N	139.156	E	10	G			0.2	7	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajiro and on Oshima; (I JMA) at Mishima.
	02	08	14	12.9*	34.751	N	138.992	E	10	G			1.2	8	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajiro and on Oshima; (I JMA) at Tateyama.
	02	08	25	54.5*	19.864	N	122.052	E	33	N	4.0		0.9	6	PHILIPPINE ISLANDS REGION
a	02	08	31	01.7	18.100	S	178.463	W	608		5.1		0.8	197	FIJI ISLANDS REGION
	02	08	54	41.4	5.743	S	80.896	W	33	N	4.9		0.8	38	NEAR COAST OF NORTHERN PERU
	02	11	10	42.9	34.880	N	139.208	E	12		4.2		1.0	14	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajiro and on Oshima; (I JMA) at Nagatsuro, Mishima and Tateyama.
	02	11	16	03.0	34.834	N	139.268	E	10	G	5.0	4.7	1.2	111	NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) at Ajiro, Mishima, Tateyama, Takyo, Yokohama and on Oshima; (II JMA) at Nagatsuro; (I JMA) at Kofu, Kumagaya and Kawaguchi-ka.
	02	12	39	18.8	60.469	N	5.511	E	0	G			1.2	6	SOUTHERN NORWAY. MD 2.1 (BER). Prabable explasion.
	02	13	47	39.6*	13.106	N	144.627	E	32		4.8	4.0	1.2	17	MARIANA ISLANDS. Felt (IV) on Guam.
	02	14	08	17.1?	38.18	N	4.53	W	10	G			1.0	4	SPAIN. MG 2.6 (MDD).
	02	14	08	28.8	34.924	N	139.200	E	10	G	4.4		0.7	17	NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) at Ajiro and on Oshima; (II JMA) at Tateyama and Yokohama. Also felt at Mishima and Takyo.
	02	14	51	07.0	20.070	N	147.291	E	35	D	5.0	4.2	0.8	68	MARIANA ISLANDS REGION
	02	15	43	10.8*	43.457	N	12.999	E	10	G			1.3	5	CENTRAL ITALY
	02	15	59	53.5?	40.70	N	21.24	E	10	G			0.6	4	GREECE. MD 2.9 (ATH).
	02	16	19	41.0%	61.780	N	7.447	E	10	G			1.4	7	SOUTHERN NORWAY. MD 2.6 (BER).
	02	16	58	04.1*	20.053	N	146.957	E	33	N	4.5		0.8	12	MARIANA ISLANDS REGION
	02	16	59	42.8*	34.918	N	139.159	E	10	G			0.1	5	NEAR S. COAST OF HONSHU, JAPAN
	02	17	07	15.8	34.941	N	139.206	E	10	G			0.2	7	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro and on Oshima.
	02	18	16	39.7	34.820	N	139.095	E	10	G	4.0		1.0	8	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajiro; (I JMA) at Tateyama and on Oshima.
	02	18	48	11.3	34.907	N	139.162	E	10	G	4.2		0.2	6	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajiro and on Oshima.
	02	19	01	56.5	34.866	N	139.121	E	10	G	3.9		0.7	7	NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) at Ajiro; (I JMA) at Tateyama and on Oshima.
	02	19	21	58.8	34.925	N	139.148	E	10	G	4.3		0.6	12	NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) at Ajiro; (II JMA) on Oshima; (I JMA) at Mishima and Tateyama.
	02	19	59	01.7*	34.830	N	139.101	E	10	G	4.0		1.3	9	NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) at Ajiro and (II JMA) on Oshima.
	02	20	58	33.7%	39.500	N	1.345	W	10	G			1.1	6	SPAIN. MG 2.7 (MDD).
	02	21	02	23.3	34.896	N	139.243	E	10	G			0.1	7	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Nagatsuro and on Oshima; (I JMA) at Ajiro.
	02	21	10	58.4?	47.53	N	13.21	E	10	G			0.2	5	AUSTRIA
	02	21	30	46.2*	34.758	N	139.061	E	10	G	4.0		0.9	8	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajiro and (I JMA) at Tateyama and on Oshima.
	02	21	53	11.4*	6.795	S	104.067	E	33	N	4.2		1.2	12	SUNDA STRAIT
a	02	22	08	31.4	58.015	S	25.133	W	26	D	5.5	5.3	1.1	75	SOUTH SANDWICH ISLANDS REGION
	02	22	49	00.8	48.650	N	11.228	E	24				0.8	20	GERMANY. ML 2.9 (LDG).
	02	23	01	48.9	34.915	N	139.156	E	10	G			0.3	6	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro and an Oshima.
	02	23	44	34.3?	6.48	S	130.44	E	148	?	4.2		1.4	13	BANDA SEA
	03	01	12	16.4*	39.828	N	20.670	E	10	G			0.6	5	GREECE-ALBANIA BORDER REGION. MD 3.1 (ATH).
	03	02	17	48.1*	42.881	N	13.010	E	10	G			0.2	5	CENTRAL ITALY. MD 2.0 (SSO).
	03	02	42	35.2?	46.53	N	1.64	E	10	G			0.2	4	FRANCE. ML 1.8 (LDG).
	03	03	46	39.1%	44.786	N	7.449	E	10	G			0.6	6	NORTHERN ITALY. ML 2.3 (GEN).
a	03	05	43	14.8	36.483	N	70.950	E	201	D	5.5		0.9	383	HINDU KUSH REGION. Felt (V) at Kabul, Afghanistan. Felt (III) at Dushanbe, Fergana, Dzhizak and Samarkand, USSR. Felt at Quetto, Peshawar, Islamabad, Abbottabad and Lahore, Pakistan.
	03	06	33	39.8?	10.73	N	85.19	W	33	N			0.9	7	COSTA RICA
	03	07	49	42.4?	18.70	N	65.00	W	10	G			0.4	6	VIRGIN ISLANDS
	03	07	52	25.7?	16.55	S	72.73	W	10	G	5.4		0.2	6	NEAR COAST OF PERU
	03	08	01	18.4*	60.320	N	153.691	W	197	?			1.3	6	SOUTHERN ALASKA
	03	09	16	03.3*	31.554	S	66.594	W	152	?	4.3		1.2	17	LA RIOJA PROVINCE, ARGENTINA
	03	09	20	52.8%	45.878	N	10.100	E	10	G			0.9	5	NORTHERN ITALY

	03	09	44	14.1	39.658	N	118.819	E	10	G	4.9	1.5	13	NORTHEASTERN CHINA ML 4.5 (BJI).
	03	09	48	52.2	49.133	N	6.875	E	10	G		1.0	7	GERMANY. MD 1.6 (STR).
	03	10	37	40.9*	44.560	N	141.892	E	33	N	4.6	0.8	21	HOKKAIDO, JAPAN REGION
	03	11	24	06.1?	32.20	S	71.27	W	33	N		0.8	9	NEAR COAST OF CENTRAL CHILE
	03	11	27	40.2*	51.514	N	6.441	E	10	G		1.4	6	GERMANY
	03	11	52	50.5	28.787	S	62.314	E	10	G	5.1	0.6	36	ATLANTIC-INDIAN RISE
	03	12	01	28.0*	44.997	N	6.586	E	10	G		0.2	5	FRANCE. ML 1.9 (GEN).
	03	12	04	17.4	36.447	N	70.922	E	206	D	4.8	1.0	99	HINDU KUSH REGION
	03	13	28	26.8%	39.599	N	29.349	E	10	G		0.5	5	TURKEY
	03	13	43	51.5*	4.793	S	150.976	E	159	*	4.7	0.4	9	NEW BRITAIN REGION
	03	14	18	47.0*	7.346	S	75.823	W	134	*	4.8	0.9	30	NORTHERN PERU
	03	14	19	06.9	60.915	N	149.761	W	33	N		0.6	7	KENAI PENINSULA, ALASKA. ML 3.6 (PMR). Felt (III) at Anchorage.
	03	14	35	20.8?	6.66	S	131.75	E	33	N	4.3	1.3	6	TANIMBAR ISLANDS REGION
	03	14	49	51.9?	38.20	N	4.46	W	10	G		0.5	4	SPAIN. MG 2.5 (MDD).
	03	14	53	30.2	44.414	N	8.305	E	10	G		0.6	11	NORTHERN ITALY. ML 2.4 (GEN).
	03	17	05	26.0*	40.692	N	41.420	E	10	G	4.3 4.3	1.5	6	TURKEY
	03	17	21	37.1%	40.732	N	29.910	E	10	G		1.1	7	TURKEY
a	03	17	30	15.4	18.665	N	106.480	W	33	N	4.9 5.4 *	0.9	69	OFF COAST OF JALISCO, MEXICO. Ms 5.4 (BRK).
	03	17	50	42.7*	18.601	N	106.465	W	33	N	4.3	1.2	42	OFF COAST OF JALISCO, MEXICO. Ms 4.9 (BRK).
	03	18	42	44.4*	18.792	N	106.235	W	33	N	4.3	1.5	38	OFF COAST OF JALISCO, MEXICO. Ms 4.6 (BRK).
	03	19	18	31.5	7.389	S	69.449	E	10	G	4.9 4.6	0.9	62	CHAGOS ARCHIPELAGO REGION
	03	20	42	30.9	35.768	N	35.892	E	47		4.6 3.9	1.1	116	JORDAN - SYRIA REGION. Felt at Antakya and Incirli, Turkey.
	03	20	51	11.2?	35.82	N	36.17	E	33	N		0.3	5	JORDAN - SYRIA REGION
	03	21	06	26.9*	35.787	N	36.170	E	33	N		1.5	7	JORDAN - SYRIA REGION
	03	21	26	08.6?	59.83	N	2.85	E	10	G		0.5	6	NORTH SEA. MD 2.6 (BER).
	03	22	02	53.6*	36.760	N	10.502	W	10	G		0.5	29	NORTH ATLANTIC OCEAN. MG 4.1 (MDD).
	03	23	44	41.6%	39.503	N	28.937	E	10	G		0.7	5	TURKEY
	04	01	54	58.0?	33.69	S	72.25	W	10	G		0.2	8	OFF COAST OF CENTRAL CHILE
	04	03	57	26.1	39.332	N	14.191	E	393		4.4	1.1	107	TYRRHENIAN SEA
	04	04	37	49.2%	45.997	N	2.797	E	10	G		0.5	11	FRANCE. ML 2.3 (LDG).
	04	04	40	40.5	19.044	S	69.597	W	113	*	4.4	1.1	11	NORTHERN CHILE
	04	05	11	19.2%	31.704	S	117.063	E	10	G		0.4	6	WESTERN AUSTRALIA
	04	06	00	50.2	28.822	S	67.461	W	140	*	4.8	1.1	26	LA RIOJA PROVINCE, ARGENTINA
a	04	06	18	42.7	42.877	S	85.834	W	6	G	5.9 4.9	1.1	190	WEST CHILE RISE. Ms 4.8 (BRK). Felt on the ship "Mt. Cabrite" at 42.81' South, 85.83' West. Depth from broadband displacement seismograms.
	04	07	49	34.4	18.852	N	64.241	W	49	*	4.5	0.5	21	VIRGIN ISLANDS
	04	07	51	36.5	34.929	N	139.179	E	10	G		0.2	6	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) on Oshima; (I JMA) at Ajiro and Mishima.
	04	08	06	50.4	34.852	N	139.203	E	25		4.4	1.4	22	NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) at Ajiro and on Oshima; (II JMA) at Mishima, Toteyama and Yokohama; (I JMA) at Tokyo.
	04	08	14	48.4*	42.247	N	19.993	E	10	G		1.2	5	YUGOSLAVIA. ML 2.3 (TTG).
	04	08	24	21.9	34.928	N	139.158	E	10	G		0.2	6	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro, Mishima and on Oshima.
	04	08	25	17.5	38.768	N	26.825	E	13		4.5	1.1	35	AEGEAN SEA. ML 4.4 (ATH). Felt along the western coast of Turkey.
	04	08	27	27.6*	34.657	N	139.122	E	10	G	4.1	0.6	7	NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) at Ajiro, (II JMA) at Mishima and (I JMA) at Nagatsuro and on Oshima.
	04	08	36	07.9?	38.92	S	175.77	E	77	*		1.4	7	NORTH ISLAND, NEW ZEALAND. Felt at Hastings.
	04	08	39	39.4*	32.006	S	71.650	W	10	G		0.6	11	NEAR COAST OF CENTRAL CHILE
	04	08	40	48.8	34.931	N	139.155	E	10	G		0.3	6	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) on Oshima and (I JMA) at Ajiro.
	04	08	48	34.3*	31.688	S	72.278	W	33	N	4.9	1.1	17	OFF COAST OF CENTRAL CHILE
	04	08	51	10.5	34.935	N	139.185	E	10	G		0.2	6	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) on Oshima and (I JMA) at Ajiro.
	04	09	04	45.9	34.924	N	139.154	E	10	G		0.1	7	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajiro and on Oshima; (I JMA) at Mishima.
	04	09	09	57.1*	34.924	N	139.160	E	10	G		0.2	5	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro and on Oshima.
	04	09	29	30.3	34.928	N	139.169	E	10	G		0.7	10	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajiro and on Oshima; (I JMA) at Tateyama and Tokyo.
	04	10	12	53.3	8.330	N	91.745	E	34	D	4.8	1.1	58	NICOBAR ISLANDS REGION
	04	10	13	12.6*	34.928	N	139.187	E	10	G		0.1	5	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) on Oshima and (I JMA) at Ajiro.
	04	10	35	58.6	45.985	N	6.844	E	10	G		1.1	26	FRANCE. ML 2.6 (LDG). MD 2.6 (STR).
	04	11	37	37.8	2.915	N	97.608	E	84		4.9	1.1	60	NORTHERN SUMATERA
	04	11	38	09.9	2.413	S	80.184	W	33	N	4.7	1.1	27	NEAR COAST OF ECUADOR
	04	12	17	02.9*	34.802	N	138.900	E	10	G	4.2	0.9	6	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajiro and on Oshima.
	04	13	05	18.3?	61.11	N	10.17	E	10	G		0.2	4	SOUTHERN NORWAY. MD 2.2 (BER)
	04	13	14	42.7?	31.94	S	71.97	W	10	G		1.0	9	NEAR COAST OF CENTRAL CHILE
	04	13	36	41.5*	34.929	N	139.180	E	10	G		0.1	5	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro and on Oshima.
	04	14	58	18.5%	59.003	N	5.927	E	10	G		0.3	5	SOUTHERN NORWAY. MD 2.3 (BER).
	04	15	56	38.2	16.125	S	173.879	W	113	D	4.8	0.8	40	TONGA ISLANDS
a	04	17	16	45.3	33.720	S	179.791	W	10	G	5.5 5.0	0.9	110	SOUTH OF KERMADEC ISLANDS. Ms 5.0 (BRK).
	04	17	17	21.0?	33.17	S	57.76	E	10	G	5.2	1.5	11	ATLANTIC-INDIAN RISE
	04	17	51	01.5	34.946	N	139.181	E	10	G	4.1	0.8	11	NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) at Ajiro, (II JMA) an Oshima and (I JMA) at Tateyama.
	04	18	04	51.6*	32.545	S	71.478	W	10	G		0.8	11	NEAR COAST OF CENTRAL CHILE
	04	18	07	07.4	34.820	N	139.020	E	10	G	4.2	1.0	10	NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) at Ajiro, (II JMA) on Oshima and (I JMA) at Tateyama.
	04	18	41	54.1*	29.714	S	69.780	W	33	N		1.3	8	CHILE-ARGENTINA BORDER REGION
	04	18	47	58.7	34.954	N	139.168	E	10	G		0.4	6	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajiro and an Oshima; (I JMA) at Tateyama and Yokohama.
	04	19	16	30.3	11.393	S	118.306	E	33	N	4.2	1.5	6	SOUTH OF SUMBAWA ISLAND
	04	19	56	54.0	43.108	N	12.857	E	10	G		1.0	10	CENTRAL ITALY. MD 2.4 (SSO).
	04	20	58	31.1*	24.936	S	179.494	E	581	?	4.6	1.1	20	SOUTH OF FIJI ISLANDS
	04	21	04	24.6?	7.01	S	149.22	E	123	?	4.4	0.4	6	NEW BRITAIN REGION

	04	21 27 51.4	24.032	S	179.836	E	524	*	4.9		0.8	60	SOUTH OF FIJI ISLANDS
	04	22 01 24.0?	0.11	N	125.05	E	33	N	5.1		0.8	8	MOLUCCA PASSAGE
	04	22 14 11.6*	42.392	N	16.743	E	10	G			0.5	6	ADRIATIC SEA. ML 2.7 (TTG).
	04	23 34 46.6	0.055	N	123.774	E	131	*	4.7		1.1	21	MINAHASSA PENINSULA
	04	23 42 51.1	34.931	N	139.160	E	10	G			0.1	6	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro and on Oshima.
	05	00 14 35.6	34.993	N	139.221	E	10	G			0.5	6	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro and on Oshima.
	05	00 36 32.2	34.864	N	139.106	E	10	G	4.3		0.8	13	NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) on Oshima, (II JMA) at Ajiro and (I JMA) at Mishima and Toteyama.
	05	00 44 10.8	34.943	N	139.190	E	10	G			0.2	6	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Mishima, Ajiro, Toteyama and on Oshima.
	05	00 47 58.1	34.926	N	139.169	E	10	G			0.2	7	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro, Mishima and an Oshima.
	05	00 49 39.7	34.925	N	139.177	E	10	G			0.3	8	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajiro and on Oshima; (I JMA) at Mishima and Toteyama.
	05	01 35 37.0	11.614	S	117.252	E	33	N	4.5		1.1	11	SOUTH OF SUMBAWA ISLAND
	05	03 13 33.6	31.667	S	69.293	W	119		4.7		0.9	51	SAN JUAN PROVINCE, ARGENTINA
	05	04 08 31.9	30.014	S	72.099	W	22		4.6		1.3	19	OFF COAST OF CENTRAL CHILE
	05	04 27 44.5*	30.102	S	177.795	W	45	*	4.9		1.0	12	KERMADEC ISLANDS
	05	04 45 47.5	34.878	N	139.118	E	10	G	4.3		0.9	12	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajiro and an Oshima; (I JMA) at Mishima.
	05	05 00 50.6*	18.784	S	65.526	E	10	G	4.8		0.9	17	MASCARENE ISLANDS REGION
	05	05 38 15.6	49.125	N	6.854	E	10	G			1.0	6	GERMANY. MD 1.0 (STR).
	05	06 56 58.0?	20.76	S	69.31	W	33	N			0.9	5	NORTHERN CHILE
	05	08 42 10.9	34.480	N	139.018	E	10	G	4.1		1.1	21	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Tateyama.
	05	09 55 11.4?	59.47	S	23.13	W	33	N	4.6		1.4	6	SOUTH SANDWICH ISLANDS REGION
a	05	10 07 45.0	39.000	S	16.024	W	10	G	5.4	4.9	1.2	77	SOUTH ATLANTIC RIDGE
	05	10 18 03.7?	44.69	N	3.27	E	5	G			1.4	6	FRANCE. ML 2.5 (LDG).
	05	10 30 31.4?	61.88	N	7.45	E	10	G			1.0	6	SOUTHERN NORWAY. MD 2.3 (BER).
	05	12 20 27.7*	34.938	N	139.189	E	10	G			0.1	5	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) an Oshima.
	05	12 53 22.6	35.600	N	25.904	E	47	*	4.2		1.1	36	CRETE. Felt in southern Crete.
	05	13 35 26.4	13.787	N	93.032	W	18		4.6		1.1	42	OFF COAST OF CHIAPAS, MEXICO
	05	14 08 32.4*	5.496	S	151.805	E	33	N	4.2		0.6	6	NEW BRITAIN REGION
	05	14 43 53.8*	9.642	S	121.904	E	33	N	3.9		1.0	13	SAVU SEA
	05	14 55 59.7*	44.479	N	7.228	E	10	G			0.1	5	NORTHERN ITALY. ML 2.1 (GEN).
	05	15 09 53.0	1.022	S	13.251	W	10	G	4.8	4.3	1.4	56	NORTH OF ASCENSION ISLAND
	05	15 39 44.8?	44.26	N	7.51	E	10	G			0.5	4	NORTHERN ITALY. ML 2.4 (GEN).
	05	16 13 32.6	5.808	S	147.903	E	114		5.5		0.8	55	EAST PAPUA NEW GUINEA REGION
	05	17 34 37.4	12.006	N	93.070	E	42	D	4.9	4.3 *	1.2	112	ANDAMAN ISLANDS REGION
	05	17 50 20.6?	42.52	N	13.12	E	10	G			0.1	4	CENTRAL ITALY. MD 2.4 (SSO).
	05	18 15 57.9?	34.75	N	139.23	E	10	G			1.5	5	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) an Oshima.
	05	18 30 07.3?	43.67	N	19.26	E	10	G			0.7	6	YUGOSLAVIA. ML 2.3 (TTG).
	05	18 47 30.8*	5.830	S	153.997	E	65	*	4.8		0.9	13	NEW IRELAND REGION
	05	20 42 24.1*	2.091	N	99.008	E	150	*	3.9		1.0	9	NORTHERN SUMATERA
	05	21 35 02.6	42.512	N	13.140	E	10	G			0.6	11	CENTRAL ITALY. MD 2.7 (SSO).
a	05	21 46 15.2*	41.921	S	16.455	W	10	G	5.3	5.0	1.3	43	SOUTH ATLANTIC RIDGE
	05	22 01 32.5	43.807	N	6.415	E	13				1.1	47	NEAR SOUTH COAST OF FRANCE. ML 3.3 (LDG). MD 3.0 (STR).
	05	23 49 23.5	37.388	N	71.459	E	33	N	4.4		0.3	8	AFGHANISTAN–USSR BORDER REGION
f	06	00 36 24.6	25.149	N	95.127	E	91	G	6.8	7.2	1.1	654	BURMA–INDIA BORDER REGION. Ms 7.3 (BRK). Three people killed, 12 injured and considerable damage and landslides in the Gouhoti–Sibsagar–Imphal oreo, Indio. Subsidence of about 20 centimeters occurred in the Gouhati area, Indio. About 30 people injured and some damage in Bangladesh. Two people killed and about 30 missing when o possible seiche on the Jamuna River at Aricho, Banglodesh caused a ferry boat to capsize. Some damage in the Homolin area, Burma. Felt throughout Bonglodesh and northeastern Indio, including Colcutto. Also felt in ports of northwestern Burma and ot Kothmondu, Nepal. Depth from broadband displacement seismograms.
	06	02 51 58.2%	61.719	N	6.531	E	10	G			0.3	6	SOUTHERN NORWAY. MD 2.2 (BER).
	06	02 53 58.7*	34.455	N	139.102	E	10	G	4.3		1.0	10	NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) on Oshima and (I JMA) at Ajiro and Mishimo.
	06	03 29 18.6%	40.430	N	27.135	E	10	G			1.5	7	TURKEY
	06	03 52 58.4	59.959	N	6.336	E	10	G			0.3	7	SOUTHERN NORWAY. MD 2.2 (BER).
	06	04 37 19.9	39.968	N	23.269	E	17		3.8		1.2	19	AEGEAN SEA. ML 3.7 (ATH).
	06	05 12 51.5?	17.71	N	94.63	W	148	?			1.4	7	CHIAPAS, MEXICO
	06	06 21 42.3	25.362	N	94.970	E	87		4.5		1.3	60	BURMA–INDIA BORDER REGION
a	06	06 26 55.6	7.136	S	151.057	E	25	G	5.9	5.7	1.0	295	NEW BRITAIN REGION. Ms 5.9 (BRK). Felt (III) ot Arawo, Bougainville. Depth from broadbond displocement seismograms.
	06	07 36 09.1?	38.83	S	15.90	W	10	G	4.8		1.5	8	TRISTAN DA CUNHA REGION
	06	07 53 18.8%	41.848	N	14.705	E	10	G			1.5	5	SOUTHERN ITALY
	06	07 57 44.1	31.622	S	69.638	W	33	N			1.4	10	SAN JUAN PROVINCE, ARGENTINA
	06	08 06 24.9	24.221	N	142.941	E	33	N	4.8		0.9	46	VOLCANO ISLANDS REGION
	06	08 10 52.2?	15.15	N	59.71	W	10	G			0.1	7	LEEWARD ISLANDS. ML 2.9 (FDF).
	06	08 57 33.5%	42.593	N	19.683	E	10	G			0.8	5	YUGOSLAVIA. ML 2.3 (TTG).
f	06	09 03 21.9	36.461	N	71.043	E	195	G	6.1		1.0	506	AFGHANISTAN–USSR BORDER REGION. Felt (V) at Kabul, Afghanistan and at Khorag, Kulyab, Ishkashim and Samarkand, USSR. Felt (IV) at Dushanbe, Obigarm and Fergana and (III) ot Tashkent, USSR. Felt at Chitral, Peshawar, Islamobad, Lahore and Dera Ismail Khan, Pokistan. Also felt in Koshmir and Nepal and at New Delhi, Indio. Depth from broadband displacement seismagrams.
	06	09 32 40.0	13.790	N	51.594	E	10	G	5.1		0.8	87	EASTERN GULF OF ADEN
	06	10 08 50.8*	42.723	N	145.560	E	45	*	4.9		0.8	22	HOKKAIDO, JAPAN REGION. Felt (II JMA) at Nemuro and (I JMA) at Kushiro.

	06	10 56 03.3*	13.814	N	52.098	E	10	G	4.7		1.1	25	SOCOTRA REGION
	06	13 55 31.3*	34.166	S	179.098	E	268	?	4.7		1.2	18	SOUTH OF KERMADEC ISLANDS
	06	14 12 59.4*	5.288	S	140.181	E	33	N	3.5		1.0	8	WEST IRIAN
	06	14 49 25.9*	32.511	N	35.255	E	10	G			0.3	5	DEAD SEA REGION
	06	14 53 13.1*	55.090	N	156.743	W	33	N	4.7		1.0	20	SOUTH OF ALASKA. ML 4.1 (PMR).
	06	15 03 32.5	19.828	N	109.231	W	10	G	4.7	4.2	1.1	44	REVILLA GIGEDO ISLANDS REGION. Ms 4.4 (BRK).
	06	16 28 41.3*	0.358	S	134.304	E	33	N	4.8		1.2	6	WEST IRIAN REGION
	06	18 26 03.7*	19.798	N	109.424	W	10	G	3.9		1.0	19	REVILLA GIGEDO ISLANDS REGIDN
	06	21 11 38.3*	42.253	N	19.881	E	10	G			0.9	5	YUGOSLAVIA. ML 2.5 (TTG).
	06	21 17 07.6?	6.45	S	129.98	E	33	N			1.4	6	BANDA SEA
	06	22 01 34.4%	15.968	N	61.077	W	33	N			0.6	10	LEEWARD ISLANDS. ML 2.4 (FDF).
	06	22 59 28.5*	4.364	S	151.748	E	156	*	4.4		1.4	10	NEW BRITAIN REGION
	06	23 42 50.5?	29.56	S	73.33	W	10	G			1.1	11	OFF COAST OF CENTRAL CHILE
	07	00 53 07.0*	23.535	S	39.363	E	10	G	4.5		1.0	20	MOZAMBIQUE CHANNEL
	07	02 17 31.1	41.598	N	2.686	E	29				0.7	17	SPAIN. ML 3.2 (LDG).
	07	02 59 32.4%	40.500	N	28.423	E	10	G			1.2	9	TURKEY
	07	04 12 57.0*	40.142	N	76.987	E	64	*	4.3		1.1	11	KIRGHIZ-XINJIANG BORDER REGION. Felt (II) at Naryn, USSR.
	07	04 35 11.5*	43.071	N	13.332	E	10	G			0.3	5	CENTRAL ITALY. MD 2.3 (SSO).
	07	05 34 21.6*	39.698	N	72.094	E	33	N	4.6		1.1	15	KIRGHIZ SSR. Felt (V) at Daraut-Kurgan and (II) at Osh and Kyzl-Kiya.
a	07	06 23 56.0	14.906	N	119.872	E	38	*	5.0	5.2	1.0	45	LUZON, PHILIPPINE ISLANDS
	07	07 04 47.5*	24.017	N	121.438	E	10	G	3.9		1.4	6	TAIWAN
	07	08 48 54.5?	38.49	N	133.82	E	448	?	4.4		0.7	11	SEA OF JAPAN
	07	09 52 31.7?	5.60	S	129.78	E	33	N	4.3		1.4	7	BANDA SEA
	07	09 58 38.0	42.508	N	11.654	E	15				0.8	31	CENTRAL ITALY. MD 3.2 (FIR).
	07	10 37 15.8*	47.880	N	7.321	E	10	G			0.4	5	SWITZERLAND. MD 1.2 (STR).
	07	11 30 09.4	6.368	S	130.847	E	113	*	4.8		1.2	18	BANDA SEA
	07	12 48 13.1	24.842	N	127.786	E	33	N	4.9	4.2	1.1	35	RYUKYU ISLANDS REGION
	07	13 04 12.3*	25.707	N	95.218	E	33	N	4.4		0.8	7	BURMA-INDIA BORDER REGION
	07	13 38 04.0%	46.445	N	1.222	E	10	G			1.3	8	FRANCE. ML 2.4 (LDG).
	07	13 56 42.8	63.357	N	150.466	W	159	?			0.3	9	CENTRAL ALASKA
	07	14 51 16.7	42.883	N	12.892	E	10	G			0.8	6	CENTRAL ITALY
	07	15 15 48.7	30.762	N	50.086	E	39		4.6		1.0	97	IRAN. Several homes damaged at Behbehan and Tashan.
a	07	15 34 07.1	7.144	S	129.327	E	170		5.4		1.0	136	BANDA SEA
	07	15 47 17.8?	26.76	N	34.69	E	10	G			0.5	5	RED SEA
	07	17 20 18.5	19.413	N	62.764	W	25	*			0.7	17	LEEWARD ISLANDS. ML 4.1 (FDF).
	07	17 26 30.9	52.791	N	5.634	W	10	G			0.3	6	UNITED KINGDOM
	07	18 16 46.2?	20.15	N	62.40	W	33	N			0.2	9	NORTH ATLANTIC DCEAN. ML 3.9 (FDF).
	07	19 24 41.1	33.346	N	89.583	E	33	N	4.6		1.1	27	TIBET
a	07	19 24 47.3	10.182	N	125.521	E	136		5.3		1.1	101	LEYTE, PHILIPPINE ISLANDS
	07	20 02 18.6%	60.163	N	6.148	E	10	G			0.2	7	SOUTHERN NORWAY. MD 2.3 (BER).
	07	20 08 54.9?	38.32	N	72.91	E	33	N	4.2		0.7	9	TAJIK SSR
	07	22 26 42.9	30.425	N	138.503	E	427	D	5.2		0.8	151	SOUTH DF HONSHU, JAPAN. Felt (I JMA) at Utsunomiya.
	07	23 23 02.4*	26.686	N	98.243	E	33	N	4.5		0.2	5	BURMA-CHINA BORDER REGION
	08	00 22 55.3	37.842	N	116.122	W	5	G			0.3	35	SOUTHERN NEVADA. ML 3.0 (NEIS).
	08	01 05 27.3	34.923	N	139.152	E	10	G			0.5	6	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro.
	08	01 10 38.5	3.307	N	96.353	E	45		4.9		0.9	63	NORTHERN SUMATERA
	08	02 19 59.9	42.798	N	13.512	E	10	G			1.2	8	CENTRAL ITALY
	08	02 33 13.8	52.773	N	5.628	W	10	G			0.2	6	UNITED KINGDOM
	08	02 35 36.3	42.716	N	13.456	E	10	G			0.6	6	CENTRAL ITALY. MD 2.4 (SSO).
	08	02 43 11.8	52.777	N	5.632	W	10	G			0.2	6	UNITED KINGDOM
	08	03 26 01.7	34.970	N	139.174	E	10	G			0.2	7	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro and on Oshima.
	08	05 02 43.8?	16.32	N	100.86	W	33	N	4.0	3.7	0.7	5	NEAR COAST OF GUERRERO, MEXICO
a	08	05 04 28.0	13.760	N	120.577	E	94		5.4		1.0	195	MINDORO, PHILIPPINE ISLANDS. Felt (II RF) at Puerto Galera. Felt (V RF) in the Bataan Peninsula area, (IV RF) at Manila and (III RF) at Quezan City, Luzon.
	08	05 26 05.0?	44.24	N	18.80	E	10	G			0.7	7	YUGOSLAVIA. ML 3.0 (TTG).
	08	05 56 19.9?	4.89	S	102.38	E	33	N	4.7		0.8	7	SOUTHERN SUMATERA
	08	07 19 20.7?	39.61	N	23.78	E	10	G			0.4	5	AEGEAN SEA. MD 3.6 (ATH).
	08	08 34 59.1	48.159	N	153.156	E	69	D	4.6		0.7	30	KURIL ISLANDS
	08	08 37 38.3*	51.493	N	175.280	W	33	N	4.6		1.4	19	ANDREANOF ISLANDS, ALEUTIAN IS.
	08	08 55 27.7?	40.21	N	23.16	E	10	G			0.8	4	GREECE. MD 3.2 (ATH).
	08	09 09 42.6	33.765	N	137.070	E	352		4.8		0.7	119	NEAR S. COAST OF HONSHU, JAPAN
	08	10 57 09.1	55.405	N	162.363	W	33	N	4.7		0.8	36	ALASKA PENINSULA. ML 3.8 (PMR). Felt (IV) at Cold Bay and King Cove.
	08	11 07 28.5	55.384	N	162.503	W	33	N	4.7		1.0	62	ALASKA PENINSULA. ML 3.9 (PMR). Felt (IV) at Cold Bay and King Cove.
	08	11 55 01.5?	24.47	N	94.57	E	139	?	4.6		0.6	9	BURMA-INDIA BORDER REGION
	08	12 28 45.9	39.668	N	24.200	E	10	G			0.9	6	AEGEAN SEA. ML 3.2 (ATH).
	08	12 37 51.4	66.259	N	135.357	W	10	G			1.0	9	NORTHERN YUKON TERRITORY, CANADA
	08	13 35 14.7?	43.80	N	41.85	E	10	G	4.0		0.9	6	WESTERN CAUCASUS
a	08	13 37 31.6	56.268	N	153.559	W	15		4.8	4.8	0.9	95	KODIAK ISLAND REGION. ML 4.8 (PMR).
	08	14 31 53.8*	20.718	N	102.733	E	10	G			1.3	8	SOUTHEAST ASIA
	08	14 50 59.2?	43.80	N	7.61	E	10	G			0.2	5	NEAR SOUTH COAST OF FRANCE. MD 1.0 (STR).
	08	15 09 53.8&	37.894	N	111.230	W	15					25	UTAH. <SLC-P>. CL 2.8 (SLC). ML 2.9 (NEIS).
	08	16 14 22.7	25.382	N	95.001	E	96	*	4.8		1.2	29	BURMA-INDIA BORDER REGION
	08	16 27 28.3*	6.515	S	152.929	E	33	N			0.9	5	NEW BRITAIN REGION
a	08	17 15 05.1	7.941	S	128.375	E	81	D	5.3		1.1	82	BANDA SEA
	08	18 13 43.2	27.238	S	126.537	E	10	G			1.1	19	WESTERN AUSTRALIA
	08	19 44 33.5%	42.599	N	11.670	E	10	G			0.8	7	CENTRAL ITALY
	08	19 52 20.1?	42.70	N	13.20	E	10	G			0.9	4	CENTRAL ITALY. MD 2.0 (SSO).
a	08	19 59 31.8	63.673	N	2.397	E	10	G	5.7	5.3	1.3	393	NORWEGIAN SEA. Ms 5.4 (BRK). Felt widely in Norway and in Jamtland, Sweden.
	08	20 00 48.1*	44.573	N	8.759	E	10	G			1.0	6	NORTHERN ITALY. ML 2.6 (GEN), 2.4 (LDG).
	08	22 18 30.2*	42.916	S	85.835	W	10	G	4.9		1.1	14	WEST CHILE RISE
	08	23 36 14.4?	30.94	S	71.30	W	10	G			1.0	9	NEAR COAST OF CENTRAL CHILE
	09	01 44 28.8*	9.157	S	123.371	E	33	N	3.9		1.1	10	TIMOR
	09	01 47 14.7*	17.784	S	178.512	W	584		4.6		0.7	22	FIJI ISLANDS REGION
a	09	01 56 31.5*	44.769	S	35.379	E	30	D	5.1	5.1	1.4	30	PRINCE EDWARD ISLANDS REGION
	09	03 32 48.8%	41.615	N	13.858	E	10	G			0.4	6	SOUTHERN ITALY
	09	03 56 35.7	36.797	N	8.887	W	10	G			1.4	32	WEST OF GIBRALTAR. MG 3.8 (MDD).

	09	04	05	40.6?	20.73	S	69.44	W	136	?			1.5	6	NORTHERN CHILE
	09	07	15	00.6?	61.64	N	4.36	E	10	G			0.5	8	SOUTHERN NORWAY. MD 2.7 (BER).
	09	07	21	30.0	39.949	N	23.957	E	10	G	3.6		1.1	19	AEGEAN SEA. ML 3.6 (ATH).
	09	09	14	33.1?	44.17	N	7.49	E	10	G			0.3	7	NORTHERN ITALY. ML 2.5 (LDG), 2.1 (GEN).
	09	11	45	34.7*	19.065	N	145.443	E	200	*			0.2	10	MARIANA ISLANDS
	09	12	11	25.0%	41.401	N	14.554	E	10	G			1.1	5	SOUTHERN ITALY
	09	12	32	51.5	72.223	N	130.589	W	10	G	4.8		1.1	44	BEAUFORT SEA
	09	12	38	46.0*	47.535	N	146.837	E	414	?	4.3		0.7	14	NORTHWEST OF KURIL ISLANDS
	09	12	51	06.4%	41.487	N	14.831	E	10	G			0.7	6	SOUTHERN ITALY
	09	13	01	08.5*	60.544	N	4.538	E	0	G			1.5	7	SOUTHERN NORWAY. MD 2.1 (BER).
	09	13	57	26.9	44.995	N	74.955	W	10	G			0.7	14	NEW YORK. mbLg 3.5 (NEIS), 3.4 (OTT). Felt (III) at Chase Mills, Narwaad, Ogdensburg, Patsdam, Raymandville, Raaseveltawn, Waddingtan and West Stackholm, New Yark. Also felt at Massena, New Yark and Cornwall, Ontaria.
a	09	14	34	45.0	1.336	S	100.746	E	104		5.0		1.1	92	SOUTHERN SUMATERA
a	09	16	51	36.5	24.206	N	122.307	E	53		5.3	4.5	1.0	158	TAIWAN REGION
	09	17	35	41.5%	61.168	N	10.176	E	10	G			1.1	6	SOUTHERN NORWAY. MD 2.3 (BER).
	09	20	05	29.1	5.370	N	78.200	W	33	N	4.7	3.7	1.0	49	SOUTH OF PANAMA
	09	20	12	34.8	58.268	N	151.748	W	33	N	4.3		1.1	24	KODIAK ISLAND REGION. ML 4.8 (PMR). Felt (III) an Kadiak.
	09	23	07	52.9&	42.377	N	111.499	W	9					5	EASTERN IDAHO. <SLC-P>. CL 3.0 (SLC).
	10	01	46	16.3*	45.188	N	6.660	E	10	G			1.4	8	FRANCE. ML 2.1 (LDG).
	10	02	04	25.0	47.446	N	153.006	E	121	D	5.2		0.8	204	KURIL ISLANDS
	10	04	15	22.1?	46.01	N	2.92	E	10	G			0.2	4	FRANCE. ML 1.6 (LDG).
f	10	04	38	26.1	10.366	S	160.819	E	34	G	6.1	7.4	1.5	255	SOLOMON ISLANDS. Ms 7.4 (BRK), 7.1 (PAS). One person killed and about 100 hames washed away in 13 villages along the sauthwestern caast af San Cristabal where a tsunami flaaded 50-100 meters inland. Felt widely on Guadalcanal, San Cristabal, Malaita and neighbaring islands. Seventeen cm. tsunami (peak ta traugh) recarded at Haniara, Guadalcanal. Twa events abaut 10 secands apart. Depth fram braadband displacement seismagrams, based an secand event.
	10	04	50	56.0*	10.480	S	160.726	E	33	N	4.7		1.1	17	SOLOMON ISLANDS
	10	04	56	40.2	10.041	S	160.714	E	33	N	5.9		1.2	152	SOLOMON ISLANDS
	10	05	09	29.1*	10.431	S	160.927	E	33	N	5.0		0.7	13	SOLOMON ISLANDS
	10	05	15	41.4*	9.873	S	158.437	E	33	N	5.3		0.9	32	SOLOMON ISLANDS
	10	05	20	18.3*	10.014	S	160.810	E	33	N	5.1		0.6	10	SOLOMON ISLANDS
	10	05	22	36.0*	10.241	S	160.785	E	33	N	4.9		0.8	17	SOLOMON ISLANDS
	10	05	34	34.3*	9.926	S	161.312	E	33	N	4.7		0.7	9	SOLOMON ISLANDS
	10	06	17	13.7*	10.401	S	160.806	E	33	N	4.6		1.0	12	SOLOMON ISLANDS
	10	06	38	42.8	10.199	S	160.855	E	40	D	5.8	6.6	1.1	209	SOLOMON ISLANDS. Felt an Guadalcanal and San Cristabal.
	10	07	18	30.7*	9.801	S	160.174	E	33	N	5.2		1.5	23	SOLOMON ISLANDS
	10	07	20	43.2?	11.75	S	117.77	E	33	N			1.3	7	SOUTH OF SUMBAWA ISLAND
	10	08	29	35.1	10.308	S	160.835	E	33	N	4.8		1.2	65	SOLOMON ISLANDS
	10	09	03	19.2?	9.04	S	159.26	E	33	N	4.2		0.9	5	SOLOMON ISLANDS. Felt an Guadalcanal and San Cristobal.
	10	09	16	57.9*	16.776	S	172.691	W	33	N	4.8		1.2	21	SAMOA ISLANDS REGION
	10	09	24	30.9*	33.271	S	70.354	W	85	?			0.5	9	CHILE-ARGENTINA BORDER REGION
	10	09	30	59.1*	24.417	S	179.824	E	511	*	4.2		0.9	29	SOUTH OF FIJI ISLANDS
	10	10	04	22.8%	40.281	N	29.378	E	10	G			1.1	7	TURKEY
	10	10	34	32.6	10.143	S	160.484	E	36	*	5.6	5.3	1.1	102	SOLOMON ISLANDS. Ms 5.5 (BRK). Felt on Guadalcanal and San Cristabal.
	10	10	42	56.5*	10.445	S	160.688	E	33	N	4.7		1.4	27	SOLOMON ISLANDS. Felt at Honiara, Guadalcanal and an San Cristabal.
	10	10	59	05.4	36.998	N	71.618	E	126	D	4.9		0.9	120	AFGHANISTAN-USSR BORDER REGION. Felt (III) at Kharag, Kangurt, Komorau and Charsady; (II) at Dushanbe and Dzhirgotal, USSR.
a	10	11	46	46.6	28.194	S	112.648	W	10	G	5.9	5.9	1.0	223	EASTER ISLAND REGION. Ms 6.2 (PAS), 6.1 (BRK).
	10	11	54	48.2*	10.464	S	161.084	E	33	N	4.7	4.6	1.1	13	SOLOMON ISLANDS. Felt on western San Cristobal.
	10	12	34	30.1*	10.452	S	160.711	E	33	N	4.9		0.8	12	SOLOMON ISLANDS
	10	12	51	06.7*	10.504	S	160.855	E	33	N	4.6		1.0	12	SOLOMON ISLANDS
	10	12	58	49.0%	60.086	N	5.291	E	0	G			0.6	6	SOUTHERN NORWAY. MD 2.1 (BER). Prabable explosion.
a	10	13	11	19.4	14.880	S	167.293	E	125	G	6.2		1.1	404	VANUATU ISLANDS. mb 6.1 (PAS). Felt at Naumea, New Caledonia and an Guadalcanal and San Cristabal, Salaman Islands. Depth fram braadband displacement seismagrams.
	10	13	55	14.7%	40.979	N	31.189	E	10	G			1.1	6	TURKEY
	10	14	00	07.1?	15.06	S	167.34	E	160	?	4.5		1.0	35	VANUATU ISLANDS
	10	14	42	16.9*	39.887	N	23.683	E	10	G			1.4	7	AEGEAN SEA. ML 3.3 (ATH).
	10	15	16	01.7*	10.671	S	160.960	E	33	N	4.4		1.3	11	SOLOMON ISLANDS
	10	15	34	33.0	10.549	S	160.964	E	33	N	4.9	5.4	1.4	80	SOLOMON ISLANDS. Felt on Guadalcanal and San Cristabal.
	10	15	52	25.9	42.988	S	85.811	W	10	G	5.4	5.2	1.1	99	WEST CHILE RISE
	10	17	03	27.6&	38.838	N	122.792	W	3					19	NORTHERN CALIFORNIA. <BRK>. ML 3.7 (BRK). Mo=2.0*10**14 Nm (BRK).
	10	17	14	17.4	36.429	N	117.977	W	5	G			0.7	11	CALIFORNIA-NEVADA BORDER REGION. MD 2.8 (REN).
	10	17	52	18.5?	10.79	S	161.29	E	33	N	4.3		1.0	6	SOLOMON ISLANDS
	10	18	17	01.0	38.455	N	15.072	E	10	G			0.6	6	SICILY
	10	18	18	55.9?	9.85	S	161.32	E	33	N	3.9		0.7	4	SOLOMON ISLANDS
	10	18	24	51.3	36.413	N	117.988	W	5	G			0.6	54	CALIFORNIA-NEVADA BORDER REGION. ML 4.6 (BRK), 3.6 (PAS). Felt (II) at Olancha, California.
	10	18	27	01.6	36.419	N	117.990	W	5	G			0.6	28	CALIFORNIA-NEVADA BORDER REGION. ML 3.8 (BRK), 3.2 (PAS).
	10	18	30	17.8	36.471	N	117.996	W	5	G			0.6	13	CALIFORNIA-NEVADA BORDER REGION. ML 2.9 (NEIS).
	10	19	24	04.3*	10.505	S	160.389	E	33	N	4.7	5.0	1.4	24	SOLOMON ISLANDS. Felt an Guadalcanal and western San Cristobal.
	10	20	29	51.4	36.323	N	71.108	E	100	*	4.7		1.0	58	AFGHANISTAN-USSR BORDER REGION
a	10	21	19	13.1	10.175	S	160.519	E	42	*	5.2	5.3	1.1	112	SOLOMON ISLANDS. Felt an Guadalcanal and San Cristobal.
	10	21	28	23.6%	40.354	N	29.346	E	10	G			0.6	7	TURKEY
	10	21	31	07.2%	37.783	N	25.390	W	10	G			0.8	5	AZORES ISLANDS
a	10	22	41	25.9*	10.669	S	161.025	E	33	N	4.8	5.0	1.3	24	SOLOMON ISLANDS. Felt an western San Cristabal.
	10	23	25	02.0*	39.959	N	23.968	E	10	G			0.8	6	AEGEAN SEA. ML 3.2 (ATH).
	11	00	07	03.3	42.329	N	16.617	E	10	G			1.1	23	ADRIATIC SEA
	11	01	28	17.8*	10.266	S	160.236	E	33	N	4.7	4.9	1.0	10	SOLOMON ISLANDS. Felt an southeastern Guadalcanal.

	11	01	34	17.1	10.863	N	62	454	W	33	N			0.4	21	NEAR COAST OF VENEZUELA ML 4.4 (FDF). Felt (II) at Port of Spain, Trinidad.
	11	01	43	14.3?	10.89	N	62.13		W	33	N			0.4	6	NEAR COAST OF VENEZUELA
a	11	03	05	40.5	49.224	N	28.379		W	10	G	5.4	5.2	1.0	311	NORTH ATLANTIC RIDGE
	11	03	27	29.2?	34.87	N	136.25		E	10	G			1.0	4	SOUTHERN HONSHU, JAPAN. Felt (II JMA) at Tsu and (I JMA) at Nagoya and Kyata.
	11	03	28	38.3	15.329	S	167.506		E	170	*	5.2		1.1	68	VANUATU ISLANDS
a	11	03	40	57.4	21.894	N	121.351		E	38		5.4	4.9	1.1	172	TAIWAN REGION
	11	04	09	55.0?	10.02	S	160.47		E	73	?	4.0		0.2	7	SOLOMON ISLANDS
	11	05	00	13.9	37.371	N	70.040		E	76	*	5.1		1.2	131	AFGHANISTAN-USSR BORDER REGION. Felt (III) at Kulyab and Kharag, USSR.
	11	05	05	56.5*	15.180	N	60.390		W	51	?	4.6		0.8	14	LEEWARD ISLANDS
	11	05	14	45.3?	51.25	N	179.37		W	33	N	4.4		0.6	9	ANDREANOF ISLANDS, ALEUTIAN IS.
	11	07	02	53.8	42.351	N	16.679		E	10	G			1.0	39	ADRIATIC SEA. ML 3.1 (TTG).
	11	07	05	19.8*	86.067	N	78.965		E	10	G	4.4		1.0	16	NORTH OF SEVERNAYA ZEMLYA
	11	08	00	50.6	42.023	N	125.400		W	10	G	4.6		0.8	106	OFF COAST OF OREGON
	11	08	29	31.5?	14.95	N	60.46		W	33	N			0.2	6	WINDWARD ISLANDS. ML 2.9 (FDF).
	11	08	49	22.8	39.983	N	23.936		E	10	G			1.4	14	AEGEAN SEA. ML 3.3 (ATH).
	11	09	27	33.1*	44.532	N	6.972		E	10	G			0.2	5	FRANCE. ML 2.2 (GEN).
	11	09	52	49.6*	47.715	N	7.303		E	10	G			1.6	6	SWITZERLAND. ML 2.5 (LDG).
	11	09	53	47.9	49.198	N	28.429		W	10	G	4.8	4.4	1.1	94	NORTH ATLANTIC RIDGE
	11	10	04	24.3	39.922	N	23.996		E	9				1.0	13	AEGEAN SEA. ML 3.3 (ATH).
	11	11	03	18.7*	23.079	S	64.702		W	33	N			1.1	5	JUJUY PROVINCE, ARGENTINA
	11	12	04	56.3?	58.69	N	5.59		E	10	G			1.1	6	SOUTHERN NORWAY. MD 2.3 (BER).
	11	12	28	22.9%	39.719	N	29.366		E	10	G			0.7	6	TURKEY
	11	12	45	52.4	39.915	N	23.907		E	10	G	4.1		1.4	31	AEGEAN SEA. ML 3.7 (ATH).
	11	12	56	21.9	39.911	N	23.905		E	10	G			1.4	9	AEGEAN SEA. ML 3.4 (ATH).
a	11	13	29	20.6	18.062	S	65.418		E	10	G	5.5	5.6	1.5	198	MASCARENE ISLANDS REGION
	11	13	44	15.0?	10.36	S	160.42		E	30	*	4.9		1.1	7	SOLOMON ISLANDS
	11	14	09	06.0	42.819	S	85.553		W	10	G	5.4	5.5	1.1	58	WEST CHILE RISE
	11	15	33	32.4	43.512	N	10.114		E	10	G			1.0	66	CENTRAL ITALY. MD 3.7 (FIR). ML 3.5 (LDG). Felt in the Livorna-Pisa area.
	11	15	41	31.3%	60.695	N	5.620		E	0	G			0.5	7	SOUTHERN NORWAY. MD 2.5 (BER). Prabable explasian.
	11	15	54	39.0%	46.848	N	0.303		W	10	G			1.3	14	FRANCE. ML 2.9 (LDG).
a	11	16	00	07.5	29.971	N	51.575		E	32		5.3	5.6	1.2	312	SOUTHERN IRAN. Damage in the Mamasani area. Felt at Bushehr and Nurabad.
a	11	16	04	45.6	29.974	N	51.679		E	33	N	5.7	6.1	1.3	288	SOUTHERN IRAN. One persan killed, several injured and more than 2,000 hauses damaged in the Mamasani area. Felt at Bushehr, Nurabad and Shiraz.
	11	16	39	58.8	29.935	N	51.518		E	33	N	4.7		1.0	91	SOUTHERN IRAN
	11	16	57	27.7	29.938	N	51.686		E	33	N	4.3		1.2	40	SOUTHERN IRAN
	11	17	57	25.0?	30.28	N	52.12		E	33	N	4.4		1.0	9	IRAN
	11	20	54	06.0	38.273	N	20.407		E	10	G	3.4		1.3	17	GREECE. ML 4.0 (ATH).
	11	21	35	55.1*	10.796	S	120.080		E	63	?	4.3		1.2	7	SUMBA ISLAND REGION
	11	21	52	17.9	29.850	N	51.499		E	33	N	4.5		1.1	91	SOUTHERN IRAN
	12	00	02	58.3	42.331	N	19.835		E	10	G			0.8	6	YUGOSLAVIA. ML 2.4 (TTG).
a	12	01	53	07.4*	8.305	N	103.043		W	10	G	4.7	4.7	1.0	37	OFF COAST OF MEXICO
	12	01	57	01.9	53.098	N	167.053		W	33	N	4.6		1.1	82	FOX ISLANDS, ALEUTIAN ISLANDS. ML 5.1 (PMR).
	12	02	17	41.7*	7.090	S	131.542		E	58	?	4.4	4.3	1.5	21	TANIMBAR ISLANDS REGION
	12	02	53	36.2*	10.369	S	160.790		E	32	*	4.2		0.5	10	SOLOMON ISLANDS. Felt an southeastern Guadalcanal.
	12	03	07	10.8	42.234	N	19.958		E	10	G			0.7	13	YUGOSLAVIA. ML 2.8 (TTG).
	12	04	05	26.0*	53.735	N	164.085		W	33	N	4.6	4.0	1.0	14	UNIMAK ISLAND REGION
	12	05	11	33.9*	33.333	S	71.859		W	23	*			1.3	13	NEAR COAST OF CENTRAL CHILE
a	12	05	14	54.1	35.021	N	139.804		E	70		5.2		1.0	234	NEAR S. COAST OF HONSHU, JAPAN. Felt (IV JMA) at Tateyama, Takya and Yakahama; (III JMA) at Ajira, Mishima, Kawaguchi-ko and an Oshima; (II JMA) in the Kofu-Mita-Maebashi area and an Hachijo-jima.
	12	05	20	51.8?	51.76	N	179.15		E	33	N	5.0		0.6	9	RAT ISLANDS, ALEUTIAN ISLANDS
	12	05	32	45.1	14.093	N	92.277		W	66		4.8		1.0	106	NEAR COAST OF CHIAPAS, MEXICO
	12	06	57	09.9*	14.024	N	124.589		E	33	N	4.7		1.4	22	LUZON, PHILIPPINE ISLANDS
	12	07	52	57.3?	18.80	N	65.74		W	33	N			0.2	5	PUERTO RICO REGION
	12	07	56	52.3	1.997	N	127.364		E	113	*	5.2		1.0	62	HALMAHERA
	12	08	23	24.4*	29.792	N	51.652		E	33	N	4.4		1.4	13	SOUTHERN IRAN
	12	09	52	38.0%	44.297	N	7.514		E	10	G			0.4	5	NORTHERN ITALY. MD 1.0 (STR).
	12	10	14	29.1	9.998	S	160.410		E	39	*	4.7	3.9	1.0	23	SOLOMON ISLANDS
	12	10	58	59.8	39.981	N	23.996		E	10	G			1.2	10	AEGEAN SEA. ML 3.2 (ATH).
	12	11	38	16.0?	61.84	N	7.51		E	10	G			1.3	6	SOUTHERN NORWAY. MD 2.5 (BER).
	12	12	11	54.3&	46.844	N	121.920		W	11					54	WASHINGTON. <SEA>. CL 3.0 (SEA).
	12	12	18	05.1*	39.503	N	25.972		E	10	G			1.4	6	AEGEAN SEA
	12	13	01	31.1%	60 368	N	5.318		E	0	G			0.6	6	SOUTHERN NORWAY. MD 2.2 (BER). Prabable explasian.
	12	13	32	10.8*	36.467	S	72.395		W	59	*	5.0		1.0	47	NEAR COAST OF CENTRAL CHILE
	12	14	02	20.8*	36.514	N	71.373		E	33	N	4.4		1.1	10	AFGHANISTAN-USSR BORDER REGION
	12	14	40	57.8&	36.200	N	120.400		W	10					20	CENTRAL CALIFORNIA. <BRK>. ML 3.1 (BRK).
	12	15	28	00.3?	62.33	N	5.26		E	10	G			0.4	6	SOUTHERN NORWAY. MD 2.7 (BER).
	12	15	34	31.4*	43.417	N	13.030		E	10	G			0.8	5	CENTRAL ITALY
	12	15	54	39.0%	46.848	N	0.303		W	10	G			1.3	14	FRANCE. ML 2.9 (LDG).
	12	16	01	37.1%	60.425	N	4.907		E	0	G			0.8	5	SOUTHERN NORWAY. MD 2.3 (BER). Prabable explasian.
	12	16	59	13.2%	61.083	N	9.398		E	10	G			0.5	5	SOUTHERN NORWAY. MD 2.5 (BER).
	12	17	30	18.3*	0.040	S	125.060		E	73	*	4.6		1.2	11	MOLUCCA SEA
	12	18	49	53.9%	37.709	N	15.010		E	10	G			0.5	8	SICILY
	12	18	58	32.3	39.646	N	74.516		E	33	N	5.0	5.0	0.9	221	SOUTHERN XINJIANG, CHINA. Fareshack.
a	12	18	58	47.7	39.674	N	74.582		E	33	N	5.7		1.2	100	SOUTHERN XINJIANG, CHINA. Felt (IV) at Sufi-Kurgan, (III) at Andizhan and (II) at Osh and Naryn, USSR.
	12	19	37	10.8&	40.663	N	125.237		W	11		4.3			35	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 4.1 (BRK).
	12	19	42	59.9	52.384	N	160.528		E	33	N	4.8	4.7	1.0	64	OFF EAST COAST OF KAMCHATKA
	12	20	19	47.2?	18.84	N	65.66		W	33	N			0.1	6	PUERTO RICO REGION
	12	20	44	40.9?	18.84	N	65.65		W	33	N			0.2	6	PUERTO RICO REGION
	12	21	35	27.5*	10.716	S	160.732		E	39	*	4.6		0.6	14	SOLOMON ISLANDS
	12	21	56	54.3*	42.793	N	145.432		E	51	*	4.7		1.0	13	HOKKAIDO, JAPAN REGION. Felt (II JMA) at Nemura.
	12	22	53	57.3	10.382	S	160.942		E	36		4.7		1.0	23	SOLOMON ISLANDS. Felt at Haniara, Guadalcanal.
	12	23	13	34.3?	36.40	S	71.20		W	33	N			1.0	12	CENTRAL CHILE
	13	01	44	00.7	39.977	N	23.993		E	10	G			1.2	9	AEGEAN SEA. ML 3.1 (ATH).
	13	01	48	45.5	42.231	N	19.967		E	10	G			0.7	9	YUGOSLAVIA. ML 2.4 (TTG).

