UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

PRELIMINARY DETERMINATION OF EPICENTERS
MONTHLY LISTING

JULY - SEPTEMBER 1986

NATIONAL EARTHQUAKE INFORMATION CENTER

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PRELIMINARY DETERMINATION OF EPICENTERS

MONTHLY LISTING

U.S. DEPARTMENT OF THE INTERIOR / GEOLOGICAL SURVEY

National Earthquake Information Center

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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	02	27	44.2*	20.469	S	178.665	W	620		4.5		1.0	31	FIJI ISLANDS REGION
	01	03	36	31.5*	50.271	N	18.807	E	10	G			1.2	6	POLAND. ML 3.4 (KRA).
	01	04	13	33.8	21.056	S	68.898	W	33	N			0.5	6	CHILE-BOLIVIA BORDER REGION
	01	04	34	37.7*	19.973	N	146.401	E	59	*	4.9		1.0	25	MARIANA ISLANDS REGION
	01	05	04	41.0	37.508	N	118.326	W	10	G			0.6	13	CALIFORNIA-NEVADA BORDER REGION. ML 3.1 (NEIS).
	01	05	49	01.1?	33.35	S	72.06	W	10	G			0.4	8	OFF COAST OF CENTRAL CHILE
	01	06	34	42.9	37.561	N	118.394	W	10	G			0.6	26	CALIFORNIA-NEVADA BORDER REGION. ML 3.2 (BRK).
	01	07	00	36.8*	52.622	S	18.268	E	10	G	4.6	4.7	0.8	8	SOUTHWEST OF AFRICA
	01	07	32	13.1%	33.609	S	70.678	W	33	N			1.3	7	CHILE-ARGENTINA BORDER REGION
	01	07	55	48.6?	12.71	S	34.10	E	10	G			0.7	5	MALAWI. MG 3.5 (BUL).
	01	10	15	19.1?	32.12	S	71.49	W	10	G			0.8	6	NEAR COAST OF CENTRAL CHILE
	01	11	42	19.3?	33.04	S	72.32	W	33	N			0.3	6	OFF COAST OF CENTRAL CHILE
	01	13	27	01.7&	62.634	N	148.558	W	24					33	CENTRAL ALASKA. <AGS-P>.
	01	13	56	36.6*	72.914	N	55.858	E	10	G	4.7		1.2	30	NOVAYA ZEMLYA
	01	13	59	09.2	38.542	N	21.341	E	102	*			0.7	21	GREECE
a	01	14	09	24.9	35.880	S	103.702	W	10	G	5.5	5.8	1.1	106	SOUTHERN PACIFIC OCEAN
	01	14	27	16.0	37.501	N	118.352	W	5	G	4.2		1.0	30	CALIFORNIA-NEVADA BORDER REGION. ML 4.3 (BRK).
	01	14	28	18.0	37.375	N	118.442	W	5	G	4.9		1.0	54	CALIFORNIA-NEVADA BORDER REGION. ML 4.7 (BRK).
	01	14	34	13.0*	43.176	N	25.859	E	10	G			1.3	7	BULGARIA
	01	14	35	47.2?	21.18	S	175.87	W	197	?	4.5		1.0	14	TONGA ISLANDS
	01	14	40	28.8?	42.28	N	19.98	E	10	G			0.1	4	YUGOSLAVIA. ML 2.4 (TTG).
	01	15	02	08.2	39.320	N	23.549	E	10	G			0.5	13	AEGEAN SEA. ML 2.9 (ATH).
	01	15	10	44.2&	37.493	N	118.415	W	6					18	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.6 (BRK).
a	01	16	20	59.1	16.948	S	179.089	W	517		4.9		0.9	89	FIJI ISLANDS REGION
	01	16	43	06.4*	53.495	N	167.236	W	33	N	4.6		0.8	11	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.5 (PMR). Felt on Unalaska.