	13	02	23	45	8&	37.850	N	121.788	W	10				11	CENTRAL CALIFORNIA. <BRK> ML 2.9 (BRK). Mo=3.6•10••13 Nm (BRK).
	13	02	27	22.8		38.395	N	116.428	W	5	G		0.2	6	NEVADA. MD 2.8 (REN).
	13	02	31	24.7		42.260	N	19.974	E	10	G		0.7	9	YUGOSLAVIA. ML 2.4 (TTG).
a	13	05	46	15.1		4.777	N	125.740	E	143		5.6	1.1	147	TALAUD ISLANDS
	13	07	26	22.1		39.927	N	23.944	E	26		4.3	1.4	61	AEGEAN SEA. ML 4.0 (ATH).
	13	07	29	36.1		39.992	N	24.007	E	10	G		1.3	13	AEGEAN SEA. ML 3.4 (ATH).
	13	07	50	00.0•		16.575	N	94.990	W	87	•	3.7	1.0	11	OAXACA, MEXICO
	13	08	01	22.9		40.032	N	23.900	E	10	G		1.3	12	GREECE. ML 3.1 (ATH).
	13	08	24	32.8•		43.559	N	15.647	E	10	G		1.2	5	ADRIATIC SEA
	13	08	25	56.6?		19.37	N	66.71	W	33	N		0.2	5	PUERTO RICO REGION
	13	09	50	44.4?		38.74	N	20.04	E	10	G		0.9	5	GREECE
	13	10	32	21.7•		29.930	N	51.683	E	33	N	4.0	1.5	15	SOUTHERN IRAN
	13	10	53	00.5?		5.11	S	103.98	E	134	•	4.5	1.3	9	SOUTHERN SUMATERA
	13	10	53	56.6•		39.939	N	24.045	E	10	G		1.2	7	AEGEAN SEA. ML 3.1 (ATH).
	13	12	14	47.2		42.381	N	2.253	E	10	G		1.2	11	PYRENEES. ML 3.0 (LDG).
a	13	12	36	21.6•		16.518	S	167.251	E	33	N	5.3	1.4	67	VANUATU ISLANDS
	13	12	50	05.5%		37.702	N	14.988	E	10	G		0.8	13	SICILY
	13	14	07	35.7		39.941	N	23.977	E	10	G		1.0	14	AEGEAN SEA. ML 3.2 (ATH).
a	13	14	16	20.8		18.512	S	175.641	W	33	N	4.9 5.3	1.2	69	TONGA ISLANDS
	13	14	28	28.1		5.733	S	146.899	E	105		5.1	1.2	44	EAST PAPUA NEW GUINEA REGION
	13	14	33	34.6•		35.707	N	75.927	E	33	N	4.2 4.7	1.2	15	EASTERN KASHMIR
	13	15	17	42.1		40.089	N	23.903	E	10	G		1.0	11	GREECE. ML 3.3 (ATH).
	13	15	31	23.2		39.994	N	23.943	E	10	G		1.3	14	AEGEAN SEA. ML 3.2 (ATH).
	13	15	31	45.5%		34.911	N	139.137	E	10	G		0.3	6	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro.
	13	15	40	53.0		40.228	N	23.871	E	10	G		1.3	7	GREECE. MD 3.0 (ATH).
	13	16	02	23.1•		9.926	S	159.885	E	33	N	4.6	1.3	10	SOLOMON ISLANDS. Felt at Honiara, Guadalcanal.
a	13	16	20	26.0		10.009	S	160.064	E	33	N	5.2 4.8	1.1	59	SOLOMON ISLANDS. Felt at Honiara, Guadalcanal.
	13	16	46	24.5		29.936	N	51.620	E	21	•	4.6 4.4	1.0	137	SOUTHERN IRAN
	13	17	19	44.9		44.221	N	129.350	W	10	G	4.6	0.7	67	OFF COAST OF OREGON
	13	17	48	51.9		39.958	N	23.993	E	5			1.0	24	AEGEAN SEA. ML 3.6 (ATH).
	13	18	06	36.3&		60.014	N	146.674	W	14				35	SOUTHERN ALASKA. <AGS-P>. ML 4.1 (PMR).
	13	18	42	13.1&		60.015	N	146.634	W	16				36	SOUTHERN ALASKA. <AGS-P>. ML 3.6 (PMR).
	13	18	43	51.4&		60.032	N	146.620	W	15		4.9 4.5		167	SOUTHERN ALASKA. <AGS-P>. ML 4.7 (PMR). Felt (III) at Chenega Bay, (II) at Valdez and (I) at Saldatna.
	13	19	05	57.7&		60.009	N	146.654	W	15				32	SOUTHERN ALASKA. <AGS-P>.
a	13	19	59	51.1		25.320	N	95.156	E	92		5.0	0.9	164	BURMA-INDIA BORDER REGION
	13	20	55	48.5%		37.533	N	2.390	W	10	G		1.5	6	SPAIN. MG 2.9 (MDD).
	13	21	15	37.0&		60.017	N	146.644	W	14				36	SOUTHERN ALASKA. <AGS-P>. ML 3.4 (PMR).
	13	23	01	00.2•		42.538	N	17.759	E	10	G		1.2	8	ADRIATIC SEA
	14	00	39	29.7•		33.309	S	72.255	W	33	N		1.3	12	OFF COAST OF CENTRAL CHILE
	14	01	01	27.8		42.276	N	19.908	E	10	G		0.6	10	YUGOSLAVIA. ML 2.5 (TTG).
	14	01	59	43.6?		31.51	S	71.24	W	33	N		1.2	11	NEAR COAST OF CENTRAL CHILE
	14	02	20	44.7		20.126	N	156.615	W	33	N	4.3	0.6	60	HAWAII. ML 4.4 (HVO). Felt (V) on Molokai and (IV) on Hawaii, Lanai, Maui and Oahu.
	14	02	46	41.0		52.001	N	31.391	W	10	G	4.7 4.2	0.8	66	NORTH ATLANTIC RIDGE
	14	02	56	17.1		46.089	N	13.483	E	10	G		1.1	18	AUSTRIA. MD 2.9 (TRI). ML 2.7 (KBA).
	14	03	14	19.1?		31.74	N	50.41	E	33	N	4.3	0.7	8	IRAN
	14	04	49	42.5		38.647	N	20.531	E	10	G	3.5	1.5	23	GREECE. ML 3.9 (ATH).
	14	04	57	09.2•		51.131	N	179.306	E	33	N	4.5	1.1	18	RAT ISLANDS, ALEUTIAN ISLANDS
	14	05	28	09.5%		38.464	N	14.731	E	12			0.9	10	SICILY
	14	05	51	37.3•		39.852	N	24.005	E	10	G		1.2	11	AEGEAN SEA. ML 3.1 (ATH).
	14	06	10	50.0%		38.413	N	15.084	E	16	•		0.3	7	SICILY
	14	07	07	22.5•		20.992	S	68.839	W	33	N		1.1	6	CHILE-BOLIVIA BORDER REGION
	14	07	17	47.5		63.045	N	150.385	W	131	?		0.4	9	CENTRAL ALASKA
	14	07	26	01.0		40.586	N	20.299	E	15		3.5	1.0	30	GREECE-ALBANIA BORDER REGION. ML 4.1 (ATH).
	14	09	04	45.5•		7.137	N	79.510	W	33	N	4.4 4.3	1.3	26	SOUTH OF PANAMA. MD 4.5 (UPA).
	14	09	10	31.5•		52.043	N	173.272	W	33	N	4.2	0.5	16	ANDREANOF ISLANDS, ALEUTIAN IS.
	14	09	17	54.7?		47.53	N	152.25	E	33	N	4.8	0.9	13	KURIL ISLANDS
	14	09	29	12.5%		40.256	N	27.361	E	10	G		0.7	6	TURKEY
	14	09	29	20.3%		38.464	N	15.068	E	10	G		0.3	7	SICILY
a	14	10	56	57.5		54.618	N	152.678	E	645	D	5.4	0.9	484	SEA OF OKHOTSK
	14	11	56	44.0?		47.84	N	146.54	E	391	?	3.9	0.4	10	NORTHWEST OF KURIL ISLANDS
	14	12	08	56.8•		6.892	N	73.163	W	162	?	4.6	0.7	11	NORTHERN COLOMBIA
a	14	13	11	43.4		21.845	S	69.997	W	72	D	5.1	1.1	83	NORTHERN CHILE
	14	14	45	44.1%		37.739	N	29 062	E	10	G		0.8	7	TURKEY
	14	14	58	24.2		7.064	N	79.616	W	33	N	4.5	1.3	33	SOUTH OF PANAMA. MD 4.5 (UPA).
	14	15	51	29.2%		38.442	N	15.068	E	13			0.2	8	SICILY
	14	16	45	11.0?		10.08	S	161.05	E	33	N	4.4	1.4	9	SOLOMON ISLANDS
	14	16	56	39.6		39.945	N	23.928	E	8			1.2	21	AEGEAN SEA. ML 3.5 (ATH).
	14	17	37	21.2•		5.284	S	129.790	E	225	•	4.9	1.3	10	BANDA SEA
	14	17	48	03.0•		33.162	S	71.907	W	50	•	4.9	1.4	38	NEAR COAST OF CENTRAL CHILE
	14	17	50	52.2		22.837	N	99.740	E	33	N	4.7	1.4	32	BURMA-CHINA BORDER REGION
f	14	17	53	09.7		27.260	S	71.092	W	33	G	5.7 6.5	1.0	308	NEAR COAST OF NORTHERN CHILE. Ms 6.5 (BRK), 6.1 (PAS). Felt (VI) at Caldera and Atacama, (V) at Copiapo, (IV) at Freirina and Valparaiso, (III) at Santiago and (II) at Linares. Depth from broadband displacement seismograms.
	14	17	57	37.3•		9.462	S	119.248	E	33	N	5.0	1.3	9	SUMBA ISLAND REGION
	14	18	08	30.7•		3.002	S	134.541	E	33	N	4.9	0.8	9	WEST IRIAN REGION
	14	18	55	27.1		5.227	S	153.637	E	76		5.3	1.0	49	NEW IRELAND REGION
	14	18	58	36.7&		39.130	N	110.865	W	9				23	UTAH. <SLC-P>. ML 2.9 (SLC).
	14	19	07	58.8&		39.131	N	110.870	W	9				39	UTAH. <SLC-P>. ML 3.8 (SLC). Felt (IV) at Clawson and Orangeville.
	14	19	12	54.4&		39.144	N	110.878	W	2				16	UTAH. <SLC-P>. ML 2.7 (SLC).
	14	19	14	43.5&		39.136	N	110.876	W	1				16	UTAH. <SLC-P>. ML 2.6 (SLC).
	14	19	36	48.1		39.980	N	23.884	E	10	G	3.9	1.5	23	AEGEAN SEA. ML 3.4 (ATH).
	14	19	44	32.7?		33.34	S	71.76	W	33	N		0.6	6	NEAR COAST OF CENTRAL CHILE
	14	19	54	01.3&		39.135	N	110.874	W	1				17	UTAH. <SLC-P>. CL 2.7 (SLC).
	14	19	55	27.0		39.926	N	23.997	E	10	G		1.5	11	AEGEAN SEA. ML 3.2 (ATH).
	14	20	03	03.9&		39.128	N	110.869	W	10		5.5		267	UTAH. <SLC-P>. ML 5.3 (SLC). Slight damage (VI) at Clawson, Cleveland, Elmo, Ferron, Orangeville and Sunnyside. Felt (V) at Axtell, East Carbon, Fairview,

Green River, Helper, Huntington, Hiawotho, Kenilworth, Moab, Spring City, Teosdale and Wellington. Felt (IV) at Cisco, Fountain Green, Hanksville, La Sal, Lyman, Lynndyl, Manti, Price, Spanish Fork, Torrey and Vernal. Also felt (IV) at Dove Creek, Fruita, Grand Junction, Loma and Mack, Colorado. Landslides in the epicentral area and at Canyonlands National Park. Felt throughout much of central and southern Utah and western Colorado. Felt as far as Golden, Colorado and Albuquerque, New Mexico.

	14	20	43	57.4?	39.07	N	26.16	E	10	G			1.0	5	TURKEY
	14	21	06	03.2	39.925	N	23.974	E	10	G			0.9	7	AEGEAN SEA. ML 3.3 (ATH).
	14	21	57	39.1?	43.51	N	20.38	E	10	G			1.4	8	YUGOSLAVIA. ML 2.5 (TTG).
	14	22	19	25.1	62.121	N	149.580	W	79	*			0.9	12	CENTRAL ALASKA
	14	22	22	12.3?	16.89	S	172.79	W	33	N	4.5		1.4	16	SAMOA ISLANDS REGION
	14	23	01	53.3?	48.01	N	1.88	W	10	G			0.3	5	FRANCE. ML 2.8 (LDG).
	15	00	20	42.1?	16.47	N	99.99	W	16	*			1.1	8	NEAR COAST OF GUERRERO, MEXICO
	15	00	56	50.7*	10.797	S	161.131	E	33	N	4.1		0.5	7	SOLOMON ISLANDS
	15	02	00	14.4*	7.043	N	126.938	E	75	?	4.4		1.4	17	MINDANAO, PHILIPPINE ISLANDS
	15	02	37	56.0&	38.040	N	118.780	W	11					7	CALIFORNIA-NEVADA BORDER REGION. <REN>. MD 2.8 (REN).
	15	03	48	34.3	45.171	N	7.290	E	10	G			0.2	10	NORTHERN ITALY. ML 2.4 (GEN).
	15	04	12	25.2	42.988	N	144.843	E	85		4.9		0.8	23	HOKKAIDO, JAPAN REGION. Felt (II JMA) at Nemuro and Kushira.
	15	04	13	33.7*	31.934	S	121.892	E	10	G			0.2	5	WESTERN AUSTRALIA
	15	05	47	50.3	44.822	N	6.821	E	10				0.5	30	FRANCE. ML 2.8 (LDG), 2.6 (GEN).
	15	06	00	57.6*	35.366	N	3.718	W	10	G			0.9	5	STRAIT OF GIBRALTAR
	15	06	47	53.5?	16.14	S	172.92	W	33	N	4.9	4.8	1.5	32	SAMOA ISLANDS REGION
	15	07	47	09.3	37.924	N	29.344	E	11				1.1	20	TURKEY. MG 4.2 (HLW).
	15	07	53	14.7%	17.841	N	66.197	W	33	N			0.8	6	PUERTO RICO REGION
	15	08	24	50.6?	38.88	N	0.51	W	10	G			0.9	4	SPAIN. MG 2.7 (MDD).
	15	08	27	56.9?	10.18	S	162.18	E	123	?	4.3		1.1	6	SOLOMON ISLANDS
	15	08	37	45.7?	61.19	N	10.27	E	10	G			0.8	4	SOUTHERN NORWAY. MD 2.0 (BER).
	15	09	40	55.7	7.477	N	36.261	W	10	G	4.8		1.0	59	CENTRAL MID-ATLANTIC RIDGE
a	15	09	59	24.0	8.757	N	126.341	E	52	D	5.6		1.3	206	MINDANAO, PHILIPPINE ISLANDS. Ms 5.7 (BRK). Felt (VII RF) at Hinatuan and Surigao, (VI RF) at Bislig and (V RF) at Davao.
	15	11	08	42.4%	42.736	N	18.464	E	10	G			0.6	8	YUGOSLAVIA. ML 2.3 (TTG).
	15	12	09	00.9%	60.733	N	4.509	E	0	G			0.8	6	SOUTHERN NORWAY. MD 2.4 (BER). Probable explosion.
a	15	14	25	24.6	9.467	S	117.355	E	67	*	5.1		1.3	77	SUMBAWA ISLAND REGION. Felt (V) at Kahang-Kahang, Bali. Also felt at Denpasar, Bali.
	15	14	50	23.5&	39.126	N	110.874	W	7					24	UTAH. <SLC-P>. ML 3.0 (SLC).
	15	14	59	36.9*	57.013	N	143.133	W	10	G			1.1	8	GULF OF ALASKA. ML 3.9 (PMR).
	15	15	49	51.9*	31.822	S	69.363	W	138	?			1.1	14	SAN JUAN PROVINCE, ARGENTINA
	15	15	59	01.5*	10.245	S	160.417	E	33	N	4.4		0.9	9	SOLOMON ISLANDS
	15	16	52	18.9&	39.133	N	110.882	W	3					21	UTAH. <SLC-P>. CL 2.7 (SLC).
	15	16	54	47.2?	37.08	N	17.06	E	22				0.5	7	IONIAN SEA
	15	17	32	27.5	7.522	N	136.800	E	33	N	4.7	4.4	1.4	48	WEST CAROLINE ISLANDS
	15	18	14	33.5?	6.51	S	147.10	E	94	*	4.1		1.2	8	EAST PAPUA NEW GUINEA REGION
	15	18	47	38.2	35.778	N	31.147	E	33	N			1.2	15	CYPRUS
	15	18	52	35.8	44.536	N	7.037	E	10	G			0.8	21	NORTHERN ITALY. ML 2.8 (LDG), 2.7 (GEN).
	15	19	15	12.1?	17.51	S	179.59	W	576		4.8		1.1	45	FIJI ISLANDS REGION
	15	19	48	46.9	10.240	S	160.478	E	33	*	4.9	4.7	1.1	41	SOLOMON ISLANDS. Felt (II) at Honiara, Guodalcanal.
	15	19	58	50.2	37.737	N	29.053	E	10	G			0.9	8	TURKEY
	15	22	10	41.5*	40.136	N	23.828	E	10	G			1.3	8	GREECE. MD 3.3 (ATH).
	15	22	35	36.8*	19.713	S	133.873	E	5	G			1.2	5	NORTHERN TERRITORY, AUSTRALIA. ML 3.6 (QIS).
	15	23	50	04.7	40 045	N	24.025	E	5	G			1.5	5	AEGEAN SEA. MD 3.1 (ATH).
	16	00	11	49.2&	36.405	N	121.017	W	8					13	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).
	16	00	43	54.4*	8.329	S	120.608	E	48	?	3.9		1.1	11	FLORES ISLAND REGION
	16	01	04	49.4%	43.367	N	12.550	E	10	G			0.9	6	CENTRAL ITALY
	16	01	29	28.4	44.870	N	17.359	E	19				1.2	30	YUGOSLAVIA. ML 3.6 (ZAG), 3.5 (VKA), 3.4 (TTG).
	16	01	51	02.3	44.857	N	17.429	E	10	G			1.3	18	YUGOSLAVIA. ML 3.4 (ZAG), 3.4 (VKA).
	16	02	13	49.2&	39.134	N	110.870	W	8					17	UTAH. <SLC-P>. CL 2.9 (SLC).
	16	02	52	11.6	40 061	N	23.968	E	10	G			1.3	13	GREECE. ML 3.4 (ATH).
	16	03	49	40.6	10 263	S	160.832	E	40	*	4.8	4.8	0.9	52	SOLOMON ISLANDS. Felt on southeastern Guadalcanal.
	16	04	20	45.5*	16 642	N	99.247	W	44	?	4.3		1.1	28	NEAR COAST OF GUERRERO, MEXICO
	16	04	27	01.3*	19.955	S	69.644	W	117	*	3.9		1.5	23	NORTHERN CHILE
	16	05	02	09.7*	31.144	S	72.826	W	33	N			1.0	8	OFF COAST OF CENTRAL CHILE
	16	05	25	41.3*	24.283	S	66.757	W	33	N			1.7	7	SALTA PROVINCE, ARGENTINA
	16	05	38	03.8*	39.804	N	23.212	E	10	G			1.6	5	AEGEAN SEA. MD 3.4 (ATH).
	16	05	45	06.7&	37 564	N	117.194	W	15					2	CALIFORNIA-NEVADA BORDER REGION. <REN>. MD 2.8 (REN).
	16	07	16	14.4&	38.322	N	122.195	W	7					9	NORTHERN CALIFORNIA. <BRK>. ML 2.2 (BRK). Felt at Napa.
	16	07	35	03.4	44 472	N	9.826	E	16				0.9	87	NORTHERN ITALY. ML 4.0 (KBA), 3.9 (LDG). MD 3.7 (FIR).
	16	07	36	30.4?	15 43	S	71.85	W	159	*			1.4	15	SOUTHERN PERU
	16	07	48	32.9%	37.126	N	3.954	W	10	G			1.2	6	SPAIN
a	16	08	46	18.9*	36 774	S	78.824	E	10	G	5.3	5.6	1.1	33	MID-INDIAN RISE
	16	09	41	38.1*	27.407	S	67.354	W	125	*	4.5		1.2	29	CATAMARCA PROVINCE, ARGENTINA
	16	10	01	09.1	51.182	N	178.182	W	33	N	5.4	4.8	0.8	234	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.0 (PMR). Felt (III) on Adak.
	16	10	32	25.6?	6.12	N	126.43	E	33	N	4.7		1.5	11	MINDANAO, PHILIPPINE ISLANDS
	16	10	35	32.6	37.201	N	116.546	W	5	G			0.5	47	SOUTHERN NEVADA. MD 2.7 (REN).
	16	13	38	38.5?	37.80	N	1.73	W	10	G			0.3	4	SPAIN
	16	13	59	34.4	27.096	S	71.158	W	10	G	5.4		1.2	60	NEAR COAST OF NORTHERN CHILE. Felt (III) in the Copiapo oreo.
	16	14	17	35.9	17.794	N	65.387	W	10	G			0.5	17	PUERTO RICO REGION. ML 4.8 (FDF). MD 4.2 (SJG). Felt at Fajardo and on Vieques. Also felt on St. Thomas, Virgin Islands.
	16	14	18	34.1*	32.699	S	178.923	W	41	?	4.7		1.2	11	SOUTH OF KERMADEC ISLANDS
	16	14	48	35.9?	48.06	N	6.89	E	10	G			0.0	4	FRANCE. MD 1.0 (STR).
	16	15	11	54.1?	36.69	N	20.53	E	10	G			1.5	5	MEDITERRANEAN SEA
	16	18	46	32.4*	46.614	N	10.191	E	10	G			1.3	8	NORTHERN ITALY
	16	19	18	45.1*	51.098	N	15.737	E	10	G			1.3	8	POLAND. ML 3.4 (VKA), 3.2 (KBA).
	16	20	16	22.5&	36.985	N	121.668	W	7					11	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).
	16	21	30	50.7	39.974	N	23.993	E	10	G			1.4	12	AEGEAN SEA. ML 3.3 (ATH).

	16	21 34 08.1	39.922	N	23.973	E	10	G	4.4		1.3	88	AEGEAN SEA. ML 4.2 (ATH).
	16	21 55 29.2*	16.687	S	167.219	E	33	N	4.9		1.4	50	VANUATU ISLANDS
	16	21 55 58.5*	13.346	N	144.682	E	55		4.9		1.1	23	MARIANA ISLANDS. Felt (IV) on Guam.
	16	22 14 02.4?	40.09	N	23.86	E	10	G			0.9	4	GREECE. MD 2.9 (ATH).
	16	23 05 49.2	40.120	N	23.793	E	10	G			0.5	7	GREECE. MD 3.3 (ATH).
	16	23 08 40.2	0.923	N	28.009	W	10	G	4.7	4.4	0.8	57	CENTRAL MID-ATLANTIC RIDGE
	16	23 46 54.6%	38.614	N	14.819	E	10	G			0.9	11	SICILY
	17	01 47 15.6	12.185	N	88.038	W	33	N	4.8	4.1	1.2	50	OFF COAST OF CENTRAL AMERICA
f	17	01 59 07.7	7.698	S	107.150	E	27	G	6.1	5.8	1.0	351	JAVA. Ms 5.5 (BRK). Felt in the Jakarta area. Depth from broadband displacement seismagrams.
	17	02 10 37.0	37.258	N	26.900	E	10	G			0.8	10	DODECANESE ISLANDS. ML 3.8 (ATH).
	17	03 11 09.2&	36.568	N	121.188	W	4					18	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
	17	04 43 53.5*	51.406	N	178.100	E	64	*	4.6		0.7	27	RAT ISLANDS, ALEUTIAN ISLANDS
	17	05 52 35.6*	17.598	S	178.930	W	571		4.6		0.6	30	FIJI ISLANDS REGION
	17	07 04 27.6&	39.143	N	110.848	W	12					14	UTAH. <SLC-P>. CL 2.1 (SLC).
a	17	08 16 22.9	27.040	S	70.974	W	30	D	5.4		0.9	147	NEAR COAST OF NORTHERN CHILE
	17	08 31 51.3%	59.413	N	5.815	E	10	G			0.8	5	SOUTHERN NORWAY. MD 2.5 (BER).
	17	08 53 17.2*	21.195	S	168.743	E	41	D	4.8		1.1	43	LOYALTY ISLANDS
	17	10 21 53.5?	15.54	S	167.59	E	122	?	4.6		1.3	41	VANUATU ISLANDS
	17	10 24 35.4	63.259	N	150.476	W	114		4.2		1.0	22	CENTRAL ALASKA
	17	11 26 12.6	40.067	N	23.976	E	10	G			1.0	9	GREECE. ML 3.4 (ATH).
a	17	11 34 52.2	27.001	S	70.948	W	39	D	5.5	5.7	1.0	198	NEAR COAST OF NORTHERN CHILE. Ms 5.7 (BRK), 5.6 (PAS).
	17	12 07 13.7*	0.715	N	96.936	E	140	?			0.7	6	OFF W COAST OF NORTHERN SUMATERA
	17	12 31 30.5*	21.496	S	178.768	W	544	*	4.8		1.2	59	FIJI ISLANDS REGION
a	17	12 38 15.5	26.924	S	70.985	W	37	D	5.4	5.5	1.1	88	NEAR COAST OF NORTHERN CHILE
	17	13 47 53.1*	27.717	S	70.405	W	33	N	4.8		1.3	17	NEAR COAST OF NORTHERN CHILE
	17	13 59 28.7*	27.027	S	71.243	W	33	N	4.7		1.4	14	NEAR COAST OF NORTHERN CHILE
a	17	14 26 03.5	27.062	S	71.060	W	31	D	5.2	4.7	1.0	64	NEAR COAST OF NORTHERN CHILE
	17	14 52 27.1*	12.204	N	87.930	W	54	*	5.0	4.0	1.1	45	NEAR COAST OF NICARAGUA
	17	14 56 34.6	39.267	N	72.291	E	59	*	4.9	4.4	1.1	57	KIRGHIZ SSR. Felt (IV) at Daraut-Kurgan; (III) at Gulcha, Sufi-Kurgan, Dzhirgatal and Fergana; (II) at Andizhan and Tashkent.
	17	15 12 18.6*	65.330	N	146.289	W	10	G			1.5	6	ALASKA. ML 3.9 (PMR).
	17	17 00 00.0&	37.297	N	116.307	W	0		5.5	4.2		312	SOUTHERN NEVADA. <DOE>. ML 5.4 (BRK). "Joint Verificatian Experiment." 36' 17' 49.77" N., 116' 18' 23.54" W., Surface Elev. 2129 m., Depth af Burial 600 m., Shot Time 170000.095, "KEARSARGE," Nevada Test Site (Dept. of Energy).
	17	17 29 18.9?	26.92	S	70.21	W	33	N			1.5	4	NEAR COAST OF NORTHERN CHILE
	17	17 34 30.8%	43.434	N	5.476	E	10	G			0.3	6	NEAR SOUTH COAST OF FRANCE. MD 2.0 (STR).
	17	17 49 54.1?	60.58	N	5.05	E	10	G			0.2	4	SOUTHERN NORWAY. MD 2.1 (BER).
	17	19 34 31.0?	35.13	N	141.35	E	33	N	4.0		1.3	5	NEAR EAST COAST OF HONSHU, JAPAN
	17	19 35 12.8?	36.07	S	68.86	W	33	N			1.2	9	MENDOZA PROVINCE, ARGENTINA
	17	19 40 35.7	20.335	S	178.120	W	547		4.8		1.0	87	FIJI ISLANDS REGION
	17	19 45 24.5	19.156	N	121.099	E	31		5.0	4.5	1.3	78	PHILIPPINE ISLANDS REGION
	17	21 02 43.0*	14.987	N	94.740	W	33	N	4.9		0.9	54	OFF COAST OF CHIAPAS, MEXICO
	17	22 05 56.5*	59.907	N	153.360	W	142	?			0.6	8	SOUTHERN ALASKA
	17	22 14 49.0	42.726	N	144.008	E	120		4.1		0.6	7	HOKKAIDO, JAPAN REGION. Felt (II JMA) at Hirao and (I JMA) at Kushira.
	17	22 21 53.0&	37.297	N	116.307	W	0					10	SOUTHERN NEVADA. <SPEC>. ML 3.6 (NEIS). NTS Callapse, held to "KEARSARGE" locatian.
a	17	23 09 40.8	1.555	N	124.785	E	33	N	5.3	4.5	1.3	56	MINAHASSA PENINSULA. Several buildings damaged at Manado, Sulawesi.
	18	02 47 32.2*	63.191	N	151.113	W	33	N			1.4	5	CENTRAL ALASKA. ML 3.1 (PMR).
	18	04 28 23.0?	52.04	N	17.22	E	10	G			0.3	8	POLAND. ML 3.7 (VKA), 3.5 (KBA).
	18	05 33 47.0?	40.07	N	24.19	E	10	G			1.2	7	AEGEAN SEA
a	18	06 32 18.6	4.128	S	153.585	E	260		5.4		1.0	93	NEW IRELAND REGION
	18	06 58 34.9*	44.663	N	140.947	E	278	?	4.2		0.8	14	EASTERN SEA OF JAPAN
	18	07 20 00.4*	31.891	N	142.666	E	33	N	4.2		0.9	7	SOUTH OF HONSHU, JAPAN
	18	07 33 57.2*	42.782	S	85.647	W	10	G	5.2		0.9	43	WEST CHILE RISE
	18	07 39 45.0*	33.043	S	116.671	E	10	G			0.8	5	WESTERN AUSTRALIA
	18	07 40 13.2*	61.881	N	7.474	E	10	G			0.8	7	SOUTHERN NORWAY. MD 2.6 (BER).
	18	08 39 52.1&	10.767	N	84.891	W	180					7	COSTA RICA. <HDC>. MD 4.1 (HDC).
	18	08 48 53.2?	6.43	S	142.56	E	33	N	3.8		1.5	7	PAPUA NEW GUINEA
	18	09 01 46.8	37.038	N	26.690	E	10	G			0.7	6	DODECANESE ISLANDS. ML 4.2 (ATH).
	18	09 16 57.4?	28.84	S	72.11	W	33	N			1.4	10	OFF COAST OF CENTRAL CHILE
	18	09 51 49.5	27.036	S	71.095	W	32	D	5.0		1.0	37	NEAR COAST OF NORTHERN CHILE
	18	10 56 53.0	60.880	N	151.297	W	56	*	3.8		1.0	14	KENAI PENINSULA, ALASKA. Felt (III) at Ancharage.
	18	11 01 21.4%	40.387	N	29.499	E	20	*			0.6	7	TURKEY
	18	12 44 53 4&	39.132	N	110.867	W	12		4.5			58	UTAH. <SLC-P>. ML 4.4 (SLC). Felt (V) at Castle Dale, Elmo, Ferron, Huntington, Sunnyside and Wellingtan. Felt (IV) at Clawson, Cleveland, East Carbon, Kenilworth and Price. Felt throughaut much of central Utah and in parts of western Colorado including Grand Junction and Fruita.
	18	12 46 02.5%	40.236	N	28.681	E	10	G			1.2	5	TURKEY
	18	13 10 46.8*	34.751	N	23.101	E	33	N	3.8		1.5	9	CRETE. ML 4.0 (ATH).
	18	13 21 37.8	50.464	N	7.387	E	10	G			1.7	16	GERMANY. ML 3.0 (LDG), 2.3 (BNS).
	18	14 46 57.3%	60.562	N	5.070	E	0	G			0.8	7	SOUTHERN NORWAY. MD 2.3 (BER). Probable explosian.
	18	14 59 49.6	61.765	N	150.191	W	33	N			0.3	6	SOUTHERN ALASKA. ML 3.5 (PMR). Felt (II) at Anchorage.
	18	15 36 32.7%	44.165	N	8.620	E	10	G			1.0	6	NORTHERN ITALY. ML 2.3 (GEN).
	18	17 19 46.7&	39.160	N	110.864	W	11					14	UTAH. <SLC-P>. CL 1.9 (SLC).
	18	17 37 44.6	42.088	N	24.052	E	10	G			1.1	11	BULGARIA. MD 3.0 (ATH).
	18	19 11 55.1*	30.788	S	68.913	W	125	?			1.2	10	SAN JUAN PROVINCE, ARGENTINA
	18	19 12 45.7*	23.729	N	120.495	E	33	N			0.2	5	TAIWAN
	18	19 54 43.8?	27.17	S	71.65	W	33	N			1.7	5	NEAR COAST OF NORTHERN CHILE
	18	21 25 14.3	38.854	N	114.639	W	5	G			0.5	29	NEVADA. ML 3.7 (NEIS).
	18	21 34 22.9	46.565	N	153.761	E	33	N	5.0		0.8	60	KURIL ISLANDS
	18	21 36 43.1*	27.122	S	71.423	W	33	N	4.8		1.4	21	NEAR COAST OF NORTHERN CHILE
	18	22 48 01.7	27.195	S	71.262	W	32	D	4.8		1.3	31	NEAR COAST OF NORTHERN CHILE
	18	22 48 42.1?	44.76	N	17.08	E	10	G			2.1	5	YUGOSLAVIA. ML 3.0 (ZAG).
	19	00 40 31.8?	33.92	S	72.57	W	18				0.4	9	OFF COAST OF CENTRAL CHILE
	19	00 40 39.5?	38.68	N	21.42	E	10	G			0.2	4	GREECE. MD 2.9 (ATH).

	19	01	13	18.0	47.248	N	11.580	E	10	G		1.3	14	AUSTRIA. ML 3.0 (FUR), 2.4 (KBA). Felt (V) at Absam.
	19	01	52	01.9	37.413	N	26.933	E	10	G		0.8	6	DODECANESE ISLANDS. MD 3.4 (ATH).
	19	02	08	15.1*	6.925	S	129.826	E	163	?	4.7	1.2	11	BANDA SEA
	19	02	31	06.8%	39.880	N	29.105	E	10	G		0.3	5	TURKEY
	19	02	48	21.3*	45.017	N	6.641	E	10	G		0.9	5	FRANCE. ML 2.2 (LDG).
	19	03	01	50.5*	26.962	S	71.030	W	31	D	4.9	1.3	18	OFF COAST OF NORTHERN CHILE
	19	03	10	07.0	39.306	N	23.804	E	10	G		1.2	11	AEGEAN SEA. ML 3.2 (ATH).
	19	03	12	29.2%	38.343	N	25.131	E	10	G		0.9	5	AEGEAN SEA. ML 3.2 (ATH).
	19	04	24	33.5?	6.67	S	150.57	E	33	N	4.3	1.6	6	NEW BRITAIN REGION
	19	05	06	43.6*	3.091	N	128.459	E	33	N	4.3	0.6	6	NORTH OF HALMAHERA
	19	06	54	23.7*	26.920	S	71.794	W	33	N	4.5	1.1	13	OFF COAST OF NORTHERN CHILE
	19	06	56	06.7%	38.696	N	2.645	W	10	G		1.2	5	SPAIN. MG 2.7 (MDD).
	19	07	15	42.7?	67.25	N	143.50	W	33	N		0.7	7	ALASKA. ML 3.8 (PMR).
	19	08	11	31.5?	0.98	S	148.74	E	33	N	4.5	1.5	9	ADMIRALTY ISLANDS REGION
	19	08	14	15.0*	33.839	N	36.530	E	10	G		0.7	6	JORDAN - SYRIA REGION
	19	08	58	59.7	18.547	N	145.276	E	471		4.8	0.8	114	MARIANA ISLANDS
	19	09	23	31.3	8.034	N	123.822	E	658	*	4.6	0.8	35	MINDANAO, PHILIPPINE ISLANDS
	19	09	39	50.1*	6.193	S	151.829	E	33	N	3.9	0.6	6	NEW BRITAIN REGION
	19	10	34	29.1*	39.592	N	74.223	E	33	N	4.3 4.0	1.5	11	SOUTHERN XINJIANG, CHINA
	19	10	43	53.5	18.033	N	105.283	W	33	N	4.8	1.0	60	OFF COAST OF JALISCO, MEXICO
	19	11	01	52.0*	38.398	N	26.773	E	10	G		1.4	13	AEGEAN SEA
	19	11	23	23.1?	17.81	N	105.37	W	33	N	3.9	0.4	11	OFF COAST OF JALISCO, MEXICO
	19	12	07	53.5?	43.44	N	5.46	E	10	G		0.3	4	NEAR SOUTH COAST OF FRANCE. MD 2.5 (STR).
	19	16	12	34.8?	38.63	N	75.48	E	33	N	4.3	1.3	8	SOUTHERN XINJIANG, CHINA
	19	16	54	47.8*	19.130	S	173.095	W	33	N	5.0	1.2	29	TONGA ISLANDS
	19	17	16	36.2	44.564	N	7.272	E	10	G		0.4	10	NORTHERN ITALY. ML 2.0 (LDG), 2.0 (GEN).
	19	17	31	25.0?	43.44	N	5.45	E	10	G		0.0	4	NEAR SOUTH COAST OF FRANCE. MD 2.0 (STR).
a	19	18	10	08.9	24.704	N	122.511	E	98	D	5.2	1.0	225	TAIWAN REGION. Felt on Taiwan. Also felt (I JMA) on Ishigaki-shima, Ryukyu Islands.
a	19	18	28	18.9	60.893	S	23.382	W	15	D	5.6 5.4	1.0	81	SOUTH SANDWICH ISLANDS REGION
	19	18	50	27.8	37.904	N	29.081	E	10	G		0.7	12	TURKEY. MG 4.3 (HLW).
	19	19	32	47.3	33.966	N	135.169	E	10	G	4.2	1.2	16	NEAR S. COAST OF SOUTHERN HONSHU. Felt (I JMA) at Wakayama and Tsu.
	19	23	32	15.3?	51.16	N	16.07	E	10	G		0.7	5	POLAND
	20	01	05	01.5?	9.68	S	123.34	E	33	N	3.4	0.3	5	TIMOR
	20	02	27	51.2*	43.918	N	147.853	E	61	*	4.7	1.0	44	KURIL ISLANDS. Felt (I JMA) at Nemuro, Hokkaido.
	20	03	02	16.2	44.865	N	7.625	E	10	G		0.7	8	NORTHERN ITALY. ML 2.3 (GEN).
	20	03	06	31.4	2.506	S	79.587	W	47	*	5.0 4.1	0.9	66	NEAR COAST OF ECUADOR
	20	06	14	31.0*	8.859	S	117.906	E	117	*	4.5	0.9	17	SUMBAWA ISLAND REGION
	20	06	52	30.2*	35.730	N	31.215	E	10	G		1.1	9	CYPRUS. MG 4.0 (HLW).
	20	07	37	50.5	44.700	N	12.555	E	10	G		1.0	28	NORTHERN ITALY. ML 3.1 (LDG). MD 3.0 (TRI).
	20	07	54	51.1*	16.700	S	167.030	E	15	*	4.6 4.2	1.7	18	VANUATU ISLANDS
	20	08	14	09.3	36.996	N	113.938	W	5	G		0.7	18	WESTERN ARIZONA. ML 2.8 (NEIS).
a	20	08	19	37.6	16.484	S	167.171	E	22	D	5.3 5.8	1.4	146	VANUATU ISLANDS. Ms 6.1 (PAS), 5.7 (BRK).
	20	08	31	01.3*	16.544	S	167.120	E	12	*	5.1	1.3	13	VANUATU ISLANDS
	20	09	25	45.9&	37.377	N	121.767	W	7				18	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK).
	20	09	45	17.4	16.560	S	167.043	E	33	N	4.9	1.3	46	VANUATU ISLANDS
	20	10	37	57.9*	49.967	N	129.093	W	10	G	4.3	1.2	26	VANCOUVER ISLAND REGION
	20	12	50	42.1%	60.606	N	4.890	E	0	G		1.1	7	SOUTHERN NORWAY. MD 2.2 (BER). Probable explosion.
a	20	12	57	02.2	6.650	S	152.947	E	27		5.2 4.5	1.1	81	NEW BRITAIN REGION
	20	13	03	03.0	37.270	N	3.684	W	17		4.7	1.5	46	SPAIN. Felt (V) in the Pinas Puente area.
	20	13	30	52.4%	15.748	N	60.800	W	10	G		0.5	10	LEEWARD ISLANDS. ML 2.8 (FDF).
	20	13	41	12.5*	16.568	S	167.066	E	15	*	4.5	1.0	11	VANUATU ISLANDS
	20	14	21	04.0?	10.35	S	160.70	E	33	N	4.0	0.5	8	SOLOMON ISLANDS
	20	14	53	03.9*	47.876	N	8.447	E	10	G		1.0	8	SWITZERLAND. ML 2.8 (LDG). MD 2.5 (STR).
	20	16	02	22.6	22.687	S	66.145	W	242	*	4.7	1.2	21	JUJUY PROVINCE, ARGENTINA
	20	16	11	12.1?	24.15	S	67.15	W	287	?		0.9	6	CHILE-ARGENTINA BORDER REGION
	20	16	30	06.1?	7.52	N	124.04	E	607	?		0.8	10	MINDANAO, PHILIPPINE ISLANDS
	20	16	42	51.7	37.219	N	3.712	W	10	G		1.1	15	SPAIN. MG 3.6 (MDD). Felt (IV) in the Pinas Puente area.
	20	17	34	42.8%	16.023	N	60.634	W	10	G		0.9	7	LEEWARD ISLANDS. ML 3.1 (FDF).
	20	17	44	23.6%	40.642	N	29.927	E	10	G		0.5	6	TURKEY
	20	18	10	58.0	39.957	N	23.958	E	10	G		1.2	27	AEGEAN SEA. ML 3.6 (ATH).
	20	18	15	27.2&	32.460	N	117.930	W	6	G			60	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.8 (PAS).
	20	19	11	27.1*	24.263	S	67.079	W	178	*	4.5	1.3	22	CHILE-ARGENTINA BORDER REGION
a	20	19	52	43.1	15.140	S	173.511	W	33	N	5.2 5.2	1.0	72	TONGA ISLANDS
	20	20	30	41.8*	39.513	N	74.677	E	33	N	4.3	1.1	10	SOUTHERN XINJIANG, CHINA
	20	21	24	07.9?	27.92	N	85.66	E	33	N		0.7	4	NEPAL
	20	21	40	09.1	44.277	N	7.337	E	10	G		1.4	19	NORTHERN ITALY. ML 2.8 (LDG), 2.5 (GEN).
	20	22	20	13.0*	33.807	S	178.873	W	33	N	4.8 4.6	1.4	14	SOUTH OF KERMADEC ISLANDS
f	20	23	09	09.5	26.755	N	86.616	E	57	G	6.4 6.6	1.1	555	NEPAL-INDIA BORDER REGION. Ms 6.8 (BRK), 6.5 (PAS). Seven hundred twenty-one people killed, 6,553 injured and 64,470 buildings damaged in eastern Nepal, including the Kathmandu Valley. Maximum intensity VIII. Liquefaction observed in a 5,500 sq. km area of southern Nepal. At least 277 people killed, thousands injured and extensive damage in northern Bihar, India, particularly in the Darbhanga-Madhubani-Saharsa area. Damage in the Gangtok area, Sikkim and in the Darjiling area, India. Felt in large parts of northern India from Delhi to the Burma border and in much of Bangladesh. Depth from broadband displacement seismograms.
	20	23	24	22.6*	26.997	S	71.536	W	33	N		1.3	5	OFF COAST OF NORTHERN CHILE
	20	23	36	54.9&	26.750	N	86.620	E	33	N			6	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.
	21	00	12	31.4&	26.750	N	86.620	E	33	N			3	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.
	21	00	14	13.7&	26.750	N	86.620	E	33	N			5	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.
	21	00	36	18.2&	26.750	N	86.620	E	33	N			4	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.
	21	00	54	56.6&	26.750	N	86.620	E	33	N			5	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.

	21	01 06 41.8&	26.750	N	86.620	E	33	N				5	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.
	21	01 09 49.9&	26.750	N	86.620	E	33	N				5	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.
	21	01 25 12.8&	26.750	N	86.620	E	33	N				4	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.
	21	01 26 12.6&	26.750	N	86.620	E	33	N				4	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.
	21	02 00 09.7&	26.750	N	86.620	E	33	N				4	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.
	21	02 34 09.9&	26.750	N	86.620	E	33	N				5	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.
	21	04 03 22.0&	26.750	N	86.620	E	33	N				4	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.
	21	05 42 39.2&	26.750	N	86.620	E	33	N				5	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.
	21	05 50 34.5?	3.92	N	96.54	E	118	?	4.3		1.0	7	NORTHERN SUMATERA
	21	06 11 00.0&	26.750	N	86.620	E	33	N				5	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.
	21	07 02 06.3&	26.750	N	86.620	E	33	N				5	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.
	21	07 29 32.4&	26.750	N	86.620	E	33	N				5	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.
	21	08 17 21.5	33.636	S	178.561	W	38	D	5.0		1.0	30	SOUTH OF KERMADEC ISLANDS
	21	08 34 00.1?	40.30	N	27.47	E	10	G			0.2	4	TURKEY
	21	09 25 59.9&	26.750	N	86.620	E	33	N				4	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.
	21	09 30 12.0&	26.750	N	86.620	E	33	N				5	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.
	21	10 19 55.5	40.659	N	29.906	E	10	G			1.0	8	TURKEY
	21	10 20 46.7&	26.750	N	86.620	E	33	N				5	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.
	21	10 23 01.4	21.418	S	68.661	W	131	?			0.9	7	CHILE-BOLIVIA BORDER REGION
	21	11 14 33.7&	32.180	N	115.050	W	6	G				9	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.3 (PAS).
a	21	11 15 49.5	23.385	N	108.379	W	10	G	5.3	5.2	1.3	76	GULF OF CALIFORNIA. Ms 5.2 (8RK).
	21	11 17 08.3*	10.832	S	160.870	E	33	N	4.5		0.8	16	SOLOMON ISLANDS
a	21	11 44 24.4	44.571	N	149.473	E	52	D	5.0		0.8	90	KURIL ISLANDS
	21	12 06 44.9&	26.750	N	86.620	E	33	N				4	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.
	21	12 15 29.3&	26.750	N	86.620	E	33	N				4	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.
a	21	12 18 54.9*	26.546	S	112.671	W	10	G	5.1	5.3	1.1	41	EASTER ISLAND REGION
	21	12 41 42.1?	19.56	N	67.45	W	10	G			0.5	6	MONA PASSAGE
a	21	13 16 28.9	25.303	N	95.099	E	81	D	4.9		1.1	77	BURMA-INDIA BORDER REGION
	21	13 18 10.9&	26.750	N	86.620	E	33	N				5	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.
	21	13 24 10.0*	6.503	S	130.481	E	146	*	4.6		1.2	12	BANDA SEA
	21	13 38 28.4*	37.360	S	73.795	W	10	G	5.0		1.2	30	NEAR COAST OF CENTRAL CHILE
a	21	13 51 42.8	42.903	S	85.773	W	10	G	5.9	5.4	1.0	177	WEST CHILE RISE
	21	14 06 57.7&	26.750	N	86.620	E	33	N				4	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.
	21	14 24 04.1&	26.750	N	86.620	E	33	N				5	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.
	21	14 51 58.5?	66.55	N	12.66	E	10	G			1.5	6	NORTHERN NORWAY. MD 3.3 (BER). ML 2.9 (NAO). Felt.
	21	15 02 10.6	12.270	N	125.489	E	33	N	4.8		1.0	32	SAMAR, PHILIPPINE ISLANDS
	21	15 09 02.3&	26.750	N	86.620	E	33	N				4	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.
	21	15 23 01.1	37.094	N	26.694	E	10	G			1.0	7	DODECANESE ISLANDS. ML 4.3 (ATH).
	21	15 27 10.8*	13.621	S	166.725	E	33	N	4.2		1.1	21	VANUATU ISLANDS
	21	16 05 49.0*	33.829	N	119.367	W	5	G			0.2	5	SOUTHERN CALIFORNIA. ML 2.7 (NEIS).
	21	16 24 29.4%	47.167	N	4.766	E	10	G			1.1	8	FRANCE. ML 2.3 (LDG).
	21	16 32 59.0?	27.84	N	85.36	E	33	N			0.7	4	NEPAL
	21	17 01 13.5?	2.16	N	100.65	W	10	G	4.4		1.0	17	EAST CENTRAL PACIFIC OCEAN
	21	17 34 48.3	41.434	N	13.050	E	13		3.6		1.0	18	SOUTHERN ITALY
	21	18 58 44.9&	26.750	N	86.620	E	33	N				4	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.
	21	19 40 29.3	23.523	S	66.465	W	217		4.7		1.0	35	JUJUY PROVINCE, ARGENTINA
	21	19 51 54.1	39.969	N	23.958	E	10	G			1.0	12	AEGEAN SEA. ML 3.3 (ATH).
	21	20 13 17.2*	23.963	S	13.485	W	10	G	4.9		0.9	11	SOUTH ATLANTIC RIDGE
	21	23 09 08.0*	26.750	N	86.777	E	33	N			0.9	10	NEPAL-INDIA BORDER REGION
	21	23 21 50.1	36.999	N	113.904	W	5	G			0.5	60	WESTERN ARIZONA. ML 3.1 (NEIS), 3.5 (SLC).
a	21	23 24 52.8	8.535	N	127.002	E	33	N	5.0	3.9	1.2	39	PHILIPPINE ISLANDS REGION
	22	00 39 01.3	46.390	N	8.562	E	10	G			1.2	19	SWITZERLAND. ML 2.8 (LDG).
	22	01 04 23.1&	26.750	N	86.620	E	33	N				5	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.
	22	02 35 38.3	16.633	S	167.173	E	10	G	5.1	4.7	1.3	47	VANUATU ISLANDS
	22	04 50 13.0?	39.54	N	74.57	E	33	N	4.3		1.2	7	SOUTHERN XINJIANG, CHINA
	22	05 09 01.2&	26.750	N	86.620	E	33	N				4	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.
	22	05 15 30.7*	26.975	S	70.977	W	33	N			1.1	8	NEAR COAST OF NORTHERN CHILE
a	22	05 26 19.6	52.452	N	170.676	W	33	N	4.9	4.2	0.9	118	FOX ISLANDS, ALEUTIAN ISLANDS. ML 5.2 (PMR).
	22	05 27 32.6?	3.34	N	128.74	E	33	N	4.7		1.6	9	NORTH OF HALMAHERA
	22	06 13 52.3&	26.750	N	86.620	E	33	N				4	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.
	22	06 44 24.3*	23.118	S	65.404	W	33	N			1.1	5	JUJUY PROVINCE, ARGENTINA
	22	08 57 02.1?	1.88	S	77.40	W	59	?	4.6		1.0	6	ECUADOR
	22	09 27 02.8?	5.93	S	146.69	E	202	*	4.4		1.4	10	EAST PAPUA NEW GUINEA REGION
	22	10 13 09.5&	26.750	N	86.620	E	33	N				5	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshock epicenter.
	22	10 31 22.0*	4.517	S	152.745	E	86	*	4.4		0.3	7	NEW BRITAIN REGION
	22	10 35 06.1?	23.46	N	122.06	E	10	G			0.2	5	TAIWAN REGION
	22	10 40 14.7*	22.061	S	179.846	W	673	?	4.9		0.6	46	SOUTH OF FIJI ISLANDS
	22	11 03 32.8?	51.66	N	16.32	E	10	G			1.3	6	POLAND. ML 3.6 (KBA).

a	22	11	12	43.9	24.016	S	176.804	W	102	*	5.6	0.9	139	SOUTH OF FIJI ISLANDS
	22	11	17	53.2%	39.322	N	27.943	E	10	G		0.6	5	TURKEY
	22	11	30	11.6*	9.937	N	71.099	W	10	G		1.2	6	LAKE MARACAIBO. Felt at Maracaibo, Venezuela.
	22	11	34	33.3*	26.662	N	86.916	E	33	N	4.3	0.5	7	NEPAL-INDIA BORDER REGION
	22	12	49	39.3&	40.733	N	124.607	W	23				5	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.1 (BRK).
	22	13	13	01.0%	16.548	S	121.766	E	10	G		1.0	8	WESTERN AUSTRALIA
	22	13	13	20.1?	57.69	N	6.16	E	10	G		0.5	6	NORTH SEA. MD 2.6 (BER).
	22	13	35	21.0&	33.997	N	117.277	W	6	G			3	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.5 (PAS). Felt in the Riverside-San Bernardina area.
	22	13	36	52.2&	26.750	N	86.620	E	33	N			3	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshack epicenter.
a	22	13	54	06.0*	16.086	S	172.749	W	33	N	4.9 4.9	1.2	37	SAMOA ISLANDS REGION
	22	14	17	34.4	38.866	N	24.929	E	10	G		1.2	12	AEGEAN SEA. ML 3.3 (ATH).
	22	16	19	58.2	66.316	N	78.548	E	0	G	5.3	0.7	281	WESTERN SIBERIA
	22	16	37	06.6?	19.69	S	175.99	W	33	N	5.0 4.8	1.2	12	TONGA ISLANDS
	22	17	02	17.7&	26.750	N	86.620	E	33	N			3	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshack epicenter.
	22	17	08	33.7?	16.09	N	61.15	W	33	N		0.8	7	LEEWARD ISLANDS. ML 3.3 (FDF).
	22	17	28	45.5?	37.13	N	20.11	E	10	G	3.7 3.5	1.2	6	IONIAN SEA. ML 3.5 (ATH).
	22	17	37	12.2?	35.76	N	4.85	W	10	G		0.3	5	STRAIT OF GIBRALTAR
	22	18	17	01.6?	40.25	N	24.22	E	10	G		1.1	5	AEGEAN SEA
	22	18	22	27.0*	14.943	S	167.152	E	193	?	4.7	1.0	42	VANUATU ISLANDS
	22	18	25	00.0	4.697	N	96.201	E	43	D	5.0 4.5	1.3	61	NORTHERN SUMATERA
	22	18	25	37.0	38.656	N	116.300	W	5	G		0.4	20	NEVADA. MD 3.1 (REN).
	22	19	01	21.7&	26.750	N	86.620	E	33	N			4	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshack epicenter.
	22	20	47	40.1*	51.542	N	6.790	E	10	G		1.3	8	GERMANY
	22	20	52	49.6?	7.96	S	13.79	W	10	G	4.5	1.0	10	ASCENSION ISLAND REGION
a	22	21	23	34.1	35.280	N	52.350	E	10	G	5.0 4.7	1.3	147	IRAN. Felt in the Garmsar area and at Tehran. Six smaller earthquakes were felt in the Garmsar area between 2139 UTC and 2347 UTC August 22.
	22	22	30	08.3*	27.525	S	69.404	W	120	?	4.7	1.3	9	NORTHERN CHILE
	22	23	10	15.3?	37.62	N	14.98	E	10	G		1.1	4	SICILY
	22	23	53	27.9&	26.750	N	86.620	E	33	N			5	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshack epicenter.
	23	00	33	40.3	29.894	N	51.621	E	10	G	3.7	1.2	14	SOUTHERN IRAN
	23	02	23	31.7*	74.963	N	11.503	E	10	G	4.4	1.1	14	NORWEGIAN SEA
	23	03	03	45.5&	26.750	N	86.620	E	33	N			3	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshack epicenter.
	23	03	34	37.7&	26.750	N	86.620	E	33	N			5	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshack epicenter.
	23	03	45	54.5&	26.750	N	86.620	E	33	N			5	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshack epicenter.
a	23	04	11	05.3	49.124	N	155.205	E	42	D	5.1 4.5	0.9	148	KURIL ISLANDS
	23	04	14	54.1	36.926	N	26.818	E	33	N		1.3	13	DODECANESE ISLANDS. ML 4.4 (ATH).
	23	04	20	57.7*	63.581	N	150.334	W	33	N		1.5	7	CENTRAL ALASKA. ML 3.1 (PMR).
	23	04	34	50.6	43.096	N	17.645	E	10	G		1.1	45	YUGOSLAVIA. ML 3.9 (KBA), 3.7 (LJU), 3.6 (TTG). MD 4.1 (TRI). Felt (VI) in the Metkovic-Neum area. Also felt in the Makarska-Ploce-Peljesac area.
a	23	05	30	47.9	35.404	N	52.279	E	10	G	5.0 4.7	1.1	143	IRAN. Slight damage in the Garmsar area. Felt at Tehran.
	23	05	40	25.4?	36.99	N	27.35	E	10	G		1.2	6	DODECANESE ISLANDS. MD 3.8 (ATH).
	23	05	54	36.5?	24.58	S	177.64	E	684	?	4.6	0.8	10	SOUTH OF FIJI ISLANDS
	23	06	30	21.9&	37.432	N	121.783	W	8				13	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
	23	07	58	53.8	2.633	N	128.040	E	95	*	5.1	0.8	45	HALMAHERA
	23	08	01	35.1*	17.064	S	167.461	E	50	*	4.1	0.9	11	VANUATU ISLANDS
	23	10	26	39.1%	37.416	N	2.070	W	5	G		0.8	6	SPAIN. MG 3.2 (MDD).
	23	10	34	22.1	6.856	N	73.035	W	159		3.8	0.4	26	NORTHERN COLOMBIA
	23	10	58	08.0	35.145	N	52.216	E	10	G	4.6 4.1	1.2	41	IRAN. Felt in the Garmsar area. Seventy-two smaller earthquakes were felt in the Garmsar area between 23 Aug 0201 UTC and 30 Aug 0228 UTC.
	23	11	36	52.5	63.209	N	148.375	W	33	N		0.7	11	CENTRAL ALASKA. ML 3.5 (PMR).
	23	12	33	32.9&	40.483	N	125.083	W	7				5	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.0 (BRK).
	23	13	16	16.3	63.285	N	151.733	W	33	N		0.9	7	CENTRAL ALASKA. ML 3.8 (PMR).
	23	14	37	23.8	17.930	S	178.290	W	590		5.0	0.7	93	FIJI ISLANDS REGION
	23	14	41	05.4*	6.720	S	155.022	E	415	*	4.7	0.9	20	SOLOMON ISLANDS
	23	14	56	08.0*	35.688	N	52.389	E	10	G	4.1	1.6	5	IRAN. Felt in the Garmsar area.
	23	15	53	42.8&	26.750	N	86.620	E	33	N			4	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshack epicenter.
	23	16	21	15.0*	42.285	N	1.885	E	10	G		0.9	7	PYRENEES. ML 3.2 (LDG).
	23	17	38	47.4	43.696	N	17.444	E	10	G	5.0	1.5	159	YUGOSLAVIA. MD 4.6 (TTG). ML 4.5 (ZAG), 4.5 (KBA). Slight damage in the Duvno area. Felt at Sinj and Makarska.
	23	18	29	59.7	36.994	N	116.012	W	5	G	4.1	0.5	59	CALIFORNIA-NEVADA BORDER REGION. ML 3.8 (BRK).
	23	19	10	17.8?	23.78	N	122.32	E	10	G		1.1	5	TAIWAN REGION
a	23	19	53	40.2	2.505	S	138.929	E	54	D	5.4	1.2	125	WEST IRIAN. Ms 5.9 (BRK).
	23	20	57	59.3	42.960	N	136.040	E	362		4.2	0.9	43	EASTERN SEA OF JAPAN
	23	21	36	48.5*	19.926	S	69.357	W	145	?		1.0	7	NORTHERN CHILE
	23	21	47	01.6?	2.93	N	126.63	E	33	N	4.7	0.8	8	MOLUCCA PASSAGE
	23	22	43	31.9*	32.411	N	132.223	E	10	G	4.5	0.8	5	SHIKOKU, JAPAN
	23	22	59	25.4&	26.750	N	86.620	E	33	N			4	NEPAL-INDIA BORDER REGION. <SPEC>. Held to mainshack epicenter.
	23	23	40	56.8	47.598	N	7.496	E	10	G		0.5	6	SWITZERLAND. ML 2.3 (LDG). MD 1.8 (STR).
	24	02	39	05.1?	56.15	S	27.06	W	115	?	4.6	1.2	7	SOUTH SANDWICH ISLANDS REGION
	24	03	02	45.5*	37.497	N	71.265	E	33	N	4.0	1.5	7	AFGHANISTAN-USSR BORDER REGION
	24	03	03	33.0?	9.49	S	124.96	E	110	?	4.2	1.1	9	TIMOR
	24	03	35	14.4	41.594	N	81.344	E	33	N	4.2	1.1	14	SOUTHERN XINJIANG, CHINA
	24	03	43	45.4?	2.25	S	138.94	E	33	N	4.2 4.0	1.3	7	WEST IRIAN
	24	04	13	56.8	38.116	N	15.149	E	10	G		0.7	6	SICILY
	24	04	41	08.2*	9.985	S	117.271	E	33	N	4.5	1.5	10	SUMBAWA ISLAND REGION
	24	05	11	41.5&	33.540	N	116.800	W	5				9	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
	24	05	13	47.8&	40.734	N	111.845	W	7				4	UTAH. <SLC-P>. ML 1.6 (SLC). Felt in the Salt Lake City area.

a	24	05	19	11.1	2.467	S	138.865	E	33	N	5.1 4.8	1.1	82	WEST IRIAN
	24	05	32	25 2?	28.08	S	71.72	W	33	N		0.8	5	NEAR COAST OF CENTRAL CHILE
	24	05	43	59.4?	32.80	S	71.63	W	10	G		0.4	8	NEAR COAST OF CENTRAL CHILE
	24	05	44	49.4	51.324	N	143.311	E	13	D	4.5 4.9	0.6	32	SAKHALIN ISLAND
	24	06	22	11.8	43.637	N	17.259	E	10	G		1.2	26	YUGOSLAVIA. ML 3.5 (KBA). MD 4.0 (TRI).
	24	06	43	27.9&	61.830	N	79.210	W	18	G			9	HUDSON BAY. <OTT-P>. mbLg 3.8 (OTT).
	24	07	40	53.1*	51.388	N	15.748	E	10	G		1.1	8	POLAND. ML 3.2 (KBA), 2.7 (KRA).
	24	07	49	45.8	37.605	N	12.859	E	10	G		0.5	5	SICILY
	24	08	32	25.4*	37.643	N	12.895	E	10	G		0.8	5	SICILY
	24	08	43	07.8*	30.766	N	139.015	E	286	*	4.3	0.2	11	SOUTH OF HONSHU, JAPAN
	24	09	23	21.5	21.956	S	68.306	W	130	D	5.0	1.0	85	CHILE-BOLIVIA BORDER REGION
	24	09	45	12.6	6.096	S	150.921	E	37		5.0 4.4	1.0	46	NEW BRITAIN REGION
	24	09	47	47.8*	36.905	N	21.116	E	10	G		1.1	6	SOUTHERN GREECE. ML 3.3 (ATH).
	24	09	55	16.1%	44.291	N	7.471	E	10	G		0.4	5	NORTHERN ITALY. ML 2.4 (GEN).
	24	09	55	33.6	26.746	N	86.549	E	33	N	4.7 4.1	0.8	13	NEPAL-INDIA BORDER REGION. Felt in eastern Nepal and northern Bihar, India.
	24	10	07	02.3*	47.806	N	6.924	E	10	G		1.3	6	FRANCE. MD 0.8 (STR).
	24	10	07	33.8	18.833	S	177.643	W	639		4.6	0.9	36	FIJI ISLANDS REGION
	24	10	37	50.2	16.555	S	167.092	E	10	G	4.8 4.7	1.3	52	VANUATU ISLANDS
	24	10	46	52.3	23.915	N	122.409	E	10	G		0.4	6	TAIWAN REGION
	24	12	13	29.0	36.609	N	26.258	E	29		4.2	1.2	38	DODECANESE ISLANDS. ML 4.4 (ATH).
	24	13	28	31.4?	59.10	N	5.76	E	10	G		0.8	4	SOUTHERN NORWAY. MD 2.2 (BER).
	24	13	39	53.1	37.278	N	9.618	W	7			1.1	39	PORTUGAL. MG 4.0 (MDD). Felt (III) at Cabo de Sao Vicente.
	24	15	20	33.3*	31.120	S	67.965	W	92	*	4.7	0.8	9	SAN JUAN PROVINCE, ARGENTINA. Felt at San Juan.
	24	15	26	46.6*	9.330	S	125.258	E	105	?	4.2	1.0	7	TIMOR
	24	15	45	06.7	5.865	N	82.502	W	10	G	4.2 4.5	0.7	22	SOUTH OF PANAMA
	24	16	01	46.1&	36.553	N	121.180	W	4				18	CENTRAL CALIFORNIA. <BRK>. ML 3.0 (BRK). Felt (III) at Soledad.
	24	16	57	27.8*	23.003	S	68.049	W	138	*		1.0	14	NORTHERN CHILE
	24	17	34	24.1*	34.907	N	139.280	E	10	G		0.1	5	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) on Oshima.
	24	18	39	25.1%	41.928	N	13.707	E	10	G		0.5	8	SOUTHERN ITALY
	24	18	40	25.8?	3.85	S	134.96	E	33	N	4.2	0.6	5	WEST IRIAN REGION
	24	23	05	58.2	42.058	N	15.532	E	13			1.2	40	ADRIATIC SEA. ML 3.6 (KBA), 3.5 (TTG). MD 4.1 (TRI).
	24	23	06	43.5	43.511	N	110.707	W	5	G		0.5	17	WYOMING. ML 2.8 (NEIS). Felt at Jackson.
	24	23	43	48.8	7.338	S	154.249	E	39		4.9	1.1	46	SOLOMON ISLANDS
	24	23	49	33.9*	6.288	S	145.421	E	109	*	3.8	1.2	10	PAPUA NEW GUINEA
	24	23	53	34.3	43.488	N	110.693	W	5	*		0.2	15	WYOMING. ML 2.4 (NEIS).
	25	00	59	32.2?	7.41	N	73.24	W	130	*		1.2	6	NORTHERN COLOMBIA
	25	01	50	19.4	15.867	N	60.573	W	33	N		0.2	6	LEEWARD ISLANDS. ML 2.2 (FDF).
	25	02	01	24.7?	4.30	S	143.17	E	75	?	4.3	1.1	9	PAPUA NEW GUINEA
	25	02	21	42.8*	17.253	S	173.738	W	33	N	5.2	1.0	8	TONGA ISLANDS
	25	02	35	26.4?	51.69	N	16.38	E	10	G		1.0	7	POLAND. ML 3.4 (VKA), 3.2 (KBA).
	25	05	01	06.2?	36.80	N	10.17	W	10	G		0.7	6	NORTH ATLANTIC OCEAN
	25	05	58	19.7?	18.89	S	169.28	E	250	*		1.3	6	VANUATU ISLANDS
	25	06	08	38.8?	37.75	N	25.41	W	10	G		0.0	4	AZORES ISLANDS
	25	06	18	18.1?	2.78	N	128.29	E	33	N	4.7	0.9	6	HALMAHERA
	25	08	49	54.9	46.399	N	1.778	E	10	G		1.1	14	FRANCE. ML 3.0 (LDG).
	25	08	57	06.5%	61.830	N	7.412	E	10	G		1.2	7	SOUTHERN NORWAY. MD 2.6 (BER).
	25	09	12	16.1%	38.601	N	14.268	E	10	G		0.6	7	SICILY
	25	10	34	06.8*	32.869	N	48.249	E	33	N	4.8	1.2	11	WESTERN IRAN
	25	11	23	51.4*	63.227	N	150.706	W	33	N		0.2	5	CENTRAL ALASKA. ML 3.1 (PMR).
	25	11	57	11.7?	2.32	N	127.80	E	100	?	4.4	0.9	7	MOLUCCA PASSAGE
	25	14	44	16.7*	60.606	N	151.735	W	33	N		2.1	5	KENAI PENINSULA, ALASKA. ML 3.7 (PMR).
	25	16	29	12.0*	50.146	N	19.177	E	10	G		1.2	5	POLAND. ML 2.8 (KRA).
	25	16	29	27.2*	7.132	N	72.091	W	33	N	4.1	1.1	7	NORTHERN COLOMBIA
	25	17	44	29.8?	43.45	N	5.46	E	10	G		0.3	4	NEAR SOUTH COAST OF FRANCE. MD 2.0 (STR).
	25	18	32	24.3?	4.18	S	151.20	E	10	G	4.7	0.8	6	NEW BRITAIN REGION
	25	20	00	36.8&	32.700	N	115.840	W	5				4	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.2 (PAS).
	25	20	44	39.9?	51.54	N	17.76	E	10	G		0.9	5	POLAND. ML 3.4 (VKA).
	25	20	47	49.8?	7.53	S	129.86	E	171	?	3.9	1.5	8	BANDA SEA
	25	21	33	01.7*	16.698	S	128.585	E	10	G		1.1	6	WESTERN AUSTRALIA
	25	22	47	34.6*	46.429	N	12.771	E	10	G		0.2	5	NORTHERN ITALY. ML 2.3 (KBA).
	25	23	33	10.8&	39.129	N	110.858	W	13				8	UTAH. <SLC-P>. CL 2.8 (SLC).
	26	00	01	11.9?	5.50	N	125.90	E	33	N	4.8	1.4	29	MINDANAO, PHILIPPINE ISLANDS
a	26	00	18	10.1	10.271	S	161.018	E	95		5.2	0.9	55	SOLOMON ISLANDS
	26	00	30	33.6	47.788	N	7.588	E	30			1.1	47	SWITZERLAND. ML 3.7 (LDG), 3.7 (GRF), 3.2 (KBA), 3.5 (STU).
	26	02	13	17.5	40.996	N	19.525	E	10	G		0.9	7	ALBANIA. MD 3.0 (ATH).
	26	03	10	18.1*	53.792	N	160.528	E	33	N	4.7	1.1	23	NEAR EAST COAST OF KAMCHATKA
	26	03	24	33.6?	44.21	N	10.31	E	10	G		0.5	4	NORTHERN ITALY
	26	03	41	35.1*	21.699	S	67.569	W	241	?	4.5	1.1	9	CHILE-BOLIVIA BORDER REGION
	26	04	57	21.5&	34.530	N	116.430	W	6	G			45	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.7 (PAS), 4.1 (NEIS). Felt at Barstow.
	26	05	59	10.2&	46.990	N	66.590	W	5				10	NEW BRUNSWICK. <OTT-P>. mbLg 3.9 (NEIS), 3.8 (OTT). Felt at Bathurst.
	26	07	12	08.2%	43.369	N	5.453	E	10	G		0.8	6	NEAR SOUTH COAST OF FRANCE. MD 2.0 (STR).
a	26	07	33	27.2	15.370	S	172.933	W	78	D	5.1	1.2	100	SAMOA ISLANDS REGION. Ms 5.6 (BRK). Felt (III) at Apia.
	26	08	10	45.2?	39.12	N	26.72	E	10	G		0.7	5	TURKEY
	26	08	42	36.6	11.367	N	122.226	E	50		5.0 4.5	1.1	76	PANAY, PHILIPPINE ISLANDS
a	26	09	26	30.9	7.438	S	128.480	E	121	D	5.3	1.1	109	BANDA SEA
	26	09	36	23.4*	15.387	S	172.710	W	33	N	5.4	1.1	19	SAMOA ISLANDS REGION. Felt (III) at Apia.
	26	09	49	31.5	29.973	N	51.638	E	10	G	4.5 3.9	1.4	74	SOUTHERN IRAN
	26	09	56	50.8?	39.58	N	29.42	E	10	G		0.5	6	TURKEY
	26	10	12	54.4?	37.77	N	25.45	W	10	G		0.0	4	AZORES ISLANDS
	26	10	50	37.3	43.280	N	127.240	W	10	G	4.1	0.4	52	OFF COAST OF OREGON
	26	11	55	29.3?	6.34	S	146.07	E	105	?	3.5	0.5	5	EAST PAPUA NEW GUINEA REGION
	26	12	15	19.2*	5.238	S	152.108	E	99	?	4.2	0.6	6	NEW BRITAIN REGION
	26	12	46	11.3%	37.762	N	25.427	W	10	G		0.6	5	AZORES ISLANDS
	26	12	53	46.8?	24.11	S	66.72	W	33	N		1.5	5	SALTA PROVINCE, ARGENTINA
	26	15	39	08.1?	17.49	S	64.51	W	33	N	4.5	1.5	9	BOLIVIA
	26	16	04	50.9?	18.16	N	67.17	W	33	N		0.5	7	MONA PASSAGE
	26	18	46	49.8%	46.193	N	2.588	E	10	G		1.0	9	FRANCE. ML 2.2 (LDG).

	26	21	06	04.3?	6.35	N	74.22	W	33	N			0.8	5	NORTHERN COLOMBIA
	26	21	40	27.5?	36.45	N	140.12	E	84	?	3.5		0.3	5	NEAR EAST COAST OF HONSHU, JAPAN
	26	22	12	49.8?	44.69	N	12.55	E	10	G			0.3	4	NORTHERN ITALY
	26	22	15	08.4	31.117	S	70.81B	W	88	D	5.0		1.2	47	CHILE-ARGENTINA BORDER REGION. Felt (II) at Santiago, Chile.
	26	22	33	46.2	44.538	N	6.789	E	10	G			0.2	7	FRANCE. ML 2.7 (GEN).
	26	23	31	39.9*	6.447	S	105.919	E	165	*	4.9		1.3	17	SUNDA STRAIT
	27	00	19	10.3	39.974	N	23.938	E	10	G	3.6	3.4	1.1	22	AEGEAN SEA. ML 3.5 (ATH).
	27	00	22	07.4	33.899	S	70.209	W	10	G	4.9	4.6	1.3	43	CHILE-ARGENTINA BORDER REGION
a	27	01	25	17.5	11.380	N	141.413	E	33	N	5.3	5.6	1.2	134	WEST CAROLINE ISLANDS. Ms 5.2 (BRK).
	27	01	27	45.5?	24.28	S	179.63	W	545	?	4.9		0.5	15	SOUTH OF FIJI ISLANDS
	27	02	29	08.3	9.353	N	83.115	W	33	N			1.1	19	COSTA RICA. MD 4.1 (HDC).
	27	03	03	27.0	34.730	N	141.542	E	46		5.0	4.4	1.1	70	OFF EAST COAST OF HONSHU, JAPAN
	27	03	32	42.8*	37.987	N	23.508	E	10	G			0.7	5	SOUTHERN GREECE. ML 2.4 (ATH).
	27	03	33	41.1*	32.549	S	69.535	W	134	?			1.2	14	MENDOZA PROVINCE, ARGENTINA
	27	03	35	46.0*	10.830	N	62.184	W	83	?			0.5	17	NEAR COAST OF VENEZUELA
	27	05	24	54.3?	36.10	S	178.35	E	126	?	5.0		1.4	10	OFF E. COAST OF N. ISLAND, N.Z.
	27	05	44	12.9*	11.327	S	119.908	E	33	N	4.4		1.5	12	SOUTH OF SUMBA ISLAND
	27	06	14	59.2	55.887	N	155.628	W	33	N	4.8		0.8	26	SOUTH OF ALASKA. ML 4.7 (PMR).
	27	07	04	38.7	31.201	N	64.810	W	10	G	5.3	4.1	0.8	115	NORTH ATLANTIC OCEAN. Felt strongly on Bermuda.
	27	08	16	24.4	34.227	N	4.828	W	10	G			1.3	11	MOROCCO
	27	08	53	18.1?	22.10	S	170.27	E	33	N	4.6	4.4	1.6	14	LOYALTY ISLANDS REGION
	27	09	59	38.6*	53.865	N	167.193	W	33	N	4.6		1.4	35	FOX ISLANDS, ALEUTIAN ISLANDS
	27	10	01	58.3	20.676	S	169.576	E	63	D	5.2		1.2	93	VANUATU ISLANDS
a	27	10	15	02.3	19.685	S	176.278	W	35	*	5.3	5.4	1.2	79	FIJI ISLANDS REGION. Ms 5.6 (BRK).
	27	10	43	49.8	46.623	N	0.098	W	10	G			1.4	14	FRANCE. ML 2.5 (LDG).
	27	11	27	11.2*	43.434	N	0.095	W	10	G			1.4	10	PYRENEES. ML 3.2 (LDG).
	27	11	36	21.4?	30.71	N	51.74	E	33	N			0.3	5	IRAN
	27	11	46	30.2?	1.10	N	126.85	E	33	N	4.8		1.0	7	MOLUCCA PASSAGE
	27	12	59	54.5*	40.482	N	24.456	E	10	G			1.1	6	AEGEAN SEA
	27	13	30	37.2	44.626	N	9.476	E	10	G			0.7	33	NORTHERN ITALY. ML 3.1 (LDG).
	27	14	04	56.3%	61.785	N	7.460	E	10	G			0.5	5	SOUTHERN NORWAY. MD 2.5 (BER).
	27	14	13	18.2	41.816	N	20.127	E	10	G	3.3		0.9	38	ALBANIA. ML 3.5 (TTG).
	27	15	09	31.5?	50.51	N	6.47	E	10	G			1.0	4	GERMANY
	27	16	18	19.8*	19.441	S	177.520	W	418	*	5.1		1.0	38	FIJI ISLANDS REGION
a	27	16	30	16.9	15.864	S	172.067	W	28	G	6.0	5.4	0.9	280	SAMOA ISLANDS REGION. Ms 5.5 (BRK). Felt (III) at Apia. Depth from broadband displacement seismograms.
a	27	16	52	24.5	0.941	S	20.930	W	10	G	4.7	5.3	1.1	43	CENTRAL MID-ATLANTIC RIDGE
	27	16	52	29.5&	37.718	N	77.775	W	14					4	VIRGINIA. <BLA-P>. mbLg 2.7 (BLA). Felt (IV) at Manakin Sobot and Oilville; (III) at Maidens and Rockville. Felt in Goochland, Honover, Louisa and Powhatan Counties.
	27	17	41	39.8	42.108	N	19.637	E	10	G			0.7	8	YUGOSLAVIA. ML 2.4 (TTG).
	27	19	24	12.5?	36.83	N	3.26	W	10	G			0.5	4	STRAIT OF GIBRALTAR. MG 2.8 (MDD).
	27	20	30	47.2	41.970	N	13.799	E	10	G			1.0	8	SOUTHERN ITALY
	27	21	00	33.8*	25.098	N	122.317	E	33	N		4.6	1.5	10	TAIWAN REGION
	27	21	52	12.9*	37.901	N	21.030	E	10	G	3.8		1.1	15	SOUTHERN GREECE. ML 3.5 (ATH).
	28	01	58	46.3?	36.58	S	70.75	W	33	N			1.0	12	CHILE-ARGENTINA BORDER REGION
	28	02	15	00.1*	26.165	S	67.644	W	33	N	4.7		0.8	8	CATAMARCA PROVINCE, ARGENTINA
	28	02	47	38.8*	31.741	S	69.689	W	150	?			0.5	13	SAN JUAN PROVINCE, ARGENTINA
	28	03	57	50.4?	38.81	N	141.65	E	33	N			0.1	4	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Ofunato; (I JMA) at Ishinomoki, Morioka and Miyako.
	28	06	19	13.9?	10.05	S	161.32	E	33	N	4.2		0.5	6	SOLOMON ISLANDS
	28	06	29	09.2?	36.68	N	2.24	W	10	G			1.3	7	STRAIT OF GIBRALTAR. MG 3.1 (MDD).
	28	07	34	56.3?	40.70	N	29.99	E	10	G			0.6	4	TURKEY
	28	08	35	11.3?	40.65	N	29.85	E	10	G			1.0	4	TURKEY
	28	10	12	38.7	30.014	N	51.800	E	10	G	4.5	3.7	1.3	27	IRAN. Felt at Shiraz.
	28	11	24	51.8?	4.64	S	153.08	E	33	N	3.9		1.4	5	NEW IRELAND REGION
	28	13	22	00.7?	17.95	N	65.47	W	10	G			0.6	6	PUERTO RICO REGION
	28	13	33	39.2?	37.91	N	30.07	E	10	G			1.1	5	TURKEY
	28	13	44	59.1*	40.920	N	22.103	E	10	G	3.2		1.5	6	GREECE
	28	15	22	38.0%	44.212	N	8.945	E	10	G			0.6	5	NORTHERN ITALY. ML 2.6 (LDG).
a	28	15	34	53.7	24.068	N	122.403	E	45	D	5.2	5.2	1.1	111	TAIWAN REGION
	28	15	43	52.7	42.242	N	19.942	E	10	G			0.7	10	YUGOSLAVIA. ML 2.8 (TTG).
	28	16	49	52.0*	33.454	N	141.031	E	61	*	4.6		0.7	12	OFF EAST COAST OF HONSHU, JAPAN
	28	17	16	29.1	19.951	S	178.623	W	616		4.9		0.9	77	FIJI ISLANDS REGION
	28	18	25	46.6?	38.39	N	26.30	W	10	G			0.4	6	AZORES ISLANDS
	28	18	47	43.3*	21.165	S	68.824	W	155	?	5.0		1.4	11	CHILE-BOLIVIA BORDER REGION
	28	19	51	14.5	26.845	N	55.898	E	34		4.8	3.9	0.9	112	SOUTHERN IRAN
	28	20	05	56.1*	16.408	S	176.713	E	33	N	4.5	4.2	1.5	13	FIJI ISLANDS REGION
	28	20	37	17.2?	17.50	S	174.69	W	178	?	4.7		0.6	9	TONGA ISLANDS
	28	21	11	20.0*	30.219	N	68.108	E	33	N	4.1		1.4	9	PAKISTAN
	28	22	55	51.7&	37.230	N	121.653	W	5					15	CENTRAL CALIFORNIA. <BRK>. ML 3.0 (BRK).
	29	00	56	50.5&	35.532	N	95.355	W	5	G				3	OKLAHOMA. <TUL>. MD 0.9 (TUL).
	29	01	38	05.7*	13.003	N	89.783	W	40	*	4.4		1.2	32	EL SALVADOR
	29	02	52	08.3	9.760	N	57.996	E	10	G	5.0	4.4	1.2	73	CARLSBERG RIDGE
	29	03	03	05.0?	8.22	S	119.78	E	145	?	3.9		1.3	8	FLORES ISLAND REGION
	29	06	09	22.5	63.285	N	150.874	W	33	N			0.8	7	CENTRAL ALASKA. ML 3.0 (PMR).
	29	07	10	08.4?	5.97	S	130.43	E	137	?	3.6		0.6	5	BANDA SEA
	29	07	38	43.2*	10.474	S	160.729	E	33	N	4.2		0.8	6	SOLOMON ISLANDS
	29	09	02	57.0	9.134	S	160.61B	E	69	*	4.3		0.6	8	SOLOMON ISLANDS
	29	10	17	03.0?	44.20	N	10.33	E	10	G			0.3	4	NORTHERN ITALY
	29	11	03	49.5	44.113	N	10.250	E	10	G			1.5	9	NORTHERN ITALY
	29	11	32	57.4%	41.081	N	28.926	E	10	G			0.5	5	TURKEY
	29	12	15	07.4%	37.739	N	25.435	W	10	G			0.4	5	AZORES ISLANDS
	29	12	17	47.0*	24.575	N	122.492	E	32	*	3.9		0.4	6	TAIWAN REGION
	29	13	14	54.6?	58.21	N	6.37	E	10	G			0.6	7	SOUTHERN NORWAY. MD 2.4 (BER).
	29	13	59	10.0%	18.103	N	66.008	W	33	N			0.1	5	PUERTO RICO REGION
	29	15	12	29.9*	39.030	N	23.545	E	10	G			1.2	6	AEGEAN SEA. ML 3.1 (ATH).
	29	17	05	52.2?	10.36	N	86.44	W	10	G			0.9	15	OFF COAST OF COSTA RICA. MD 4.2 (HDC).
	29	17	34	04.5&	37.635	N	118.951	W	6					9	CALIFORNIA-NEVADA BORDER REGION. <REN>. MD 2.8 (REN).
	29	17	42	10.4%	60.698	N	5.627	E	0	G			0.4	7	SOUTHERN NORWAY. MD 2.4 (BER). Probable explosion.
	29	17	56	11.8	13.119	N	90.972	W	20		4.4	4.0	1.0	26	NEAR COAST OF GUATEMALA

	29	18	10	45.5&	37.636	N	118.948	W	6				8	CALIFORNIA-NEVADA BORDER REGION. <REN>. MD 3.0 (REN). ML 3.0 (PAS).
	29	20	48	56.5	39.500	N	27.938	E	10 G			1.2	9	TURKEY
	29	21	33	22.6	6.012	S	80.044	W	67 D	5.1		1.1	71	NEAR COAST OF NORTHERN PERU. Felt along the coast of northern Peru.
	29	23	40	16.1&	37.636	N	118.950	W	6				4	CALIFORNIA-NEVADA BORDER REGION. <REN>. MD 2.8 (REN). ML 3.2 (PAS).
	30	00	08	15.0?	15.75	S	172.68	W	33 N	4.7		0.9	5	SAMOA ISLANDS REGION
	30	02	00	41.8*	6.654	S	130.327	E	65 ?	4.5		0.8	9	BANDA SEA
	30	02	30	32.3	37.801	N	116.126	W	5 G			0.7	9	SOUTHERN NEVADA. MD 3.3 (REN).
	30	06	54	43.0*	19.034	N	120.880	E	50 *	4.3	4.0	1.3	21	PHILIPPINE ISLANDS REGION
	30	08	00	16.1?	60.28	N	5.38	E	0 G			0.5	4	SOUTHERN NORWAY. MD 1.9 (BER). Probable explosion.
	30	10	30	22.4*	19.149	N	120.910	E	59 ?			0.9	9	PHILIPPINE ISLANDS REGION
	30	12	10	30.1*	41.207	N	22.706	E	10 G			0.6	5	YUGOSLAVIA. ML 2.8 (SKO).
	30	12	14	24.4*	18.127	N	145.664	E	137 *	4.7		1.1	26	MARIANA ISLANDS
	30	12	28	25.1&	37.512	N	118.407	W	10				49	CALIFORNIA-NEVADA BORDER REGION. <REN>. MD 3.5 (REN). ML 3.0 (BRK).
a	30	12	46	24.7	7.610	N	126.777	E	84 *	5.1		1.2	109	MINDANAO, PHILIPPINE ISLANDS
	30	13	04	39.4*	33.075	S	70.950	W	33 N			0.3	6	CHILE-ARGENTINA BORDER REGION
	30	13	56	33.7	57.117	N	141.962	W	10 G	4.7		0.9	31	OFF COAST OF SOUTHEASTERN ALASKA. ML 4.2 (PMR).
	30	14	41	51.0?	39.91	N	29.36	E	10 G			0.7	4	TURKEY
	30	14	48	40.1	28.351	N	56.241	E	77 *	4.1		1.1	20	SOUTHERN IRAN
	30	15	52	37.4?	23.84	N	45.03	W	10 G	4.4	4.3	0.7	6	NORTH ATLANTIC RIDGE
	30	16	16	53.9?	37.18	N	3.68	W	10 G			0.9	4	SPAIN. MG 2.5 (MDD).
	30	16	26	46.6?	44.61	N	7.41	E	10 G			0.2	4	NORTHERN ITALY. ML 2.0 (GEN).
	30	16	53	26.8?	17.93	N	65.37	W	10 G			0.5	6	PUERTO RICO REGION
	30	17	16	19.0	44.242	N	10.253	E	24			1.0	67	NORTHERN ITALY. ML 3.7 (LDG), 3.4 (KBA).
a	30	17	30	21.3	29.989	N	51.684	E	10 G	4.9	4.6	1.3	190	SOUTHERN IRAN. Felt at Shiraz and in the Mamasani area.
	30	17	34	43.2	42.505	N	13.212	E	10 G			0.4	12	CENTRAL ITALY
	30	18	00	00.0&	37.086	N	116.069	W	0	5.0			172	SOUTHERN NEVADA. <DOE>. ML 4.8 (BRK). 37° 05' 09.36" N., 116° 04' 06.66" W., Surface Elev. 1263 m., Depth of Burial 500 m., Shot Time 180000.089, "BULLFROG," Nevada Test Site (Dept. of Energy).
	30	18	02	16.1?	44.29	N	10.27	E	10 G			0.2	4	NORTHERN ITALY
	30	18	10	55.4?	46.23	N	5.74	E	10 G			0.1	4	FRANCE. ML 2.3 (LDG).
	30	20	02	19.4?	8.95	S	130.04	E	194 ?	4.3		1.5	7	TANIMBAR ISLANDS REGION
	30	21	47	48.2*	37.581	N	15.301	E	10 G			0.5	5	SICILY
	31	01	05	30.1	44.191	N	10.243	E	24			1.1	37	NORTHERN ITALY. ML 3.3 (LDG), 3.0 (KBA).
	31	01	09	28.8*	18.004	S	167.586	E	27 *	4.6		1.0	14	VANUATU ISLANDS
	31	03	57	27.6	36.426	N	3.554	W	10 G			1.4	7	STRAIT OF GIBRALTAR. MG 2.7 (MDD).
	31	05	07	00.0?	6.03	S	130.33	E	126 ?			0.0	5	BANDA SEA
	31	05	09	03.1*	22.789	N	99.829	E	33 N			1.5	10	BURMA-CHINA BORDER REGION
	31	05	12	11.7	36.018	N	22.515	E	62 ?	4.0		0.7	6	SOUTHERN GREECE
	31	06	01	26.2*	36.322	N	71.189	E	69 ?	4.8		0.9	25	AFGHANISTAN-USSR BORDER REGION. Felt (II) at Khorog and Ordzhonikidzeabad, USSR.
	31	06	14	14.7%	37.762	N	25.443	W	10 G			0.6	6	AZORES ISLANDS
	31	06	20	31.3%	37.764	N	25.438	W	10 G			0.3	5	AZORES ISLANDS
	31	08	40	16.8?	7.04	S	127.95	E	33 N	4.8		1.5	8	BANDA SEA
	31	08	47	41.3*	20.839	S	175.893	W	174 ?	4.7		1.1	20	TONGA ISLANDS
	31	09	06	34.1*	9.134	S	117.866	E	33 N			1.4	7	SUMBAWA ISLAND REGION
	31	09	59	21.6	44.754	N	8.803	E	10 G			0.9	17	NORTHERN ITALY. ML 3.0 (GEN).
	31	10	39	48.1	32.457	S	69.523	W	120	4.3		0.9	17	MENDOZA PROVINCE, ARGENTINA. Felt (II) at Santiago, Chile.
	31	10	43	18.1	40.840	N	108.807	W	10 G			0.6	12	COLORADO. ML 2.4 (NEIS).
	31	10	54	37.3?	44.74	N	12.04	E	10 G			1.2	5	NORTHERN ITALY. ML 1.4 (KBA).
	31	11	36	06.8%	61.826	N	7.365	E	10 G			1.2	8	SOUTHERN NORWAY. MD 2.6 (BER).
	31	12	04	31.5?	6.76	S	131.31	E	33 N			1.4	5	TANIMBAR ISLANDS REGION
	31	12	55	43.2?	5.00	S	149.28	E	33 N	3.6		1.3	6	NEW BRITAIN REGION
	31	13	08	46.6	8.109	S	158.070	E	92	4.9		0.9	52	SOLOMON ISLANDS
	31	14	16	47.4*	37.207	S	73.938	W	33 N	4.6		1.0	22	NEAR COAST OF CENTRAL CHILE
	31	15	49	55 6%	42.611	N	24.041	E	10 G			0.6	5	BULGARIA
	31	15	54	40.4%	43.744	N	7.316	E	10 G			0.1	5	NEAR SOUTH COAST OF FRANCE. MD 1.0 (STR).
	31	16	23	18.7&	33.430	N	118.020	W	6 G				7	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
	31	16	45	16.3	31.824	N	115.834	W	5 G	5.1	4.5	0.9	81	BAJA CALIFORNIA. ML 5.4 (PAS). Felt at Ensenada and Mexicali, Mexico. Felt (IV) at Ocotillo and (III) at Coronado, Lakeside, Pacific Beach, Potrero, Romona, San Diego and Warner Springs, California.
	31	17	23	33.1*	19.180	S	68.205	W	33 N			1.3	5	CHILE-BOLIVIA BORDER REGION
	31	17	35	39 8%	61.069	N	10.035	E	10 G			0.7	8	SOUTHERN NORWAY. MD 2.4 (BER).
	31	18	16	58 5?	34.21	S	71.03	W	33 N			0.4	7	NEAR COAST OF CENTRAL CHILE
	31	18	39	02 5%	46.675	N	9.666	E	10 G			1.1	6	SWITZERLAND
	31	18	47	57 2*	38.345	N	20.496	E	10 G			1.2	5	GREECE. ML 3.6 (ATH).
	31	19	13	53.8?	51.56	N	19.76	E	10 G			0.9	7	POLAND. ML 3.1 (KRA).
	31	20	13	18.8%	41.518	N	13.086	E	10 G			0.5	5	SOUTHERN ITALY
	31	20	37	14.5	42.303	N	19.945	E	10 G			1.1	8	YUGOSLAVIA. ML 2.6 (TTG).
	31	20	53	55.9%	37.760	N	25.432	W	10 G			0.4	6	AZORES ISLANDS
	31	21	48	23.8&	31.820	N	115.810	W	6 G				3	BAJA CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	31	22	23	42.0?	37.80	N	25.43	W	5 G			0.2	4	AZORES ISLANDS

ADDITIONAL SOURCE PARAMETERS

02 08 31 01.79 18.100S 178.463W 608km
5.1mb (35 abs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 22C
Centraid Lacatian:
Origin Time 08:31: 9.4 0.9
Lat 18.05S 0.09 Lan 178.80W 0.08
Dep 604.9 4.4 Half-duration 1.6
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	0.81	67	16
N	0.48	22	176
P	-1.29	7	269

Best Double Cauple:Ma=1.1*10**17
NP1:Strike= 22 Dip=42 Slip= 123
NP2: 160 56 63

02 22 08 31.45 58.015S 25.133W 26km
5.5mb (8 obs.) 5.3Msz (6 abs.)
SOUTH SANDWICH ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 30C
Centroid Lacatian:
Origin Time 22:08:39.1 0.2
Lat 57.88S 0.03 Lan 24.53W 0.05
Dep 30.7 2.2 Half-duratian 2.7
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	3.90	75	258
N	0.32	1	164
P	-4.22	15	73

Best Double Cauple:Ma=4.1*10**17
NP1:Strike=162 Dip=30 Slip= 88
NP2: 344 60 91

03 05 43 14.81 36.483N 70.950E 201km
5.5mb (90 abs.)
HINDU KUSH REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 24C
Centraid Location:
Origin Time 05:43:17.1 0.7
Lat 35.74N 0.07 Lan 70.25E 0.05
Dep 210.7 3.7 Half-duration 2.3
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	2.01	64	265
N	0.74	24	109
P	-2.75	10	15

Best Double Cauple:Mo=2.4*10**17
NP1:Strike= 79 Dip=41 Slip= 52
NP2: 305 59 118

03 17 30 15.49 18.665N 106.480W 33km
4.9mb (15 abs.) 5.4Msz (3 obs.)
OFF COAST OF JALISCO, MEXICO
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 25C
Centroid Location:
Origin Time 17:30:13.2 0.5
Lat 18.80N 0.05 Lan 106.50W 0.05
Dep 15.0 FIX Half-duration 2.2
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	1.94	0	241
N	-0.36	90	180
P	-1.58	0	151

Best Double Cauple:Ma=1.8*10**17
NP1:Strike=286 Dip=90 Slip= 180
NP2: 16 90 0

04 06 18 42.70 42.877S 85.834W 6km
5.9mb (26 abs.) 4.9Msz (3 obs.)
WEST CHILE RISE
MOMENT TENSOR SOLUTION
Dep 28 No. af sta: 3
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	4.57	5	315
N	0.08	81	195
P	-4.66	8	45

Best Double Cauple:Mo=4.6*10**17
NP1:Strike= 90 Dip=81 Slip= -3
NP2: 180 87 -171
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 29C
Centraid Lacatian:
Origin Time 06:18:45.3 0.4
Lat 42.72S 0.05 Lon 85.99W 0.06
Dep 15.0 FIX Half-duratian 1.9
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	0.81	0	136
N	0.79	90	180
P	-1.61	0	46

Best Double Couple:Mo=1.2*10**17
NP1:Strike=181 Dip=90 Slip= 180
NP2: 271 90 0

04 17 16 45.32 33.720S 179.791W 10km
5.5mb (16 obs.) 5.0Msz (2 obs.)
SOUTH OF KERMADEC ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 29C
Centroid Lacatian:
Origin Time 17:16:52.1 0.6
Lat 33.62S 0.07 Lon 179.80W 0.08
Dep 33.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	2.00	40	280
N	-0.27	9	18
P	-1.73	49	119

Best Double Couple:Ma=1.9*10**17
NP1:Strike=315 Dip=10 Slip=-154
NP2: 199 85 -81

05 10 07 45.08 39.000S 16.024W 10km
5.4mb (25 obs.) 4.9Msz (4 obs.)
SOUTH ATLANTIC RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 31C
Centraid Lacatian:
Origin Time 10:07:50.5 1.4
Lat 38.45S 0.10 Lan 15.98W 0.13
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	8.13	7	232
N	0.64	22	139
P	-8.77	67	339

Best Double Couple:Mo=8.4*10**16
NP1:Strike=345 Dip=42 Slip= -57
NP2: 123 56 -117

05 21 46 15.21 41.921S 16.455W 10km
5.3mb (23 obs.) 5.0Msz (1 obs.)
SOUTH ATLANTIC RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 26C
Centroid Location:
Origin Time 21:46:19.2 1.4
Lat 41.76S 0.13 Lon 16.53W 0.15
Dep 15.0 FIX Half-duration 1.4
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	4.95	5	65
N	-0.16	8	156
P	-4.79	81	301

Best Double Couple:Mo=4.9*10**16
NP1:Strike=147 Dip=40 Slip=-102
NP2: 342 51 -80

06 00 36 24.65 25.149N 95.127E 91km
6.8mb (63 obs.) 7.2Msz (14 obs.)
BURMA-INDIA BORDER REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=290 Dip=45 Slip= 65
NP2: 143 50 113
Principal Axes:

	Plg=	Azm=
T	72	119
P	3	217

Comment: The focal mechanism is moderately well controlled and corresponds to reverse faulting with a moderate strike-slip component. The preferred fault plane is not determined.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 29C M.W.: 13S, 34C
Centraid Location:
Origin Time 00:36:37.6 0.2
Lat 25.19N 0.01 Lon 94.89E 0.02
Dep 100.5 0.9 Half-duratian 17.0
Principal Axes:
Scale 10**19 Nm

	Val=	Plg=	Azm=
T	8.50	65	117
N	0.79	24	310
P	-9.29	5	217

Best Double Couple:Ma=8.9*10**19
NP1:Strike=284 Dip=45 Slip= 55
NP2: 148 54 120

06 06 26 55.64 7.136S 151.057E 25km
5.9mb (39 obs.) 5.7Msz (17 abs.)
NEW BRITAIN REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=230 Dip=68 Slip= 90
NP2: 50 22 90
Principal Axes:

	Plg=	Azm=
T	67	140
P	23	320

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. F
Energy 4.7±1.4*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 34 No. of sta: 6
Principal Axes:
Scale 10**18 Nm

	Val=	Plg=	Azm=
T	1.65	61	194
N	0.08	23	53
P	-1.74	16	316

Best Double Cauple:Ma=1.7*10**18
NP1:Strike= 16 Dip=35 Slip= 47
NP2: 245 65 116
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 30C
Centraid Location:
Origin Time 06:27: 7.9 1.9
Lat 6.79S 0.12 Lan 150.87E 0.12
Dep 49.2 5.4 Half-duration 3.8
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	12.40	58	247
N	-1.55	31	53
P	-10.85	6	147

Best Double Cauple:Mo=1.2*10**18
NP1:Strike=267 Dip=48 Slip= 135
NP2: 31 58 52

06 09 03 21.95 36.461N 71.043E 195km
6.1mb (98 obs.)
AFGHANISTAN-USSR BORDER REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=250 Dip=60 Slip= 90
NP2: 70 30 90
Principal Axes:

	Plg=	Azm=
T	75	160
P	15	340

Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
RADIATED ENERGY
No. of sta: 6 Focal mech. M
Energy 3.0±0.7*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 189 No. of sta: 13
Principal Axes:
Scale 10**18 Nm

	Val=	Plg=	Azm=
T	2.66	70	137
N	0.05	10	256
P	-2.72	17	349

Best Double Cauple:Ma=2.7*10**18
NP1:Strike= 94 Dip=29 Slip= 111
NP2: 250 63 79
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 33C
Centroid Location:
Origin Time 09:03:23.7 0.4
Lat 36.17N 0.06 Lon 70.73E 0.05

Dep 192.5 2.2 Half-duratian 3 2
Principal Axes:
Scale 10**18 Nm
T Val= 2.42 Plg=63 Azm=192
N 0.38 18 61
P -2.80 19 325
Best Double Couple:Mo=2.6*10**18
NP1:Strike= 28 Dip=31 Slip= 52
NP2: 250 66 110

07 06 23 56.09 14.906N 119.872E 38km
5.0mb (11 obs.) 5.2Msz (2 obs.)
LUZON, PHILIPPINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 7S, 12C
Centraid Lacatian:
Origin Time 06:23:59.4 1.6
Lat 15.04N 0.12 Lon 119.26E 0.21
Dep 66.314.2 Half-duratian 1.3
Principal Axes:
Scale 10**16 Nm
T Val= 3.57 Plg=69 Azm=140
N 0.46 17 355
P -4.02 11 262
Best Double Couple:Mo=3.8*10**16
NP1:Strike=331 Dip=37 Slip= 61
NP2: 186 58 110

07 15 34 07.10 7.144S 129.327E 170km
5.4mb (21 obs.)
BANDA SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 23C
Centraid Lacatian:
Origin Time 15:34:10.2 1.0
Lat 6.98S 0.08 Lon 129.47E 0.12
Dep 170.0 2.5 Half-duration 1.3
Principal Axes:
Scale 10**16 Nm
T Val= 5.76 Plg=66 Azm=270
N -0.84 13 32
P -4.92 20 127
Best Double Couple:Mo=5.3*10**16
NP1:Strike=238 Dip=28 Slip= 119
NP2: 26 66 75

07 19 24 47.35 10.182N 125.521E 136km
5.3mb (32 obs.)
LEYTE, PHILIPPINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 17C
Centraid Location:
Origin Time 19:24:47.7 0.8
Lat 10.44N 0.08 Lon 125.36E 0.16
Dep 138.7 5.1 Half-duration 1.4
Principal Axes:
Scale 10**16 Nm
T Val= 4.99 Plg=40 Azm=125
N 1.90 9 222
P -6.88 49 322
Best Double Couple:Mo=5.9*10**16
NP1:Strike=160 Dip=10 Slip=-153
NP2: 43 86 -81