	01	18	37	17.4*	39.987	N	23.414	E	10	G			1.2	10	AEGEAN SEA
	01	19	46	34.9*	51.171	N	176.198	W	33	N	4.8		0.9	23	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.3 (PMR).
	01	20	24	59.4	51.163	N	176.138	W	33	N	4.8	4.9	0.9	54	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.9 (PMR). Felt on Adak.
	01	21	03	06.7	44.507	N	10.685	E	10	G			1.2	26	NORTHERN ITALY. ML 3.5 (LDG), 3.1 (KBA), 2.8 (TRI).
a	01	21	05	39.7	51.369	N	174.283	W	33	N	5.5	5.0	0.9	142	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.6 (PMR). Felt (IV) on Adak.
	01	21	41	23.4*	51.392	N	174.245	W	33	N	4.8		0.7	39	ANDREANOF ISLANDS, ALEUTIAN IS.
	01	21	48	40.8*	51.416	N	174.212	W	33	N	4.9		0.9	44	ANDREANOF ISLANDS, ALEUTIAN IS.
	01	21	49	18.9*	51.442	N	176.267	W	33	N	4.3		0.7	12	ANDREANOF ISLANDS, ALEUTIAN IS.
	01	22	09	26.5?	51.55	N	174.15	W	33	N	4.5		0.8	8	ANDREANOF ISLANDS, ALEUTIAN IS.
	01	22	17	38.9?	15.33	S	173.26	W	33	N	5.4		1.0	17	TONGA ISLANDS
	01	23	47	20.6	4.720	S	101.819	E	33	N	5.3	4.8	1.2	51	SOUTHERN SUMATERA
	02	01	52	40.0?	17.33	N	62.18	W	10	G			0.2	5	LEEWARD ISLANDS. ML 3.3 (FDF).
	02	04	39	12.0?	33.60	S	72.54	W	33	N			0.7	11	OFF COAST OF CENTRAL CHILE
	02	04	41	05.7?	33.57	S	72.60	W	33	N			0.4	8	OFF COAST OF CENTRAL CHILE
	02	04	52	15.9	40.026	N	22.274	E	10	G			1.2	10	GREECE
	02	05	03	13.4	40.434	N	21.597	E	10				0.7	18	GREECE. ML 2.7 (TTG).
	02	05	50	19.7*	30.385	N	50.581	E	33	N	4.1		1.3	8	IRAN
	02	05	58	10.6	41.116	N	19.613	E	13				1.1	23	ALBANIA. ML 3.4 (TTG).
	02	06	37	06.4*	51.314	N	175.992	W	33	N	5.0		1.1	12	ANDREANOF ISLANDS, ALEUTIAN IS.
	02	08	17	13.1*	19.847	S	177.270	W	549	*	4.4		0.6	18	FIJI ISLANDS REGION
	02	08	41	59.6*	39.295	N	23.870	E	11				1.5	17	AEGEAN SEA. ML 3.1 (ATH).
	02	11	18	52.0	18.199	S	167.959	E	33	N	5.0		1.4	54	VANUATU ISLANDS
	02	11	36	57.1	34.062	N	116.649	W	10	G			1.0	10	SOUTHERN CALIFORNIA. ML 3.5 (NEIS). Felt in the Palm Springs area.
	02	12	03	04.6?	43.45	N	12.68	E	10	G			0.5	6	CENTRAL ITALY. ML 2.8 (KBA).
	02	12	40	23.3*	28.103	S	177.931	W	33	N	5.0	5.1	1.2	14	KERMADEC ISLANDS REGION
a	02	12	42	12.4	28.304	S	177.686	W	33	N	5.2	5.3	1.2	49	KERMADEC ISLANDS REGION
	02	12	44	42.7	43.507	N	12.462	E	10	G			1.2	18	CENTRAL ITALY. ML 3.8 (TRI), 3.7 (KBA).
	02	13	18	49.3&	59.740	N	153.464	W	114					17	SOUTHERN ALASKA. <AGS-P>.
	02	14	01	01.9*	52.802	N	168.198	W	33	N	4.3		1.1	11	FOX ISLANDS, ALEUTIAN ISLANDS