08 05 04 28.01 13.760N 120.577E 94km
5.4mb (54 obs.)
MINDORO, PHILIPPINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Dato Used: GDSN
L.P.B.: 8S, 20C
Centroid Locotion:
Origin Time 05:04:27.7 0.3
Lat 13.55N 0.04 Lon 120.45E 0.06
Dep 97.1 3.3 Half-duration 2.2
Principal Axes:
Scale 10**17 Nm
T Val= 2.71 Plg=48 Azm=343
N -0.91 14 90
P -1.80 38 191
Best Double Couple:Mo=2.3*10**17
NP1:Strike=339 Dip=15 Slip= 160
NP2: 88 85 76

08 13 37 31.64 56.268N 153.559W 15km
4.8mb (27 obs.) 4.8Msz (3 obs.)
KODIAK ISLAND REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 26C
Centraid Location:
Origin Time 13:37:36.9 1.4
Lat 55.91N 0.16 Lan 152.77W 0.20
Dep 15.0 FIX Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 6.36 Plg=57 Azm=296
N 1.07 11 44
P -7.43 31 141
Best Double Couple:Ma=6.9*10**16
NP1:Strike=263 Dip=18 Slip= 131
NP2: 42 77 78

08 17 15 05.14 7.941S 128.375E 81km
5.3mb (18 obs.)
BANDA SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 19C
Centroid Locatian:
Origin Time 17:15:12.1 1.5
Lat 7.47S 0.17 Lan 127.75E 0.11
Dep 37.1 9.4 Half-duratian 1.5
Principal Axes:
Scale 10**17 Nm
T Val= 1.01 Plg=37 Azm=342
N 0.32 5 76
P -1.34 53 173
Best Double Couple:Ma=1.2*10**17
NP1:Strike= 44 Dip= 9 Slip=-123
NP2: 257 82 -85

08 19 59 31.88 63.673N 2.397E 10km
5.7mb (70 obs.) 5.3Msz (13 obs.)
NORWEGIAN SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 20C
Centroid Locatian:
Origin Time 19:59:36.2 0.6
Lat 63.01N 0.10 Lan 1.84E 0.09
Dep 15.0 BDY Half-duration 2.3
Principal Axes:
Scale 10**17 Nm
T Val= 2.86 Plg=67 Azm= 19
N -0.39 23 191
P -2.47 3 282
Best Double Couple:Ma=2.7*10**17
NP1:Strike= 34 Dip=47 Slip= 122
NP2: 172 52 61

09 01 56 31.57 44.769S 35.379E 30km
5.1mb (10 obs.) 5.1Msz (2 obs.)
PRINCE EDWARD ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 33C
Centraid Location:
Origin Time 01:56:34.0 0.4
Lat 44.60S 0.05 Lon 35.15E 0.05
Dep 15.0 FIX Half-duration 2.3
Principal Axes:
Scale 10**17 Nm
T Val= 2.75 Plg=15 Azm=148
N -0.43 75 323
P -2.32 1 58
Best Double Couple:Mo=2.5*10**17
NP1:Strike=192 Dip=78 Slip= 170
NP2: 284 80 12

09 14 34 45.06 1.336S 100.746E 104km
5.0mb (20 obs.)
SOUTHERN SUMATERA
CENTROID, MOMENT TENSOR (HRV)
Dato Used: GDSN
L.P.B.: 10S, 20C
Centroid Locatian:
Origin Time 14:34:41.7 0.8
Lat 1.55S 0.07 Lan 100.35E 0.12
Dep 93.1 8.3 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 5.66 Plg=43 Azm= 21
N 0.23 28 141
P -5.89 34 252
Best Double Couple:Mo=5.8*10**16
NP1:Strike= 39 Dip=28 Slip= 169
NP2: 138 85 62

09 16 51 36.56 24.206N 122.307E 53km
5.3mb (43 obs.) 4.5Msz (3 obs.)
TAIWAN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 14C
Centraid Location:
Origin Time 16:51:35.7 1.1
Lat 24.11N 0.12 Lon 121.96E 0.19
Dep 58.010.0 Half-duratian 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 5.65 Plg=63 Azm= 29
N 0.88 20 165
P -6.53 17 261
Best Double Couple:Mo=6.1*10**16
NP1:Strike= 19 Dip=33 Slip= 129
NP2: 155 65 68

10 04 38 26.17 10.366S 160.819E 34km
6.1mb (32 obs.) 7.4Msz (21 obs.)
SOLOMON ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=170 Dip=76 Slip= 90
NP2: 350 14 90
Principal Axes:
T Plg=59 Azm= 80
P 31 260
Comment: The facal mechanism is poarly cantralled and carresponds to reverse faulting. The preferred fault plane is NP2.
RADIATED ENERGY
No. of sta: 12 Focal mech. F
Energy 3.5±0.8*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 28 No. af sta: 9
Principal Axes:
Scale 10**19 Nm
T Val= 6.46 Plg=72 Azm=103
N -0.08 1 10
P -6.38 18 279
Best Double Couple:Ma=6.4*10**19
NP1:Strike= 7 Dip=27 Slip= 87
NP2: 190 63 91
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 30C M.W.: 11S, 31C
Centraid Location:
Origin Time 04:38:44.3 0.2
Lat 10.49S 0.01 Lan 160.77E 0.01
Dep 16.2 BDY Half-duratian 18.0
Principal Axes:
Scale 10**20 Nm
T Val= 2.60 Plg=61 Azm= 35
N -0.12 8 141
P -2.47 28 235
Best Double Couple:Mo=2.5*10**20
NP1:Strike=346 Dip=19 Slip= 116
NP2: 138 73 81

10 11 46 46.68 28.194S 112.648W 10km
5.9mb (25 obs.) 5.9Msz (12 obs.)
EASTER ISLAND REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=345 Dip=89 Slip=-178
NP2: 255 88 -1
Principal Axes:
T Plg= 1 Azm=120
P 2 210
Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting. The preferred fault plane is not determined.
CENTROID, MOMENT TENSOR (HRV)
Dato Used: GDSN
L.P.B.: 9S, 21C
Centroid Locotion:
Origin Time 11:46:55.4 1.3
Lot 28.48S 0.12 Lon 112.55W 0.09
Dep 15.0 BDY Half-duratian 3.7
Principal Axes:
Scale 10**17 Nm
T Val= 9.66 Plg=56 Azm= 93
N 0.87 32 290
P -10.53 8 195
Best Double Couple:Ma=1.0*10**18
NP1:Strike=253 Dip=47 Slip= 42
NP2: 131 61 128

10 13 11 19.44 14.880S 167.293E 125km
6.2mb (44 obs.)
VANUATU ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=152 Dip=60 Slip= 147
NP2: 260 62 35

Principal Axes:
T Plg=43 Azm=117
P 1 26
Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting with a large reverse component. The preferred fault plane is not determined.
RADIATED ENERGY
No. of sta: 11 Focal mech. C
Energy 3.1±0.6*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 143 No. of sta: 13
Principal Axes:
Scale 10**19 Nm
T Val= 1.87 Plg=48 Azm=161
N -0.07 41 323
P -1.81 9 61
Best Double Couple:Mo=1.8*10**19
NP1:Strike=188 Dip=51 Slip= 148
NP2: 300 66 44
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 44C M.W.: 13S, 38C
Centroid Location:
Origin Time 13:11:26.2 0.2
Lat 14.95S 0.02 Lon 167.18E 0.02
Dep 141.5 0.8 Half-duration 8.8
Principal Axes:
Scale 10**18 Nm
T Val= 16.97 Plg=48 Azm=151
N -1.78 41 314
P -15.19 8 52
Best Double Couple:Mo=1.6*10**19
NP1:Strike=179 Dip=51 Slip= 147
NP2: 290 65 44

10 21 19 13.13 10.175S 160.519E 42km
5.2mb (15 obs.) 5.3Msz (10 obs.)
SOLOMON ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 24C
Centroid Location:
Origin Time 21:19:14.9 0.5
Lat 10.19S FIX;Lon 160.54E FIX
Dep 15.0 BDY Half-duration 2.5
Principal Axes:
Scale 10**17 Nm
T Val= 3.22 Plg=62 Azm= 5
N -0.61 21 140
P -2.62 18 237
Best Double Couple:Mo=2.9*10**17
NP1:Strike=357 Dip=33 Slip= 131
NP2: 131 66 67

10 22 41 25.99 10.669S 161.025E 33km
4.8mb (4 obs.) 5.0Msz (1 obs.)
SOLOMON ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 7S, 13C
Centroid Location:
Origin Time 22:41:29.4 1.8
Lat 10.45S 0.19 Lon 160.71E 0.20
Dep 40.116.4 Half-duration 1.4
Principal Axes:
Scale 10**16 Nm
T Val= 4.62 Plg=64 Azm= 34
N 0.98 16 160
P -5.60 20 256
Best Double Couple:Mo=5.1*10**16
NP1:Strike= 12 Dip=29 Slip= 126
NP2: 153 67 72

11 03 05 40.52 49.224N 28.379W 10km
5.4mb (76 obs.) 5.2Msz (17 obs.)
NORTH ATLANTIC RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 26C
Centroid Location:
Origin Time 03:05:38.9 0.7
Lat 48.56N 0.10 Lon 28.27W 0.05
Dep 15.0 FIX Half-duration 1.9
Principal Axes:
Scale 10**17 Nm
T Val= 1.35 Plg= 0 Azm=253
N -0.30 0 163
P -1.04 90 180
Best Double Couple:Mo=1.2*10**17
NP1:Strike=343 Dip=45 Slip= -90
NP2: 163 45 -90

11 03 40 57.47 21.894N 121.351E 38km
5.4mb (55 obs.) 4.9Msz (6 obs.)
TAIWAN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 23C
Centroid Location:
Origin Time 03:40:59.0 0.5
Lat 21.85N 0.05 Lon 121.15E 0.10
Dep 52.6 6.5 Half-duration 1.9
Principal Axes:
Scale 10**17 Nm
T Val= 1.44 Plg=41 Azm= 86
N 0.12 47 290
P -1.56 12 187
Best Double Couple:Mo=1.5*10**17
NP1:Strike=235 Dip=52 Slip= 23
NP2: 130 72 140

11 13 29 20.60 18.062S 65.418E 10km
5.5mb (55 obs.) 5.6Msz (13 obs.)
MASCARENE ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 39C M.W.: 12S, 25C
Centroid Location:
Origin Time 13:29:30.8 0.3
Lat 17.58S 0.02 Lon 65.51E 0.03
Dep 15.0 FIX Half-duration 5.3
Principal Axes:
Scale 10**18 Nm
T Val= 2.72 Plg=10 Azm=281
N -0.21 72 159
P -2.51 15 14
Best Double Couple:Mo=2.6*10**18
NP1:Strike= 57 Dip=72 Slip= -4
NP2: 148 86 -162

11 16 00 07.54 29.971N 51.575E 32km
5.3mb (70 obs.) 5.6Msz (3 obs.)
SOUTHERN IRAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 30C
Centroid Location:
Origin Time 16:00: 8.6 0.8
Lat 29.87N 0.07 Lon 51.06E 0.06
Dep 15.0 BDY Half-duration 2.8
Principal Axes:
Scale 10**17 Nm
T Val= 6.44 Plg=19 Azm=145
N -1.56 68 354
P -4.88 10 238
Best Double Couple:Mo=5.7*10**17
NP1:Strike=283 Dip=69 Slip= 7
NP2: 190 84 159

11 16 04 45.61 29.974N 51.679E 33km
5.7mb (56 obs.) 6.1Msz (14 obs.)
SOUTHERN IRAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 30C
Centroid Location:
Origin Time 16:04:49.1 0.5
Lat 30.00N 0.05 Lon 51.69E 0.05
Dep 15.0 FIX Half-duration 3.5
Principal Axes:
Scale 10**18 Nm
T Val= 1.41 Plg=11 Azm=121
N 0.03 61 11
P -1.44 27 216
Best Double Couple:Mo=1.4*10**18
NP1:Strike=256 Dip=63 Slip= -12
NP2: 351 79 -152

12 01 53 07.42 8.305N 103.043W 10km
4.7mb (9 obs.) 4.7Msz (1 obs.)
OFF COAST OF MEXICO
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 28C
Centroid Location:
Origin Time 01:53: 9.2 0.9
Lat 8.55N 0.08 Lon 103.39W 0.08
Dep 15.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Val= 8.17 Plg= 0 Azm=220
N 0.18 90 180
P -8.35 0 130
Best Double Couple:Mo=8.3*10**16
NP1:Strike=265 Dip=90 Slip= 180
NP2: 355 90 0

12 05 14 54.14 35.021N 139.804E 70km
5.2mb (43 obs.)
NEAR S. COAST OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 23C
Centroid Location:
Origin Time 05:14:56.7 0.8
Lat 35.00N 0.07 Lon 139.40E 0.17
Dep 71.1 6.2 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 5.44 Plg=58 Azm= 74
N 1.27 31 239
P -6.71 7 333
Best Double Couple:Mo=6.1*10**16
NP1:Strike= 93 Dip=47 Slip= 135
NP2: 218 59 53

12 18 58 47.79 39.674N 74.582E 33km
5.7mb (13 obs.)
SOUTHERN XINJIANG, CHINA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 23C
Centroid Location:
Origin Time 18:58:51.6 0.7
Lat 39.82N 0.07 Lon 74.20E 0.09
Dep 15.0 FIX Half-duration 1.9
Principal Axes:
Scale 10**17 Nm
T Val= 1.59 Plg=79 Azm= 50
N 0.15 4 299
P -1.74 11 208
Best Double Couple:Mo=1.7*10**17
NP1:Strike=293 Dip=35 Slip= 83
NP2: 122 56 95

13 05 46 15.11 4.777N 125.740E 143km
5.6mb (48 obs.)
TALAUD ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=172 Dip=89 Slip= -40
NP2: 263 50 -179
Principal Axes:
T Plg=26 Azm=225
P 28 120
Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting with a large normal component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 121 No. of sta: 7
Principal Axes:
Scale 10**17 Nm
T Val= 6.92 Plg=27 Azm=231
N 0.13 35 341
P -7.05 43 113
Best Double Couple:Mo=7.0*10**17
NP1:Strike=271 Dip=37 Slip=-164
NP2: 168 80 -54
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 36C
Centroid Location:
Origin Time 05:46:14.4 0.4
Lat 4.65N 0.04 Lon 125.60E 0.05
Dep 138.7 1.3 Half-duration 2.9
Principal Axes:
Scale 10**17 Nm
T Val= 5.25 Plg=18 Azm=226
N -0.10 34 329
P -5.15 50 112
Best Double Couple:Mo=5.2*10**17
NP1:Strike=276 Dip=40 Slip=-150
NP2: 162 71 -54

13 12 36 21.62 16.518S 167.251E 33km
5.3mb (4 obs.)
VANUATU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 20C
Centroid Location:
Origin Time 12:36:22.4 0.9
Lat 16.33S 0.11 Lon 166.88E 0.10
Dep 38.2 6.9 Half-duration 1.4

Principal Axes:
Scale 10**16 Nm
T Val= 4.23 Plg=83 Azm=218
N 0.54 3 335
P -4.78 6 65
Best Double Couple:Mo=4.5*10**16
NP1:Strike=159 Dip=39 Slip= 95
NP2: 332 51 86

13 14 16 20.84 18.512S 175.641W 33km
4.9mb (14 obs.) 5.3Msz (10 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 44C
Centraid Lacotian:
Origin Time 14:16:22.0 0.3
Lat 19.00S 0.04 Lan 175.63W 0.03
Dep 15.0 FIX Half-duration 2.5
Principal Axes:
Scale 10**17 Nm
T Val= 3.66 Plg= 8 Azm=234
N -0.23 74 114
P -3.43 14 326
Best Double Couple:Mo=3.5*10**17
NP1:Strike= 9 Dip=75 Slip= -4
NP2: 100 86 -165

13 16 20 26.01 10.009S 160.064E 33km
5.2mb (8 obs.) 4.8Msz (3 obs.)
SOLOMON ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 16C
Centraid Lacotian:
Origin Time 16:20:33.1 1.3
Lat 9.99S FIX;Lan 160.00E FIX
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 8.09 Plg=56 Azm= 29
N 0.82 12 137
P -8.91 31 234
Best Double Couple:Mo=8.5*10**16
NP1:Strike=358 Dip=18 Slip= 133
NP2: 134 77 78

13 19 59 51.10 25.320N 95.156E 92km
5.0mb (56 obs.)
BURMA-INDIA BORDER REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 22C
Centraid Lacotian:
Origin Time 19:59:52.7 1.3
Lat 24.94N 0.13 Lan 95.24E 0.13
Dep 126.0 4.7 Half-duration 1.4
Principal Axes:
Scale 10**16 Nm
T Val= 4.78 Plg=73 Azm= 98
N -0.45 12 325
P -4.33 12 232
Best Double Couple:Mo=4.6*10**16
NP1:Strike=307 Dip=35 Slip= 69
NP2: 152 58 104

14 10 56 57.58 54.618N 152.678E 645km
5.4mb (95 obs.)
SEA OF OKHOTSK
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B. : 12S, 34C
Centraid Lacotian:
Origin Time 10:57: 2.1 0.2
Lat 54.62N 0.02 Lan 152.99E 0.04
Dep 648.9 1.8 Half-duration 4.2
Principal Axes:
Scale 10**18 Nm
T Val= 1.49 Plg=47 Azm= 85
N 0.04 2 177
P -1.53 43 268
Best Double Couple:Mo=1.5*10**18
NP1:Strike= 30 Dip= 3 Slip= 124
NP2: 176 88 88

14 13 11 43.44 21.845S 69.997W 72km
5.1mb (10 obs.)
NORTHERN CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 30C
Centraid Lacotian:
Origin Time 13:11:51.4 0.7
Lat 21.47S 0.10 Lan 70.44W 0.09
Dep 110.1 4.6 Half-duration 1.4
Principal Axes:
Scale 10**16 Nm
T Val= 5.10 Plg=15 Azm= 81
N 0.67 7 172
P -5.77 74 287
Best Double Couple:Mo=5.4*10**16
NP1:Strike=161 Dip=31 Slip=-104
NP2: 356 60 -82

14 17 53 09.75 27.260S 71.092W 33km
5.7mb (48 obs.) 6.5Msz (19 obs.)
NEAR COAST OF NORTHERN CHILE
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=200 Dip=80 Slip= 92
NP2: 9 10 79
Principal Axes:
T Plg=55 Azm=112
P 35 288
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 9.8±4.2*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 33 No. of sta: 6
Principal Axes:
Scale 10**19 Nm
T Val= 0.89 Plg=59 Azm=106
N 0.23 14 222
P -1.12 27 319
Best Double Couple:Mo=1.0*10**19
NP1:Strike= 80 Dip=22 Slip= 131
NP2: 217 73 75
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 20S, 58C M.W.: 10S, 23C
Centraid Lacotian:
Origin Time 17:53:18.6 0.1
Lat 27.31S 0.02 Lon 71.23W 0.02
Dep 38.9 1.4 Half-duration 7.0
Principal Axes:
Scale 10**18 Nm
T Val= 10.67 Plg=51 Azm=132
N 1.48 13 24
P -12.16 36 285
Best Double Couple:Mo=1.1*10**19
NP1:Strike=326 Dip=16 Slip= 31
NP2: 206 82 103

15 09 59 24.07 8.757N 126.341E 52km
5.6mb (44 obs.)
MINDANAO, PHILIPPINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 37C
Centroid Lacotian:
Origin Time 09:59:26.9 0.2
Lat 8.44N 0.02 Lan 126.56E 0.03
Dep 55.2 BDY Half-duration 4.0
Principal Axes:
Scale 10**18 Nm
T Val= 1.48 Plg=79 Azm=347
N 0.35 10 189
P -1.82 4 98
Best Double Couple:Mo=1.6*10**18
NP1:Strike=177 Dip=42 Slip= 74
NP2: 18 50 104

15 14 25 24.62 9.467S 117.355E 67km
5.1mb (17 obs.)
SUMBAWA ISLAND REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 26C
Centroid Lacotian:
Origin Time 14:25:26.7 1.7
Lat 10.03S 0.19 Lan 117.75E 0.17
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 9.87 Plg=21 Azm=327
N 4.44 40 76
P -14.31 43 217
Best Double Couple:Mo=1.2*10**17
NP1:Strike= 12 Dip=43 Slip=-160
NP2: 267 77 -48

16 08 46 18.95 36.774S 78.824E 10km
5.3mb (9 obs.) 5.6Msz (6 obs.)
MID-INDIAN RISE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 36C
Centraid Lacotian:
Origin Time 08:46:23.4 0.4
Lat 36.72S 0.05 Lan 78.55E 0.04
Dep 15.0 FIX Half-duration 2.3
Principal Axes:
Scale 10**17 Nm
T Val= 2.38 Plg= 0 Azm= 93
N -0.09 90 180
P -2.29 0 3
Best Double Couple:Mo=2.3*10**17
NP1:Strike=138 Dip=90 Slip= 180
NP2: 228 90 0

17 01 59 07.71 7.698S 107.150E 27km
6.1mb (86 obs.) 5.8Msz (22 obs.)
JAVA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=290 Dip=53 Slip= 90
NP2: 110 37 90
Principal Axes:
T Plg=82 Azm=200
P 8 20
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is not determined.
RADIATED ENERGY
No. of sta: 9 Focal mech. M
Energy 1.4±0.2*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 27 No. of sta: 14
Principal Axes:
Scale 10**18 Nm
T Val= 1.25 Plg=86 Azm=125
N 0.00 4 278
P -1.25 2 8
Best Double Couple:Mo=1.3*10**18
NP1:Strike=102 Dip=43 Slip= 96
NP2: 274 47 85
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 40C M.W.: 12S, 21C
Centraid Lacotian:
Origin Time 01:59:23.5 0.5
Lat 7.58S 0.03 Lan 107.80E 0.03
Dep 66.1 1.4 Half-duration 3.7
Principal Axes:
Scale 10**18 Nm
T Val= 1.10 Plg=82 Azm=153
N 0.14 6 300
P -1.24 4 31
Best Double Couple:Mo=1.2*10**18
NP1:Strike=128 Dip=41 Slip= 100
NP2: 295 49 82

17 08 16 22.97 27.040S 70.974W 30km
5.4mb (39 obs.)
NEAR COAST OF NORTHERN CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 30C
Centraid Lacotian:
Origin Time 08:16:28.6 0.5
Lat 26.93S 0.11 Lan 71.04W 0.10
Dep 15.0 FIX Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.75 Plg=49 Azm= 58
N -0.24 12 162
P -1.51 39 261
Best Double Couple:Mo=1.6*10**17
NP1:Strike= 46 Dip=13 Slip= 155
NP2: 161 85 78

17 11 34 52.25 27.001S 70.948W 39km
5.5mb (33 obs.) 5.7Msz (10 obs.)
NEAR COAST OF NORTHERN CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 42C
Centraid Location:
Origin Time 11:34:55.3 0.3
Lat 26.72S 0.06 Lon 71.18W 0.07
Dep 15.0 BDY Half-duration 3.7
Principal Axes:
Scale 10**18 Nm
T Val= 1.66 Plg=49 Azm= 62

N -0.19 10 164
P -1.47 40 262
Best Double Couple:Mo=1.6*10**18
NP1:Strike= 49 Dip=11 Slip= 156
NP2: 163 85 80

17 12 38 15.52 26.924S 70.985W 37km
5.4mb (16 obs.) 5.5Msz (1 obs.)
NEAR COAST OF NORTHERN CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 28C
Centroid Location:
Origin Time 12:38:20.3 0.5
Lat 26.68S 0.09 Lon 70.64W 0.13
Dep 15.0 FIX Half-duration 2.2
Principal Axes:
Scale 10**17 Nm
T Val= 3.93 Plg=43 Azm= 60
N -0.90 9 159
P -3.03 46 258
Best Double Couple:Mo=3.5*10**17
NP1:Strike= 78 Dip= 9 Slip=-171
NP2: 339 88 -81

17 14 26 03.56 27.062S 71.060W 31km
5.2mb (15 obs.) 4.7Msz (1 obs.)
NEAR COAST OF NORTHERN CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 28C
Centroid Location:
Origin Time 14:26: 8.5 0.6
Lat 27.00S 0.11 Lon 70.85W 0.18
Dep 15.0 FIX Half-duration 1.9
Principal Axes:
Scale 10**17 Nm
T Val= 2.03 Plg=49 Azm= 74
N 0.00 9 174
P -2.03 40 271
Best Double Couple:Mo=2.0*10**17
NP1:Strike= 56 Dip=10 Slip= 152
NP2: 173 85 81

17 23 09 40.87 1.555N 124.785E 33km
5.3mb (10 obs.) 4.5Msz (4 obs.)
MINAHASSA PENINSULA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 28C
Centroid Location:
Origin Time 23:09:37.2 0.8
Lat 1.51N 0.07 Lon 125.21E 0.13
Dep 29.6 9.8 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 6.24 Plg=26 Azm=275
N 0.45 59 131
P -6.69 16 13
Best Double Couple:Mo=6.5*10**16
NP1:Strike= 56 Dip=60 Slip= 8
NP2: 322 83 149

18 06 32 18.64 4.128S 153.585E 260km
5.4mb (26 obs.)
NEW IRELAND REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 21C
Centroid Location:
Origin Time 06:32:19.0 1.1
Lat 4.22S 0.10 Lon 153.55E 0.10
Dep 215.0 4.6 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 7.22 Plg=27 Azm=351
N -0.45 5 83
P -6.77 63 182
Best Double Couple:Mo=7.0*10**16
NP1:Strike= 70 Dip=19 Slip=-104
NP2: 265 72 -85

19 18 10 08.94 24.704N 122.511E 98km
5.2mb (58 obs.)
TAIWAN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 7S, 20C
Centroid Location:
Origin Time 18:10:11.6 0.4
Lat 24.38N 0.04 Lon 122.25E 0.07
Dep 113.6 2.6 Half-duration 2.3
Principal Axes:
Scale 10**17 Nm
T Val= 2.68 Plg=61 Azm= 46
N -0.25 17 171
P -2.43 23 268
Best Double Couple:Mo=2.6*10**17
NP1:Strike= 28 Dip=27 Slip= 131
NP2: 164 70 71

19 18 28 18.93 60.893S 23.382W 15km
5.6mb (9 obs.) 5.4Msz (2 obs.)
SOUTH SANDWICH ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 32C
Centroid Location:
Origin Time 18:28:23.3 0.3
Lat 61.44S 0.03 Lon 22.68W 0.11
Dep 15.0 FIX Half-duration 3.2
Principal Axes:
Scale 10**17 Nm
T Val= 8.03 Plg=18 Azm=343
N -1.53 1 73
P -6.50 72 167
Best Double Couple:Mo=7.3*10**17
NP1:Strike= 71 Dip=27 Slip= -92
NP2: 254 63 -89

20 08 19 37.64 16.484S 167.171E 22km
5.3mb (13 obs.) 5.8Msz (16 obs.)
VANUATU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 39C
Centroid Location:
Origin Time 08:19:41.1 0.3
Lat 16.21S 0.03 Lon 166.92E 0.04
Dep 15.0 FIX Half-duration 3.5
Principal Axes:
Scale 10**17 Nm
T Val= 8.97 Plg=60 Azm= 12
N 0.01 26 160
P -8.98 14 257
Best Double Couple:Mo=9.0*10**17
NP1:Strike= 17 Dip=39 Slip= 134
NP2: 146 63 61

20 12 57 02.23 6.650S 152.947E 27km
5.2mb (12 obs.) 4.5Msz (1 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 25C
Centroid Location:
Origin Time 12:57: 2.1 0.5
Lat 6.69S 0.07 Lon 153.02E 0.07
Dep 15.0 BDY Half-duration 1.8
Principal Axes:
Scale 10**17 Nm
T Val= 1.25 Plg= 6 Azm= 47
N 0.24 22 139
P -1.50 67 302
Best Double Couple:Mo=1.4*10**17
NP1:Strike=114 Dip=43 Slip=-123
NP2: 336 55 -63

20 19 52 43.15 15.140S 173.511W 33km
5.2mb (14 obs.) 5.2Msz (7 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 29C
Centroid Location:
Origin Time 19:52:48.1 0.9
Lat 15.63S 0.12 Lon 172.99W 0.11
Dep 15.0 FIX Half-duration 1.8
Principal Axes:
Scale 10**17 Nm
T Val= 1.75 Plg=43 Azm=167
N -0.44 8 264
P -1.31 46 2
Best Double Couple:Mo=1.5*10**17
NP1:Strike=189 Dip= 8 Slip=-165
NP2: 85 88 -82

20 23 09 09.56 26.755N 86.616E 57km
6.4mb (87 obs.) 6.6Msz (18 obs.)
NEPAL-INDIA BORDER REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=120 Dip=82 Slip= 125
NP2: 221 36 14
Principal Axes:
T Plg=42 Azm= 63
P 28 183
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: 8 Focal mech. F
Energy 2.3±0.6*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 44 No. of sta: 9
Principal Axes:
Scale 10**19 Nm
T Val= 2.14 Plg=19 Azm= 79
N 0.01 53 323
P -2.15 31 181
Best Double Couple:Mo=2.1*10**19
NP1:Strike=217 Dip=54 Slip= -10
NP2: 312 82 -144
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 39C M.W.: 12S, 30C
Centroid Location:
Origin Time 23:09:15.9 0.2
Lat 26.52N 0.01 Lon 86.64E 0.02
Dep 34.7 BDY Half-duration 10.2
Principal Axes:
Scale 10**19 Nm
T Val= 2.32 Plg=41 Azm= 69
N -0.02 23 317
P -2.30 40 207
Best Double Couple:Mo=2.3*10**19
NP1:Strike=230 Dip=23 Slip= 2
NP2: 137 89 113

21 11 15 49.51 23.385N 108.379W 10km
5.3mb (17 obs.) 5.2Msz (1 obs.)
GULF OF CALIFORNIA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 30C
Centroid Location:
Origin Time 11:15:51.1 0.8
Lat 23.13N 0.05 Lon 108.45W 0.07
Dep 15.0 FIX Half-duration 2.7
Principal Axes:
Scale 10**17 Nm
T Val= 3.20 Plg= 2 Azm=261
N 0.28 88 43
P -3 48 1 171
Best Double Couple:Mo=3.3*10**17
NP1:Strike=306 Dip=88 Slip= 180
NP2: 36 90 2

21 11 44 24.42 44.571N 149.473E 52km
5.0mb (40 obs.)
KURIL ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 13C
Centroid Location:
Origin Time 11:44:26.2 1.6
Lat 44.97N 0.19 Lon 150.05E 0.25
Dep 15.0 FIX Half-duration 1.8
Principal Axes:
Scale 10**17 Nm
T Val= 1.84 Plg=45 Azm=123
N -0.13 25 241
P -1.71 34 349
Best Double Couple:Mo=1.8*10**17
NP1:Strike=136 Dip=26 Slip= 166
NP2: 238 84 65

21 12 18 54.92 26.546S 112.671W 10km
5.1mb (6 obs.) 5.3Msz (2 obs.)
EASTER ISLAND REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 32C
Centroid Location:
Origin Time 12:19: 2.8 0.6
Lat 26.66S 0.06 Lon 112.58W 0.07
Dep 15.0 FIX Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.83 Plg=13 Azm=299
N -0.32 76 98
P -1.52 5 208
Best Double Couple:Mo=1.7*10**17
NP1:Strike=343 Dip=78 Slip= 174
NP2: 74 84 13

21 13 16 28.95 25.303N 95.099E 81km

4.9mb (15 obs.)
BURMA-INDIA BORDER REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 16C
Centroid Location:
Origin Time 13:16:23.6 1.5
Lat 24.94N 0.13 Lan 95.89E 0.24
Dep 93.8 8.0 Half-duration 1.7
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	5.93	46	274
N	1.69	42	117
P	-7.63	12	16

Best Double Couple:Mo=6.8*10**16

	Strike=	Dip=	Slip=
NP1:	67	49	28
NP2:	318	69	136

21 13 51 42.82 42.903S 85.773W 10km
5.9mb (24 obs.) 5.4Msz (3 obs.)
WEST CHILE RISE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 29C
Centroid Location:
Origin Time 13:51:46.5 0.3
Lat 42.81S 0.05 Lan 85.76W 0.06
Dep 15.0 FIX Half-duration 2.1
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	2.55	57	313
N	-0.29	29	163
P	-2.26	13	65

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

	Strike=	Dip=	Slip=
NP1:	122	40	42
NP2:	358	64	123

21 23 24 52.80 8.535N 127.002E 33km
5.0mb (7 obs.) 3.9Msz (1 obs.)
PHILIPPINE ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 17C
Centroid Location:
Origin Time 23:24:57.2 1.9
Lat 8.76N 0.17 Lon 127.61E 0.21
Dep 15.0 FIX Half-duration 1.4
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	5.72	44	9
N	-1.50	36	234
P	-4.21	24	124

Best Double Couple:Mo=5.0*10**16

	Strike=	Dip=	Slip=
NP1:	167	39	18
NP2:	63	79	127

22 05 26 19.63 52.452N 170.676W 33km
4.9mb (45 obs.) 4.2Msz (2 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 13C
Centroid Location:
Origin Time 05:26:18.2 1.5
Lat 52.51N 0.22 Lan 170.22W 0.24
Dep 33.0 FIX Half-duration 1.2
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	5.07	56	18
N	-0.84	3	284
P	-4.23	34	192

Best Double Couple:Mo=4.6*10**16

	Strike=	Dip=	Slip=
NP1:	270	11	76
NP2:	104	79	93

22 11 12 43.90 24.016S 176.804W 102km
5.6mb (41 obs.)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 23C
Centroid Location:
Origin Time 11:12:48.9 1.2
Lat 24.09S 0.13 Lan 177.56W 0.08
Dep 46.5 6.8 Half-duration 1.8
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	12.92	28	282
N	-1.36	6	15
P	-11.55	61	116

Best Double Couple:Mo=1.2*10**17

	Strike=	Dip=	Slip=
NP1:	356	17	-110
NP2:	197	74	-84

22 13 54 06.00 16.086S 172.749W 33km
4.9mb (11 obs.) 4.9Msz (2 obs.)
SAMOA ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 23C
Centroid Location:
Origin Time 13:54: 8.8 1.3
Lat 16.59S 0.16 Lan 172.26W 0.12
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	6.07	65	257
N	-0.92	2	351
P	-5.15	25	82

Best Double Couple:Mo=5.6*10**16

	Strike=	Dip=	Slip=
NP1:	175	20	95
NP2:	350	70	88

22 21 23 34.13 35.280N 52.350E 10km
5.0mb (47 obs.) 4.7Msz (3 obs.)
IRAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 20C
Centroid Location:
Origin Time 21:23:35.4 1.6
Lat 35.06N 0.16 Lan 52.16E 0.14
Dep 15.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	8.60	7	272
N	1.87	74	27
P	-10.47	15	180

Best Double Couple:Mo=9.5*10**16

	Strike=	Dip=	Slip=
NP1:	317	75	-175
NP2:	225	85	-15

23 04 11 05.34 49.124N 155.205E 42km
5.1mb (49 obs.) 4.5Msz (6 obs.)
KURIL ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 25C
Centroid Location:
Origin Time 04:11: 6.2 1.0
Lat 48.79N 0.07 Lon 155.67E 0.12
Dep 54.6 5.6 Half-duration 1.4
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	4.86	79	286
N	-0.01	0	195
P	-4.85	11	105

Best Double Couple:Mo=4.9*10**16

	Strike=	Dip=	Slip=
NP1:	195	34	90
NP2:	15	56	90

23 05 30 47.90 35.404N 52.279E 10km
5.0mb (45 obs.) 4.7Msz (6 obs.)
IRAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 24C
Centroid Location:
Origin Time 05:30:56.3 2.0
Lat 35.71N 0.13 Lan 52.46E 0.16
Dep 15.0 FIX Half-duration 1.4
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	7.13	21	224
N	-1.22	24	124
P	-5.90	58	350

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

	Strike=	Dip=	Slip=
NP1:	348	32	-41
NP2:	115	70	-115

23 19 53 40.22 2.505S 138.929E 54km
5.4mb (25 obs.)
WEST IRIAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 34C
Centroid Location:
Origin Time 19:53:41.1 0.4
Lat 2.30S 0.03 Lan 138.71E 0.04
Dep 27.3 3.7 Half-duration 2.9
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	5.11	20	136
N	0.88	63	271
P	-5.99	18	39

Best Double Couple:Mo=5.6*10**17

	Strike=	Dip=	Slip=
NP1:	177	63	178
NP2:	268	88	27

24 05 19 11.11 2.467S 138.865E 33km
5.1mb (16 obs.) 4.8Msz (7 obs.)
WEST IRIAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 25C
Centroid Location:
Origin Time 05:19:13.1 0.6
Lat 2.29S 0.06 Lan 138.85E 0.08
Dep 35.6 6.8 Half-duration 1.8
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	7.97	28	124
N	6.05	61	296
P	-14.02	3	32

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

	Strike=	Dip=	Slip=
NP1:	164	68	161
NP2:	261	73	23

26 00 18 10.11 10.271S 161.018E 95km
5.2mb (11 obs.)
SOLOMON ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 21C
Centroid Location:
Origin Time 00:18: 8.5 1.2
Lat 10.70S 0.10 Lon 161.32E 0.11
Dep 94.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm

	Val=	Plg=	Azm=
T	5.65	54	171
N	0.16	18	287
P	-5.80	30	28

Best Double Couple:Mo=5.7*10**16

	Strike=	Dip=	Slip=
NP1:	161	22	145
NP2:	283	77	71

26 07 33 27.29 15.370S 172.933W 78km
5.1mb (18 obs.)
SAMOA ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 37C
Centroid Location:
Origin Time 07:33:31.6 0.5
Lat 15.17S 0.04 Lon 172.85W 0.04
Dep 46.7 BDY Half-duration 2.8
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	4.18	16	188
N	0.75	26	286
P	-4.93	59	71

Best Double Couple:Mo=4.6*10**17

	Strike=	Dip=	Slip=
NP1:	246	37	-137
NP2:	119	65	-61

26 09 26 30.93 7.438S 128.480E 121km
5.3mb (20 obs.)
BANDA SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 17C
Centroid Location:
Origin Time 09:26:40.9 1.6
Lat 6.88S 0.12 Lan 128.24E 0.13
Dep 147.4 2.5 Half-duration 1.7
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	1.31	68	326
N	-0.26	17	104
P	-1.05	14	198

Best Double Couple:Mo=1.2*10**17

	Strike=	Dip=	Slip=
NP1:	310	34	121
NP2:	94	61	71

27 01 25 17.57 11.380N 141.413E 33km
5.3mb (20 obs.) 5.6Msz (16 obs.)
WEST CAROLINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 40C
Centroid Location:
Origin Time 01:25:19.2 0.3
Lat 11.47N 0.04 Lan 141.51E 0.05
Dep 15.0 FIX Half-duration 2.9
Principal Axes:
Scale 10**17 Nm

	Val=	Plg=	Azm=
T	5.97	57	23
N	0.34	14	270
P	-6.31	29	172

Best Double Couple:Mo=6.1*10**17
NP1:Strike=227 Dip=20 Slip= 45
NP2: 94 76 105

27 10 15 02.38 19.685S 176.278W 35km
5.3mb (20 obs.) 5.4Msz (7 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 42C
Centraid Lacation:
Origin Time 10:15: 5.0 0.3
Lat 19.55S 0.03 Lan 176.51W 0.03
Dep 15.0 FIX Half-duration 2.6
Principal Axes:
Scale 10**17 Nm
T Val= 5.95 Plg= 6 Azm=251
N -0.33 71 143
P -5.62 18 344
Best Double Cauple:Ma=5.8*10**17
NP1:Strike= 26 Dip=73 Slip= -9
NP2: 119 82 -162

27 16 30 16.90 15.864S 172.067W 28km
6.0mb (45 obs.) 5.4Msz (15 obs.)
SAMOA ISLANDS REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=173 Dip=65 Slip= 90
NP2: 353 25 90
Principal Axes:
T Plg=70 Azm= 83
P 20 263
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 36 No. of sta: 10
Principal Axes:
Scale 10**17 Nm
T Val= 3.81 Plg=65 Azm=122
N 1.27 17 351
P -5.08 18 255
Best Double Cauple:Ma=4.4*10**17
NP1:Strike=320 Dip=31 Slip= 55
NP2: 179 65 109
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 39C
Centraid Lacation:
Origin Time 16:30:22.6 0.3
Lat 16.02S 0.03 Lan 171.95W 0.03
Dep 35.4 1.8 Half-duration 2.8
Principal Axes:
Scale 10**17 Nm
T Val= 4.64 Plg=66 Azm=113
N 0.11 12 354
P -4.74 20 259
Best Double Cauple:Ma=4.7*10**17
NP1:Strike=329 Dip=27 Slip= 63
NP2: 179 66 103

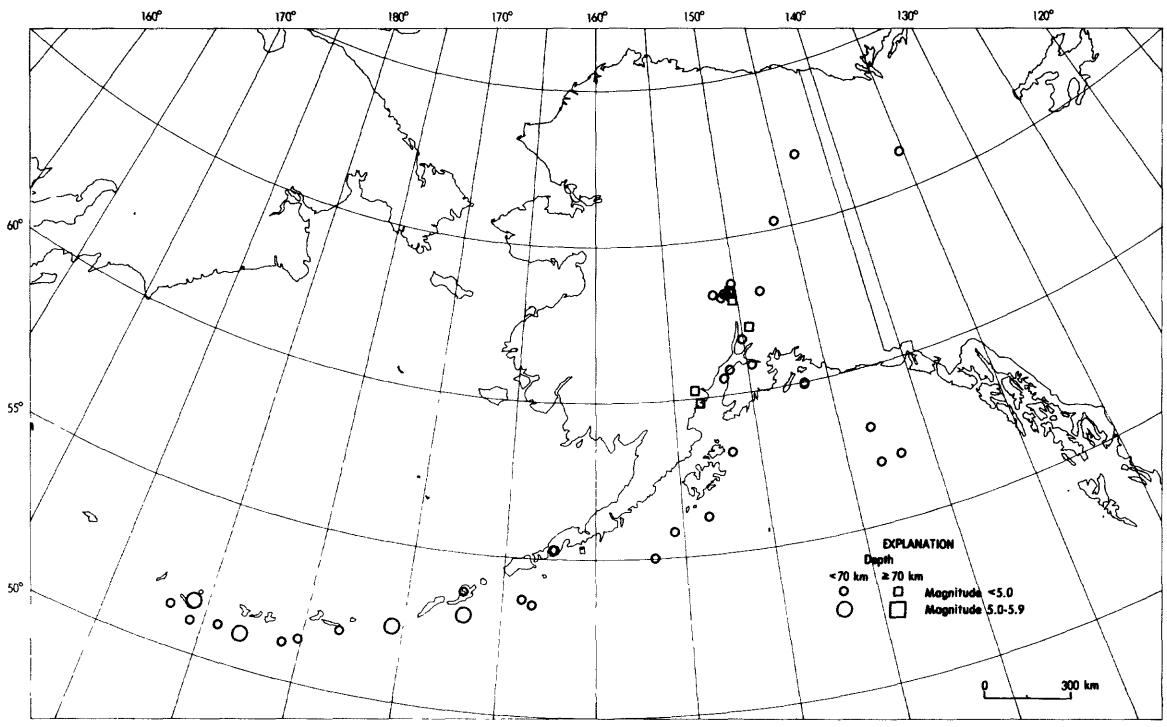
27 16 52 24.55 0.941S 20.930W 10km
4.7mb (15 obs.) 5.3Msz (1 obs.)
CENTRAL MID-ATLANTIC RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 37C
Centraid Lacation:
Origin Time 16:52:34.8 0.5
Lat 0.26S 0.04 Lan 20.69W 0.05
Dep 15.0 FIX Half-duration 2.3
Principal Axes:
Scale 10**17 Nm
T Val= 2.00 Plg= 9 Azm=211
N 0.09 73 330
P -2.08 15 118
Best Double Cauple:Ma=2.0*10**17
NP1:Strike=255 Dip=73 Slip=-175
NP2: 164 86 -17

28 15 34 53.76 24.068N 122.403E 45km
5.2mb (33 obs.) 5.2Msz (2 obs.)
TAIWAN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 7S, 17C
Centraid Lacation:
Origin Time 15:34:53.6 0.9
Lat 23.63N 0.15 Lan 122.43E 0.18
Dep 19.710.0 Half-duration 1.4
Principal Axes:
Scale 10**16 Nm
T Val= 3.77 Plg=74 Azm=343
N -0.56 2 81
P -3.21 16 172
Best Double Cauple:Mo=3.5*10**16
NP1:Strike=266 Dip=29 Slip= 95
NP2: 80 61 87

30 12 46 24.78 7.610N 126.777E 84km
5.1mb (27 obs.)
MINDANAO, PHILIPPINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 25C
Centraid Lacation:
Origin Time 12:46:23.8 0.5
Lat 7.46N 0.05 Lan 126.72E 0.09
Dep 80.5 6.3 Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Val= 10.82 Plg=42 Azm=315
N 4.91 40 176
P -15.73 22 66
Best Double Cauple:Ma=1.3*10**17
NP1:Strike=109 Dip=43 Slip= 17
NP2: 6 78 131

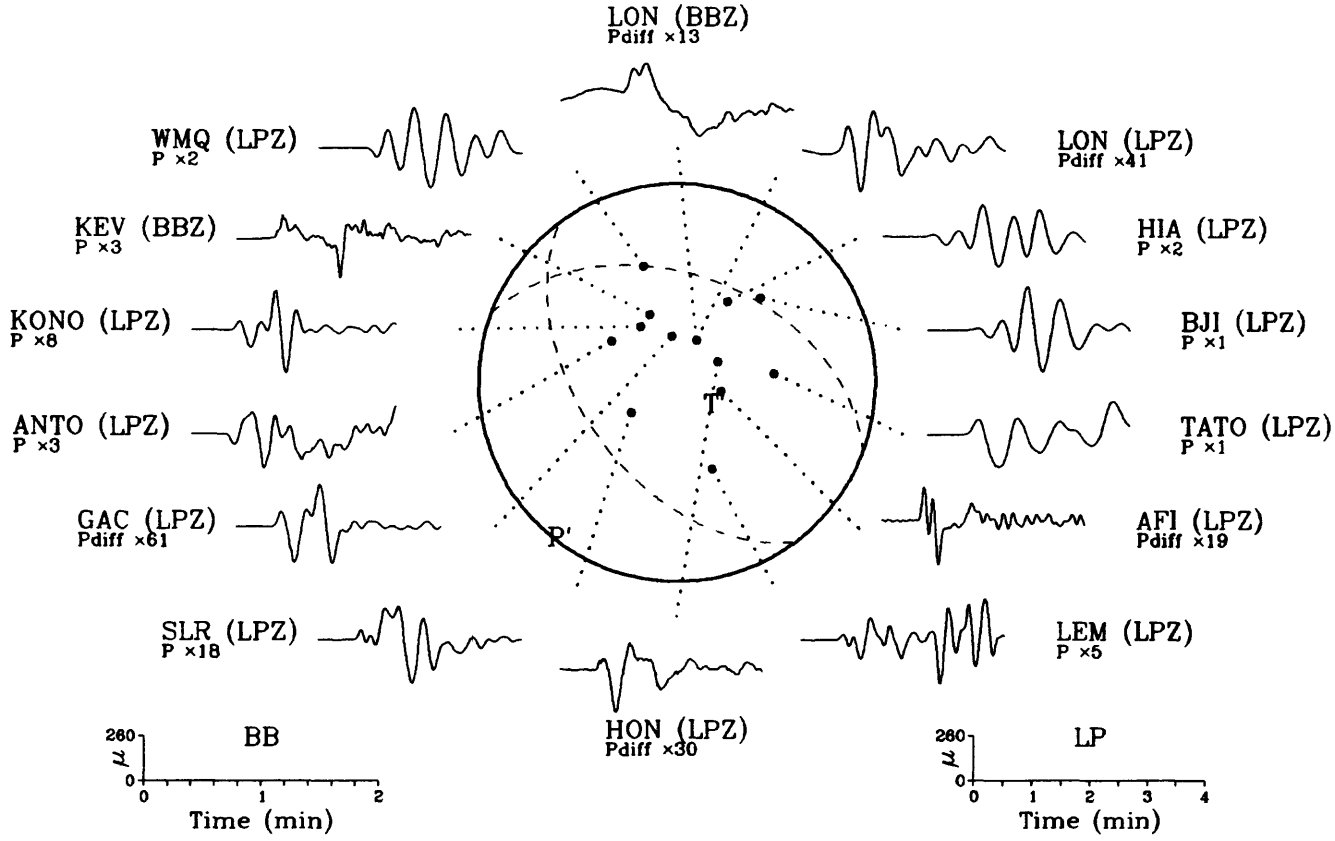
30 17 30 21.30 29.989N 51.684E 10km
4.9mb (53 obs.) 4.6Msz (5 obs.)
SOUTHERN IRAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 29C
Centraid Lacation:
Origin Time 17:30:20.6 0.9
Lat 30.07N 0.09 Lan 51.26E 0.08
Dep 15.0 FIX Half-duration 1.4
Principal Axes:
Scale 10**16 Nm
T Val= 5.38 Plg=17 Azm=105
N 1.48 56 348
P -6.86 28 205
Best Double Cauple:Ma=6.1*10**16
NP1:Strike=242 Dip=57 Slip= -9
NP2: 337 83 -147

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

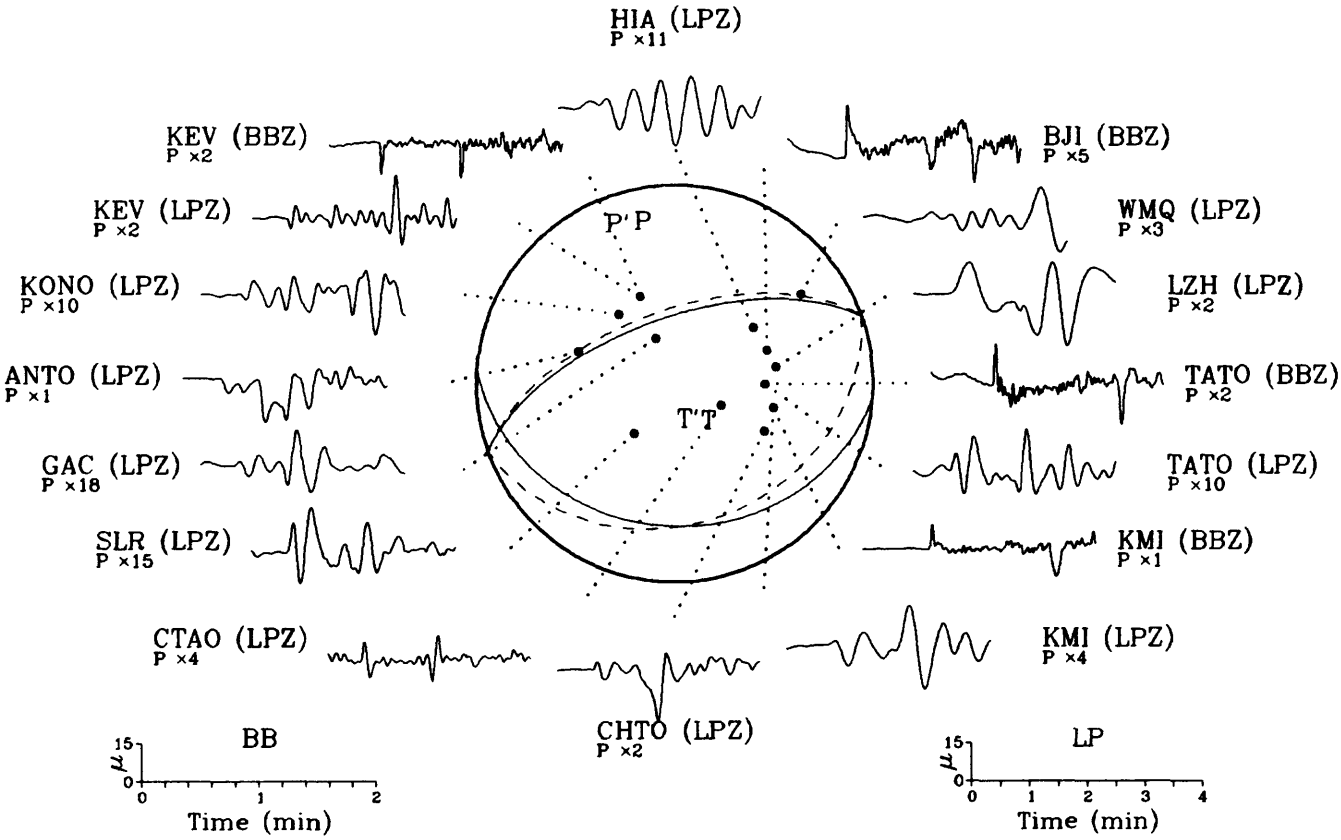


Earthquake epicenters in Alaska and adjacent regions for August, 1988 (C. Stover).

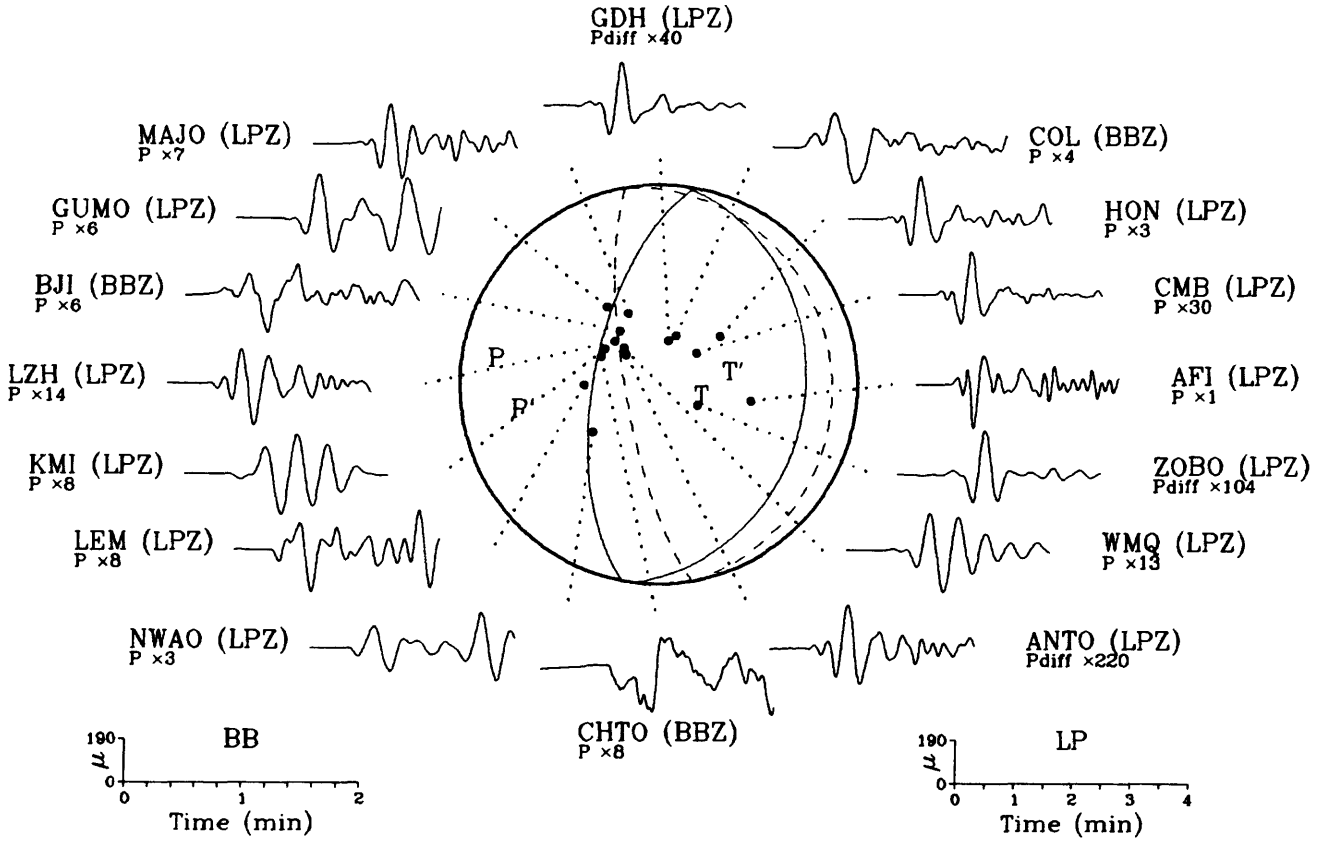
06 August 1988 00:36:24.65
Burma–India Border Region



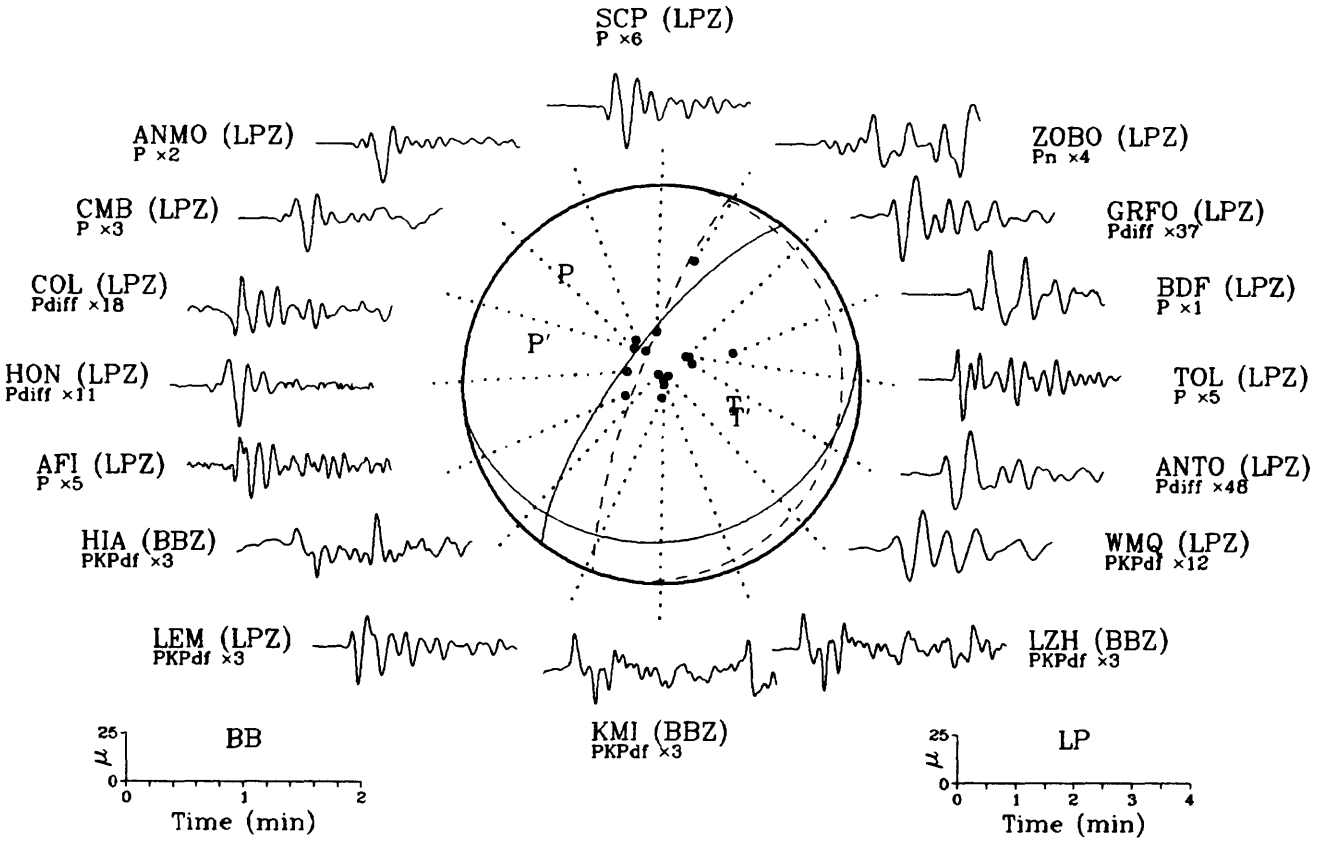
06 August 1988 09:03:21.95
Afghanistan–USSR Border Region



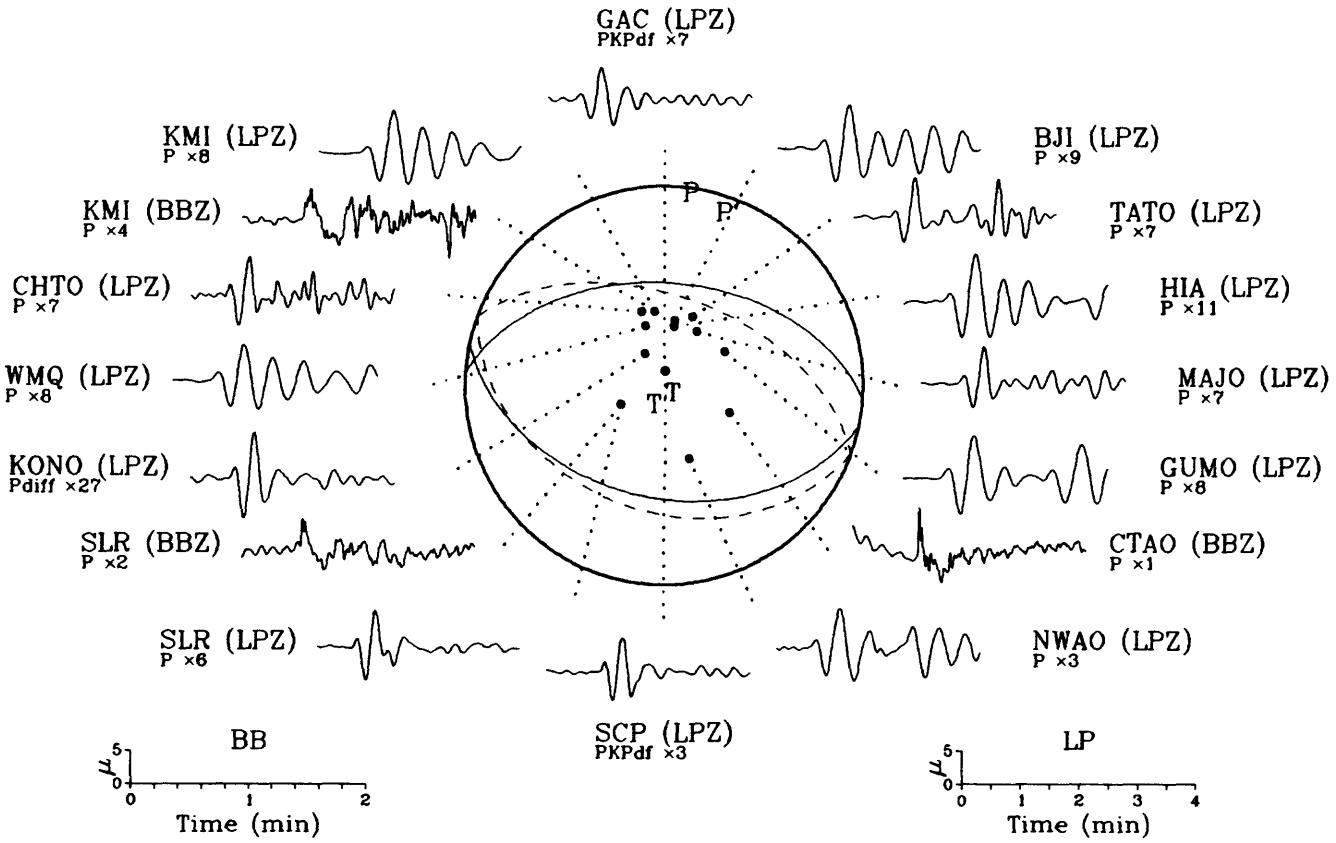
10 August 1988 04:38:26.17
Solomon Islands



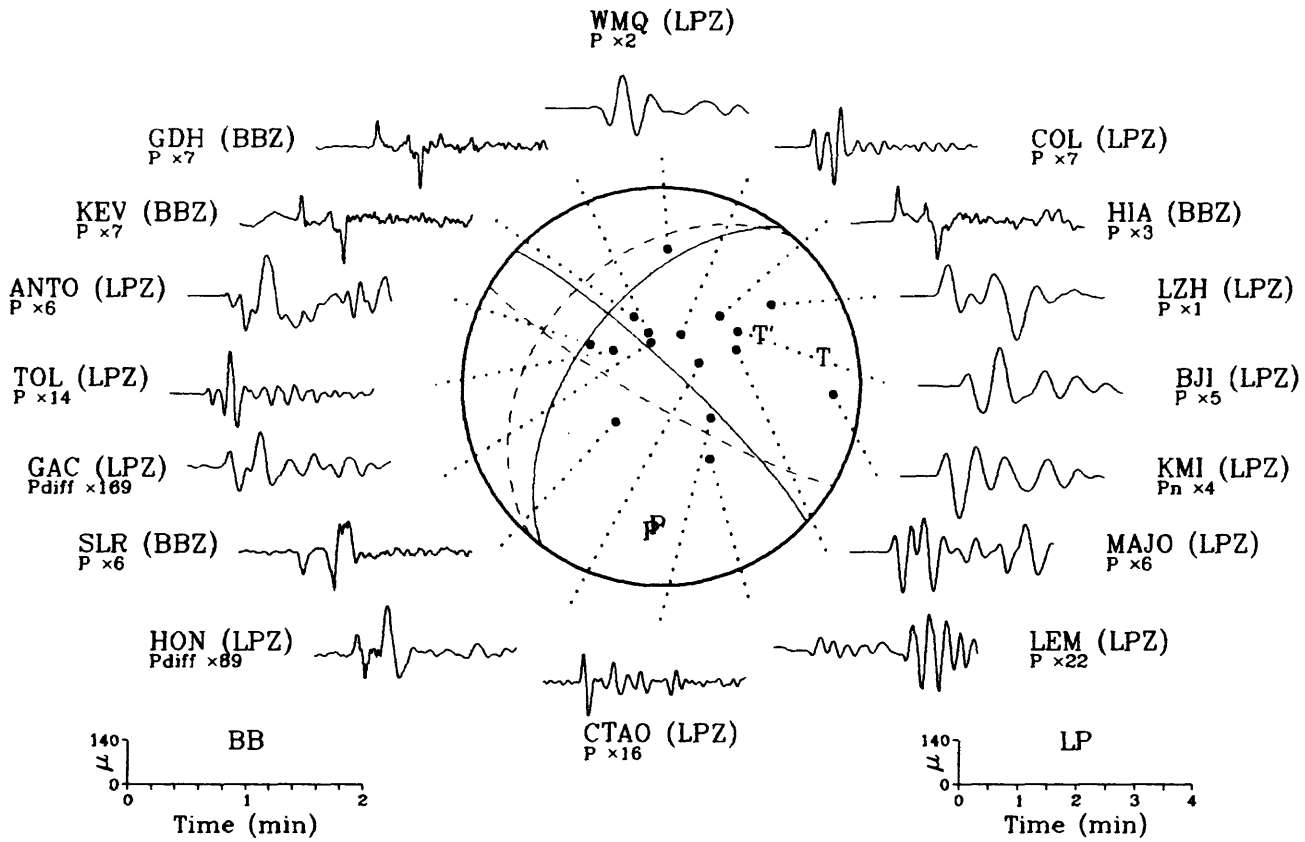
14 August 1988 17:53:09.75
Near Coast of Northern Chile



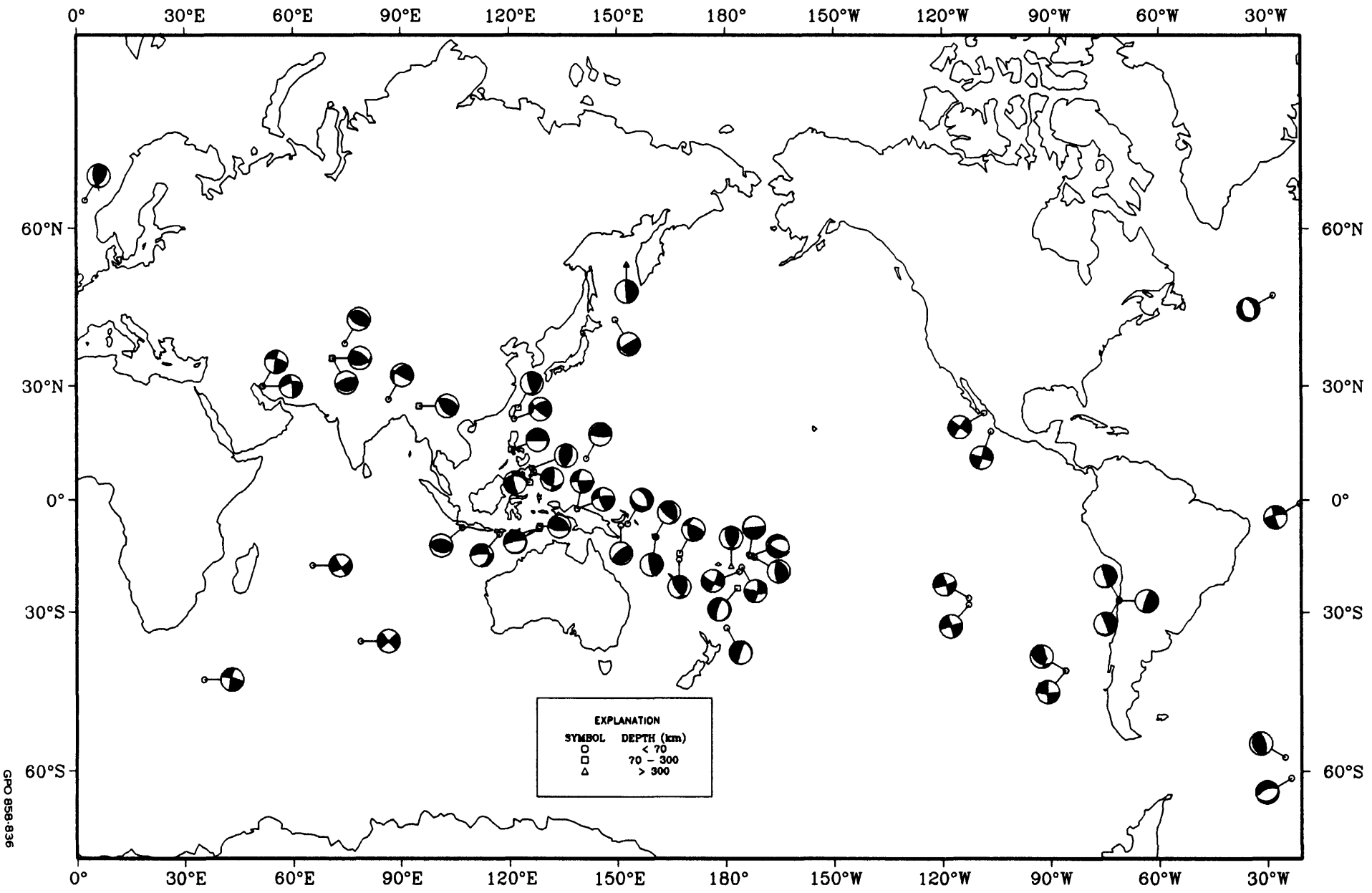
17 August 1988 01:59:07.71
Java



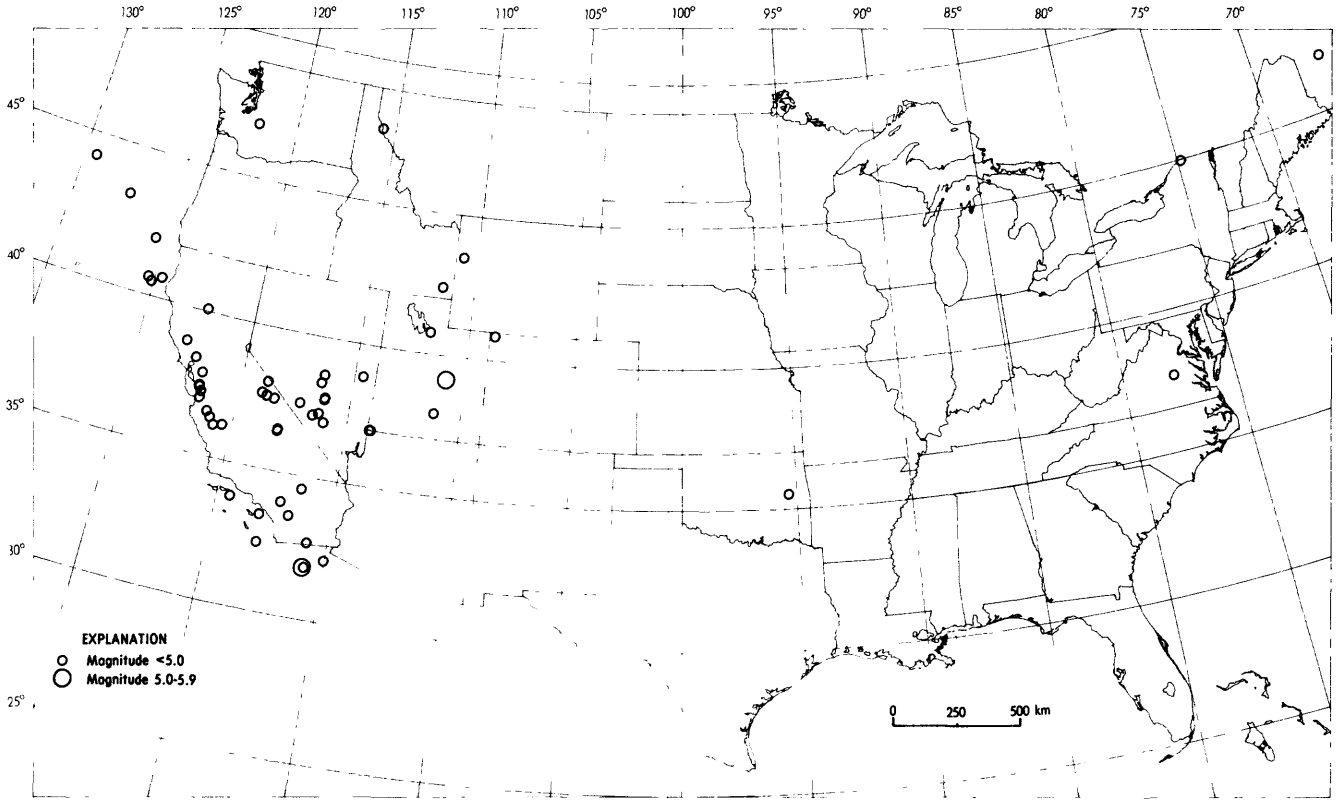
20 August 1988 23:09:09.56
Nepal–India Border Region



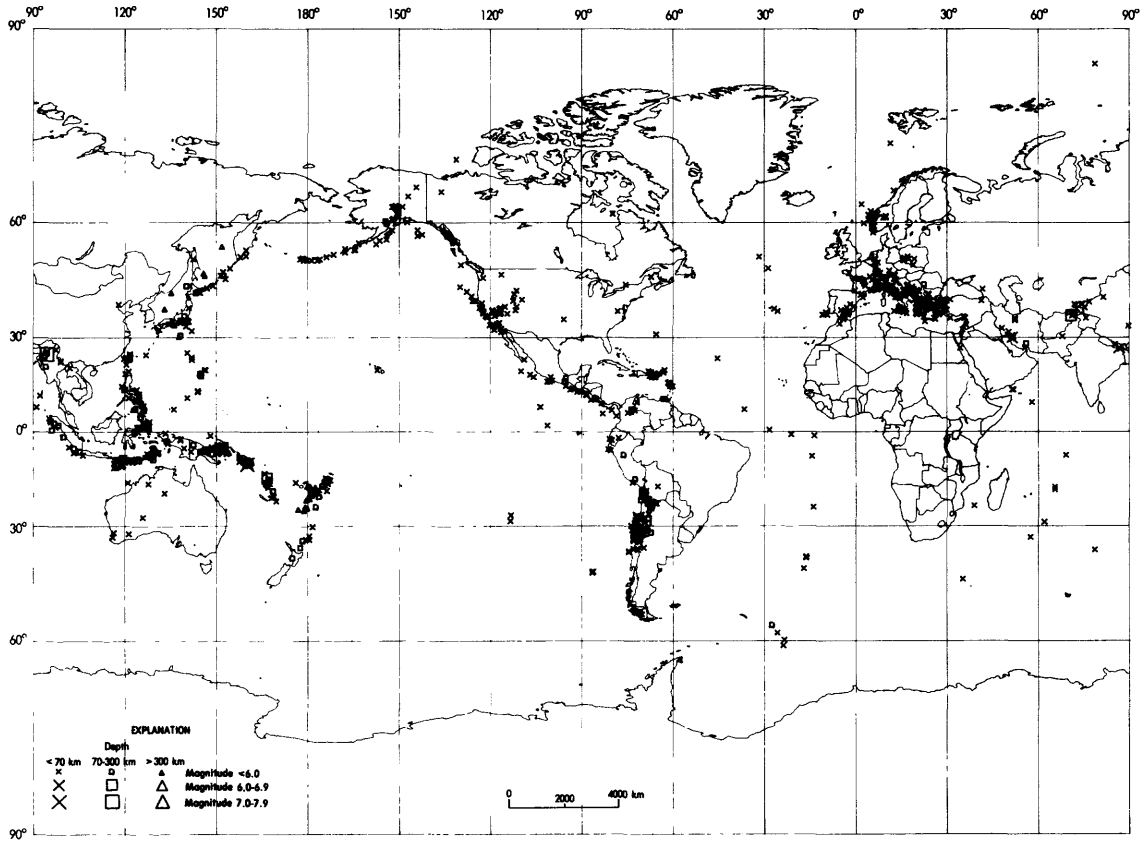
Earthquake Focal Mechanisms for August 1988



GPO 858-836



Earthquake epicenters in the conterminous United States and adjacent regions for August, 1988 (C. Stover).



Earthquakes located in August, 1988 (C. Stover).

PRELIMINARY DETERMINATION OF EPICENTERS

MONTHLY LISTING

U.S. DEPARTMENT OF THE INTERIOR / GEOLOGICAL SURVEY

National Earthquake Information Center

SEPTEMBER 1988

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	06	06.3&	61.965	N	124.476	W	10	G				10	NORTHWEST TERRITORIES, CANADA. <PGC-P>. mbLg 4.1 (PGC).
	01	00	23	54.8*	13.791	N	59.976	W	10	G			0.8	10	WINDWARD ISLANDS
	01	00	26	04.2&	60.157	N	153.405	W	144					19	SOUTHERN ALASKA. <AGS-P>.
	01	01	02	24.3*	19.351	S	69 830	W	181	?			0.6	7	NORTHERN CHILE
	01	01	50	04.3?	19.92	N	64.29	W	10	G			1.3	15	VIRGIN ISLANDS. ML 4.5 (FDF).
	01	01	57	56.0?	18.91	N	65 21	W	10	G			0.4	6	PUERTO RICO REGION
	01	02	51	43.4?	15.93	N	98.65	W	10	G	4.0		1.1	11	OFF COAST OF GUERRERO, MEXICO
	01	03	57	28.4*	38.078	N	72.385	E	33	N	4.7		1.1	11	TAJIK SSR
	01	04	49	39.8&	59.045	N	153.820	W	110					22	SOUTHERN ALASKA. <AGS-P>.
	01	05	03	52.7?	18.67	N	65.36	W	30	*			0.3	7	PUERTO RICO REGION
	01	05	36	11.8	16.743	S	69.460	W	187		4.8		1.2	65	PERU-BOLIVIA BORDER REGION
	01	06	59	53.7&	60.029	N	152.400	W	69					28	SOUTHERN ALASKA. <AGS-P>.
	01	07	13	26.5?	18.88	N	65.16	W	10	G			0.3	7	PUERTO RICO REGION
	01	08	00	08.4*	11.251	N	62.015	W	90	?			0.8	10	WINDWARD ISLANDS
	01	08	36	10.8?	17.23	S	178.59	W	553	*	5.0		0.7	15	FIJI ISLANDS REGION
	01	09	49	33.9*	40.752	S	43.368	E	10	G	4.5		0.8	11	ATLANTIC-INDIAN RISE
	01	11	22	46.0%	60.643	N	9.097	E	10	G			0.6	6	SOUTHERN NORWAY. MD 2.4 (BER).
	01	11	35	01.4%	33.062	S	116.715	E	10	G			1.4	5	WESTERN AUSTRALIA
	01	12	19	35.6%	60.446	N	4.988	E	10	G			0.3	5	SOUTHERN NORWAY. MD 1.9 (BER).
	01	12	29	20.1&	38.817	N	122.748	W	2					14	NORTHERN CALIFORNIA. <BRK>. ML 3.2 (BRK). Felt (III) at Lach Lamond.
	01	12	55	18.1?	43.66	N	6.98	E	5	G			0.1	4	NEAR SOUTH COAST OF FRANCE. ML 2.1 (LDG).
	01	13	59	15.4	15.485	S	167.383	E	140		4.7		1.0	63	VANUATU ISLANDS
	01	14	54	49.2?	44.74	N	3.23	E	10	G			1.0	6	FRANCE. ML 2.7 (LDG).
	01	15	19	15.5*	34.417	N	25.969	E	33	N			1.5	7	CRETE
	01	15	24	13.5&	59.642	N	150.705	W	39					22	KENAI PENINSULA, ALASKA. <AGS-P>. ML 3.0 (PMR).
	01	16	20	08.9*	37.092	N	72.809	E	33	N	4.1	3.4	1.2	9	TAJIK SSR
	01	16	51	53.1?	11.47	N	42.11	E	33	N			0.7	10	ETHIOPIA
	01	16	52	45.5	16.578	N	99.273	W	10	G	5.0	4.1	1.2	66	NEAR COAST OF GUERRERO, MEXICO
	01	17	28	36.0?	66.99	N	20.91	E	10	G			1.3	4	SWEDEN. MD 3.0 (BER).
	01	17	37	29.2	11.375	N	42.247	E	10	G	4.6		1.4	15	ETHIOPIA
	01	17	58	41.2*	8.064	S	122.936	E	204	*	4.4		0.7	16	FLORES ISLAND REGION
	01	18	26	45.0%	41.554	N	13.116	E	10	G			0.3	6	SOUTHERN ITALY
	01	18	49	47.4?	7.50	S	129.60	E	157	?	4.7		1.5	9	BANDA SEA
	01	19	24	47.0*	61.804	N	149.820	W	33	N			0.2	5	SOUTHERN ALASKA. ML 2.4 (PMR).
	01	21	55	19.1*	19.197	N	64.400	W	10	G			0.3	10	VIRGIN ISLANDS. ML 4.6 (FDF).
	01	22	04	11.2*	26.766	N	86.564	E	33	N	4.6		1.4	7	NEPAL-INDIA BORDER REGION. Felt in eastern Nepal.
	01	23	18	57.6?	32.53	N	48.59	E	33	N	4.4		0.5	6	WESTERN IRAN
	02	01	46	50.1*	40.267	N	124.360	W	10	G			0.4	7	NEAR COAST OF NORTHERN CALIF. ML 2.8 (BRK).
	02	04	42	38.1*	42 860	S	85.836	W	10	G	5.0		1.2	30	WEST CHILE RISE
	02	06	18	49.7	10.366	N	62.670	W	10	G	4.1		1.1	27	NEAR COAST OF VENEZUELA
	02	06	26	17.6*	17.559	N	78.279	W	18	D	4.3	3.5	1.3	17	JAMAICA REGION. Felt widely on Jomoico.
	02	06	35	33.1*	26.616	N	86.518	E	33	N	4.4		1.3	10	NEPAL-INDIA BORDER REGION
	02	07	26	23.6	49.886	N	18.489	E	10	G			1.0	11	CZECHOSLOVAKIA. ML 3.8 (GRF), 3.0 (VKA), 2.9 (KRA). Three miners killed and 4 injured at Orlavo.
	02	07	29	00.9	3.729	N	126.452	E	33	N	4.9		1.1	38	TALAUD ISLANDS
	02	07	51	46.5	39.324	N	29.249	E	10	G			1.2	8	TURKEY
	02	08	30	21.7*	10.063	N	60.361	W	90	*			0.4	19	TRINIDAD
	02	09	11	47.4&	58.551	N	156.257	W	188		4.2			62	ALASKA PENINSULA. <AGS-P>.
a	02	10	27	48.5	53.963	N	161.541	E	49	D	5.1	4.9	1.0	193	OFF EAST COAST OF KAMCHATKA. Ms 4.7 (BRK).
	02	10	58	36.3&	60.326	N	153.127	W	150					35	SOUTHERN ALASKA. <AGS-P>.
	02	11	01	45.0&	60.272	N	152.275	W	89					24	SOUTHERN ALASKA. <AGS-P>.
	02	11	13	08.2?	37.01	N	31.03	E	10	G			0.5	6	TURKEY
	02	13	57	47.5%	32.062	N	35.464	E	10	G			0.7	8	DEAD SEA REGION
	02	14	24	26.7	41.050	N	25.702	E	10	G			1.1	10	GREECE-BULGARIA BORDER REGION
	02	14	48	20.7?	51.35	N	20.16	E	10	G			1.4	5	POLAND. ML 2.9 (KRA).
	02	14	57	04.4?	51.32	N	20.09	E	10	G			0.0	5	POLAND. ML 2.6 (KRA).
	02	15	30	48.1	34.843	N	139.219	E	10	G			0.7	9	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at

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															Toteyama and on Oshima. (I JMA) at Ajiro and Yokohama.
	02	16	13	17	6•	56.261	S	27 033	W	33	N	5.0		1.0	14	SOUTH SANDWICH ISLANDS REGION
	02	17	16	20	5•	2 142	N	97.983	E	96	?	4.8		1 0	11	NORTHERN SUMATERA
	02	18	12	34	2&	32 000	N	116.380	W	6	G				4	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.2 (PAS).
	02	19	07	24	3•	39.468	N	29.074	E	10	G			1.4	8	TURKEY
	02	19	47	34	1	40.815	N	122.376	E	10	G	4.3		1.0	12	NORTHEASTERN CHINA. ML 4.6 (BJI).
	02	20	48	34	4	45.220	N	7.434	E	10	G			0.6	12	NORTHERN ITALY. ML 2.4 (GEN).
	02	20	48	36	3	27.482	N	140.579	E	193		5.1		1.0	127	BONIN ISLANDS REGION
	02	22	00	08	5•	43.334	N	1.361	W	10	G			0.3	5	PYRENEES. ML 2.8 (LDG). Felt (IV) at Irouleguy, France.
a	02	22	32	44	5	3.429	S	138.470	E	76	D	5.3		0.9	111	WEST IRIAN
	02	23	08	47	9	8.421	S	120.664	E	33	N	4.4		1.3	20	FLORES ISLAND REGION
	03	00	29	42	5	23.459	S	179.955	W	526		5.1		0.8	79	SOUTH OF FIJI ISLANDS
	03	00	39	10	9	44.108	N	10.875	E	10	G			0.5	6	NORTHERN ITALY
	03	01	01	38	7?	3.89	S	128.93	E	124	•	4.4		0.9	7	CERAM
	03	02	10	00	3?	10.40	S	124.14	E	33	N	4.4		0.4	6	TIMOR
	03	02	15	34	2?	1.78	S	140.04	E	33	N	4.2		1.4	6	WEST IRIAN REGION
	03	04	10	45	4•	39.622	N	20.545	E	10	G			1.5	6	GREECE-ALBANIA BORDER REGION. MD 3.2 (ATH).
	03	08	11	51	5	35.148	N	52.502	E	10	G	4.7		1.2	33	IRAN. Felt in the Gormsar area.
	03	08	38	34	9	3.006	S	127.758	E	51	•	4.8	4.3	1.4	41	CERAM
	03	08	43	05	5%	39.126	N	27.542	E	10	G			0.7	5	TURKEY
	03	08	53	32	0•	6.393	S	152.698	E	47	•	4.3		1.1	9	NEW BRITAIN REGION
a	03	09	09	37	1	18.269	S	178.132	W	591		5.2		0.9	100	FIJI ISLANDS REGION
	03	10	08	10	8?	39.17	N	27.99	E	10	G			0.7	4	TURKEY
	03	12	03	53	0	16.828	N	61.090	W	56		4.9		0.8	123	LEEWARD ISLANDS. Felt (IV) on Guadeloupe.
	03	12	36	11	7%	42.761	N	19.063	E	10	G			1.1	6	YUGOSLAVIA. MD 2.5 (TTG).
a	03	12	52	47	4	29.967	N	97.313	E	33	N	5.1		1.1	95	TIBET
	03	14	18	50	8•	3.732	S	127.736	E	33	N	4.1		0.6	6	CERAM
	03	14	56	54	0•	5.262	S	128.297	E	342	•	4.5		1.1	13	BANDA SEA
	03	16	01	13	0•	9.077	S	157.320	E	33	N	4.4		1.1	8	SOLOMON ISLANDS
	03	16	14	49	4	41.642	N	14.367	E	10	G			0.4	8	SOUTHERN ITALY
	03	16	32	32	8?	27.66	S	71.57	W	33	N			0.6	7	NEAR COAST OF NORTHERN CHILE
	03	16	51	33	1•	3.132	S	127.637	E	33	N	4.6	3.5	1.3	26	CERAM
	03	16	55	01	1%	37.371	N	1.980	W	10	G			0.2	5	SPAIN. MG 2.8 (MDD).
a	03	16	57	45	5	16.277	S	171.997	W	32	D	5.0	4.6	0.9	92	SAMOA ISLANDS REGION
	03	17	23	04	8?	24.22	S	66.59	W	187	?	4.2		1.3	6	SALTA PROVINCE, ARGENTINA
	03	17	51	18	5•	36.155	N	28.979	E	33	N			1.0	8	DODECANESE ISLANDS
	03	18	12	03	0•	17.522	S	179.002	W	516	?	4.1		0.7	25	FIJI ISLANDS REGION
	03	18	15	46	1%	30.820	S	117.120	E	10	G			0.9	7	WESTERN AUSTRALIA
	03	18	45	02	1?	40.62	N	30.33	E	10	G			0.3	5	TURKEY
	03	19	22	00	5%	44.284	N	6.438	E	10	G			0.9	6	FRANCE. ML 2.0 (LDG).
	03	19	37	44	1?	35.60	N	69.94	E	33	N	4.6	4.1	0.7	8	HINDU KUSH REGION
	03	19	42	34	2%	61.746	N	4.626	E	10	G			0.8	8	SOUTHERN NORWAY. ML 2.8 (BER).
	03	19	55	08	6	8.794	N	39.633	W	10	G	4.7	4.3	1.1	47	CENTRAL MID-ATLANTIC RIDGE
a	04	00	32	19	2	21.997	N	142.975	E	252	D	5.0		0.9	101	MARIANA ISLANDS REGION
	04	01	30	19	6	42.869	N	13.226	E	10	G			0.5	11	CENTRAL ITALY
	04	01	32	01	3•	8.074	S	158.592	E	33	N	4.7		1.3	21	SOLOMON ISLANDS
	04	01	47	40	4	42.856	N	13.291	E	10	G			0.6	13	CENTRAL ITALY
	04	02	40	54	2•	23.959	N	122.950	E	33	N	4.4		0.7	6	TAIWAN REGION
	04	02	47	29	8&	33.010	N	117.860	W	6	G				8	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	04	02	49	58	1	21.875	S	179.441	W	595		5.3		0.8	72	FIJI ISLANDS REGION
	04	04	33	59	3?	32.48	N	93.74	E	33	N	4.4		1.1	7	TIBET
	04	06	23	30	5?	14.51	S	168.17	E	83	•	4.4		1.4	14	VANUATU ISLANDS
	04	06	33	06	9•	57.870	S	25.392	W	33	N	5.1		1.0	13	SOUTH SANDWICH ISLANDS REGION
	04	06	52	10	3%	39.334	N	29.300	E	10	G			0.7	7	TURKEY
a	04	07	33	33	7	7.425	S	128.159	E	126		5.3		1.0	131	BANDA SEA
	04	07	55	17	9	14.653	S	167.858	E	60	•	5.2		1.0	65	VANUATU ISLANDS
	04	08	01	59	7	26.285	N	91.769	E	33	N	4.0		1.2	10	EASTERN INDIA. Felt strongly in the Gouhati area.
	04	09	05	35	0?	29.64	S	72.59	W	33	N			0.9	10	OFF COAST OF CENTRAL CHILE
	04	09	25	40	1?	32.19	S	72.10	W	33	N			0.8	8	OFF COAST OF CENTRAL CHILE
	04	10	21	11	4•	25.107	N	95.012	E	97	•	4.4		1.0	14	BURMA-INDIA BORDER REGION
	04	14	08	28	8•	15.283	N	60.960	W	75	?			1.0	13	LEEWARD ISLANDS
	04	14	29	03	8•	12.620	S	76.823	W	33	N			1.0	7	NEAR COAST OF PERU. Felt (IV) at Lima.
a	04	15	49	22	2	35.422	N	138.963	E	51		5.3	4.9	1.1	228	HONSHU, JAPAN. Felt (IV JMA) at Kofu and Kawaguchi-ko; (III JMA) at Mishima, Shizuoka, Tokyo and on Oshima; (II JMA) at Kumagaya, Toteyama, Mito and Matsumoto; (I JMA) at Koruizawa, Maeboshi, Tsu and Onohama.
	04	16	32	04	5?	43.07	N	18.82	E	10	G			0.7	4	YUGOSLAVIA. ML 2.2 (TTG).
	04	16	55	16	8•	23.779	N	121.797	E	10	G			0.2	6	TAIWAN
	04	18	46	46	6?	46.98	N	144.12	E	379	?	4.5		0.6	11	SEA OF OKHOTSK
	04	20	27	03	2•	32.851	S	178.630	W	33	N	5.2	4.6	1.3	22	SOUTH OF KERMADEC ISLANDS
	04	20	54	20	3?	35.31	S	71.32	W	105	•			0.6	11	CENTRAL CHILE
	04	21	18	10	8	44.949	N	6.747	E	10	G			0.8	13	FRANCE. ML 2.5 (GEN), 2.3 (LDG).
	04	22	31	00	4	35.494	N	138.986	E	51		4.1		1.0	17	HONSHU, JAPAN. Felt (I JMA) at Kofu, Kawaguchi-ko, Tokyo, Toteyama and on Oshima.
	04	23	33	02	9&	60.945	N	151.460	W	66					37	KENAI PENINSULA, ALASKA. <AGS-P>.
	04	23	38	52	8?	16.88	N	62.51	W	10	G			1.0	13	LEEWARD ISLANDS. ML 4.2 (FDF). Felt (IV) on Guadeloupe.
	05	00	39	44	4?	37.96	N	20.86	E	10	G			1.5	6	IONIAN SEA. ML 3.3 (ATH).
	05	02	11	27	3%	18.210	N	66.900	W	10	G			0.8	6	PUERTO RICO REGION
	05	04	07	54	7&	59.968	N	152.693	W	87					25	SOUTHERN ALASKA. <AGS-P>.
	05	06	00	28	0	36.049	N	21.810	E	56	•	4.1		1.3	29	SOUTHERN GREECE
o	05	06	13	17	4	18.423	N	70.377	W	28	D	5.5	5.0	1.0	274	DOMINICAN REPUBLIC REGION. Ms 5.0 (BRK). Felt (VI) at Santo Domingo.
	05	06	40	59	3?	34.29	N	26.14	E	10	G			0.6	6	CRETE
	05	06	56	34	0•	14.237	N	90.508	W	182		4.6		0.9	38	GUATEMALA
	05	07	40	17	1?	20.40	S	169.78	E	33	N	4.7		1.4	6	VANUATU ISLANDS
	05	09	14	49	B	22.165	S	176.101	W	146	•	5.3		1.0	100	SOUTH OF FIJI ISLANDS
	05	09	17	43	4•	65.006	N	151.683	W	33	N			0.4	8	ALASKA. ML 4.0 (PMR).
	05	09	57	40	1•	32.979	S	72.015	W	44	•	4.7		1.1	19	OFF COAST OF CENTRAL CHILE. Felt (III) at Valparaiso and Santiago; (II) at San Antonio, Quillota, San Felipe and La Liguo.
	05	10	06	33	4?	24.34	N	122.10	E	33	N			0.9	5	TAIWAN REGION
	05	11	19	55	4?	40.82	N	28.31	E	10	G			0.3	4	TURKEY
	05	11	38	07	9	9.078	N	122.379	E	32	•	4.7		1.1	30	NEGROS, PHILIPPINE ISLANDS

	05	11	48	37.2?	63.36	N	6.60	E	10	G		1.5	6	NORWEGIAN SEA MD 2.7 (BER).
	05	13	17	24.5?	58.16	N	6.32	E	0	G		0.5	5	SOUTHERN NORWAY. MD 2.5 (BER). Probable explosion
	05	14	33	28.1	33.152	N	34.336	E	33	N		1.0	16	EASTERN MEDITERRANEAN SEA ML 3.7 (BHL), 3.6 (CSS). Felt lightly at Haifa, Israel.
	05	16	14	27.5	45.759	N	13.719	E	0	G		0.7	10	NORTHERN ITALY. ML 2.8 (KBA). MD 3.1 (TRI). Probable explasian.
	05	18	26	38.3%	61.784	N	7.406	E	10	G		1.3	7	SOUTHERN NORWAY. ML 2.4 (BER).
	05	18	43	29.7&	36.553	N	121.053	W	8				21	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK).
	05	19	02	01.9?	3.78	N	128.52	E	33	N	4.7	0.9	9	NORTH OF HALMAHERA
	05	19	11	35.1	10.663	N	92.834	E	33	N	4.6	1.0	40	ANDAMAN ISLANDS REGION
	05	19	38	45.9?	9.41	S	124.51	E	101	?	3.5	1.1	9	TIMOR
a	05	20	03	25.4	34.476	N	26.590	E	11		5.0 5.0	1.4	255	CRETE. ML 4.5 (ATH).
	05	20	07	41.2	0.815	N	87.561	W	10	G	4.7 4.5	1.0	36	GALAPAGOS ISLANDS REGION
	05	20	57	13.0*	54.987	N	161.960	E	33	N	4.6	0.8	46	NEAR EAST COAST OF KAMCHATKA
	05	23	09	33.7*	43.731	N	138.274	E	251	?	4.1	0.8	26	EASTERN SEA OF JAPAN
	06	00	42	33.7?	6.06	S	146.23	E	0	G		0.1	4	EAST PAPUA NEW GUINEA REGION. ML 4.3 (PMG). About 74 people killed and many houses destroyed by a massive landslide near Kaiapit. The P-waves recorded from this event appear to have been generated by the landslide itself.
	06	03	26	48.2	38.233	N	21.742	E	42	*	3.8	1.1	31	GREECE
	06	03	57	02.1*	31.563	S	71.991	W	10	G	3.7	0.8	7	NEAR COAST OF CENTRAL CHILE
	06	04	33	48.2&	59.641	N	152.307	W	75				28	SOUTHERN ALASKA. <AGS-P>.
	06	05	00	46.5	19.728	S	133.838	E	10	G		1.0	7	NORTHERN TERRITORY, AUSTRALIA
	06	05	19	42.8*	5.440	S	152.098	E	52	*	4.8	1.4	12	NEW BRITAIN REGION
	06	05	50	53.1&	60.235	N	151.974	W	69				31	KENAI PENINSULA, ALASKA. <AGS-P>.
	06	06	03	00.3%	15.041	N	60.454	W	33	N		0.1	9	LEEWARD ISLANDS. ML 3.4 (FDF). Felt (II) on Martinique.
	06	06	54	02.7?	37.92	N	1.76	W	10	G		1.2	4	SPAIN. MG 3.2 (MDD). Felt (III) in the Tatana area.
	06	07	09	35.7	47.357	N	152.395	E	110	G	4.5	0.7	95	KURIL ISLANDS
	06	07	09	51.7*	37.793	N	16.026	E	50	?		0.8	7	IONIAN SEA
	06	07	48	38.8*	56.094	S	27.254	W	33	N	4.5	0.9	13	SOUTH SANDWICH ISLANDS REGION
	06	07	58	08.7%	37.773	N	25.436	W	10	G		1.0	5	AZORES ISLANDS
	06	09	16	52.1&	57.825	N	142.920	W	10	G			34	GULF OF ALASKA. <AGS-P>. ML 4.0 (PMR).
	06	09	21	29.7*	6.144	S	130.850	E	141	?	4.3	1.4	10	BANDA SEA
	06	09	43	58.3	35.992	N	112.278	W	5	G		0.5	45	WESTERN ARIZONA. ML 3.0 (NEIS). Felt (IV) at Grand Canyon.
	06	10	08	03.7	44.190	N	7.287	E	10			0.8	48	NORTHERN ITALY. ML 3.5 (GEN), 3.1 (LDG). MD 3.1 (STR).
	06	10	26	06.4?	6.85	S	130.00	E	168	?	4.1	1.5	8	BANDA SEA
	06	10	48	58.5&	57.552	N	142.956	W	10	G			30	GULF OF ALASKA. <AGS-P>. ML 4.0 (PMR).
	06	12	24	27.5	19.293	S	66.987	W	250	D	4.9	1.2	83	SOUTHERN BOLIVIA
	06	12	34	12.3*	37.172	N	15.585	E	10	G		0.5	5	SICILY
	06	13	30	10.3*	44.429	N	8.420	E	10	G		0.6	8	NORTHERN ITALY. ML 2.3 (GEN).
	06	13	42	08.0?	38.29	N	21.58	E	33	N		0.7	4	GREECE. ML 3.3 (ATH).
	06	14	41	25.0*	35.981	N	112.272	W	5	G		0.5	12	WESTERN ARIZONA. ML 2.6 (NEIS).
	06	14	49	28.8%	41.697	N	15.581	E	10	G		0.6	5	SOUTHERN ITALY
	06	15	04	09.1	40.686	N	29.896	E	22		3.9	1.0	42	TURKEY. Felt at Izmit and Adapazari.
	06	15	05	35.9*	24.448	N	121.938	E	10	G		0.9	5	TAIWAN
	06	15	16	01.9*	40.602	N	29.888	E	10	G		0.6	5	TURKEY. Felt at Izmit and Adapazari.
	06	15	34	42.2%	40.651	N	29.931	E	10	G		0.9	5	TURKEY
	06	15	47	34.7	42.862	S	85.856	W	10	G	5.2	1.0	56	WEST CHILE RISE
	06	16	19	58.6	61.331	N	47.955	E	9	D	4.8	1.0	146	EUROPEAN USSR
	06	16	34	23.1*	24.765	N	122.115	E	10	G	4.4	1.2	7	TAIWAN REGION
	06	16	42	05.3*	24.733	N	122.043	E	10	G	4.7	1.4	9	TAIWAN REGION
	06	16	51	17.5*	42.793	S	85.806	W	10	G	5.1	0.8	17	WEST CHILE RISE
	06	17	29	36.0?	34.28	S	71.90	W	10	G		0.6	7	NEAR COAST OF CENTRAL CHILE
	06	17	57	32.0%	37.747	N	25.370	W	10	G		0.7	7	AZORES ISLANDS
	06	18	04	45.3%	61.301	N	7.793	E	10	G		0.9	6	SOUTHERN NORWAY. MD 2.4 (BER).
	06	19	03	59.7&	58.192	N	142.684	W	10	G			31	GULF OF ALASKA. <AGS-P>. ML 3.8 (PMR).
	06	19	16	37.4	42.007	N	41.725	E	10	G	5.0 4.1	1.2	140	WESTERN CAUCASUS. Felt (VI) in the Batumi-Pati area, USSR.
	06	19	47	22.8&	40.733	N	124.207	W	17				5	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 2.8 (BRK). Felt at Eureka.
	06	19	48	38.1?	40.70	N	29.37	E	10	G		1.1	5	TURKEY
	06	20	50	31.7%	40.602	N	29.910	E	10	G		1.0	6	TURKEY
	06	21	13	46.8?	51.76	N	16.53	E	10	G		0.6	6	POLAND. ML 3.4 (GRF), 3.3 (VKA), 2.9 (KRA).
	06	22	13	32.7*	35.891	N	28.729	E	10	G		0.8	6	EASTERN MEDITERRANEAN SEA
	07	00	07	04.1?	5.81	S	130.25	E	154	?		0.8	6	BANDA SEA
a	07	00	54	05.5	17.841	N	94.403	W	156		5.0	0.7	183	CHIAPAS, MEXICO
	07	02	28	09.5	38.143	N	83.878	W	10	G	4.5	0.8	49	KENTUCKY. mbLg 4.6 (BLA). Slight damage (VI) at Camp Dix, Jeffersonville, Means, Moorefield and Olympia. Felt (V) at Alexandria, Beattyville, Berea, Caney, Connel City, Crystal, Dreyfus, Elliottville, Emerson, Ezel, Farmers, Frankfort, Grahn, Grayson, Heidelberg, Hope, Jenkins, Lexington, Lytten, Minervo, Moan, Mount Sterling, Muses Mills, North Middletown, Old Landing, Owingsville, Pine Grove, Pine Ridge, Preston, Rousseau, Rush, Sardis, Salt Lick, Stanton, Tallesboro, Versailles, Waco, Webbville and White Oak. Also felt (V) at Cherry Fork, Chilo, Felicity, Hamersville, Higginsport, Manchester and Russellville, Ohio. Felt strongly in much of eastern Kentucky and parts of Indiana, Ohio, Tennessee and West Virginia. An aftershock of magnitude 3.8 mbLg (BLA) occurred two to three minutes later.
	07	04	18	22.3	41.927	N	142.204	E	73		5.0	0.9	151	HOKKAIDO, JAPAN REGION. Felt (III JMA) at Urakawa; (II JMA) at Tomakomai and Hiroo; (I JMA) at Muroran, Obihiro and Sapporo.
	07	04	21	39.3*	1.367	S	127.664	E	72	?	4.4	1.2	9	HALMAHERA
	07	04	33	19.9?	32.57	S	71.65	W	10	G		0.5	9	NEAR COAST OF CENTRAL CHILE
	07	07	07	40.8	31.600	S	141.522	E	10	G		1.3	11	NEW SOUTH WALES, AUSTRALIA. Felt in the Broken Hill area.
	07	07	13	14.6?	49.01	N	1.57	W	10	G		1.0	9	FRANCE
a	07	07	14	49.4	6.810	S	130.180	E	108		5.2	0.9	93	BANDA SEA