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	02	14	51	36.2	37.594	N	118.368	W	5	G		0.8	20	CALIFORNIA-NEVADA BORDER REGION. ML 3.7 (BRK).
	02	16	36	17.5?	52.06	N	17.31	E	10	G		0.7	10	POLAND. ML 3.8 (VKA).
a	02	17	49	25.6	13.073	N	88.806	W	80		5.4	1.0	210	EL SALVADOR. Felt (V) at San Salvador.
	02	18	39	06.4	42.362	N	19.915	E	10	•		0.5	8	YUGOSLAVIA. ML 2.5 (TTG).
	02	18	49	23.0	4.481	S	143.830	E	130		4.7	1.0	17	PAPUA NEW GUINEA
	02	19	58	16.0?	51.41	N	174.76	W	33	N	4.7	0.9	9	ANDREANOF ISLANDS, ALEUTIAN IS.
a	02	20	35	36.2	58.265	S	15.319	W	10	G	5.4 5.2	1.1	56	SOUTHWESTERN ATLANTIC OCEAN
	02	23	31	58.2	7.581	N	126.682	E	33	N	4.7	0.9	27	MINDANAO, PHILIPPINE ISLANDS
	03	00	08	34.9	17.075	N	62.052	W	100		4.9	0.8	62	LEEWARD ISLANDS. Felt (II) on Guadeloupe. Felt widely on Antigua and St. Kitts.
	03	00	39	19.3	23.365	S	69.098	W	143	•	4.7	1.2	18	NORTHERN CHILE
	03	01	33	20.3	37.200	N	37.300	E	12		5.0 4.1	1.1	130	TURKEY. Seventy houses damaged at Yesilce, Ucgoze and Sam, Gaziantep Province; 3 houses damaged at Karabiyikli, Kahraman Maras Province. Felt at Kahramanmaras, Adiyaman and Malatya. Felt also in the Eskisehir area.
	03	01	37	41.1•	62.587	N	25.733	W	10	G	4.7	1.0	31	ICELAND REGION
	03	02	39	28.8	51.408	N	174.163	W	33	N	5.0	1.1	82	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.0 (PMR). Felt on Adak.
	03	05	00	05.8	44.134	N	10.952	E	10	G		1.2	10	NORTHERN ITALY. ML 2.7 (LDG).
	03	05	18	30.7•	5.370	S	151.652	E	99	?	4.3	1.0	8	NEW BRITAIN REGION
	03	06	26	26.6&	61.542	N	140.401	W	1				37	SOUTHERN YUKON TERRITORY, CANADA. <AGS-P>. ML 3.6 (PMR).
	03	06	30	17.2&	56.602	N	142.717	W	31				16	GULF OF ALASKA. <AGS-P>.
	03	06	39	50.6•	17.038	S	66.971	W	10	G		0.9	5	BOLIVIA
	03	09	00	13.6	36.592	N	121.233	W	10	G		0.8	13	CENTRAL CALIFORNIA. ML 2.9 (BRK).
	03	09	57	41.6?	20.73	S	68.92	W	157	?		1.1	7	CHILE-BOLIVIA BORDER REGION
	03	10	33	04.5	37.615	N	118.410	W	5	G	3.6	0.7	35	CALIFORNIA-NEVADA BORDER REGION. ML 4.0 (BRK).
	03	10	37	03.4&	37.592	N	118.440	W	7				13	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.4 (BRK).
	03	12	15	11.9	15.717	N	92.428	W	136	D	4.5	0.9	48	MEXICO-GUATEMALA BORDER REGION
	03	12	49	37.5?	22.36	S	179.76	W	595	•	4.5	0.7	13	SOUTH OF FIJI ISLANDS
a	03	13	29	10.1	51.164	N	176.800	W	33	N	5.4 5.6	0.9	242	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.6 (PMR), Ms 5.7 (BRK). Felt (IV) on Adak. Also felt on Atka.
	03	13	44	55.0	51.112	N	176.706	W	33	N	4.7	1.2	35	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.1 (PMR). Felt on Adak.