	07	07	31	29	4*	18.366	S	69.968	W	163	*	0.7	7	NORTHERN CHILE
	07	07	50	16.6?		24.29	S	178.92	E	641	? 4 4	0.6	30	SOUTH OF FIJI ISLANDS
	07	08	46	35	6*	14.933	S	177.835	W	387	* 4.6	1.0	26	FIJI ISLANDS REGION
	07	09	03	01	5	46 728	N	7.128	E	10	G	1.0	22	SWITZERLAND. ML 3.1 (LDG).
	07	09	15	56.0*		19.046	N	121.006	E	46	* 4.2	1.3	22	PHILIPPINE ISLANDS REGION
	07	09	32	11.5%		60.700	N	5.580	E	10	G	1.1	7	SOUTHERN NORWAY. MD 2.0 (BER).
	07	09	54	13.2?		16.29	N	96.17	W	10	G 4.0	1.2	16	OAXACA, MEXICO
	07	10	06	45.7*		47 758	N	6.940	E	10	G	0.3	5	FRANCE. MD 1.9 (STR).
	07	10	50	16.2&		48.467	N	122.855	W	26			26	WASHINGTON. <SEA>. CL 2.9 (SEA).
	07	11	47	41.6?		20.67	S	177.71	W	531	? 4.8	0.7	9	FIJI ISLANDS REGION
f	07	11	53	24.1		30 245	N	137.431	E	485	G 6.1	1.3	483	SOUTH OF HONSHU, JAPAN. mb 6.0 (PAS), 5.8 (BRK). Felt (II JMA) at Yokohama, Tokyo, Utsunomiyo and on Chichi-shimo; (I JMA) at Tateyomo, Maeboshi, Mito and on Hachijo-jimo and Oshimo. Depth from broadband displacement seismograms. There appears to be a strong azimuthal variation of depth determined from depth phases.
	07	12	11	03.5%		39.756	N	29.442	E	10	G	0.7	6	TURKEY
	07	12	46	07.3?		39.49	N	0.28	W	5	G	1.2	4	SPAIN. MG 2.5 (MDD). Felt (III) in the Valencia area.
	07	13	06	42.9&		62.695	N	149.521	W	80			16	CENTRAL ALASKA. <AGS-P>.
	07	13	44	03.7		33.432	S	72.227	W	10	G	0.4	9	OFF COAST OF CENTRAL CHILE
	07	14	16	26.6?		15.36	S	166.04	E	100	? 5.1	0.1	6	VANUATU ISLANDS
	07	14	39	42.8		34.215	N	26.490	E	33	N 4.0	1.4	32	CRETE
	07	15	22	53.9&		61.841	N	151.608	W	93			32	SOUTHERN ALASKA. <AGS-P>.
	07	16	41	16.5*		45.265	N	148.970	E	126	D 4.7	1.1	53	KURIL ISLANDS
	07	17	27	37.6*		36.656	N	10.024	W	10	G	1.0	12	NORTH ATLANTIC OCEAN MG 3.4 (MDD).
	07	18	10	25.4*		18.720	S	168.850	E	33	N 4.7	1.4	50	VANUATU ISLANDS
	07	18	58	21.4*		9.151	S	160.247	E	112	4.8	1.3	29	SOLOMON ISLANDS. Felt (II) at Honiara, Guadalcanal.
	07	20	17	53.4%		17.156	N	99.698	W	33	N	0.5	6	GUERRERO, MEXICO
	07	23	43	03.4&		62.449	N	151.632	W	76			20	CENTRAL ALASKA. <AGS-P>.
	08	00	32	33.5*		30.299	N	137.552	E	500	* 4.1	0.8	18	SOUTH OF HONSHU, JAPAN
	08	01	17	38.8		35.994	N	112.272	W	5	G	0.6	50	WESTERN ARIZONA. ML 3.1 (NEIS). Felt (IV) at Grand Canyon.
	08	02	13	38.8		40.718	N	29.674	E	10	G	1.1	8	TURKEY
	08	02	40	03.8&		57.656	N	143.001	W	10	G		25	GULF OF ALASKA. <AGS-P>.
	08	02	42	55.6?		2.33	N	126.68	E	33	N 4.4	1.0	7	MOLUCCA PASSAGE
	08	03	08	56.2%		37.659	N	3.354	W	5	G	1.1	9	SPAIN. MG 3.3 (MDD).
	08	03	22	05.6		35.986	N	112.280	W	5	G	0.4	52	WESTERN ARIZONA. ML 3.1 (NEIS). Felt at Grand Canyan.
	08	05	29	23.7		38.646	N	0.528	W	5	G	0.5	4	SPAIN. MG 2.6 (MDD). Felt (III) in the Alcay area.
	08	06	25	59.8		12.757	S	166.359	E	83	* 4.8	1.0	56	SANTA CRUZ ISLANDS
	08	06	27	15.4*		45.121	N	147.339	E	33	N 4.9 4.5	0.8	35	KURIL ISLANDS
	08	08	08	11.3		40.712	N	29.660	E	10	G	0.9	10	TURKEY
	08	08	12	08.4		9.684	N	84.868	W	28	4.4	0.9	30	COSTA RICA. MD 4.4 (SJS), 4.2 (HDC). Felt (IV) at Herradura, (III) at Puntarenas and (II) at San Jose.
	08	10	36	53.1*		24.899	N	122.233	E	10	G 4.6	1.3	7	TAIWAN REGION
a	08	11	06	38.3*		60.942	S	154.071	E	10	G 4.7 5.2	1.4	22	WEST OF MACQUARIE ISLAND
	08	11	13	15.4*		16.911	N	100.336	W	48	* 4.5	1.0	31	NEAR COAST OF GUERRERO, MEXICO
	08	12	03	53.4*		24.828	N	121.919	E	10	G 4.1	1.3	8	TAIWAN
	08	12	19	22.6*		10.484	S	123.876	E	33	N	1.5	6	TIMOR
	08	12	42	26.5?		5.44	N	82.77	W	10	G	0.4	14	SOUTH OF PANAMA
	08	12	48	35.2		26.256	S	175.855	W	33	N 5.4	1.3	74	SOUTH OF TONGA ISLANDS
	08	13	08	35.0?		61.85	N	7.54	E	10	G	0.9	5	SOUTHERN NORWAY. MD 2.6 (BER).
	08	13	46	05.7*		5.820	S	146.950	E	181	* 4.2	0.6	7	EAST PAPUA NEW GUINEA REGION
	08	13	47	13.4&		48.206	N	122.497	W	23			51	WASHINGTON. <SEA>. CL 2.8 (SEA). Felt on Camana and Whidbey Islands.
	08	14	07	13.3?		44.20	N	7.32	E	10	G	0.6	4	NORTHERN ITALY. ML 1.9 (GEN).
	08	15	42	08.2		24.794	N	122.061	E	10	G 3.1	1.3	18	TAIWAN REGION
	08	17	04	34.3?		7.93	S	127.86	E	147	? 4.5	1.2	7	BANDA SEA
	08	17	07	42.2%		40.698	N	29.977	E	10	G	0.5	8	TURKEY
	08	18	09	56.5?		10.20	N	60.36	W	10	G	0.3	5	TRINIDAD
	08	18	54	42.4		24.084	N	122.392	E	40	* 4.4	1.3	34	TAIWAN REGION
	08	19	52	53.1?		48.10	N	153.61	E	33	N 4.5 4.6	1.4	7	KURIL ISLANDS
a	08	20	14	47.0		0.831	S	22.291	W	10	G 4.9 4.6	0.9	94	CENTRAL MID-ATLANTIC RIDGE
	08	21	42	10.0&		39.941	N	111.959	W	5			13	UTAH. <SLC-P>. ML 2.7 (SLC). Felt (IV) at Goshen.
	08	21	42	34.8*		24.592	N	122.050	E	10	G 4.1	1.5	7	TAIWAN REGION
	08	22	14	37.5		38.909	N	29.166	E	10	G 3.7	1.2	32	TURKEY
	08	22	27	53.5*		35.617	S	179.656	E	86	* 5.5	1.2	55	OFF E. COAST OF N. ISLAND, N.Z.
	08	23	16	43.0&		35.090	N	118.960	W	18			20	CENTRAL CALIFORNIA. <PAS-P>. ML 3.4 (PAS). Felt (IV) at Mettler and Tehachapi.
	08	23	45	43.8		24.521	N	65.900	E	10	G 5.0 3.9	1.0	84	NEAR COAST OF PAKISTAN
	08	23	54	57.8%		37.802	N	25.449	W	10	G	0.6	5	AZORES ISLANDS
	09	02	20	21.1		30.200	S	67.574	W	40	* 5.1	1.1	32	SAN JUAN PROVINCE, ARGENTINA
	09	02	23	13.9*		5.504	N	125.450	E	33	N 4.2	1.3	8	MINDANAO, PHILIPPINE ISLANDS
	09	05	29	58.4*		34.135	S	178.614	E	33	N 4.5 4.1	1.2	15	SOUTH OF KERMADEC ISLANDS
	09	05	51	25.8&		56.995	N	143.318	W	10	G		23	GULF OF ALASKA. <AGS-P>.
	09	09	31	27.3		19.163	N	121.237	E	42	4.9 4.8	1.1	73	PHILIPPINE ISLANDS REGION
	09	09	49	25.8*		51.351	N	177.179	W	42	D 4.5	1.4	35	ANDREANOF ISLANDS, ALEUTIAN IS.
	09	10	45	45.0?		36.57	N	5.59	W	5	G	1.0	4	STRAIT OF GIBRALTAR. MG 2.6 (MDD).
	09	11	14	17.0%		46.132	N	2.690	E	10	G	0.4	6	FRANCE. ML 1.9 (LDG).
	09	11	32	59.5%		60.369	N	5.201	E	0	G	0.9	6	SOUTHERN NORWAY. MD 1.9 (BER). Prabable explosion.
	09	11	48	38.5?		18.15	N	107.66	W	10	G 3.9	1.1	23	OFF COAST OF JALISCO, MEXICO
	09	13	07	05.5?		58.79	N	6.10	E	10	G	0.7	7	SOUTHERN NORWAY. MD 2.1 (BER).
	09	14	24	37.6*		52.623	S	27.017	E	10	G 4.7	1.3	10	SOUTH OF AFRICA
	09	14	40	44.6		66.406	N	18.383	W	23	* 4.4 4.2	1.0	40	ICELAND REGION
	09	15	04	42.0*		23.181	S	65.581	W	33	N	0.7	5	JUJUY PROVINCE, ARGENTINA
	09	15	17	06.3*		47.300	N	10.819	E	10	G	0.5	5	AUSTRIA. ML 2.2 (KBA).
	09	15	49	03.5*		41.545	N	2.062	E	10	G	1.0	5	SPAIN
	09	16	58	29.3*		35.171	N	5.954	E	10	G 4.0	1.1	20	ALGERIA. Felt at Batna.
	09	16	59	19.3*		52.583	S	26.441	E	10	G 5.1 4.9	1.4	24	SOUTH OF AFRICA
	09	18	25	14.9		4.635	S	152.892	E	67	5.1	0.8	154	NEW BRITAIN REGION. Felt (III) at Rabaul.
	09	21	12	36.1		36.483	N	71.381	E	99	D 5.4	0.9	188	AFGHANISTAN-USSR BORDER REGION. Felt (III) at Ishkashim, Kulyab and Kharag, USSR. Also felt at Peshawar and Chitral, Pakistan.

	09	21 19 27 0	36 552	N	71 522	E	100	G	4.7		0.8	37	AFGHANISTAN-USSR BORDER REGION. Felt (III) at Kharog, USSR
	09	22 50 34.8%	12 492	S	76 952	W	33	N			0.2	5	NEAR COAST OF PERU
	09	23 02 01.6•	16 862	N	100 643	W	10	G	4.1		1.0	7	NEAR COAST OF GUERRERO, MEXICO
	09	23 02 17 6•	0.883	N	125 447	E	108	?	4.4		1.2	16	MOLUCCA PASSAGE
a	09	23 07 47.7	7.157	S	81 547	W	36	D	5.6	4.8	1.0	248	OFF COAST OF NORTHERN PERU
	09	23 42 44.4	40.098	N	16 165	E	10	G			0.6	6	SOUTHERN ITALY
	10	00 13 20.8	37.910	N	14 677	E	13				0.9	11	SICILY
	10	00 46 50.8?	24.71	S	179.67	E	576	?	5.2		1.0	19	SOUTH OF FIJI ISLANDS
	10	00 52 03.7&	31 630	N	116 560	W	6	G				6	BAJA CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
	10	02 06 59.9•	33 631	S	71.961	W	10	G			0.7	10	NEAR COAST OF CENTRAL CHILE
	10	03 12 11.7	43 367	N	17 481	E	11				1.2	34	YUGOSLAVIA ML 3.4 (KBA), 3.4 (ZAG) MD 3.4 (TTG), 3 8 (TRI). Felt (V) in the Mostar area.
	10	03 16 05.8	34 926	N	139 217	E	10	G	4 1		0.3	7	NEAR S. COAST OF HONSHU, JAPAN Felt (III JMA) at Nagatsuro and an Oshima; (II JMA) at Ajiro, Tateyama and Yokohama; (I JMA) at Tokyo.
	10	03 52 13 4•	63 239	N	150 661	W	139	?			0.4	6	CENTRAL ALASKA
	10	04 04 50.2?	6.08	S	130 68	E	33	N	4.1		1.3	6	BANDA SEA
	10	04 47 55.6	16.848	N	94.691	W	107		4.3		0.7	25	OAXACA, MEXICO
	10	04 50 51.3	21 481	S	67.150	W	241	•	4.4		0.9	13	CHILE-BOLIVIA BORDER REGION
	10	05 03 19.2?	7 31	S	128.66	E	33	N	4.1		1.4	6	BANDA SEA
	10	05 32 56.5•	34 906	S	179 432	W	33	N	5.3		0.8	26	SOUTH OF KERMADEC ISLANDS
	10	06 02 26.0•	10.449	S	75.456	W	33	N	4.8		1.3	13	PERU
	10	07 07 17.8	39.874	N	25.468	E	10	G			1.0	16	AEGEAN SEA. ML 3.7 (ATH)
	10	07 46 05.9%	32.993	S	116.796	E	10	G			1.5	8	WESTERN AUSTRALIA
	10	10 09 33.3	3 640	S	145 661	E	90	?	5.1		1.0	24	NEAR N COAST OF PAPUA NEW GUINEA
	10	10 27 12.9	36.347	N	4 364	W	94	?			0.8	14	STRAIT OF GIBRALTAR. MG 3 0 (MDD).
	10	10 46 03.6•	36.178	N	68.955	E	33	N	4.1		1.3	7	HINDU KUSH REGION
	10	11 02 10.2?	6.72	S	147.24	E	41	•	4.3		1.2	10	EAST PAPUA NEW GUINEA REGION
	10	11 13 35.4•	39.577	N	23.208	E	10	G			1.4	6	AEGEAN SEA. ML 3.1 (ATH).
	10	11 33 32.2%	39.801	N	29.136	E	10	G			1.1	6	TURKEY
	10	11 46 36.1•	32.726	S	70.197	W	122	•			0.9	15	CHILE-ARGENTINA BORDER REGION
	10	12 37 27.4?	39.59	N	29.36	E	10	G			0.4	5	TURKEY
	10	12 37 59.7%	46.739	N	0.841	W	5	G			1.5	8	FRANCE. ML 2.8 (LDG).
	10	12 47 39.1•	39.509	N	21.272	E	10	G			1.5	7	GREECE. ML 3.6 (ATH).
	10	13 07 38.7%	37.735	N	25.426	W	10	G			0.7	6	AZORES ISLANDS
	10	13 29 05.5?	51.32	N	15.99	E	10	G			0.5	5	POLAND
	10	13 34 53.8	44.661	N	7.531	E	10	G			0.8	7	NORTHERN ITALY. ML 2.3 (LDG).
	10	13 54 25.5?	32.68	S	71.72	W	22				0.4	10	NEAR COAST OF CENTRAL CHILE
	10	14 39 08.7%	18.383	N	66.732	W	33	N			1.3	6	PUERTO RICO REGION
	10	15 19 15.6	35.914	N	70.583	E	96	•	4.6		1.3	19	HINDU KUSH REGION. Felt (III) at Kharag, USSR.
	10	15 46 51.0?	8.19	S	126.91	E	209	?	4.6		1.0	7	TIMOR
	10	16 52 46.4?	6.62	S	130.48	E	33	N	4.0		1.0	5	BANDA SEA
	10	17 29 40.5?	7.39	S	127.96	E	118	?	3.9		1.4	5	BANDA SEA
	10	17 37 10.5%	40.419	N	28.395	E	10	G			0.5	6	TURKEY
	10	19 45 26.9	39.386	N	16.720	E	10	G			1.3	9	SOUTHERN ITALY
	10	19 52 51.4	39.367	N	16.774	E	10	G			1.0	12	SOUTHERN ITALY
	10	20 40 10.9•	39.324	N	16.411	E	10	G			0.6	5	SOUTHERN ITALY
	10	20 43 33.6?	16.08	S	173.45	W	33	N	4.5	4.5	1.2	22	TONGA ISLANDS
	10	20 47 51.8	39.381	N	16.805	E	13				1.0	11	SOUTHERN ITALY
a	10	21 23 56.5	6.663	S	147.415	E	33	N	4.9	4.9	1.0	30	EAST PAPUA NEW GUINEA REGION. ML 5.0 (PMG).
	10	21 32 52.1•	2.833	S	141.279	E	33	N	3.9		0.7	11	NEAR N COAST OF PAPUA NEW GUINEA
a	10	21 38 09.4•	54.180	S	134.156	W	10	G	5.3	5.5	1.1	35	SOUTH PACIFIC CORDILLERA
	11	00 24 24.9	19.748	S	133.981	E	5	G			0.7	7	NORTHERN TERRITORY, AUSTRALIA
	11	00 39 30.0?	25.66	S	179.28	E	583	?	4.4		0.7	9	SOUTH OF FIJI ISLANDS
a	11	01 05 34.3	14.697	N	92.589	W	78		5.3		0.9	259	NEAR COAST OF CHIAPAS, MEXICO
	11	01 08 58.1•	36.626	N	141.634	E	33	N	4.3		0.6	7	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Onahama and Fukushima.
	11	01 55 06.4%	39.429	N	16.893	E	10	G			0.6	7	SOUTHERN ITALY
	11	02 18 12.1•	36.521	N	26 496	E	169	?			1.1	15	DODECANESE ISLANDS
	11	03 02 58.3?	28.02	S	66.99	W	33	N			0.9	6	CATAMARCA PROVINCE, ARGENTINA
	11	04 21 13.7	36.473	N	70 551	E	203	•	4.6		0.9	21	HINDU KUSH REGION
	11	04 43 22.8?	20.67	S	178.99	W	646	?	4.2		0.4	9	FIJI ISLANDS REGION
	11	05 52 41.9•	18.773	S	67.057	W	278	•			0.8	8	BOLIVIA
a	11	06 17 42.2	25.493	S	179.608	E	510	•	5.1		1.2	126	SOUTH OF FIJI ISLANDS
	11	06 38 00.4&	38.835	N	122 753	W	1					10	NORTHERN CALIFORNIA. <BRK>. ML 2.8 (BRK). Felt at Cobb Mountain.
	11	07 57 54.2&	59.810	N	153.542	W	137					24	SOUTHERN ALASKA. <AGS-P>.
	11	08 14 03.3?	10.75	S	162.28	E	128	•	4.7		1.4	11	SOLOMON ISLANDS
	11	08 29 00.4•	65.468	N	167.837	W	33	N	4.2		1.7	11	ALASKA. ML 4.6 (PMR).
	11	11 03 00.3•	19.094	N	95.820	E	33	N	4.2		0.5	8	BURMA
	11	11 18 55.3?	11.97	N	61.10	W	10	G			1.0	7	WINDWARD ISLANDS. ML 4.1 (FDF).
a	11	11 33 13.0	50.344	N	155.170	E	119	D	5.0		0.9	183	KURIL ISLANDS
a	11	11 36 51.2	18.914	N	145.625	E	176	D	5.3		1.1	104	MARIANA ISLANDS
a	11	13 36 07.6?	53.89	S	134.07	W	10	G	5.1	5.1	1.5	17	SOUTH PACIFIC CORDILLERA
	11	14 25 23.6•	24.342	S	179.824	E	544	?	4.7		0.8	28	SOUTH OF FIJI ISLANDS
	11	14 57 30.5	37.562	N	19.895	E	10	G	3.7		0.7	19	IONIAN SEA. MD 3.7 (ATH).
	11	16 51 08.3	63.082	N	148 303	W	105	?			0.5	11	CENTRAL ALASKA
	11	17 17 33.9	40.525	N	27.684	E	11				0.8	8	TURKEY
	11	17 43 10.0?	18.14	S	175.27	W	214	?	4.7		1.2	9	TONGA ISLANDS
	11	17 56 29.4•	30.345	N	130.273	E	33	N	4.3		0.5	10	KYUSHU, JAPAN
	11	18 12 14.1&	33.010	N	117.800	W	6	G				10	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	11	18 55 53.1	33.096	S	70.087	W	10	G			0.3	9	CHILE-ARGENTINA BORDER REGION
	11	19 08 25.5%	41.308	N	15.902	E	10	G			0.6	5	SOUTHERN ITALY
	11	19 20 08.4•	1.832	N	99.223	E	158	•	4.7		0.8	25	NORTHERN SUMATERA
	11	19 29 13.2	18.944	N	107.210	W	10	G	4.4		1.0	41	OFF COAST OF JALISCO, MEXICO
	11	20 39 11.3•	17.168	N	73.855	E	10	G			0.3	6	INDIA
	11	21 45 23.5	38.131	N	23.208	E	22		4.5		1.3	144	GREECE. ML 4.2 (ATH). Felt in the Athens area.
	11	21 54 11.2•	24.024	N	121.583	E	16	•			0.3	6	TAIWAN
	11	23 01 53.1	47.134	N	8.238	E	10	G			1.3	18	SWITZERLAND. ML 2.6 (LDG).
	11	23 04 25.9&	59.404	N	153.139	W	89					25	SOUTHERN ALASKA. <AGS-P>.
	11	23 06 13.8•	40 580	N	19.942	E	10	G			1.3	6	ALBANIA
	11	23 52 17.5	45.583	N	10.327	E	10	G			0.9	30	NORTHERN ITALY

	12	02	01	01.4&	61	999	N	152	056	W	123			24	SOUTHERN ALASKA <AGS-P>
	12	02	32	20.8	26	867	S	26	659	E	5 G	4.7	0.8	23	REPUBLIC OF SOUTH AFRICA
	12	03	45	59.6	20	829	N	94	057	E	30 *	4.6	1.1	63	BURMA
	12	07	28	55.6%	17	815	N	66	859	W	10 G		0.2	6	PUERTO RICO REGION
	12	08	20	29.9*	5	215	S	152	569	E	33 N	3.4	1.0	5	NEW BRITAIN REGION. Felt (II) at Rabaul.
	12	09	53	10.3%	60	295	N	5	455	E	0 G		0.3	6	SOUTHERN NORWAY MD 2.0 (BER).
	12	10	37	58.1%	44	692	N	9	454	E	10 G		0.6	6	NORTHERN ITALY
	12	11	39	07.5?	40	38	N	21	82	E	10 G		1.7	5	GREECE MD 2.8 (ATH).
a	12	11	44	50.8	1	120	S	127	046	E	43 D	5.4 4.8	1.3	93	HALMAHERA
	12	11	52	30.8%	39	569	N	29	368	E	10 G		0.5	7	TURKEY
	12	12	34	20.7?	45	01	N	6	76	E	10 G		0.3	4	FRANCE. ML 2.5 (GEN).
	12	12	57	56.7%	59	896	N	10	684	E	10 G		0.3	6	SOUTHERN NORWAY. MD 2.4 (BER)
	12	13	06	54.1*	16	647	S	172	742	E	33 N	4.9 4.2	1.6	35	VANUATU ISLANDS REGION
	12	13	24	34.2&	33	870	N	118	460	W	3			44	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.9 (PAS) Felt (V) at Carson, Torrance, and Wilmimgtan Felt (IV) at El Segundo, Gardena, Hawthorne, Hermasa Beach, Inglewood, Lomita, Lang Beach, Las Angeles, Manhattan Beach, Paramaunt, Playa del Rey, Redanda Beach, Santa Monica and Venice
	12	13	49	35.8?	58	67	N	5	81	E	10 G		1.2	6	SOUTHERN NORWAY. MD 2.3 (BER).
	12	14	23	06.7	54	336	N	2	592	W	10 G		0.8	20	UNITED KINGDOM. ML 3.7 (LDG), 3.0 (DLE). Felt at Windermere, Ambleside and Hawkshead.
	12	14	46	27.6?	23	95	N	122	02	E	33 N		1.4	5	TAIWAN REGION
	12	14	51	57.4&	38	833	N	122	752	W	1			12	NORTHERN CALIFORNIA. <BRK>. ML 3.3 (BRK).
	12	16	42	37.2	39	627	N	23	564	E	10 G		1.4	16	AEGEAN SEA. ML 3.5 (ATH).
	12	20	19	15.8	66	566	N	18	003	W	10 G	4.8 4.6	1.1	112	ICELAND REGION
	12	20	47	08.0*	54	086	N	160	574	E	33 N	4.7	0.6	34	NEAR EAST COAST OF KAMCHATKA
	12	21	11	07.8%	60	206	N	4	955	E	0 G		1.3	6	SOUTHERN NORWAY. MD 2.0 (BER). Prabable explosian.
	12	23	00	22.4*	66	292	N	18	152	W	10 G	4.2	1.0	21	ICELAND REGION
	12	23	15	55.2%	37	931	N	23	245	E	33 N		1.0	5	SOUTHERN GREECE. ML 3.3 (ATH).
	12	23	30	41.4?	40	14	S	72	61	W	33 N		1.2	22	CENTRAL CHILE
	12	23	32	42.2	41	450	N	20	221	E	10 G		1.2	23	ALBANIA. ML 3.2 (TTG). Felt (IV) at Debar, Yugoslavia.
	13	00	08	49.8*	30	239	N	50	236	E	33 N	4.6	1.1	12	IRAN
a	13	00	58	46.6	29	933	N	138	605	E	449 D	5.5	1.0	354	SOUTH OF HONSHU, JAPAN. Felt (II JMA) on Chichi-shima and (I JMA) at Tokya, Yakahama, Tateyama, Chashi, Utsunamiya and Shirakawa.
	13	03	12	19.5%	40	371	N	27	199	E	10 G		1.3	6	TURKEY
	13	05	19	22.4?	38	41	N	24	25	E	10 G		1.1	4	AEGEAN SEA. ML 3.3 (ATH).
	13	05	33	43.3?	28	01	N	139	87	E	460 ?	4.5	0.4	9	BONIN ISLANDS REGION
	13	05	52	40.4&	19	312	N	155	485	W	11			47	HAWAII. <HVO-P>. ML 4.2 (HVO). Felt strangly on the southern part of the island af Hawaii.
	13	07	32	47.7?	21	91	S	69	32	W	33 N		1.3	5	NORTHERN CHILE
	13	08	54	17.3	19	963	S	133	627	E	5 G		1.4	11	NORTHERN TERRITORY, AUSTRALIA
	13	10	40	54.5%	39	498	N	0	318	W	10 G		0.7	4	SPAIN. MG 2.5 (MDD). Felt (III) in the Valencia area.
	13	12	24	57.5%	39	059	N	27	674	E	10 G		0.5	5	TURKEY
	13	13	02	42.2&	59	827	N	153	537	W	140	4.2		38	SOUTHERN ALASKA. <AGS-P>.
	13	13	18	47.8?	30	33	N	140	62	E	33 N	4.6	0.2	9	SOUTH OF HONSHU, JAPAN
	13	13	34	52.4%	61	745	N	7	452	E	12		0.8	9	SOUTHERN NORWAY. MD 2.5 (BER).
	13	16	42	11.3?	5	27	S	148	02	E	33 N	4.1	1.5	7	NEW BRITAIN REGION
	13	17	21	15.9*	7	227	S	129	311	E	202 *	4.7	1.0	13	BANDA SEA
	13	18	29	20.3	50	871	N	6	499	E	10 G		0.9	13	GERMANY. ML 2.9 (LDG), 2.4 (BNS).
	13	19	01	20.5*	10	842	S	113	453	E	33 N		1.6	6	SOUTH OF JAVA
a	13	19	45	28.2	13	659	N	90	850	W	55	5.1	1.3	139	NEAR COAST OF GUATEMALA. Ms 5.0 (BRK).
	13	20	09	25.4*	54	527	N	162	253	W	33 N	4.8	1.1	20	ALASKA PENINSULA. ML 3.7 (PMR). Felt (IV) at King Cove.
	13	22	05	58.0	20	756	S	68	828	W	140 *		0.9	17	CHILE-BOLIVIA BORDER REGION
	13	22	52	07.0	52	132	N	115	081	W	5 G		1.1	12	ALBERTA PROVINCE, CANADA. ML 3.7 (PGC).
	13	22	54	11.9?	33	77	S	71	66	W	10 G		0.5	10	NEAR COAST OF CENTRAL CHILE
	13	23	15	16.1?	16	49	N	93	81	W	105 ?		1.4	5	CHIAPAS, MEXICO
	14	00	10	39.0?	53	27	N	159	68	E	33 N	4.3	1.5	8	NEAR EAST COAST OF KAMCHATKA
	14	00	37	05.2?	49	88	N	28	79	W	10 G	4.7 4.2	0.7	16	NORTH ATLANTIC RIDGE
	14	01	08	00.6&	62	188	N	150	780	W	0			30	CENTRAL ALASKA. <AGS-P>. ML 3.1 (PMR).
	14	01	43	23.2%	10	658	N	60	837	W	10 G		0.9	7	TRINIDAD
	14	01	48	34.9	36	900	N	27	860	E	10 G		0.7	9	DODECANESE ISLANDS
	14	03	59	57.4	49	833	N	78	808	E	0 G	6.1 4.5	0.9	551	EASTERN KAZAKH SSR. Underground nuclear explasion. "Joint Verificatian Experiment."
	14	04	54	18.3?	33	66	S	70	67	W	33 N		1.4	9	CHILE-ARGENTINA BORDER REGION
	14	05	04	26.9*	44	614	N	148	426	E	33 N	4.7	0.8	14	KURIL ISLANDS
	14	05	37	50.7?	29	58	N	42	39	W	10 G	4.5	0.7	8	NORTH ATLANTIC RIDGE
	14	06	07	41.2*	18	709	N	101	332	W	33 N	3.6	0.9	13	GUERRERO, MEXICO
	14	07	50	43.7?	37	71	N	25	46	W	10 G		0.3	5	AZORES ISLANDS
	14	09	19	23.7?	5	01	S	135	15	E	33 N	4.6	1.5	12	WEST IRIAN REGION
	14	09	44	10.2*	33	248	N	68	635	E	33 N	4.7	0.6	11	AFGHANISTAN. Felt at Kabul.
a	14	10	03	42.3	22	054	S	170	164	E	67 *	5.0	1.2	87	LOYALTY ISLANDS REGION
	14	11	23	53.7*	22	119	S	170	047	E	45 *	4.7 4.7	1.4	46	LOYALTY ISLANDS REGION
	14	12	27	37.2?	42	36	N	145	84	E	33 N	4.5	1.0	5	HOKKAIDO, JAPAN REGION. Felt (III JMA) at Nemura, Hirao and Urokawa; (II JMA) at Obihira and Kushira. Alsa felt at Sapparo.
	14	12	35	51.5	42	511	N	23	998	E	10 G		1.5	7	BULGARIA
	14	12	47	54.0?	41	27	N	23	01	E	10 G		0.7	5	GREECE-BULGARIA BORDER REGION
	14	13	13	52.4	51	797	N	167	996	W	47 D	5.2 4.1	1.0	151	FOX ISLANDS, ALEUTIAN ISLANDS
	14	13	21	01.8%	60	330	N	5	300	E	0 G		0.4	5	SOUTHERN NORWAY. MD 2.0 (BER). Prabable explosian.
	14	13	53	01.7	44	300	N	6	455	E	10 G		0.5	38	FRANCE. ML 2.9 (LDG).
	14	14	11	37.9%	60	360	N	5	278	E	10 G		0.3	5	SOUTHERN NORWAY. MD 2.0 (BER).
	14	14	54	54.6?	22	13	S	169	37	E	33 N	4.4	0.9	5	LOYALTY ISLANDS REGION
	14	16	11	56.8?	0	26	S	91	34	W	10 G	4.6	0.7	13	GALAPAGOS ISLANDS. Felt an southern Isla Isabela. Probably assaciated with an eruptian of Fernandina Volcana.
	14	18	10	52.7%	60	700	N	5	612	E	0 G		0.5	6	SOUTHERN NORWAY. MD 2.5 (BER). Probable explosion.
	14	18	33	16.5*	44	355	N	7	298	E	10 G		0.5	7	NORTHERN ITALY. ML 2.4 (GEN), 2.4 (LDG).
a	14	20	11	32.9	42	312	N	142	999	E	71	4.9	1.0	97	HOKKAIDO, JAPAN REGION. Felt (III JMA) at Urakawa and Hirao; (II JMA) at Kushiro, Obihiro and Tomakamai.
a	14	20	36	38.8	18	526	N	102	279	W	80 D	4.9	1.2	111	MICHOACAN, MEXICO
	14	21	22	59.8*	21	553	S	68	784	W	172 *	4.8	1.3	13	CHILE-BOLIVIA BORDER REGION

	14	21	26	56.5*	40 733	N	30.002	E	19	*			1.0	8	TURKEY
	14	22	09	03.7	19 965	S	133.676	E	5	G	4.2		1.2	13	NORTHERN TERRITORY, AUSTRALIA
a	14	22	14	07.5	23 424	S	67.997	W	123	G	5.7		1.1	231	CHILE-ARGENTINA BORDER REGION Felt (III) in the Antofagasta, Chile area. Depth from broadband displacement seismograms.
	14	22	56	51.0*	6 426	S	147.582	E	70		5.0		1.2	28	EAST PAPUA NEW GUINEA REGION
	14	23	11	51.6&	60.219	N	153.166	W	139					27	SOUTHERN ALASKA. <AGS-P>.
	15	00	05	05.7&	38.830	N	122.827	W	3					12	NORTHERN CALIFORNIA. <BRK>. ML 3.1 (BRK).
	15	05	09	27.5?	2.72	S	137.43	E	33	N		4.0	1.4	7	WEST IRIAN
	15	06	24	01.5&	39.111	N	99.187	W	5	G				15	KANSAS. <LAK>. mbLg 2.6 (TUL).
	15	06	55	09.4%	60.323	N	5.247	E	0	G			0.6	6	SOUTHERN NORWAY. MD 2.2 (BER). Probable explosion.
	15	07	19	42.7?	10.60	N	60.83	W	32	*			1.4	7	TRINIDAD
a	15	08	58	00.2*	16.631	S	172.661	W	33	N	4.8	5.0	1.4	35	SAMOA ISLANDS REGION
	15	13	20	10.5?	58.68	N	5.94	E	10	G			0.6	7	SOUTHERN NORWAY. MD 2.3 (BER).
	15	13	21	52.2*	3.824	N	127.309	E	33	N	4.7		1.0	10	TALAUD ISLANDS
	15	14	18	14.5?	44.38	N	7.91	E	10	G			0.5	4	NORTHERN ITALY. ML 2.4 (GEN).
	15	14	28	09.0&	59.848	N	153.344	W	113					32	SOUTHERN ALASKA. <AGS-P>.
	15	15	24	38.0?	24.49	N	123.38	E	33	N			1.1	5	SOUTHWESTERN RYUKYU ISLANDS
	15	16	07	52.9&	37.250	N	121.665	W	5					15	CENTRAL CALIFORNIA. <BRK>. ML 3.4 (BRK).
	15	16	07	58.5*	3.956	S	139.134	E	65	?	4.3		1.6	20	WEST IRIAN
	15	16	16	07.6?	3.14	S	138.91	E	33	N	4.0		1.5	5	WEST IRIAN
	15	16	30	52.8*	33.589	S	70.821	W	93	*			0.6	14	CHILE-ARGENTINA BORDER REGION. Felt (II) at Santiago, Chile.
	15	16	51	41.1&	60.894	N	150.976	W	9	G				35	KENAI PENINSULA, ALASKA. <AGS-P>. ML 3.4 (PMR). Felt (II) at Ancharoge.
	15	16	59	26.8?	39.36	N	28.02	E	10	G			0.3	4	TURKEY
	15	17	10	01.9	11.580	N	61.302	W	10	G			1.3	6	WINDWARD ISLANDS
	15	17	25	43.6*	6.196	S	130.905	E	117	?	4.4		1.5	12	BANDA SEA
	15	17	55	24.9*	26.824	S	26.712	E	5	G			1.5	5	REPUBLIC OF SOUTH AFRICA. MG 3.4 (BUL).
	15	18	18	56.1	36.287	N	140.036	E	66		4.3		1.4	24	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Utsunamiya; (II JMA) at Mita and Kumagaya; (I JMA) at Tokyo, Chiba, Nikka and Tateyoma.
f	15	18	48	01.1	1.442	S	77.866	W	170	G	5.8		1.0	423	ECUADOR. mb 6.3 (BRK). Felt (V) at Guayaquil and (II) at Quito. Felt along the entire west coast of Ecuador. Also felt at Tumaco and Pasto, Colombia. Depth from broadband displacement seismograms.
	15	19	15	20.3*	6.635	S	127.981	E	377	*	4.2		0.9	8	BANDA SEA
	15	19	48	02.1?	36.56	N	1.72	E	10	G			0.2	5	ALGERIA. MG 3.2 (ALG).
	15	21	12	32.5*	7.742	S	128.541	E	125	*	4.6		1.2	14	BANDA SEA
	15	21	46	52.5*	35.362	N	140.957	E	54	*	4.7		1.3	19	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Chashi.
	16	00	06	52.6*	23.221	S	175.220	W	33	N	4.8	4.9	1.2	34	TONGA ISLANDS REGION
	16	00	16	50.2*	42.877	S	85.787	W	10	G	5.2	5.2	1.0	36	WEST CHILE RISE
a	16	02	16	18.7	20.515	S	178.355	W	551		5.1		0.9	211	FIJI ISLANDS REGION
	16	02	32	21.6&	61.148	N	152.157	W	106					31	SOUTHERN ALASKA. <AGS-P>.
	16	02	33	57.7*	47.624	N	16.220	E	10	G			1.2	6	AUSTRIA
	16	02	45	34.8*	20.327	S	177.713	W	492	*	4.6		1.1	34	FIJI ISLANDS REGION
	16	03	09	49.6*	1.109	S	126.878	E	43	*	5.0		1.5	25	MOLUCCA SEA
	16	03	14	43.2	44.845	N	10.644	E	10	G			1.2	26	NORTHERN ITALY. MD 3.0 (ROM). ML 3.2 (LDG), 2.7 (KBA).
	16	04	23	46.7*	18.000	S	168.573	E	33	*	4.6	4.6	1.2	16	VANUATU ISLANDS
	16	04	56	51.3&	40.502	N	127.368	W	5	G				41	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 4.2 (BRK).
	16	05	26	31.8*	51.846	N	158.701	E	33	N	4.7		0.7	22	NEAR EAST COAST OF KAMCHATKA
	16	06	09	46.9*	28.072	S	71.380	W	33	N			1.6	10	NEAR COAST OF CENTRAL CHILE
a	16	06	27	29.7	17.928	S	169.061	E	33	N	5.2	5.4	1.6	154	VANUATU ISLANDS. Ms 5.5 (BRK).
	16	06	36	16.9%	59.798	N	7.009	E	0	G			1.2	6	SOUTHERN NORWAY. MD 2.1 (BER). Probable explosion.
	16	06	47	16.5	13.859	N	91.601	W	49		4.7	4.6	1.1	69	NEAR COAST OF GUATEMALA
	16	07	21	04.1?	27.73	N	111.57	W	10	G	3.7		0.9	20	GULF OF CALIFORNIA
	16	07	22	08.4?	27.67	N	111.87	W	10	G	3.7		0.9	16	GULF OF CALIFORNIA
	16	07	28	13.6?	27.64	N	111.34	W	10	G	3.7		0.9	18	GULF OF CALIFORNIA
	16	07	36	29.2	62.913	N	149.923	W	98	?			1.1	14	CENTRAL ALASKA. Felt (II) at Talkeetna.
a	16	08	11	56.0	13.926	N	91.547	W	48		5.1	4.4	1.2	94	NEAR COAST OF GUATEMALA
	16	09	08	19.0%	60.324	N	5.227	E	0	G			0.6	7	SOUTHERN NORWAY. MD 2.1 (BER). Probable explosion.
	16	09	59	16.0?	37.17	S	72.79	W	33	N			1.1	14	CENTRAL CHILE. Felt (III) at Las Angeles and Talcahuano.
	16	10	01	43.9%	61.556	N	7.192	E	10	G			0.5	6	SOUTHERN NORWAY. MD 2.3 (BER).
	16	11	04	50.3%	60.374	N	5.310	E	0	G			0.7	8	SOUTHERN NORWAY. MD 2.2 (BER). Probable explosion.
	16	11	46	07.2%	60.316	N	5.260	E	0	G			0.7	8	SOUTHERN NORWAY. MD 2.1 (BER). Probable explosion.
	16	12	05	38.0	65.095	N	133.825	W	10	G			1.3	15	NORTHERN YUKON TERRITORY, CANADA. ML 4.3 (PGC).
	16	12	22	46.3?	59.43	N	5.31	E	10	G			0.6	4	SOUTHERN NORWAY. MD 1.9 (BER).
	16	14	46	19.3&	60.884	N	151.572	W	68					25	KENAI PENINSULA, ALASKA. <AGS-P>.
	16	14	46	53.0*	13.852	N	91.617	W	45	*	4.4	3.5	1.2	26	NEAR COAST OF GUATEMALA
	16	15	17	04.2%	10.551	N	62.015	W	10	G			0.9	6	NEAR COAST OF VENEZUELA
	16	19	01	23.2*	44.632	N	6.811	E	10	G			0.1	7	FRANCE
	16	19	10	40.7?	5.56	S	147.13	E	186	*			1.1	10	EAST PAPUA NEW GUINEA REGION
	16	20	15	08.9&	57.712	N	153.411	W	0					37	KODIAK ISLAND REGION. <AGS-P>. ML 4.2 (PMR).
	16	20	33	53.4*	12.480	S	166.515	E	350	*	4.8		1.1	49	SANTA CRUZ ISLANDS
	16	22	04	26.6*	36.295	N	9.225	W	10	G			1.2	13	WEST OF GIBRALTAR. MG 3.2 (MDD).
	17	01	03	45.6	43.397	N	12.570	E	10	G			0.5	9	CENTRAL ITALY
	17	01	36	31.5	26.381	S	27.230	E	5	G			1.4	10	REPUBLIC OF SOUTH AFRICA. MG 3.9 (BUL).
	17	01	38	50.7*	24.325	S	66.445	W	33	N			1.1	8	SALTA PROVINCE, ARGENTINA
	17	02	22	52.0*	39.668	N	20.587	E	10	G	3.5		1.2	14	GREECE-ALBANIA BORDER REGION
	17	02	29	36.7	39.379	N	23.693	E	10	G			0.6	9	AEGEAN SEA. ML 2.8 (ATH).
a	17	02	45	38.3	51.240	N	179.184	W	33	N	5.2	4.6	0.9	177	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.2 (PMR).
	17	03	17	15.3%	39.416	N	27.946	E	10	G			0.3	6	TURKEY
	17	04	14	51.1	24.167	N	121.059	E	33	N			0.4	6	TAIWAN
	17	06	20	14.1?	29.87	N	114.14	W	10	G	4.1		1.8	10	BAJA CALIFORNIA
	17	09	49	51.1*	61.344	N	2.684	E	10	G			0.8	10	NORWEGIAN SEA. MD 2.8 (BER).
	17	09	52	50.6%	39.083	N	27.628	E	10	G			0.9	6	TURKEY
	17	09	52	51.0?	40.31	N	125.36	W	10	G			0.3	9	OFF COAST OF NORTHERN CALIFORNIA. ML 3.3 (BRK).
	17	13	07	09.9%	39.544	N	26.921	E	10	G			0.4	5	TURKEY
	17	13	26	59.4	35.270	N	120.897	W	5	G			0.9	9	CENTRAL CALIFORNIA. ML 2.5 (BRK).
a	17	13	37	55.3	21.072	N	45.667	W	10	G	5.2	4.6	1.1	73	NORTH ATLANTIC RIDGE
	17	13	48	04.8*	20.601	N	45.104	W	10	G	4.9		1.1	32	NORTH ATLANTIC RIDGE

	17	13	51	24	0?	44.14	N	3 59	E	10	G		1 3	5	FRANCE ML 2 1 (LDG)
	17	13	53	52	8&	11.509	N	86.244	W	139				9	NEAR COAST OF NICARAGUA. <HDC> MD 4.6 (HDC).
	17	14	26	37	3•	26.119	N	128 665	E	33	N	4.3	1 0	8	RYUKYU ISLANDS
a	17	15	23	52.9		44.782	N	152.922	E	41	D	5.4 4.7	0.8	194	KURIL ISLANDS REGION
	17	15	50	20.2&		35.570	N	119.580	W	39				7	CENTRAL CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
	17	15	59	08.9•		5.714	S	151.259	E	33	N	4.6	0.8	12	NEW BRITAIN REGION
	17	16	34	05.9?		29.22	N	54.28	E	33	N	4.2	0.9	14	SOUTHERN IRAN
	17	16	45	05.5		25.232	N	95.161	E	103	•	4.6	1.0	37	BURMA-INDIA BORDER REGION
	17	17	34	26.0%		60.323	N	5.415	E	0	G		0.6	8	SOUTHERN NORWAY. MD 2.0 (BER). Probable explosion.
	17	19	08	39.1•		7.214	S	118.092	E	33	N		0.8	5	FLORES SEA
	17	19	22	46.4?		38.54	N	31.18	E	10	G		1.5	5	TURKEY
	17	19	54	09.9&		59.889	N	153.365	W	119				25	SOUTHERN ALASKA. <AGS-P>.
	17	21	25	22.9&		59.268	N	152.721	W	76				26	SOUTHERN ALASKA. <AGS-P>.
	17	23	48	49.3%		17 821	N	66.946	W	33	N		1.1	6	PUERTO RICO REGION
	18	01	43	01.5		22.112	S	179.522	W	583	?	4.9	0.9	36	SOUTH OF FIJI ISLANDS
	18	02	41	53	6•	19 588	S	133.766	E	5	G		1 1	6	NORTHERN TERRITORY, AUSTRALIA
	18	03	18	48.9		44.627	N	9.489	E	10	G		0.8	30	NORTHERN ITALY. ML 2.9 (LDG).
	18	04	07	37.5•		51.313	N	15.708	E	5	G		1.3	13	POLAND. ML 4.0 (GRF), 3.9 (VKA), 3.8 (KBA).
	18	07	01	58.3		40.631	N	23.406	E	10	G		1.2	17	GREECE. MD 3.4 (ATH).
	18	07	36	00.5		40.662	N	23.451	E	13			0.7	8	GREECE
	18	07	47	24.6?		13.54	N	91.86	W	33	N	4.3	1.3	5	NEAR COAST OF GUATEMALA
	18	08	51	27.0		40.625	N	23.466	E	10	G		1.1	10	GREECE
	18	09	12	02.4?		11.65	S	117.99	E	33	N	4.9	1.4	6	SOUTH OF SUMBAWA ISLAND
	18	11	18	04.8		2.413	S	140.324	E	33	N	4.7 4.3	1.3	32	NEAR N. COAST OF WEST IRIAN
	18	11	44	30.1&		34.926	N	97.191	W	5	G			7	OKLAHOMA. <TUL>. MD 1.9 (TUL).
	18	11	59	55.0•		38.858	N	26.933	E	10	G		1.0	7	AEGEAN SEA
	18	12	34	41.6•		36.512	N	71.367	E	33	N	4.5	1.1	8	AFGHANISTAN-USSR BORDER REGION
	18	13	06	11.1		29.678	N	141.147	E	69	•	4.8	1.1	35	SOUTH OF HONSHU, JAPAN
	18	13	49	34.1•		37.178	N	70.484	E	33	N	4.1	1.5	5	AFGHANISTAN-USSR BORDER REGION
	18	15	11	46.1&		59.727	N	152.988	W	103				28	SOUTHERN ALASKA. <AGS-P>.
	18	15	26	53.1?		17.02	S	129.33	E	5	G		0.1	4	NORTHERN TERRITORY, AUSTRALIA
a	18	15	38	25.5		24.549	N	122.319	E	83		5.3	1.1	179	TAIWAN REGION. Felt (I JMA) on Yonoguni-jima, Ryukyu Islands.
	18	17	34	14.6•		49.083	N	155.080	E	33	N	4.5	0.7	11	KURIL ISLANDS
	18	18	48	26.8&		61.637	N	150.909	W	72				27	SOUTHERN ALASKA. <AGS-P>.
	18	20	32	02.5%		40.665	N	29.902	E	10	G		0.4	6	TURKEY
	18	21	47	19.0&		57.848	N	142.897	W	10	G	4.5		40	GULF OF ALASKA. <AGS-P>.
	18	22	59	46.6?		8.35	S	108.93	E	110	?	4.2	1.1	7	JAVA
	18	23	27	12.0		32.351	N	40.191	W	10	G	4.7 5.0	1.4	41	NORTH ATLANTIC RIDGE
	18	23	46	40.0?		6.32	S	129.63	E	133	?	4.8	1.6	9	BANDA SEA
	19	00	18	35.3		31.602	N	141.605	E	33	N	4.9 4.8	1.1	41	SOUTH OF HONSHU, JAPAN
	19	00	51	24.8		7.405	S	128.230	E	196	•	4.9	1.1	17	BANDA SEA
	19	01	03	13.2		14.912	N	119.887	E	42		5.0 4.5	0.7	51	LUZON, PHILIPPINE ISLANDS
	19	01	51	29.5?		18.71	N	65.79	W	10	G		0.5	5	PUERTO RICO REGION
	19	02	34	46.2•		40.794	N	30.667	E	10	G		0.6	7	TURKEY
	19	02	56	31.7&		38.461	N	118.342	W	9		4.5		103	CALIFORNIA-NEVADA BORDER REGION. <REN>. ML 5.4 (BRK). Felt (V) at Fallon and Hawthorne; (IV) at Gabbs, Schurz and Wellington; (III) at Carson City, Silver Springs and Yerington, Nevada. Felt (IV) at Bridgeport and (III) at Lee Vining and Mono Lake, California. Also felt at Tonopah, Nevada and South Lake Tahoe, California.
	19	03	04	09.3•		21.924	N	94.355	E	89	•	4.6	1.4	12	BURMA
	19	03	19	16.2•		9.400	N	122 230	E	64	•	4.0	0.4	9	NEGROS, PHILIPPINE ISLANDS
	19	03	21	49.6&		38.459	N	118.340	W	12				13	CALIFORNIA-NEVADA BORDER REGION. <REN>. MD 2.0 (REN).
	19	03	22	16.4&		38.458	N	118.347	W	10				9	CALIFORNIA-NEVADA BORDER REGION. <REN>. MD 3.0 (REN).
	19	03	32	01.2•		5.152	S	151.270	E	111	•	5.0	1.2	20	NEW BRITAIN REGION
	19	04	22	37.0?		10.95	N	61.24	W	33	N		0.2	4	TRINIDAD
	19	06	01	15.8?		8.45	S	111.64	E	131	?	4.2	0.7	6	JAVA
	19	08	42	44.4%		38.969	N	27.748	E	10	G		0.1	6	TURKEY
	19	09	21	52.6%		61.728	N	7.471	E	10	G		0.6	6	SOUTHERN NORWAY. MD 2.7 (BER).
	19	09	28	44.7•		21.872	S	68.779	W	162	•	4.3	1.3	11	CHILE-BOLIVIA BORDER REGION
	19	09	29	49.4		39.464	N	21.611	E	33	N		0.9	16	GREECE. ML 3.2 (ATH).
	19	09	58	08.5?		35.27	N	29.51	E	10	G		1.3	5	EASTERN MEDITERRANEAN SEA
	19	12	00	11.0•		53.430	N	158.064	E	33	N	4.7	1.0	24	NEAR EAST COAST OF KAMCHATKA
	19	12	52	16.6		51.415	N	179.615	E	68	•	4.7	0.8	41	RAT ISLANDS, ALEUTIAN ISLANDS
	19	15	17	38.7•		35.608	N	139.796	E	111	?		1.2	13	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Yokohama; (I JMA) at Tokyo, Mito, Kofu, Utsunomiya and on Oshima.
	19	16	19	52.1&		11.912	N	86.817	W	58				12	NEAR COAST OF NICARAGUA. <HDC>. MD 4.6 (HDC).
	19	16	54	19.9		13.901	N	91.599	W	28		4.4	1.3	47	NEAR COAST OF GUATEMALA
	19	18	08	16.4•		15.117	S	178.904	W	414	•	4.7	1.0	20	FIJI ISLANDS REGION
a	19	18	58	38.4		23.392	S	175.314	W	42	D	5.3 5.4	1.3	76	TONGA ISLANDS REGION
a	19	19	50	19.7		6.929	S	129.486	E	152	D	5.2	1.4	72	BANDA SEA
	19	21	01	45.5&		38.462	N	118.349	W	7				20	CALIFORNIA-NEVADA BORDER REGION. <REN>. MD 3.0 (REN), ML 3.1 (NEIS).
	19	21	20	54.9&		58.186	N	154.220	W	67				11	ALASKA PENINSULA. <AGS-P>.
	19	23	48	19.9&		58.897	N	154.313	W	118				16	ALASKA PENINSULA. <AGS-P>.
	20	00	16	09.6&		38.959	N	118.176	W	0				32	CALIFORNIA-NEVADA BORDER REGION. <REN>. MD 3.5 (REN), ML 3.4 (NEIS).
	20	00	25	52.3		53.233	N	153.936	E	478	?	4.3	0.8	49	SEA OF OKHOTSK
	20	00	28	45.0		63.210	N	149.503	W	33	N		0.3	7	CENTRAL ALASKA. ML 3.0 (PMR).
	20	00	57	49.5?		23.30	S	175.37	W	33	N	4.8	1.4	19	TONGA ISLANDS REGION
	20	02	01	11.5		41.500	N	22.295	E	10	G		0.9	10	YUGOSLAVIA. ML 2.6 (SKO).
	20	03	44	32.2		60.068	N	5.045	E	10	G		0.7	7	SOUTHERN NORWAY. MD 2.0 (BER).
	20	03	47	50.5•		15.946	N	60.574	W	10	G		0.6	8	LEEWARD ISLANDS. ML 2.5 (FDF).
	20	04	02	49.1		4.169	S	132.998	E	33	N	5.1	1.4	49	WEST IRIAN REGION
	20	11	58	15.0		15.963	N	120.180	E	34	•	5.0 4.1	1.2	31	LUZON, PHILIPPINE ISLANDS. Felt (III RF) at Baguio.
	20	12	25	47.4•		50.380	N	6.034	E	10	G		0.2	5	GERMANY
	20	12	56	13.0?		10.26	S	160.89	E	74	?	4.7	1.3	13	SOLOMON ISLANDS
	20	13	29	01.7%		61.421	N	7.769	E	10	G		0.7	6	SOUTHERN NORWAY. MD 2.1 (BER).
	20	14	13	35.6•		18.081	S	63.602	W	66	•	4.8	1.4	13	BOLIVIA
	20	14	41	41.0•		38.526	N	71.612	E	33	N	4.7	0.7	11	AFGHANISTAN-USSR BORDER REGION. Felt (V) at Vanch. (IV)

														at Kalaikhum and (III) at Rushan, Khorog and Nurek, USSR.
o	20	14	44	22.0	31 542	S	179.600	W	188	D	5.4		1.0	135	KERMADEC ISLANDS REGION
	20	16	02	03.5	43 334	N	17.783	E	10	G	4.1		1.5	115	YUGOSLAVIA. ML 4.4 (KBA), 3.6 (ATH). Minor damage (VII) in the Mostar area.
	20	16	20	22.3*	16 284	S	73.002	W	106	*	4.8		1.4	12	NEAR COAST OF PERU
	20	16	26	18.8	7.986	S	122.929	E	218		4.7		1.3	62	FLORES SEA
	20	17	47	54.3*	78.007	N	24.595	E	10	G	4.6		1.2	25	SVALBARD REGION
a	20	17	56	18.0	4 669	N	77.423	W	35		5.6	5.5	1.1	238	NEAR WEST COAST OF COLOMBIA. Felt (VI) at Manizales. Also felt at Bogata, Pereira, Cali and Medellin.
	20	19	13	29.8*	63 429	N	151.291	W	33	N			1.4	7	CENTRAL ALASKA. ML 3.0 (PMR).
	20	19	16	10.0	6.213	S	129.076	E	253	*	5.1		1.2	35	BANDA SEA
	20	19	32	15.1*	44.396	N	7.264	E	10	G			0.6	6	NORTHERN ITALY. ML 2.3 (GEN), 2.1 (LDG).
	20	21	15	21.2&	60.532	N	150.575	W	41					30	KENAI PENINSULA, ALASKA. <AGS-P>. ML 3.3 (PMR)
a	20	21	58	35.7*	12 425	S	14.939	W	10	G	5.1	4.7	1.0	44	SOUTH ATLANTIC RIDGE
	20	22	43	27.7	42 276	N	144.762	E	42		5.3	4.5	0.9	138	HOKKAIDO, JAPAN REGION. Felt (III JMA) at Kushiro and (I JMA) at Urakawa.
	20	22	43	56.5	41 285	N	29.218	W	10	G	4.3		1.1	38	AZORES ISLANDS REGION
	21	00	01	40.8	44.291	N	7.361	E	10	G			0.5	17	NORTHERN ITALY. ML 2.6 (GEN), 2.6 (LDG).
	21	01	23	53.5?	5.56	S	133.66	E	33	N	4.0		1.5	5	AROE ISLANDS REGION
	21	02	27	57.8*	17 510	S	128.133	E	10	G			1.1	6	WESTERN AUSTRALIA
	21	03	15	36.6	45 393	N	6.579	E	10	G			0.4	15	FRANCE. ML 2.3 (LDG).
	21	08	13	38.9%	44 409	N	7.010	E	10	G			0.3	5	NORTHERN ITALY. ML 2.5 (GEN).
	21	09	32	08.4	55 954	N	161.499	E	33	N	4.5		0.7	33	NEAR EAST COAST OF KAMCHATKA
a	21	09	58	53.5	46.187	N	152.205	E	51	G	5.9		0.9	364	KURIL ISLANDS. Depth from broadband displacement seismograms.
a	21	11	04	50.7	22.255	S	170.928	E	82	D	5.4		1.2	101	LOYALTY ISLANDS REGION
	21	11	50	41.4%	60.026	N	5.493	E	0	G			0.6	5	SOUTHERN NORWAY. MD 2.0 (BER). Probable explosion.
	21	12	02	11.2?	39.09	N	27.66	E	10	G			0.1	4	TURKEY
	21	12	49	12.0&	38.830	N	122.825	W	2					16	NORTHERN CALIFORNIA. <BRK>. ML 3.5 (BRK). Mo=7.4*10**14 Nm (BRK). Felt at Cobb.
	21	12	49	53.9?	58.84	N	6.22	E	10	G			1.4	7	SOUTHERN NORWAY. MD 2.2 (BER).
	21	12	56	28.6&	38.830	N	122.807	W	2	G				11	NORTHERN CALIFORNIA. <BRK>. ML 3.0 (BRK). Felt at Cobb.
	21	13	22	58.6	39.005	N	17.157	E	10	G			1.1	12	SOUTHERN ITALY
	21	13	31	23.7?	59.22	N	5.84	E	10	G			1.3	4	SOUTHERN NORWAY. MD 2.2 (BER).
	21	13	48	13.0%	60.703	N	5.588	E	0	G			0.9	6	SOUTHERN NORWAY. MD 2.1 (BER). Probable explosion.
	21	13	51	14.7	28.715	N	85.568	E	54	*	4.7		1.2	34	NEPAL
	21	13	57	44.7	1.484	S	77.956	W	164		4.9		0.8	117	ECUADOR
	21	14	25	09.9%	60.656	N	5.148	E	0	G			1.6	6	SOUTHERN NORWAY. MD 1.9 BER). Probable explosion.
	21	14	36	55.1	44.858	N	7.614	E	10	G			0.6	15	NORTHERN ITALY. ML 2.4 (GEN), 2.4 (LDG).
	21	14	43	41.5*	41.380	N	118.853	W	5	G			1.5	6	NEVADA. MD 2.8 (REN), ML 3.1 (BRK).
	21	15	24	30.5%	46.607	N	0.994	E	10	G			1.3	10	FRANCE. ML 2.5 (LDG).
	21	15	33	48.1&	61.452	N	146.581	W	34					32	SOUTHERN ALASKA. <AGS-P>. ML 3.5 (PMR).
	21	16	17	30.3	44.309	N	6.456	E	10	G			0.4	12	FRANCE. ML 2.4 (GEN), 2.1 (LDG).
	21	16	42	51.9	30.227	N	51.661	E	10	G	4.9	4.5	1.1	167	IRAN
	21	17	04	56.2%	41.175	N	28.455	E	10	G			0.3	5	TURKEY
	21	17	13	10.1	46 629	N	0.496	E	15				0.6	25	FRANCE. ML 3.7 (LDG).
	21	17	58	25.8&	39.308	N	111.165	W	9					7	UTAH. <SLC-P>. CL 3.1 (SLC).
	21	18	29	55.7&	38.459	N	118.343	W	9					6	CALIFORNIA-NEVADA BORDER REGION. <REN>. MD 3.2 (REN).
	21	19	04	36.5%	61.767	N	7.416	E	10	G			1.2	7	SOUTHERN NORWAY. MD 2.3 (BER).
	21	19	09	44.3	71.053	N	6.133	W	10	G	4.1		0.9	9	JAN MAYEN ISLAND REGION
	21	20	48	46.9?	40.50	N	125.28	W	10	G			0.6	6	OFF COAST OF NORTHERN CALIFORNIA. ML 2.9 (BRK).
	21	22	13	37.6	44.437	N	7.079	E	10	G			0.5	9	NORTHERN ITALY. ML 2.2 (GEN), 2.1 (LDG).
	21	22	51	37.7	14.915	N	123.133	E	37	*	4.8	4.0	1.0	26	LUZON, PHILIPPINE ISLANDS
	21	23	18	54.9?	51.26	N	15.96	E	10	G			0.3	4	POLAND. ML 3.2 (VKA).
a	21	23	59	29.9	16.477	S	172.113	W	33	D	5.4	5.3	0.9	186	SAMOA ISLANDS REGION
	22	01	11	26.2*	33.364	S	71.882	W	23				0.4	12	NEAR COAST OF CENTRAL CHILE
	22	02	00	38.1	29.266	N	68.233	E	33	N	4.6	4.2	1.0	51	PAKISTAN
	22	02	50	48.3	44.029	N	10.572	E	10	G			1.3	24	NORTHERN ITALY. MD 2.9 (FIR). ML 2.8 (LDG).
	22	03	18	11.3*	13 675	N	124.850	E	33	N	4.8		0.5	9	LUZON, PHILIPPINE ISLANDS
	22	03	29	17.6%	44.714	N	7.430	E	10	G			0.1	5	NORTHERN ITALY. ML 2.0 (GEN).
	22	05	47	40.8	32.695	S	71.555	W	56		4.7		1.1	32	NEAR COAST OF CENTRAL CHILE. Felt (IV) in the Santiago area.
	22	06	11	04.8*	40.730	N	29.627	E	10	G			1.5	12	TURKEY
	22	06	34	20.6?	36.74	N	6.19	E	10	G			0.3	5	ALGERIA. MG 3.0 (ALG).
	22	07	24	57.6	26.531	N	44.586	W	10	G	4.9	4.9	0.9	66	NORTH ATLANTIC RIDGE
a	22	07	32	49.1	26 505	N	44.623	W	10	G	4.9	5.1	0.9	71	NORTH ATLANTIC RIDGE
a	22	07	52	00.7	26.536	N	44.742	W	10	G	5.3	5.2	1.0	130	NORTH ATLANTIC RIDGE
	22	08	04	34.9*	26.650	N	44.465	W	10	G	4.9		0.6	9	NORTH ATLANTIC RIDGE
	22	09	43	59.6*	43 862	N	145.380	E	33	N	4.3		0.6	5	HOKKAIDO, JAPAN REGION. Felt (I JMA) at Nemuro.
	22	09	53	21.8%	42.964	N	19.120	E	10	G			0.5	7	YUGOSLAVIA. MD 2.5 (TTG).
	22	10	47	56.4	23.171	S	175.699	W	107	?	4.4		0.7	23	TONGA ISLANDS REGION
	22	10	52	55.0&	38.462	N	118.341	W	12					7	CALIFORNIA-NEVADA BORDER REGION. <REN>. MD 3.0 (REN).
	22	12	05	40.9	38.022	N	21.089	E	28		5.0	4.2	1.3	245	GREECE. ML 4.6 (ATH). Felt in the Patrai-Agrinion-Tripolis area and on Zakinthas.
	22	13	28	51.1	44.973	N	6.613	E	10	G			0.1	7	FRANCE
	22	13	44	56.2%	16 848	N	94.990	W	33	N			0.9	5	OAXACA, MEXICO
	22	14	29	58.6*	18.004	S	167.819	E	10	G	4.6	3.9	1.2	7	VANUATU ISLANDS
	22	16	13	17.6?	37.06	N	19.94	E	10	G			0.8	6	IONIAN SEA. ML 3.5 (ATH).
	22	19	05	13.6?	32.52	S	71.83	W	19				0.3	11	NEAR COAST OF CENTRAL CHILE
	22	19	28	04.6?	51.48	N	16.16	E	10	G			1.0	5	POLAND. ML 2.8 (GRF), 3.5 (VKA).
	22	20	32	05.6?	2.36	N	128.14	E	33	N	4.1		1.1	7	HALMAHERA
	22	21	41	38.9?	44.05	N	10.80	E	10	G			1.2	4	NORTHERN ITALY
	22	22	12	02.6?	44.05	N	10.78	E	10	G			1.2	4	NORTHERN ITALY
a	22	22	28	44.5	23.813	N	167.197	W	20	D	5.5	4.6	0.9	87	HAWAII REGION. Felt on Tern Island. Believed to be the first instrumentally located hypocenter in this area.
	22	23	33	17.5&	36.525	N	120.672	W	11					16	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK).
	22	23	44	30.3*	31.442	N	7.672	W	10	G			1.1	10	MOROCCO. MG 3.7 (IFR).
	23	00	32	53.7?	41.63	N	12.60	E	10	G			0.6	6	SOUTHERN ITALY
	23	01	02	58.0*	27.370	N	57.261	E	41	*	4.6		1.1	24	SOUTHERN IRAN
	23	01	20	09.2%	38.290	N	1.141	W	10	G			1.1	5	SPAIN. MG 2.5 (MDD).
	23	01	45	52.9*	40.250	N	28.426	E	10	G			1.4	11	TURKEY
	23	02	13	46.7%	32.591	S	70.917	W	33	N			0.8	10	CHILE-ARGENTINA BORDER REGION

a	23	03	39	36.3	4.886	S	101 953	E	71	D	5.1	1.0	84	SOUTHERN SUMATERA
	23	04	23	40.2*	32 595	N	79 785	E	33	N	4.6 4.7	1.3	13	KASHMIR-TIBET BORDER REGION
	23	04	37	53.7*	22.010	S	68 110	W	139	*	4.7	1.2	13	NORTHERN CHILE
	23	04	41	35.5	38.048	N	20 853	E	24		4.0	1.1	29	GREECE. ML 3.8 (ATH).
a	23	04	46	40.6	39.570	N	74 506	E	33	N	5.3 4.8	1.0	182	SOUTHERN XINJIANG, CHINA. Felt (III) at Andizhan, USSR.
	23	05	29	34.7	42.555	N	18 635	E	10	G		0.5	8	YUGOSLAVIA. MD 2.7 (TTG).
	23	05	38	37.2?	15.84	S	167.49	E	150	?	4.6	1.2	13	VANUATU ISLANDS
	23	05	46	37.8	65.206	N	16.987	W	10	G	4.4	1.0	13	ICELAND
	23	05	51	05.4	41.806	N	20.109	E	10	G		0.4	9	ALBANIA. ML 2.8 (TTG).
	23	06	11	03 0*	37.936	N	20.945	E	10	G		0.9	7	IONIAN SEA. ML 3.7 (ATH).
	23	07	27	12 1?	61.88	N	7.45	E	10	G		1.1	5	SOUTHERN NORWAY MD 2.2 (BER).
	23	07	28	38.0*	3.202	S	143.391	E	24	D	4.6	1.3	13	NEAR N COAST OF PAPUA NEW GUINEA
	23	07	46	20.8	11.419	N	124.220	E	43	*	5.0 4.5	1.2	33	LEYTE, PHILIPPINE ISLANDS
	23	08	13	50.8	12.068	N	86.630	W	128		4.6	0.9	82	NICARAGUA
	23	08	24	15.7	38.115	N	21.015	E	10	G	4.1	1.1	21	GREECE. ML 3.7 (ATH).
	23	08	32	00 7?	6.86	S	122 43	E	269	?	4.9	1.5	9	FLORES SEA
	23	09	58	18.8*	37.831	N	20.762	E	40	?	4.0	1.4	7	IONIAN SEA. ML 3.8 (ATH).
	23	11	25	21.5?	18.15	N	105.45	W	33	N	4.6	1.2	17	OFF COAST OF JALISCO, MEXICO
	23	12	10	38 0&	59.887	N	153.463	W	131				26	SOUTHERN ALASKA. <AGS-P>.
	23	12	26	27.1?	18.35	N	102.65	W	33	N	3.8	1.3	7	MICHOACAN, MEXICO
	23	14	07	42.2*	44.133	N	19.703	E	10	G		1.4	6	YUGOSLAVIA. ML 2.4 (TTG).
	23	15	48	55.6&	38.957	N	118.171	W	0				6	CALIFORNIA-NEVADA BORDER REGION. <REN>. MD 3.5 (REN).
	23	18	04	33.4	24.171	N	122.299	E	46	*	4.2	1.2	20	TAIWAN REGION
	23	22	28	25.9*	41.695	N	24 458	E	10	G		0.2	5	GREECE-BULGARIA BORDER REGION
	24	01	40	56.9&	40.725	N	112.002	W	9				4	UTAH. <SLC-P>. ML 2.4 (SLC). Felt at Magna and West Valley City.
	24	02	16	08.1%	36.471	N	2.986	W	10	G		1.5	8	STRAIT OF GIBRALTAR. MG 2.8 (MDD).
	24	03	22	25.5*	2.301	N	101.465	W	10	G	4.8 4.6	0.9	34	EAST CENTRAL PACIFIC OCEAN
	24	03	34	49.9*	13.887	N	93.228	W	33	N	4.2	1.0	16	OFF COAST OF CHIAPAS, MEXICO
	24	04	57	00.2*	32.486	S	71.515	W	10	G		0.5	12	NEAR COAST OF CENTRAL CHILE
	24	06	02	14.0	42.728	N	13.025	E	10	G		1.0	8	CENTRAL ITALY. MD 2.5 (SSO).
	24	06	08	31.3?	19.20	N	146.10	E	116	?	4.6	1.0	11	MARIANA ISLANDS REGION
	24	06	14	26.1*	43.437	N	12.971	E	10	G		0.3	5	CENTRAL ITALY
	24	06	41	14.6*	13.922	N	91.407	W	33	N	4.6	1.0	31	NEAR COAST OF GUATEMALA
	24	07	33	45.0&	34.440	N	120.790	W	24				15	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
	24	07	51	11.6?	18.52	N	67.42	W	33	N		0.5	5	MONA PASSAGE
	24	08	10	45.5	51.868	N	167.970	W	33	N	5.2	1.0	147	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.9 (PMR).
	24	08	26	15.1	42.474	N	18.492	E	10	G		1.3	25	YUGOSLAVIA. MD 3.4 (TTG). Felt at Herceg Novi.
	24	09	26	49.9*	52.430	N	173.155	E	33	N	4.4	1.0	16	NEAR ISLANDS, ALEUTIAN ISLANDS
	24	09	43	14.5%	37.757	N	25.374	W	10	G		0.4	6	AZORES ISLANDS
	24	09	47	40.8*	38.704	N	23.374	E	10	G		0.9	5	GREECE. ML 3.1 (ATH).
	24	10	16	25.5?	41.27	N	24.04	E	10	G		1.2	4	GREECE-BULGARIA BORDER REGION
	24	10	36	58.5*	20.824	S	69.557	W	106	*	4.4	1.3	18	NORTHERN CHILE
a	24	11	29	00.4	6.622	S	147.396	E	31	*	5.3 4.9	1.4	63	EAST PAPUA NEW GUINEA REGION
	24	11	44	21.3?	37.44	N	31.39	E	106	?		1.0	7	TURKEY
	24	14	32	27.5*	32.657	S	71.110	W	33	N		0.3	10	NEAR COAST OF CENTRAL CHILE
	24	15	47	55.9?	17.90	N	67.02	W	33	N		0.2	6	MONA PASSAGE
	24	16	04	51 4?	37.46	N	20.41	E	10	G		0.7	6	IONIAN SEA. ML 3.7 (ATH).
	24	20	36	17.6?	18.67	N	67.15	W	33	N		0.1	5	MONA PASSAGE
	24	20	49	24.3*	41.108	N	22.095	E	10	G		0.7	5	YUGOSLAVIA. ML 1.8 (SKO).
	24	22	04	28.6*	11.966	N	60.268	W	33	N		0.8	11	WINDWARD ISLANDS. ML 4.2 (FDF).
	24	22	06	27.9	11.975	N	60.383	W	20	*		1.4	13	WINDWARD ISLANDS. ML 4.3 (FDF).
	25	00	09	52.9	41.582	N	14.623	E	10	G		1.4	13	SOUTHERN ITALY
	25	00	21	07.2*	11.935	N	60.196	W	33	N		1.1	11	WINDWARD ISLANDS. ML 4.2 (FDF).
	25	00	34	31.7	40.815	N	15.356	E	12			1.1	8	SOUTHERN ITALY
	25	01	04	22.3	42.890	S	85.837	W	10	G	5.4	1.0	74	WEST CHILE RISE
	25	03	05	09.8*	13.239	N	89.527	W	33	N	4.5	1.0	16	EL SALVADOR
	25	03	47	30.5	37.929	N	20.903	E	13			0.9	17	IONIAN SEA. ML 3.6 (ATH).
	25	04	13	11.3*	39.036	N	16.641	E	32	*		0.6	8	SOUTHERN ITALY
	25	05	37	59.7*	42.995	N	17.770	E	10	G		0.8	5	ADRIATIC SEA. ML 2.7 (TTG).
	25	07	01	14.1	7.455	S	109.418	E	151		5.3	1.1	82	JAVA
	25	08	56	45.0	27.955	S	66.539	W	161		4.6	1.1	46	CATAMARCA PROVINCE, ARGENTINA
	25	09	21	19.9&	38.800	N	122.767	W	3				15	NORTHERN CALIFORNIA. <BRK>. ML 3.6 (BRK). Mo=3.6*10**14 Nm (BRK).
	25	09	34	23.4%	10.653	N	60.766	W	33	N		0.7	7	TRINIDAD
	25	10	25	50.6	44.032	N	10.637	E	10	G		1.3	21	NORTHERN ITALY. MD 2.9 (FIR). ML 2.8 (LDG).
	25	11	18	17.4?	33.49	S	73.14	W	25			0.5	11	OFF COAST OF CENTRAL CHILE
	25	14	50	04.2	44.738	N	6.875	E	10	G		0.4	16	FRANCE. ML 2.5 (LDG).
	25	17	30	22.4*	34.853	N	22.775	E	10	G	4.3	0.9	8	MEDITERRANEAN SEA
	25	17	42	51.4*	45.623	N	26.294	E	10	G		0.6	5	ROMANIA
	25	18	34	37.8?	4.89	S	131.29	E	33	N	3.8	1.1	6	BANDA SEA
	25	19	01	41.5?	21.61	S	178.63	W	554	?	4.4	0.9	10	FIJI ISLANDS REGION
	25	19	33	36.9*	28.341	N	53.068	E	85	?	3.9	1.2	6	SOUTHERN IRAN
	25	19	41	10.1	36.265	N	70.640	E	146	*	4.9	1.1	66	HINDU KUSH REGION. Felt (IV) at Ishkashim and (III) at Kharag, USSR.
	25	19	46	13.3*	40.569	N	27.589	E	10	G		1.2	5	TURKEY
	25	20	02	20.3	42.890	S	85.800	W	10	G	5.3	0.9	58	WEST CHILE RISE
	25	20	05	32 2	30.633	N	137.771	E	483	*	4.4	1.0	37	SOUTH OF HONSHU, JAPAN
a	25	20	52	14.7	37.180	N	71.811	E	11	D	5.5 5.0	1.1	249	AFGHANISTAN-USSR BORDER REGION. Several hundred houses, some schools, hospitals and other facilities were damaged (VI) in the Rashtkala-Kharag area, USSR. Felt (IV) at Ishkashim and Baldzhuan; (III) at Dushanbe, Ragun, Charsady, Kamarau and Dzherina, USSR.
a	25	21	28	04.8	36.425	N	70.703	E	212	D	5.6	1.0	382	HINDU KUSH REGION. Felt (V) at Ishkashim; (IV) at Kharag, Kulyab, Peshtava, Chuyangaran, Dushanbe; (III) at Gissar and Komarau; (II) at Dzherina, Dzhirgatal and Tashkent, USSR.
	25	22	23	51 8*	21.016	S	67.503	W	163	*	4.7	0.8	10	CHILE-BOLIVIA BORDER REGION
	25	22	40	57.5?	38.29	N	1.07	W	10	G		0.2	4	SPAIN. MG 2.4 (MDD).
	25	23	31	25.6?	33.07	S	70.42	W	88	?		0.4	10	CHILE-ARGENTINA BORDER REGION
	26	00	28	09.9&	48.521	N	122.531	W	16				48	WASHINGTON. <SEA>. CL 3.1 (SEA).
	26	01	29	27.4	23.926	N	126.624	E	16	D	5.4 5.1	0.9	175	RYUKYU ISLANDS REGION. Felt (I JMA) on Miyako-jima.
	26	01	45	33.2*	44.441	N	114.266	W	5	G		0.7	9	WESTERN IDAHO. ML 3.3 (BUT).

	26	02	18	44.5&	59.726	N	152.986	W	107				19	SOUTHERN ALASKA. <AGS-P>.
	26	02	23	31 8	23 176	S	179 562	W	509		4.8	0.6	42	SOUTH OF FIJI ISLANDS
	26	03	04	25.9*	44 428	N	7.283	E	10	G		0.4	7	NORTHERN ITALY. ML 2 3 (GEN), 2.3 (LDG).
	26	03	54	01 0	10.904	N	65.525	W	19		4.7 4.2	1.1	46	NEAR COAST OF VENEZUELA. Felt at Caracas, Cumana, Puerto lo Cruz and on Isla Margarita
	26	04	58	09.0	14.011	N	144.523	E	144		4.9	0.9	42	MARIANA ISLANDS. Felt (III) on Guam
	26	05	12	46 4*	16.660	S	167.180	E	26	*	4.8 4.1	1.0	26	VANUATU ISLANDS
	26	05	54	57.8*	32.662	S	71.645	W	10			0.5	12	NEAR COAST OF CENTRAL CHILE
a	26	07	17	00.2	36.294	N	71.374	E	107	D	5.6	1.1	257	AFGHANISTAN-USSR BORDER REGION. Felt (V) at Ishkashim and (III) at Khorag and Kulyab, USSR.
	26	07	24	55.7*	33.171	S	70.489	W	88	?		0.3	11	CHILE-ARGENTINA BORDER REGION
	26	07	51	37 8%	23.135	N	120.930	E	10	G		0.8	5	TAIWAN
a	26	08	23	19 8	35.532	N	141.070	E	29	G	5.9 5.5	1.1	388	NEAR EAST COAST OF HONSHU, JAPAN. Ms 5.1 (BRK) Felt (IV JMA) at Choshi; (III JMA) at Mito; (II JMA) ot Tateyama, Yokahama and on Oshima; (I JMA) ot kofu, Maebashi, Takada, Mishima and Utsunomiyo Depth from braadband displacement seismagrams.
	26	09	16	08.6?	5.95	N	125.82	E	33	N	4.8	1.2	11	MINDANAO, PHILIPPINE ISLANDS
	26	09	30	29.7?	5.71	S	127.86	E	417	?	4.1	0.8	9	BANDA SEA
	26	09	45	24.0%	47.251	N	1.719	E	24	*		1.3	13	FRANCE. ML 2.7 (LDG).
	26	10	20	20.8%	16.097	N	60.944	W	33	N		0.8	8	LEEWARD ISLANDS. ML 3.0 (FDF).
	26	12	15	26.3	62.999	N	148.542	W	104	?		0.6	11	CENTRAL ALASKA
a	26	13	31	08.2	0.300	S	125.118	E	57	D	5.5	1.2	121	MOLUCCA SEA
a	26	14	03	57.1	10.138	N	126.066	E	77		5.5	1.1	135	PHILIPPINE ISLANDS REGION
	26	18	04	40.8*	32.736	N	80.050	E	33	N	4.4	1.5	8	TIBET
	26	18	31	28.7*	26.524	S	177.445	W	33	N	4.8 4.6	1.2	25	SOUTH OF FIJI ISLANDS
	26	20	12	04.3	17.405	N	100.945	W	50	*	5.0	1.2	62	GUERRERO, MEXICO. Felt at Mexico City.
	26	21	04	17.1*	17.179	N	101.265	W	33	N		1.5	9	NEAR COAST OF GUERRERO, MEXICO
a	26	21	07	19.7	26.526	S	177.479	W	33	N	5.4 5.4	1.0	46	SOUTH OF FIJI ISLANDS
	26	21	52	31.7*	34.930	N	139.158	E	10	G		0.1	5	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajira and an Oshima.
	27	03	01	52.5?	43.94	N	7.59	E	10	G		0.1	4	NEAR SOUTH COAST OF FRANCE. MD 1.0 (STR).
	27	05	19	20.5&	34.580	N	116.580	W	2				10	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
	27	05	50	29.5?	40.30	N	124.09	W	5	G		0.6	6	NEAR COAST OF NORTHERN CALIF. ML 2.5 (BRK).
	27	06	34	37.0	15.025	N	61.179	W	14			0.3	10	LEEWARD ISLANDS. ML 2.4 (FDF).
	27	08	14	21.7%	38.307	N	1.167	W	10	G		1.2	5	SPAIN. MG 2.6 (MDD).
	27	11	11	55.6	47.923	N	7.581	E	10	G		0.5	7	SWITZERLAND. ML 2.5 (LDG).
	27	11	19	22.0*	35.975	N	27.106	E	23	*	4.0	1.5	20	DODECANESE ISLANDS
	27	13	04	52.3?	38.64	N	21.41	E	10	G		1.5	4	GREECE. MD 3.2 (ATH).
	27	13	22	59.1	52.096	N	115.099	W	5	G		0.8	10	ALBERTA PROVINCE, CANADA. ML 3.9 (PGC).
	27	14	31	41.9	30.038	N	51.693	E	10	G	4.5	1.1	29	IRAN. Felt in the Mamasani area.
	27	14	40	23.9	27.879	S	66.651	W	171	?	4.9	1.1	19	CATAMARCA PROVINCE, ARGENTINA
	27	16	11	32.1*	46.804	N	73.592	E	5	G	4.3	1.1	11	CENTRAL KAZAKH SSR
	27	16	23	04.5%	60.564	N	5.269	E	0	G		0.9	7	SOUTHERN NORWAY. MD 2.1 (BER). Probable explosion.
	27	19	04	53.3?	31.30	S	68.81	W	10	G		1.2	9	SAN JUAN PROVINCE, ARGENTINA
	27	19	10	10.7	27.175	N	88.293	E	33	N	5.0 5.0	1.1	97	SIKKIM. Felt in eastern Nepal.
	27	20	36	23.3&	59.823	N	152.915	W	95				15	SOUTHERN ALASKA. <AGS-P>.
	27	21	29	27.6?	39.58	N	2.70	W	10	G		0.7	4	SPAIN
	27	22	55	38.8&	61.860	N	148.153	W	38				29	SOUTHERN ALASKA. <AGS-P>. ML 3.7 (PMR). Felt (III) at Palmer.
	28	00	22	19.6*	36.745	N	59.113	E	33	N	4.4	0.7	25	IRAN-USSR BORDER REGION. Felt at Mashhad and Neyshabur, Iran.
	28	02	50	35.6*	28.875	S	61.793	E	10	G	5.0 4.5	1.2	18	ATLANTIC-INDIAN RISE
	28	03	16	33.9?	17.73	S	176.85	W	33	N	4.9 5.1	1.0	13	FIJI ISLANDS REGION
	28	03	47	24.0*	19.571	N	109.102	W	10	G	4.1 4.4	1.3	21	REVILLA GIGEDO ISLANDS REGION
	28	04	49	11.3*	20.645	S	178.951	W	631	*	4.8	1.0	65	FIJI ISLANDS REGION
	28	04	54	35.4&	40.452	N	125.773	W	5	G			9	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.6 (BRK).
	28	05	13	27.3*	41.956	N	139.101	E	26	?	4.7	1.5	15	HOKKAIDO, JAPAN REGION. Felt (I JMA) at Hakadate. Also felt (I JMA) at Aamori, Hanshu.
	28	06	06	38.4?	8.08	S	161.43	E	33	N	4.1	0.9	8	SOLOMON ISLANDS
	28	06	20	22.3	42.756	N	19.510	E	10	G		0.7	6	YUGOSLAVIA. ML 2.4 (TTG).
	28	06	26	47.3	41.912	N	23.014	E	10	G		1.1	12	GREECE-BULGARIA BORDER REGION. ML 2.9 (SKO).
	28	06	34	53.3*	41.975	N	22.824	E	10	G		1.3	7	YUGOSLAVIA. ML 2.7 (SKO).
	28	08	15	18.1	44.840	N	6.772	E	10	G		0.5	10	FRANCE. ML 2.5 (LDG).
	28	09	16	43.3	68.192	N	10.637	E	10	G		1.2	11	NORWEGIAN SEA. MD 3.4 (BER).
	28	13	43	37.3?	49.60	N	16.80	E	10	G		0.7	4	CZECHOSLOVAKIA. ML 3.2 (VKA), 2.6 (KBA).
	28	14	05	16.2%	60.319	N	5.208	E	0	G		0.8	5	SOUTHERN NORWAY. MD 1.8 (BER). Probable explosion.
	28	15	13	54.6?	33.07	S	179.01	W	107	?	4.8	1.0	6	SOUTH OF KERMADEC ISLANDS
	28	15	17	07.3%	60.307	N	5.396	E	0	G		0.4	5	SOUTHERN NORWAY. MD 1.9 (BER). Probable explosion.
	28	15	29	46.7%	11.141	N	62.167	W	33	N		1.0	8	WINDWARD ISLANDS
	28	16	18	14.9?	3.70	N	31.61	W	10	G	4.9	0.9	5	CENTRAL MID-ATLANTIC RIDGE
	28	16	53	18.8&	61.517	N	149.856	W	36				32	SOUTHERN ALASKA. <AGS-P>. ML 3.4 (PMR). Felt (III) at Anchorage.
	28	18	48	34.0&	34.465	N	96.847	W	5	G			4	OKLAHOMA. <TUL>. mbLg 1.9 (TUL).
	28	21	24	31.1&	59.886	N	153.314	W	119				15	SOUTHERN ALASKA. <AGS-P>.
	28	22	17	17.5?	7.48	S	132.27	E	33	N	4.4	1.2	7	TANIMBAR ISLANDS REGION
	29	00	27	55.8&	60.270	N	152.803	W	120				18	SOUTHERN ALASKA. <AGS-P>.
	29	01	58	36.7*	33.209	S	71.837	W	57	*		1.2	13	NEAR COAST OF CENTRAL CHILE. Felt (II) in the Santiago area.
	29	02	04	38.6?	33.03	S	72.51	W	33	N		0.6	11	OFF COAST OF CENTRAL CHILE. Felt (II) in the Santiago area.
	29	02	07	58.5?	33.19	S	72.15	W	33	N		0.6	7	OFF COAST OF CENTRAL CHILE
	29	02	38	47.2?	42.33	N	15.77	E	10	G		0.7	4	ADRIATIC SEA
	29	02	46	49.5*	33.244	S	71.811	W	62	*	4.5	1.4	23	NEAR COAST OF CENTRAL CHILE. Felt (II) in the Santiago area.
	29	03	12	41.8?	46.64	N	153.80	E	33	N	4.5	1.5	10	KURIL ISLANDS
	29	03	32	51.5*	33.234	S	71.846	W	57	*	4.5	1.3	20	NEAR COAST OF CENTRAL CHILE
	29	03	36	31.7?	12.17	S	123.75	E	33	N	4.3	1.5	6	SOUTH OF TIMOR
	29	03	45	07.2?	9.48	S	119.08	E	33	N	4.0	0.9	5	SUMBA ISLAND REGION
	29	03	46	09.3&	61.694	N	149.898	W	54				32	SOUTHERN ALASKA. <AGS-P>. Felt (III) at Palmer.
	29	05	42	09.5?	23.21	S	179.69	W	576	?	5.0	1.2	13	SOUTH OF FIJI ISLANDS
	29	06	13	31.3?	20.05	N	110.33	W	10	G	4.2 3.8	1.4	20	REVILLA GIGEDO ISLANDS REGION
	29	07	00	03.1*	41.750	N	88.474	E	33	N	4.7	1.6	18	SOUTHERN XINJIANG, CHINA

	29	07 07 46 0	44.435	N	10 905	E	10	G			1 1	41	NORTHERN ITALY MD 3 4 (FIR) ML 3.2 (LDG)
	29	07 52 07.0?	18.85	N	66 85	W	33	N			0 3	5	PUERTO RICO REGION
	29	08 09 19.5&	45.850	N	120.260	W	14					68	WASHINGTON-OREGON BORDER REGION. <SEA> CL 3.5 (SEA).
	29	08 23 33.6	35.925	N	139 272	E	10	G	4.8	3.9	1.3	80	NEAR S. COAST OF HONSHU, JAPAN. Felt (IV JMA) at Chichibu; (III JMA) at Maebashi, Kumagaya, Tokyo and Yokohama; (II JMA) at Utsunomiyo, Nikko, Kofu and Koruizawa; (I JMA) at Toteyama, Ajiro and on Oshima.
	29	09 50 59.2%	37.942	N	26.827	W	10	G			0.7	7	AZORES ISLANDS
	29	10 21 41.0&	60.188	N	153.076	W	116					19	SOUTHERN ALASKA. <AGS-P>.
	29	12 00 03.3?	45.90	N	9.08	E	10	G			1.4	4	NORTHERN ITALY
	29	13 00 23.3*	38.946	N	26 531	E	10	G			1.4	12	AEGEAN SEA. ML 3.9 (ATH).
	29	13 45 42.6?	6.27	S	133.95	E	33	N	4.1		1.0	6	AROE ISLANDS REGION
	29	14 20 32.7?	40.57	N	22.81	E	10	G			1.0	4	GREECE
	29	15 05 00.6&	41.613	N	121.557	W	2					11	NORTHERN CALIFORNIA. <BRK>. ML 3 4 (BRK)
	29	15 13 41.7	45.038	N	6.649	E	9				0.8	39	FRANCE. ML 3.1 (LDG). MD 2.7 (STR)
	29	15 18 50 7?	12.60	S	117.39	E	33	N	3.2		1.3	10	SOUTH OF SUMBAWA ISLAND
	29	15 36 16.6*	38.707	N	26.896	E	10	G			1.1	10	AEGEAN SEA. MD 3.8 (ATH).
	29	16 20 14.7	45.041	N	6.691	E	10	G			1.1	8	FRANCE. ML 2.5 (GEN), 2.3 (LDG).
	29	16 37 42.6	44.586	N	114.180	W	5	G			0.7	12	WESTERN IDAHO. ML 3.3 (BUT).
	29	17 09 36.9%	60.722	N	5.277	E	0	G			0.8	5	SOUTHERN NORWAY. MD 2.3 (BER). Probable explosion.
	29	17 23 44.9	40.410	N	19.202	E	10	G	3.7		1.3	40	ALBANIA. MD 4.1 (ATH), 3.5 (TTG).
	29	17 38 53.5	35 939	N	139.246	E	38		4.6	3.8	1.5	28	NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) at Kumagaya; (II JMA) at Tokyo, Kofu, Yokohama and Utsunomiya; (I JMA) at Maebashi, Mito, Kawaguchi-ko and on Oshima.
	29	17 39 00.0*	44.367	N	7.310	E	10	G			0.9	5	NORTHERN ITALY. ML 2 0 (GEN).
	29	17 41 59.7	40.438	N	19.216	E	29		3.7		1.0	34	ALBANIA. MD 3.4 (TTG), 3.7 (ATH).
	29	22 21 14.7*	37.463	N	120.048	W	5	G			0.6	5	CENTRAL CALIFORNIA. ML 2.5 (NEIS).
	29	23 26 46.8	44.419	N	7.049	E	10	G			0.4	25	NORTHERN ITALY. ML 3.0 (GEN), 3.0 (LDG).
	29	23 28 41.9?	37.44	N	21.22	E	10	G			1.5	6	SOUTHERN GREECE. ML 3.3 (ATH).
	29	23 34 47.6?	2.61	N	90.40	E	33	N	4.4		1.6	8	OFF W COAST OF NORTHERN SUMATERA
	29	23 36 09.2&	59.458	N	146.429	W	10	G				23	GULF OF ALASKA. <AGS-P>.
	30	00 03 55.8&	41.637	N	121.513	W	1					35	NORTHERN CALIFORNIA. <BRK>. ML 3.4 (BRK).
	30	00 30 13.7&	41.637	N	121.543	W	2	G	4.4	3.8		92	NORTHERN CALIFORNIA. <BRK>. ML 4.1 (BRK). Felt (IV) at Tulelake.
	30	00 30 33.2&	19.332	N	155.108	W	10					48	HAWAII. <HVO-P>. ML 4.2 (HVO). Felt.
	30	00 34 05.1*	5.538	N	61.449	E	10	G	4.7		1.2	30	CARLSBERG RIDGE
	30	00 34 26.8*	5.812	N	61.418	E	10	G	5.3	4.8	1.1	41	CARLSBERG RIDGE
	30	00 40 03.4&	41.613	N	121.542	W	2	G				32	NORTHERN CALIFORNIA. <BRK>. ML 3.6 (BRK).
	30	00 48 11.4*	37.012	N	13.788	W	10	G			0.7	29	NORTH ATLANTIC OCEAN
	30	00 48 29.3?	5.52	N	61.34	E	10	G	4.9		1.5	9	CARLSBERG RIDGE
	30	01 10 33.4*	34.539	N	26.164	E	33	N	4.0		1.2	16	CRETE
a	30	03 00 36.8	1.295	S	14.472	W	10	G	4.9	4.7	1.0	68	NORTH OF ASCENSION ISLAND
	30	03 15 51.1	4.673	N	126.856	E	105	*	5.0		1.3	57	TALAUD ISLANDS
a	30	03 23 47.2	19.560	S	68.921	W	112	D	5.3		1.2	162	CHILE-BOLIVIA BORDER REGION. Felt (V) in the Arica-Cuya area and (IV) in the Iquique area, Chile.
	30	03 48 31.3	31.864	S	71.290	W	82	*	4.4		1.3	36	NEAR COAST OF CENTRAL CHILE
	30	04 50 03.8&	61.124	N	151.491	W	86		4.7			120	SOUTHERN ALASKA. <AGS-P>. Felt (V) at Kenai; (IV) at Anchorage, Palmer, Soldotna, Willow and Caswell Lakes; (III) at Kasilof, Skwentna, Sterling, Talkeetna and Trapper Creek.
	30	05 09 34.3*	31.330	S	68.757	W	124	*	4.4		0.9	17	SAN JUAN PROVINCE, ARGENTINA
a	30	05 45 56.6	4.863	S	144.692	E	95	D	5.5		1.1	116	NEAR N COAST OF PAPUA NEW GUINEA
	30	07 58 14.3&	33.040	N	117.860	W	6	G				36	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.7 (PAS).
a	30	08 27 53.5	7.406	S	128.371	E	146	D	5.5		1.0	166	BANDA SEA
	30	09 30 14.2	42.859	S	85.910	W	10	G	5.1		1.0	38	WEST CHILE RISE
	30	10 08 09.4&	32.980	N	117.860	W	6	G				10	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.1 (PAS).
	30	10 40 51.0	7.110	S	155.567	E	75		4.8		1.2	31	SOLOMON ISLANDS
	30	11 03 57.1	37.673	N	21.322	E	39	*	4.4		1.5	36	SOUTHERN GREECE. MD 3.8 (ATH).
	30	11 45 51.5?	43.96	N	128.07	W	10	G			0.3	39	OFF COAST OF OREGON
	30	13 02 58.9	37.788	N	21.254	E	43	*	4.6		1.3	66	SOUTHERN GREECE
	30	14 01 57.9	44.556	N	7.426	E	10	G			0.2	6	NORTHERN ITALY. ML 2.4 (GEN).
	30	14 38 26.1?	51.34	N	20.12	E	10	G			0.5	6	POLAND. ML 2.9 (KRA)
	30	14 58 56.3?	6.19	S	147.56	E	111	*	4.5		1.1	8	EAST PAPUA NEW GUINEA REGION
	30	15 04 52.9%	42.263	N	13.393	E	12				0.8	8	CENTRAL ITALY. MD 2.4 (SSO).
	30	15 25 48.0*	42.262	N	13.420	E	12	*			1.0	6	CENTRAL ITALY
	30	16 26 58.0	43.724	N	8.529	E	10	G			0.8	10	CORSICA. ML 2.9 (GEN), 2.7 (LDG).
	30	17 51 11.2?	28.84	S	68.54	W	33	N			1.4	8	LA RIOJA PROVINCE, ARGENTINA
a	30	18 29 58.4	4.899	S	144.662	E	95		5.1		1.2	74	NEAR N COAST OF PAPUA NEW GUINEA
	30	18 41 36.8*	23.649	S	71.297	W	33	N			1.2	8	OFF COAST OF NORTHERN CHILE. Felt (II) at Antofagosta.
	30	18 41 49.9&	60.343	N	152.141	W	71					34	SOUTHERN ALASKA <AGS-P>.
	30	20 31 26.0?	33.05	S	72.46	W	16				0.5	10	OFF COAST OF CENTRAL CHILE
	30	20 42 58.1	20.048	S	133.865	E	5	G	5.3		1.4	64	NORTHERN TERRITORY, AUSTRALIA. Felt at Tennant Creek.
	30	21 16 16.2	20.092	S	133.806	E	5	G			1.5	13	NORTHERN TERRITORY, AUSTRALIA
	30	21 19 16.9?	5.62	S	147.48	E	166	*			0.7	6	EAST PAPUA NEW GUINEA REGION
a	30	21 45 01.2	19.374	S	177.492	W	552	D	5.8		0.9	277	FIJI ISLANDS REGION
	30	23 14 11.5	38.757	N	99.693	E	33	N	4.2		1.4	14	QINGHAI PROVINCE, CHINA
	30	23 38 15.8	19.778	S	133.925	E	5	G			1.1	9	NORTHERN TERRITORY, AUSTRALIA

ADDITIONAL SOURCE PARAMETERS

02 10 27 48 59 53.963N 161.541E 49km
5 1mb (50 obs) 4.9Msz (10 obs.)
OFF EAST COAST OF KAMCHATKA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.. 11S, 28C
Centroid Location.
Origin Time 10:27 51.7 0 5
Lat 53 60N 0.05 Lon 161.80E 0 07
Dep 42.0 3 2 Half-duration 1 8
Principal Axes
Scale 10**17 Nm

T	Val= 1 03	Plg=69	Azm=167
N	0.21	18	18
P	-1.24	10	285

Best Double Couple:Mo=1 1*10**17
NP1.Strike=354 Dip=3B Slip= 60
NP2: 210 57 111

02 22 32 44.58 3.429S 138.470E 76km
5.3mb (17 obs.)
WEST IRIAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 32C
Centroid Location:
Origin Time 22:32:49.5 1.1
Lat 3.23S 0.07 Lon 138.41E 0.08
Dep 80.1 4.9 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm

T	Val= 7.59	Plg= 1	Azm= 91
N	-0.74	8	181
P	-6.86	82	357

Best Double Couple:Mo=7.2*10**16
NP1:Strike=173 Dip=45 Slip=-102
NP2: 9 46 -78

03 09 09 37.15 18.269S 178.132W 591km
5.2mb (32 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 23C
Centroid Location:
Origin Time 09:09:44.6 1.5
Lat 18.65S 0 12 Lon 178.32W 0.14
Dep 600.9 6.2 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm

T	Val= 8.56	Plg=25	Azm=266
N	1.36	34	158
P	-9.92	46	24

Best Double Couple:Mo=9 2*10**16
NP1:Strike= 42 Dip=37 Slip= -21
NP2: 149 78 -125

03 12 52 47.49 29.967N 97.313E 33km
5.1mb (24 obs.)
TIBET
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 19C
Centroid Location:
Origin Time 12:52:56.4 0.9
Lat 29.95N 0.18 Lon 97.38E 0.33
Dep 15.0 FIX Half-duration 1 3
Principal Axes:
Scale 10**16 Nm

T	Val= 2.51	Plg=11	Azm=170
N	-0.33	9	262
P	-2.19	76	31

Best Double Couple:Mo=2.4*10**16
NP1:Strike=248 Dip=35 Slip=-106
NP2: 88 57 -79

03 16 57 45.56 16.277S 171.997W 32km
5.0mb (12 obs.) 4.6Msz (1 obs.)
SAMOA ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.. 10S, 22C
Centroid Location:
Origin Time 16:57:46.8 1.4
Lat 16.73S 0.14 Lon 171.58W 0.12
Dep 54.0 8.6 Half-duration 1.3
Principal Axes:
Scale 10**16 Nm

T	Val= 3.50	Plg=55	Azm=341
N	-0.04	29	198
P	-3.46	17	98

Best Double Couple:Mo=3.5*10**16
NP1:Strike=151 Dip=38 Slip= 37
NP2: 31 68 122

04 00 32 19.22 21.997N 142.975E 252km
5.0mb (25 obs.)
MARIANA ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B. 12S, 23C
Centroid Location
Origin Time 00:32.25.2 1.0
Lat 22.01N 0 07 Lon 143.19E 0.11
Dep 270.0 4.6 Half-duration 1.4
Principal Axes:
Scale 10**16 Nm

T	Val= 4.58	Plg=76	Azm=252
N	0 30	7	132
P	-4.88	12	40

Best Double Couple.Mo=4.7*10**16
NP1:Strike=121 Dip=34 Slip= 78
NP2: 316 57 98

04 07 33 33.70 7.425S 128.159E 126km
5.3mb (25 obs.)
BANDA SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 29C
Centroid Location:
Origin Time 07:33:31.7 1.4
Lat 8.20S 0.12 Lon 128.52E 0.09
Dep 155.9 1.6 Half-duration 2.0
Principal Axes:
Scale 10**17 Nm

T	Val= 1.82	Plg=72	Azm=311
N	-0.44	17	107
P	-1.38	7	199

Best Double Couple:Mo=1.6*10**17
NP1:Strike=308 Dip=41 Slip= 116
NP2: 95 54 69

04 15 49 22.29 35.422N 138.963E 51km
5.3mb (61 obs.) 4.9Msz (8 obs.)
HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 26C
Centroid Location:
Origin Time 15:49:25.8 0.5
Lat 35.33N 0.06 Lon 138.99E 0.07
Dep 31.0 BDY Half-duration 1.8
Principal Axes:
Scale 10**16 Nm

T	Val= 12.11	Plg=41	Azm= 7
N	-0.10	36	238
P	-12.02	29	125

Best Double Couple:Mo=1.2*10**17
NP1:Strike=163 Dip=36 Slip= 12
NP2: 63 83 126

05 06 13 17.40 18.423N 70.377W 28km
5.5mb (65 obs.) 5.0Msz (16 obs.)
DOMINICAN REPUBLIC REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.. 12S, 29C
Centroid Location:
Origin Time 06:13:21.8 0.5
Lat 18.63N 0.06 Lon 70.46W 0.08
Dep 18.0 BDY Half-duration 2.3
Principal Axes:
Scale 10**17 Nm

T	Val= 2.72	Plg=43	Azm=113
N	0.13	18	5
P	-2.85	42	258

Best Double Couple:Mo=2.8*10**17
NP1:Strike=276 Dip=18 Slip= 1
NP2: 185 90 108

05 20 03 25.46 34.476N 26 590E 11km
5.0mb (57 obs.) 5.0Msz (9 obs.)
CRETE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.. 12S, 24C
Centroid Location:
Origin Time 20:03:36.1 1.5
Lat 34.51N FIX;Lon 26.65E FIX
Dep 15.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**16 Nm

T	Val= 7.64	Plg=17	Azm=238
N	2.38	53	124
P	-10.02	31	339

Best Double Couple:Mo=8.8*10**16
NP1:Strike= 15 Dip=55 Slip= -11
NP2: 112 81 -144

07 00 54 05.56 17.841N 94.403W 156km
5.0mb (59 obs.)
CHIAPAS, MEXICO
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 15C
Centroid Location:
Origin Time 00:54: 6.0 1.3
Lat 17.39N 0.16 Lon 93.76W 0.18
Dep 155.3 4.1 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm

T	Val= 6.80	Plg=32	Azm= 97
N	0.24	23	352
P	-7.03	49	233

Best Double Couple:Mo=6.9*10**16
NP1:Strike=238 Dip=25 Slip= -22
NP2: 348 81 -113

07 07 14 49.47 6.810S 130.180E 108km
5.2mb (19 obs.)
BANDA SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 21C
Centroid Location:
Origin Time 07:14:51.5 1.1
Lat 6.79S 0 06 Lon 130.30E 0.12
Dep 95.1 5.8 Half-duration 1.4
Principal Axes:
Scale 10**16 Nm

T	Val= 3.90	Plg=82	Azm= 88
N	-0.22	8	284
P	-3.68	2	193

Best Double Couple:Mo=3.8*10**16
NP1:Strike=276 Dip=43 Slip= 79
NP2. 111 48 100

07 11 53 24.13 30.245N 137.431E 485km
6.1mb (90 obs.)
SOUTH OF HONSHU, JAPAN
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=131 Dip=80 Slip= 42
NP2: 32 49 167
Principal Axes:

T		Plg=36	Azm= 0
P		20	255

Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting with a large reverse component. The preferred fault plane is not determined.
RADIATED ENERGY
No. of sta: 8 Focal mech. M
Energy 3.4±0.7*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 491 No. of sta: 15
Principal Axes:
Scale 10**19 Nm

T	Val= 1.09	Plg=28	Azm= 2
N	0.07	49	130
P	-1.17	27	256

Best Double Couple:Mo=1.1*10**19
NP1:Strike= 38 Dip=49 Slip= 179
NP2: 129 89 41
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 36C M.W.: 13S, 32C
Centroid Locatian:
Origin Time 11:53:30.9 0.1
Lat 30.14N 0.01 Lon 137.21E 0.02
Dep 490.7 1.1 Half-duration 7.8
Principal Axes:
Scale 10**18 Nm

T	Val= 9.77	Plg=38	Azm=357
N	1.10	43	135
P	-10.87	22	248

Best Double Couple:Mo=1.0*10**19
NP1:Strike= 26 Dip=45 Slip= 166

NP2 126 80 46

08 11 06 38 39 60.942S 154 071E 10km
4.7mb (4 obs) 5.2Msz (1 obs)
WEST OF MACQUARIE ISLAND
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 43C
Centroid Location:
Origin Time 11:06:52.3 0.2
Lat 60.69S 0.03 Lon 153.44E 0.04
Dep 15.0 FIX Half-duration 3.4
Principal Axes:
Scale 10**17 Nm
T Val= 9.22 Plg=16 Azm= 19
N -0.61 70 234
P -8.61 11 112
Best Double Couple:Mo=8.9*10**17
NP1:Strike=156 Dip=71 Slip= 4
NP2: 65 86 161

08 20 14 47.00 0.831S 22.291W 10km
4.9mb (22 obs.) 4.6Msz (4 obs.)
CENTRAL MID-ATLANTIC RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 30C
Centroid Location:
Origin Time 20:14:54.8 0.6
Lat 0.55S 0.05 Lon 21.92W 0.07
Dep 15.0 FIX Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 8.01 Plg= 3 Azm=215
N -0.80 85 92
P -7.21 4 305
Best Double Couple:Mo=7.6*10**16
NP1:Strike=350 Dip=85 Slip= -1
NP2: 80 89 -175

09 23 07 47.79 7.157S 81.547W 36km
5.6mb (62 obs.) 4.8Msz (3 obs.)
OFF COAST OF NORTHERN PERU
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 36C
Centroid Location:
Origin Time 23:07:48.0 0.3
Lat 7.33S 0.05 Lon 81.67W 0.05
Dep 15.0 BDY Half-duration 2.2
Principal Axes.
Scale 10**17 Nm
T Val= 2.52 Plg=11 Azm= 62
N -0.47 2 152
P -2.05 79 253
Best Double Couple:Mo=2.3*10**17
NP1:Strike=149 Dip=34 Slip= -94
NP2: 334 56 -87

10 21 23 56.58 6.663S 147 415E 33km
4.9mb (4 obs.) 4.9Msz (2 obs.)
EAST PAPUA NEW GUINEA REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 24C
Centroid Location:
Origin Time 21:24: 2.7 1.6
Lat 6.78S 0.12 Lon 147.05E 0.14
Dep 33.0 FIX Half-duration 1.4
Principal Axes:
Scale 10**16 Nm
T Val= 4.38 Plg=10 Azm=330
N 0.77 75 100
P -5.15 11 238
Best Double Couple:Mo=4.8*10**16
NP1:Strike= 14 Dip=75 Slip=-179
NP2: 284 89 -15

10 21 38 09.47 54.180S 134.156W 10km
5.3mb (8 obs.) 5.5Msz (5 obs.)
SOUTH PACIFIC CORDILLERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 35C
Centroid Location:
Origin Time 21:38:17.8 0.2
Lat 53.82S 0.03 Lon 133.71W 0.03
Dep 15.0 FIX Half-duration 3.2
Principal Axes:
Scale 10**17 Nm
T Val= 5.18 Plg= 0 Azm=152
N 0.05 90 180
P -5.23 0 62

Best Double Couple:Mo=5.2*10**17
NP1:Strike=197 Dip=90 Slip= 180
NP2 287 90 0

11 01 05 34.38 14.697N 92.589W 78km
5.3mb (66 obs.)
NEAR COAST OF CHIAPAS, MEXICO
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 33C
Centroid Location:
Origin Time 01:05:30.7 0.4
Lat 14.66N 0.05 Lon 93.23W 0.05
Dep 49.1 3.1 Half-duration 2.2
Principal Axes:
Scale 10**17 Nm
T Val= 2.69 Plg=20 Azm= 31
N -0.80 29 132
P -1.89 53 271
Best Double Couple:Mo=2.3*10**17
NP1:Strike= 82 Dip=36 Slip=-146
NP2. 324 71 -59

11 06 17 42.23 25.493S 179.608E 510km
5.1mb (27 obs.)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 27C
Centroid Location:
Origin Time 06:17:51.3 0.7
Lat 25.55S 0.07 Lon 179.27E 0.08
Dep 527.2 2.8 Half-duration 2.2
Principal Axes:
Scale 10**17 Nm
T Val= 2.40 Plg=50 Azm= 81
N -0.44 10 184
P -1.96 38 282
Best Double Couple:Mo=2.2*10**17
NP1:Strike= 62 Dip=12 Slip= 149
NP2: 183 84 80

11 11 33 13.02 50.344N 155.170E 119km
5.0mb (46 obs.)
KURIL ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 25C
Centroid Location:
Origin Time 11:33:16.0 1.0
Lat 49.83N 0.10 Lon 155.50E 0.13
Dep 130.5 4.8 Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Val= 9.57 Plg=56 Azm=108
N 3.76 2 201
P -13.34 34 292
Best Double Couple:Mo=1.1*10**17
NP1:Strike= 30 Dip=11 Slip= 99
NP2: 201 79 88

11 11 36 51.22 18.914N 145.625E 176km
5.3mb (27 obs.)
MARIANA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 25C
Centroid Location:
Origin Time 11:36:58.8 1.0
Lat 18.87N 0.08 Lon 145.46E 0.09
Dep 188.5 3.8 Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.70 Plg=48 Azm=185
N -0.13 35 327
P -1.58 19 72
Best Double Couple:Mo=1.6*10**17
NP1:Strike=204 Dip=40 Slip= 153
NP2: 315 73 53

11 13 36 07.65 53.89 S 134.07 W 10km
5.1mb (5 obs.) 5.1Msz (3 obs.)
SOUTH PACIFIC CORDILLERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 30C
Centroid Location:
Origin Time 13:36:12.4 0.4
Lat 53.86S 0.04 Lon 133.73W 0.05
Dep 15.0 FIX Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.59 Plg= 0 Azm=161

N -0.17 90 180
P -1.42 0 71
Best Double Couple:Mo=1.5*10**17
NP1:Strike=206 Dip=90 Slip= 180
NP2 296 90 0

12 11 44 50.81 1.120S 127 046E 43km
5.4mb (22 obs.) 4.8Msz (3 obs)
HALMAHERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 34C
Centroid Location:
Origin Time 11:44.54.1 0.6
Lat 0.60S 0.10 Lon 127.28E 0.07
Dep 36.5 4.0 Half-duration 2.1
Principal Axes:
Scale 10**17 Nm
T Val= 2.77 Plg=11 Azm=301
N 0.04 40 41
P -2.81 48 198
Best Double Couple:Mo=2.8*10**17
NP1:Strike=353 Dip=48 Slip=-148
NP2: 241 67 -46

13 00 58 46.62 29.933N 138.605E 449km
5.5mb (84 obs.)
SOUTH OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 24C
Centroid Location:
Origin Time 00:58:49.5 0.3
Lat 29.74N 0.04 Lon 138.04E 0.04
Dep 446.0 1.9 Half-duration 3.4
Principal Axes:
Scale 10**17 Nm
T Val= 8.27 Plg=39 Azm= 51
N -0.02 22 160
P -8.25 43 273
Best Double Couple:Mo=8.3*10**17
NP1:Strike= 76 Dip=22 Slip=-175
NP2: 341 88 -68

13 19 45 28.29 13.659N 90.850W 55km
5.1mb (19 obs.)
NEAR COAST OF GUATEMALA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 31C
Centroid Location:
Origin Time 19:45:24.8 0.5
Lat 12.93N 0.05 Lon 91.00W 0.06
Dep 59.7 2.9 Half-duration 2.4
Principal Axes:
Scale 10**17 Nm
T Val= 2.35 Plg=53 Azm=108
N 0.91 37 291
P -3.26 1 200
Best Double Couple:Mo=2.8*10**17
NP1:Strike=258 Dip=54 Slip= 43
NP2: 140 57 136

14 10 03 42.34 22.054S 170.164E 67km
5.0mb (8 obs.)
LOYALTY ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 26C
Centroid Location:
Origin Time 10:03:49.0 1.9
Lat 21.47S 0.21 Lon 169.76E 0.07
Dep 27.8 4.7 Half-duration 1.6
Principal Axes:
Scale 10**17 Nm
T Val= 1.17 Plg=78 Azm= 77
N 0.13 4 325
P -1.31 11 234
Best Double Couple:Mo=1.2*10**17
NP1:Strike=318 Dip=34 Slip= 82
NP2: 148 56 95

14 20 11 32.93 42.312N 142.999E 71km
4.9mb (37 obs.)
HOKKAIDO, JAPAN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 26C
Centroid Location:
Origin Time 20:11:36.5 0.6
Lat 42.03N 0.05 Lon 142.93E 0.08
Dep 53.6 4.3 Half-duration 1.7
Principal Axes:

Scale 10**16 Nm
T Val= 9.20 Plg=62 Azm=254
N 2.39 19 24
P -11.59 20 122
Best Double Couple:Mo=1.0*10**17
NP1:Strike=241 Dip=30 Slip= 130
NP2: 16 68 69

14 20 36 38.84 18.526N 102.279W 80km
4.9mb (32 obs.)
MICHOACAN, MEXICO
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B. 12S, 25C
Centroid Location:
Origin Time 20:36:44.2 0.8
Lat 18 56N FIX;Lon 102.26W FIX
Dep 87.4 6.5 Half-duration 1.4
Principal Axes:
Scale 10**16 Nm
T Val= 4.74 Plg= 4 Azm=159
N 0.16 26 67
P -4.91 63 256
Best Double Couple:Mo=4.8*10**16
NP1:Strike=274 Dip=47 Slip= -53
NP2: 46 54 -123

14 22 14 07.54 23.424S 67.997W 123km
5.7mb (54 obs.)
CHILE-ARGENTINA BORDER REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=320 Dip=80 Slip= -90
NP2: 140 10 -90
Principal Axes:
T Plg=35 Azm= 50
P 55 230
Comment: The focal mechanism is poorly controlled and corresponds to normal faulting. The preferred fault plane is NP1.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 38C
Centroid Location:
Origin Time 22:14:14.3 0.2
Lat 23.50S 0.03 Lon 68.24W 0.03
Dep 140.2 1.2 Half-duration 3.4
Principal Axes:
Scale 10**17 Nm
T Val= 10.31 Plg=13 Azm= 69
N -1.18 1 159
P -9.13 77 254
Best Double Couple:Mo=9.7*10**17
NP1:Strike=157 Dip=32 Slip= -92
NP2: 340 58 -89

15 08 58 00.22 16.631S 172.661W 33km
4.8mb (6 obs.) 5.0Msz (2 obs.)
SAMOA ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 24C
Centroid Location:
Origin Time 08:58: 2.7 1.2
Lat 16.87S 0.12 Lon 172.36W 0.10
Dep 15.0 FIX Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 8.53 Plg=61 Azm=285
N 0.18 1 192
P -8.71 29 102
Best Double Couple:Mo=8.6*10**16
NP1:Strike=188 Dip=16 Slip= 85
NP2: 13 74 91

15 18 48 01.11 1.442S 77.866W 170km
5.8mb (73 obs.)
ECUADOR
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=330 Dip=83 Slip= -70
NP2: 79 21 -160
Principal Axes:
T Plg=35 Azm= 43
P 48 261
Comment: The focal mechanism is moderately well controlled and corresponds to normal faulting with a moderate right-lateral strike-slip component. The preferred fault plane is NP1.
MOMENT TENSOR SOLUTION
Dep 185 No. of sta: 6
Principal Axes
Scale 10**18 Nm
T Val= 2.76 Plg=16 Azm= 35
N -0.31 25 132
P -2.46 60 275
Best Double Couple:Mo=2.6*10**18
NP1:Strike= 94 Dip=36 Slip=-134
NP2: 324 65 -63
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 43C M.W.: 12S, 26C
Centroid Location:
Origin Time 18:48: 7.1 0.2
Lat 1.25S 0.02 Lon 78.01W 0.02
Dep 169.0 0.5 Half-duration 4.8
Principal Axes:
Scale 10**18 Nm
T Val= 2.46 Plg=19 Azm= 45
N -0.27 9 138
P -2.18 69 252
Best Double Couple:Mo=2.3*10**18
NP1:Strike=121 Dip=28 Slip=-109
NP2: 322 64 -80

16 02 16 18.79 20.515S 178.355W 551km
5.1mb (18 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 31C
Centroid Location:
Origin Time 02:16:28.9 0.9
Lat 19.93S 0.07 Lon 178.48W 0.06
Dep 576.0 1.9 Half-duration 2.3
Principal Axes:
Scale 10**17 Nm
T Val= 2.73 Plg= 5 Azm=136
N -0.20 10 227
P -2.53 78 21
Best Double Couple:Mo=2.6*10**17
NP1:Strike=215 Dip=41 Slip=-106
NP2: 56 51 -77

16 06 27 29.76 17.928S 169.061E 33km
5.2mb (14 obs.) 5.4Msz (12 obs.)
VANUATU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 29C
Centroid Location:
Origin Time 06:27:30.6 1.1
Lat 17.82S 0.11 Lon 169.47E 0.04
Dep 39.9 4.4 Half-duration 2.7
Principal Axes:
Scale 10**17 Nm
T Val= 4.06 Plg=12 Azm= 37
N -0.39 75 254
P -3.67 9 129
Best Double Couple:Mo=3.9*10**17
NP1:Strike=174 Dip=75 Slip= 2
NP2: 83 88 165

16 08 11 56.08 13.926N 91.547W 48km
5.1mb (18 obs.) 4.4Msz (1 obs.)
NEAR COAST OF GUATEMALA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 19C
Centroid Location:
Origin Time 08:11:52.1 4.1
Lat 13.66N 0.28 Lon 92.22W 0.15
Dep 58.8 7.9 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 5.25 Plg=85 Azm=199
N 3.80 0 109
P -9.05 5 19
Best Double Couple:Mo=7.1*10**16
NP1:Strike=109 Dip=40 Slip= 90
NP2: 289 50 90

17 02 45 38.34 51.240N 179.184W 33km
5.2mb (58 obs.) 4.6Msz (5 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 27C
Centroid Location:
Origin Time 02:45:40.1 1.3
Lat 51.60N 0.13 Lon 179.24W 0.19
Dep 28.7 6.8 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 7.82 Plg=54 Azm=334
N -0.23 3 68
P -7.59 36 160
Best Double Couple:Mo=7.7*10**16
NP1:Strike=265 Dip=10 Slip= 107
NP2: 67 81 87

17 13 37 55.31 21.072N 45.667W 10km
5.2mb (23 obs.) 4.6Msz (4 obs.)
NORTH ATLANTIC RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 22C
Centroid Location:
Origin Time 13:38: 4.8 1.2
Lat 21.10N 0.14 Lon 45.55W 0.10
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 4.84 Plg=14 Azm=265
N 2.68 20 0
P -7.53 65 142
Best Double Couple:Mo=6.2*10**16
NP1:Strike=329 Dip=36 Slip=-126
NP2: 191 62 -67

17 15 23 52.93 44.782N 152.922E 41km
5.4mb (58 obs.) 4.7Msz (7 obs.)
KURIL ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 25C
Centroid Location:
Origin Time 15:23:48.9 1.3
Lat 44.80N 0.10 Lon 153.02E 0.10
Dep 23.9 6.0 Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Val= 10.82 Plg= 9 Azm=128
N -2.03 73 251
P -8.79 14 35
Best Double Couple:Mo=9.8*10**16
NP1:Strike=172 Dip=74 Slip=-177
NP2: 81 87 -16

18 15 38 25.57 24.549N 122.319E 83km
5.3mb (54 obs.)
TAIWAN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 17C
Centroid Location:
Origin Time 15:38:28.1 0.6
Lat 24.17N 0.13 Lon 122.01E 0.19
Dep 80.3 3.6 Half-duration 1.7
Principal Axes:
Scale 10**17 Nm
T Val= 0.86 Plg=80 Azm= 13
N 0.64 10 188
P -1.51 1 278
Best Double Couple:Mo=1.2*10**17
NP1:Strike= 18 Dip=45 Slip= 105
NP2: 178 47 76

19 18 58 38.40 23.392S 175.314W 42km
5.3mb (18 obs.) 5.4Msz (18 obs.)
TONGA ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 37C
Centroid Location:
Origin Time 18:58:42.2 0.7
Lat 23.18S 0.06 Lon 174.86W 0.05
Dep 15.0 BDY Half-duration 2.4
Principal Axes:
Scale 10**17 Nm
T Val= 3.28 Plg=68 Azm=294
N 0.04 1 202
P -3.32 22 112
Best Double Couple:Mo=3.3*10**17
NP1:Strike=201 Dip=23 Slip= 88
NP2: 23 67 91

19 19 50 19.74 6.929S 129.486E 152km
5.2mb (13 obs.)
BANDA SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 18C
Centroid Location:
Origin Time 19:50:20.3 2.2
Lat 7.19S 0.18 Lon 129.13E 0.13
Dep 161.8 2.5 Half-duration 1.7

Principal Axes
Scale 10**16 Nm
T Val= 12.47 Plg=55 Azm=225
N -2.65 35 45
P -9.82 0 135
Best Double Couple:Mo=1.1*10**17
NP1 Strike=255 Dip=55 Slip= 135
NP2: 15 55 45

20 14 44 22.04 31.542S 179.600W 188km
5.4mb (23 obs.)
KERMADEC ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used GDSN
L.P.B. 12S, 26C
Centroid Location:
Origin Time 14:44:27.2 1.0
Lat 31.48S 0.11 Lon 179.71W 0.11
Dep 194.5 3.8 Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Val= 10.34 Plg=26 Azm= 84
N -1.94 7 177
P -8.41 63 280
Best Double Couple:Mo=9.4*10**16
NP1:Strike=158 Dip=20 Slip=-110
NP2: 359 71 -83

20 17 56 18.07 4.669N 77.423W 35km
5.6mb (57 obs.) 5.5Msz (9 obs.)
NEAR WEST COAST OF COLOMBIA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 42C
Centroid Location:
Origin Time 17:56:24.6 0.3
Lat 4.99N 0.02 Lon 77.68W 0.03
Dep 24.1 BDY Half-duration 3.6
Principal Axes:
Scale 10**17 Nm
T Val= 6.36 Plg=62 Azm= 82
N 0.41 4 180
P -6.77 27 272
Best Double Couple:Mo=6.6*10**17
NP1:Strike= 14 Dip=18 Slip= 104
NP2: 179 73 85

20 21 58 35.79 12.425S 14.939W 10km
5.1mb (25 obs.) 4.7Msz (3 obs.)
SOUTH ATLANTIC RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 20C
Centroid Location:
Origin Time 21:58:51.5 3.2
Lat 11.71S 0.24 Lon 14.98W 0.18
Dep 15.0 FIX Half-duration 1.4
Principal Axes:
Scale 10**16 Nm
T Val= 4.67 Plg=17 Azm= 54
N -0.07 2 145
P -4.60 73 240
Best Double Couple:Mo=4.6*10**16
NP1:Strike=142 Dip=28 Slip= -94
NP2: 326 62 -88

21 09 58 53.57 46.187N 152.205E 51km
5.9mb (108 obs.)
KURIL ISLANDS
FAULT PLANE SOLUTION, P-Waves
NP1:Strike= 75 Dip=78 Slip= 90
NP2: 255 12 90
Principal Axes:
T Plg=57 Azm=345
P 33 165
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 64 No. of sta: 9
Principal Axes:
Scale 10**17 Nm
T Val= 1.94 Plg=53 Azm= 28
N -0.01 32 240
P -1.94 15 140
Best Double Couple:Mo=1.9*10**17
NP1:Strike=193 Dip=41 Slip= 36
NP2: 75 67 125
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 31C
Centroid Location:
Origin Time 09 58 56.1 0.4
Lat 46.04N 0.06 Lon 152.34E 0.06
Dep 61.1 BDY Half-duration 2.1
Principal Axes
Scale 10**17 Nm
T Val= 2.14 Plg=52 Azm= 8
N -0.18 10 264
P -1.96 36 167
Best Double Couple:Mo=2.1*10**17
NP1:Strike=215 Dip=13 Slip= 40
NP2: 86 81 100

21 11 04 50.70 22.255S 170.928E 82km
5.4mb (10 obs.)
LOYALTY ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.. 16S, 36C
Centroid Location:
Origin Time 11:05: 1.2 0.7
Lat 21.83S 0.07 Lon 170.39E 0.03
Dep 51.2 2.8 Half-duration 2.8
Principal Axes:
Scale 10**17 Nm
T Val= 4.91 Plg=22 Azm=319
N -0.62 68 138
P -4.29 0 229
Best Double Couple:Mo=4.6*10**17
NP1:Strike= 2 Dip=75 Slip= 164
NP2: 96 75 16

21 23 59 29.97 16.477S 172.113W 33km
5.4mb (26 obs.) 5.3Msz (9 obs.)
SAMOA ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 34C
Centroid Location:
Origin Time 23:59:36.7 0.4
Lat 16.71S 0.05 Lon 172.05W 0.03
Dep 44.3 2.1 Half-duration 2.3
Principal Axes:
Scale 10**17 Nm
T Val= 2.60 Plg=72 Azm=153
N 0.31 18 339
P -2.92 2 248
Best Double Couple:Mo=2.8*10**17
NP1:Strike=320 Dip=46 Slip= 64
NP2: 175 49 114

22 07 32 49.10 26.505N 44.623W 10km
4.9mb (31 obs.) 5.1Msz (5 obs.)
NORTH ATLANTIC RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 20C
Centroid Location:
Origin Time 07:32:55.0 0.6
Lat 26.53N FIX;Lon 44.63W FIX
Dep 15.0 FIX Half-duration 1.8
Principal Axes:
Scale 10**16 Nm
T Val= 9.55 Plg= 0 Azm=268
N 0.31 0 178
P -9.86 90 180
Best Double Couple:Mo=9.7*10**16
NP1:Strike=358 Dip=45 Slip= -90
NP2: 178 45 -90

22 07 52 00.79 26.536N 44.742W 10km
5.3mb (35 obs.) 5.2Msz (9 obs.)
NORTH ATLANTIC RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 28C
Centroid Location:
Origin Time 07:52: 5.6 0.7
Lat 26.37N 0.10 Lon 44.52W 0.09
Dep 15.0 FIX Half-duration 2.2
Principal Axes:
Scale 10**17 Nm
T Val= 2.76 Plg=10 Azm= 83
N -0.47 7 352
P -2.29 78 230
Best Double Couple:Mo=2.5*10**17
NP1:Strike=182 Dip=35 Slip= -78
NP2: 348 56 -98

22 22 28 44.57 23.813N 167.197W 20km
5.5mb (22 obs.) 4.6Msz (3 obs.)
HAWAII REGION
MOMENT TENSOR SOLUTION
Dep 19 No. of sta 4
Principal Axes
Scale 10**16 Nm
T Val= 7.11 Plg=74 Azm=163
N -0.85 14 7
P -6.27 6 276
Best Double Couple:Mo=6.7*10**16
NP1:Strike=350 Dip=41 Slip= 68
NP2: 199 53 108
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B . 14S, 29C
Centroid Location:
Origin Time 22:28:51.1 1.0
Lat 23.65N 0.10 Lon 167.06W 0.07
Dep 15.0 FIX Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 7.27 Plg=56 Azm= 25
N 1.43 34 202
P -8.70 1 293
Best Double Couple:Mo=8.0*10**16
NP1:Strike= 53 Dip=53 Slip= 134
NP2: 175 55 48

23 03 39 36.31 4.886S 101.953E 71km
5.1mb (13 obs.)
SOUTHERN SUMATERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 15C
Centroid Location:
Origin Time 03:39:40.4 1.1
Lat 5.01S FIX;Lon 101.92E FIX
Dep 15.0 FIX Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 9.91 Plg=48 Azm= 81
N 1.89 24 322
P -11.80 32 215
Best Double Couple:Mo=1.1*10**17
NP1:Strike=253 Dip=25 Slip= 20
NP2: 145 82 114

23 04 46 40.60 39.570N 74.506E 33km
5.3mb (65 obs) 4.8Msz (2 obs.)
SOUTHERN XINJIANG, CHINA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 14C
Centroid Location:
Origin Time 04:46:44.3 3.0
Lat 39.66N 0.30 Lon 74.47E 0.23
Dep 15.0 FIX Half-duration 1.4
Principal Axes:
Scale 10**16 Nm
T Val= 5.70 Plg=64 Azm=241
N -0.65 10 129
P -5.05 23 35
Best Double Couple:Mo=5.4*10**16
NP1:Strike=106 Dip=23 Slip= 64
NP2: 313 69 101

24 11 29 00.49 6.622S 147.396E 31km
5.3mb (8 obs.) 4.9Msz (7 obs.)
EAST PAPUA NEW GUINEA REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 25C
Centroid Location:
Origin Time 11:29: 5.1 0.8
Lat 6.80S FIX;Lon 147.34E FIX
Dep 47.6 9.4 Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Val= 9.67 Plg=24 Azm=343
N 4.36 61 127
P -14.03 15 246
Best Double Couple:Mo=1.2*10**17
NP1:Strike= 23 Dip=62 Slip= 173
NP2: 116 84 28

25 20 52 14.71 37.180N 71.811E 11km
5.5mb (65 obs.) 5.0Msz (7 obs.)
AFGHANISTAN-USSR BORDER REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 21C
Centroid Location:
Origin Time 20:52:22.2 1.1
Lat 37.51N 0.12 Lon 71.64E 0.08
Dep 44.5 6.3 Half-duration 2.2
Principal Axes:

Scale 10**17 Nm
T Val= 2.30 Plg=10 Azm= 89
N -0.63 75 221
P -1.67 11 358
Best Double Couple:Mo=2.0*10**17
NP1:Strike=134 Dip=75 Slip=-179
NP2: 43 89 -15

25 21 28 04.85 36.425N 70.703E 212km
5.6mb (79 obs.)
HINDU KUSH REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B. 11S, 27C
Centroid Location:
Origin Time 21:28: 8.3 0.6
Lat 36.29N 0.06 Lon 70.46E 0.04
Dep 221.2 2.3 Half-duration 3.3
Principal Axes:
Scale 10**17 Nm
T Val= 9.11 Plg=64 Azm= 19
N -0.98 1 112
P -8.13 25 202
Best Double Couple:Mo=8.6*10**17
NP1:Strike=295 Dip=20 Slip= 94
NP2: 111 71 89

26 07 17 00.21 36.294N 71.374E 107km
5.6mb (69 obs.)
AFGHANISTAN-USSR BORDER REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 20C
Centroid Location:
Origin Time 07:17: 0.1 1.0
Lat 36.03N 0.09 Lon 71.45E 0.07
Dep 114.9 3.8 Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.70 Plg=60 Azm=226
N -0.35 19 354
P -1.35 22 92
Best Double Couple:Mo=1.5*10**17
NP1:Strike=214 Dip=29 Slip= 134
NP2: 346 70 69

26 08 23 19.84 35.532N 141.070E 29km
5.9mb (75 obs.) 5.5Msz (16 obs.)
NEAR EAST COAST OF HONSHU, JAPAN
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=220 Dip=49 Slip= 90
NP2: 40 41 90
Principal Axes:
T Plg=86 Azm=130
P 4 310
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is not determined.
RADIATED ENERGY
No. of sta: 6 Focal mech. F
Energy 2.4±0.8*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 33 No. of sta: 8
Principal Axes:
Scale 10**17 Nm
T Val= 4.71 Plg=58 Azm=208
N -0.09 29 52
P -4.63 11 316
Best Double Couple:Mo=4.7*10**17
NP1:Strike= 15 Dip=43 Slip= 44
NP2: 249 62 123
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 25C
Centroid Location:
Origin Time 08:23:21.5 0.7
Lat 35.53N 0.06 Lon 141.05E 0.06
Dep 27.0 BDY Half-duration 2.7
Principal Axes:
Scale 10**17 Nm
T Val= 5.07 Plg=66 Azm=177
N -1.40 2 84
P -3.67 24 353
Best Double Couple:Mo=4.4*10**17
NP1:Strike= 80 Dip=21 Slip= 86
NP2: 265 69 92

26 13 31 08.21 0.300S 125.118E 57km
5.5mb (31 obs.)
MOLUCCA SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 30C
Centroid Location:
Origin Time 13:31:13.2 0.4
Lat 0.36S FIX;Lon 125.09E FIX
Dep 41.5 4.3 Half-duration 2.3
Principal Axes:
Scale 10**17 Nm
T Val= 3.04 Plg=47 Azm=226
N -0.69 43 41
P -2.34 2 134
Best Double Couple:Mo=2.7*10**17
NP1:Strike=259 Dip=57 Slip= 144
NP2: 10 61 39

26 14 03 57.13 10.138N 126.066E 77km
5.5mb (37 obs.)
PHILIPPINE ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 26C
Centroid Location:
Origin Time 14:04: 1.9 1.4
Lat 10.55N 0.12 Lon 126.67E 0.10
Dep 34.9 7.6 Half-duration 1.9
Principal Axes:
Scale 10**17 Nm
T Val= 1.53 Plg=71 Azm=224
N 0.38 12 352
P -1.91 15 85
Best Double Couple:Mo=1.7*10**17
NP1:Strike=192 Dip=32 Slip= 113
NP2: 345 61 76

26 21 07 19.75 26.526S 177.479W 33km
5.4mb (5 obs.) 5.4Msz (5 obs.)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 36C
Centroid Location:
Origin Time 21:07:25.3 0.5
Lat 26.04S 0.05 Lon 177.59W 0.04
Dep 15.0 FIX Half-duration 2.5
Principal Axes:
Scale 10**17 Nm
T Val= 3.34 Plg= 7 Azm=132
N -0.46 72 19
P -2.88 17 224
Best Double Couple:Mo=3.1*10**17
NP1:Strike=267 Dip=73 Slip= -7
NP2: 359 84 -163

30 03 00 36.88 1.295S 14.472W 10km
4.9mb (33 obs.) 4.7Msz (2 obs.)
NORTH OF ASCENSION ISLAND
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 26C
Centroid Location:
Origin Time 03:00:37.8 0.5
Lat 1.28S FIX;Lon 14.52W FIX
Dep 15.0 FIX Half-duration 1.8
Principal Axes:
Scale 10**16 Nm
T Val= 8.32 Plg= 0 Azm=211
N -1.45 90 180
P -6.86 0 121
Best Double Couple:Mo=7.6*10**16
NP1:Strike=256 Dip=90 Slip= 180
NP2: 346 90 0

30 03 23 47.24 19.560S 68.921W 112km
5.3mb (44 obs.)
CHILE-BOLIVIA BORDER REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 25C
Centroid Location:
Origin Time 03:23:54.6 0.4
Lat 19.76S 0.07 Lon 69.46W 0.07
Dep 137.9 3.5 Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 2.13 Plg=22 Azm= 58
N -0.82 13 154
P -1.30 64 273
Best Double Couple:Mo=1.7*10**17
NP1:Strike=124 Dip=26 Slip=-122
NP2: 339 69 -76

30 05 45 56.68 4.863S 144.692E 95km
5.5mb (11 obs.)
NEAR N COAST OF PAPUA NEW GUINEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 35C
Centroid Location:
Origin Time 05:46: 2.2 0.7
Lat 4.56S 0.06 Lon 144.69E 0.04
Dep 89.0 FIX Half-duration 2.6
Principal Axes:
Scale 10**17 Nm
T Val= 3.52 Plg=64 Azm=357
N 0.44 6 100
P -3.97 26 193
Best Double Couple:Mo=3.8*10**17
NP1:Strike=298 Dip=20 Slip= 108
NP2: 98 71 83

30 08 27 53.56 7.406S 128.371E 146km
5.5mb (29 obs.)
BANDA SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 34C
Centroid Location:
Origin Time 08:28: 0.6 0.7
Lat 7.30S 0.07 Lon 128.66E 0.06
Dep 162.4 1.3 Half-duration 2.7
Principal Axes:
Scale 10**17 Nm
T Val= 4.30 Plg=67 Azm=309
N -0.79 23 139
P -3.50 4 47
Best Double Couple:Mo=3.9*10**17
NP1:Strike=114 Dip=46 Slip= 57
NP2: 337 53 119

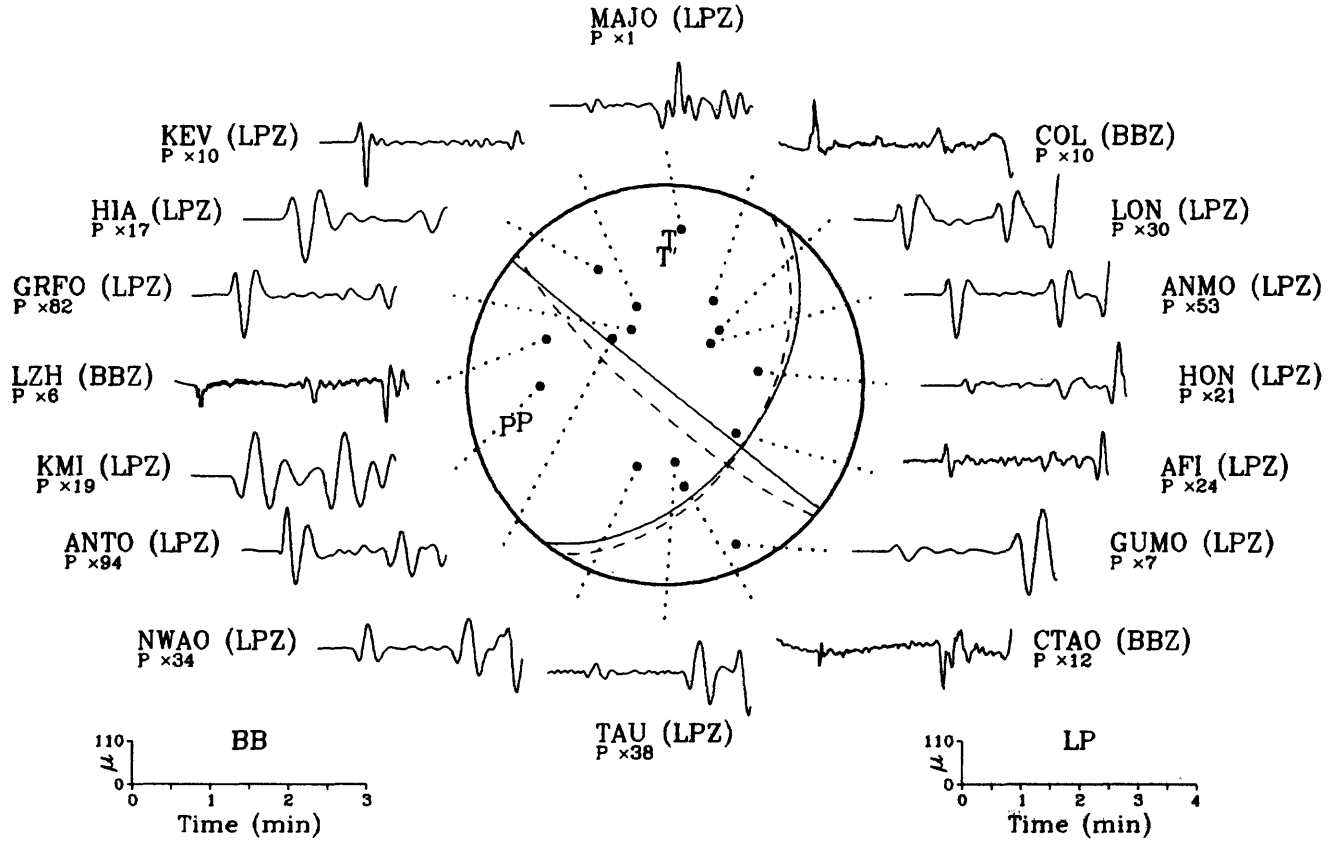
30 18 29 58.43 4.899S 144.662E 95km
5.1mb (7 obs.)
NEAR N COAST OF PAPUA NEW GUINEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 24C
Centroid Location:
Origin Time 18:29:59.4 1.1
Lat 4.86S 0.08 Lon 145.04E 0.08
Dep 101.1 3.9 Half-duration 1.9
Principal Axes:
Scale 10**17 Nm
T Val= 1.48 Plg=54 Azm= 28
N 0.02 12 281
P -1.50 33 182
Best Double Couple:Mo=1.5*10**17
NP1:Strike=232 Dip=16 Slip= 41
NP2: 103 80 102

30 21 45 01.29 19.374S 177.492W 552km
5.8mb (31 obs.)
FIJI ISLANDS REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=290 Dip=63 Slip= -60
NP2: 58 39 -134
Principal Axes:
T Plg=13 Azm=359
P 60 245
Comment: The focal mechanism is poorly controlled and corresponds to normal faulting with a moderate strike-slip component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 575 No. of sta: 4
Principal Axes:
Scale 10**17 Nm
T Val= 5.23 Plg= 8 Azm= 5
N -0.35 19 98
P -4.89 69 254
Best Double Couple:Mo=5.1*10**17
NP1:Strike= 74 Dip=41 Slip=-120
NP2: 291 55 -67
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 24C
Centroid Location:
Origin Time 21:45:14.9 0.7
Lat 18.86S 0.06 Lon 177.82W 0.04
Dep 583.1 1.7 Half-duration 3.1
Principal Axes:
Scale 10**17 Nm
T Val= 5.93 Plg=14 Azm=352
N 0.39 29 91
P -6.32 57 239
Best Double Couple:Mo=6.1*10**17

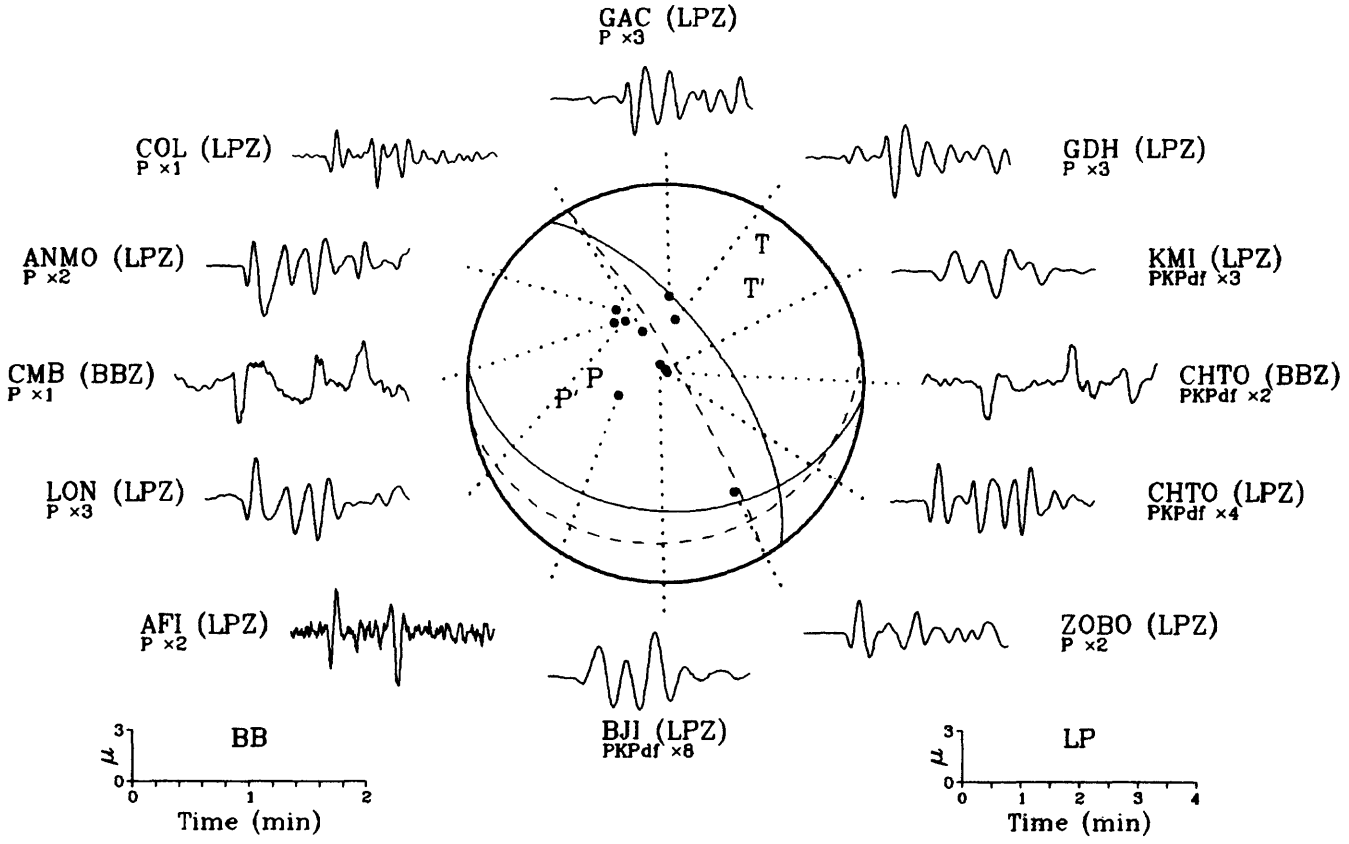
NP1	Strike= 49	Dip=40	Slip=-140	|	|
NP2	286	65	-58	|	|

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

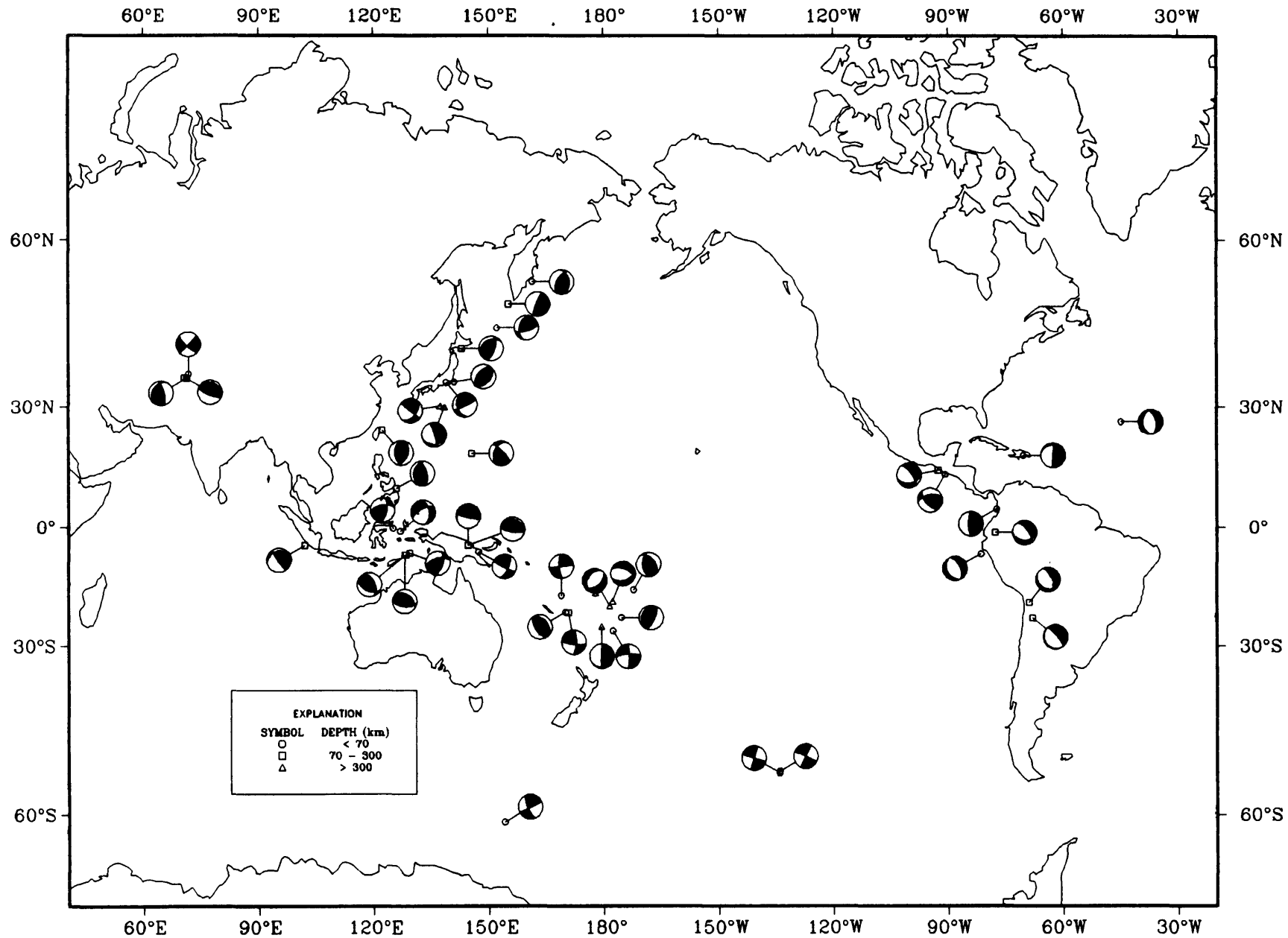
07 September 1988 11:53:24.13
South of Honshu, Japan

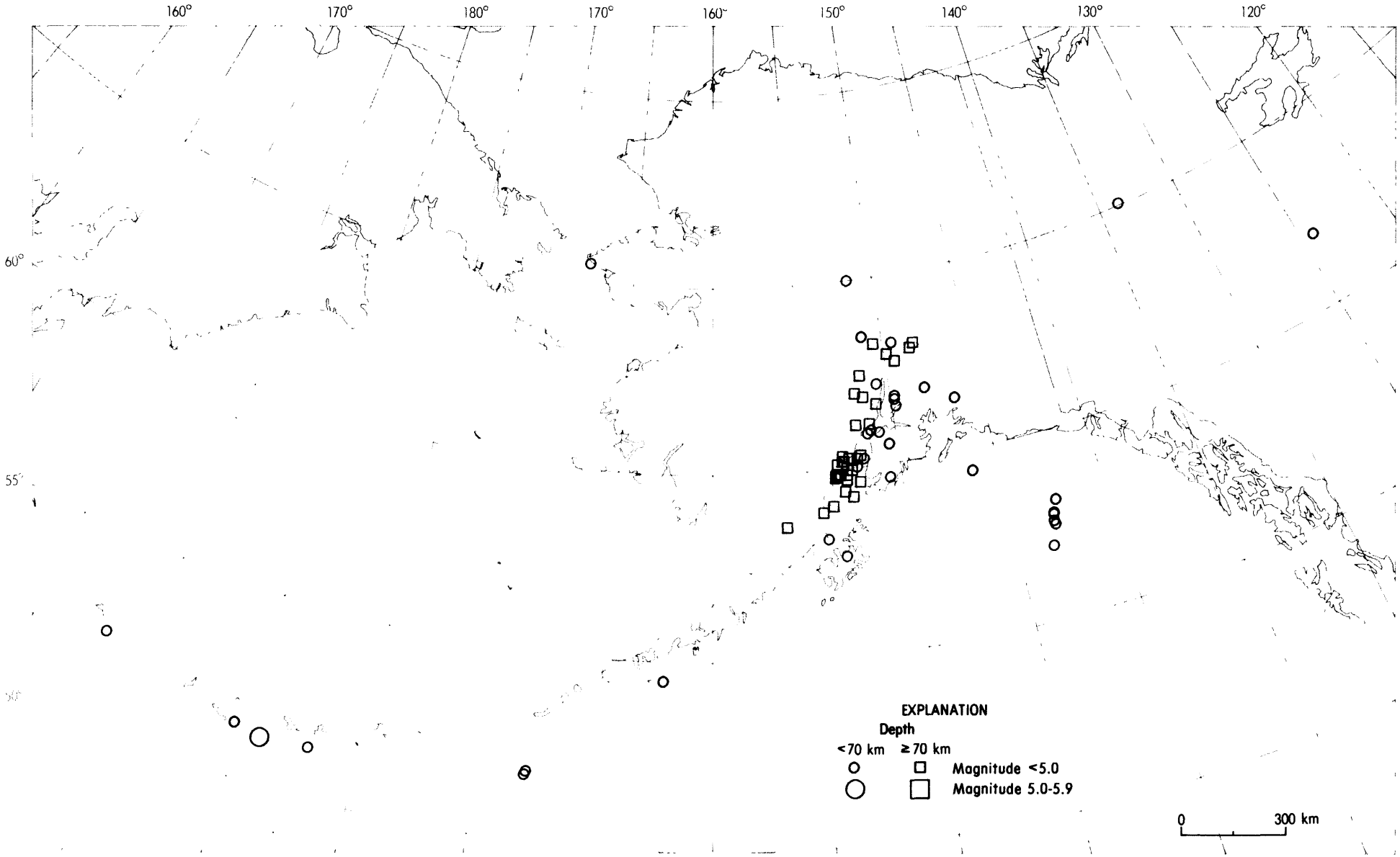


15 September 1988 18:48:01.11
Ecuador

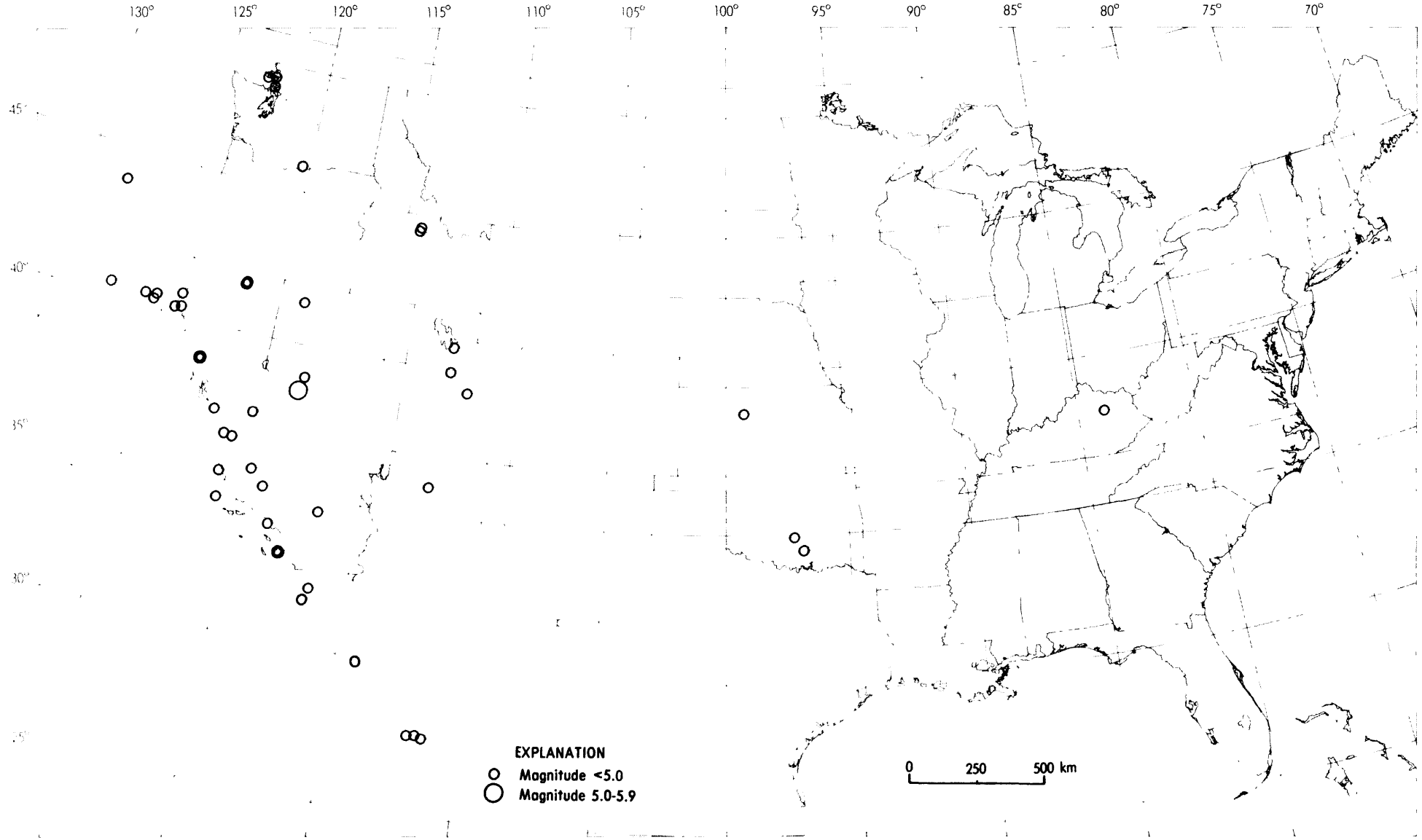


Earthquake Focal Mechanisms for September 1988

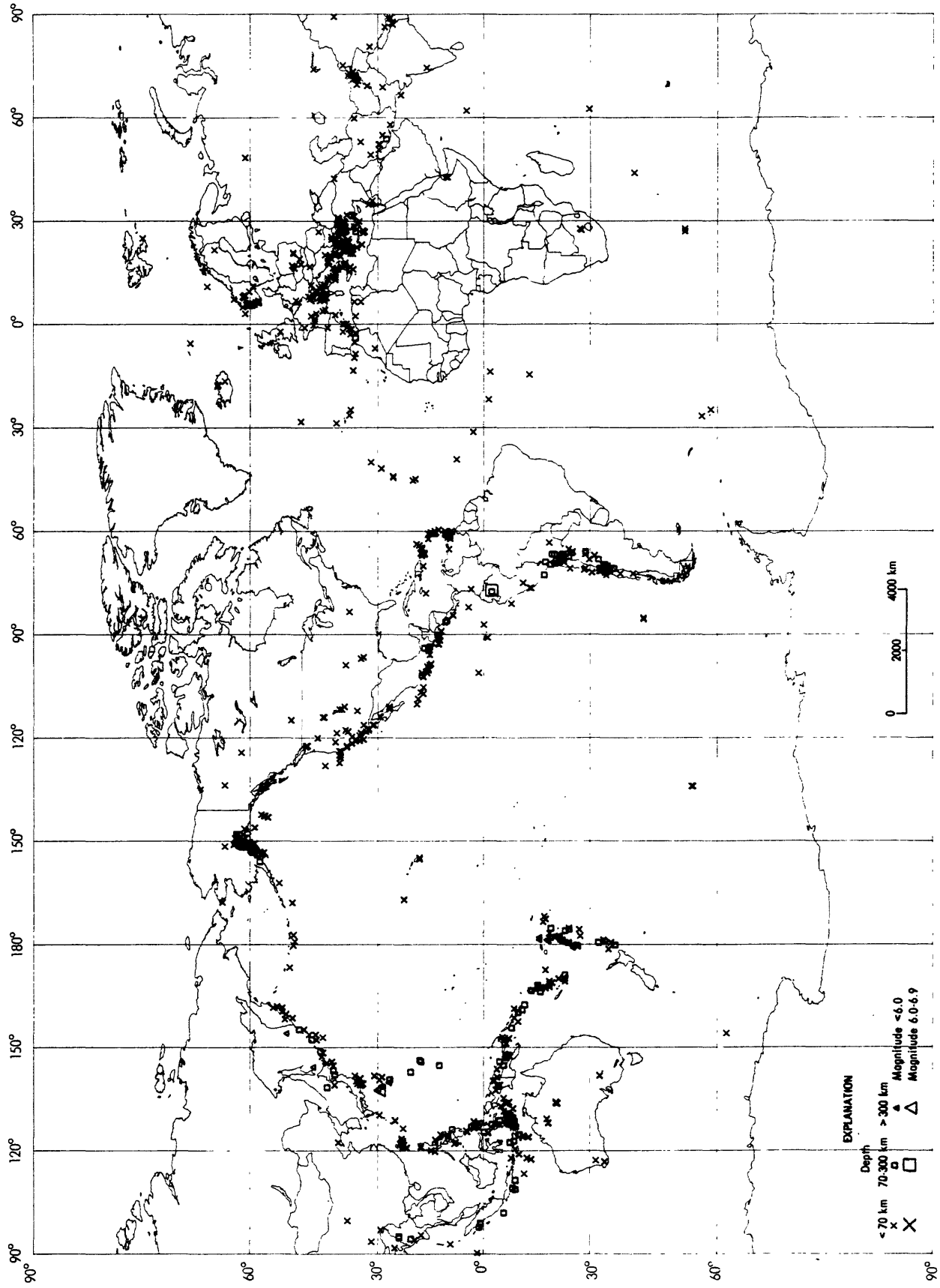




Earthquake epicenters in Alaska and adjacent regions for September, 1988 (C. Stover).



Earthquake epicenters in the conterminous United States and adjacent regions for September, 1988 (C. Stover).



Earthquakes located in September, 1988 (C. Stover).