	03	14	32	01.6•	20.099	S	178.289	W	566	•	4.3	1.0	20	FIJI ISLANDS REGION
	03	16	02	36.2•	11.514	S	118.601	E	33	N	4.7	0.8	7	SOUTH OF SUMBAWA ISLAND
	03	16	15	30.8&	40.437	N	125.317	W	5	G	4.0		27	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.9 (BRK).
	03	16	37	22.7•	39.081	N	27.034	E	10	G		0.5	5	TURKEY
	03	17	45	12.0•	5.556	N	127.057	E	168	?	4.3	1.0	13	PHILIPPINE ISLANDS REGION
	03	18	52	43.0?	33.03	S	72.05	W	10	G		0.2	6	OFF COAST OF CENTRAL CHILE
	03	20	08	20.7	51.092	N	176.707	W	33	N	4.8 4.9	1.0	41	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.2 (PMR). Felt on Adak.
	03	20	48	36.6&	62.543	N	149.775	W	70				20	CENTRAL ALASKA. <AGS-P>.
	03	21	36	21.5•	51.147	N	176.688	W	33	N	4.7	0.9	16	ANDREANOF ISLANDS, ALEUTIAN IS.
	03	21	52	56.1•	7.203	S	129.318	E	160	?	4.7	1.3	19	BANDA SEA
	03	23	44	53.3	8.237	S	161.760	E	67	•	4.7	0.9	64	SOLOMON ISLANDS
	04	00	37	43.4•	4.160	S	152.646	E	49	•	4.6	1.2	19	NEW BRITAIN REGION
	04	01	32	20.5?	4.45	S	153.59	E	127	•	4.2	1.2	6	NEW IRELAND REGION
	04	03	41	41.9&	37.432	N	121.783	W	7				20	CENTRAL CALIFORNIA. <BRK>. ML 3.4 (BRK). Felt (IV) at San Jose and (III) at Santa Clara.
	04	04	48	36.5&	60.484	N	147.247	W	19				45	SOUTHERN ALASKA. <AGS-P>. ML 3.6 (PMR).
	04	05	33	28.8	40.947	N	19.833	E	10	G		1.2	13	ALBANIA. ML 2.5 (TTG).
	04	06	24	48.7•	3.941	N	125.942	E	33	N	5.1	1.2	22	TALAUD ISLANDS
	04	07	47	04.6?	15.03	N	93.07	E	33	N	4.3	0.3	6	BAY OF BENGAL
	04	08	13	09.4	30.198	S	68.974	W	10	G		1.1	10	SAN JUAN PROVINCE, ARGENTINA
	04	09	54	01.3	11.881	S	117.183	E	33	N	5.1	1.2	17	SOUTH OF SUMBAWA ISLAND
	04	10	48	11.9	42.261	N	144.585	E	34		5.0 5.0	1.1	86	HOKKAIDO, JAPAN REGION. Felt (III JMA) at Kushiro; (I JMA) at Nemuro and Urakawa.
	04	10	55	56.5	40.420	N	27.686	E	10	G		0.9	15	TURKEY
	04	11	12	57.3•	11.002	S	34.484	E	10	G	4.6	1.4	9	MALAWI
	04	12	31	06.4	37.521	N	118.415	W	5	G		0.5	10	CALIFORNIA-NEVADA BORDER REGION. ML 3.3 (NEIS).
	04	12	35	46.1	39.364	N	27.402	E	10	G		0.8	7	TURKEY
	04	13	28	32.5•	51.600	N	159.433	E	33	N	4.9	0.9	46	OFF EAST COAST OF KAMCHATKA
a	04	13	54	07.1	2.370	S	138.893	E	48	•	5.1 5.2	1.1	58	WEST IRIAN
	04	16	31	46.5•	9.970	S	28.492	E	10	G		0.9	6	ZAIRE REPUBLIC. MG 3.4 (BUL).
	04	17	58	13.1?	43.05	N	1.09	W	10	G		0.3	6	PYRENEES
	04	18	05	42.5	45.707	N	2.920	E	10	G		1.0	13	FRANCE. ML 2.7 (LDG).
	04	18	07	46.6?	29.85	S	177.96	W	33	N	4.9	1.2	9	KERMADEC ISLANDS
	04	19	32	35.1&	60.486	N	151.967	W	84				31	KENAI PENINSULA, ALASKA. <AGS-P>.
a	04	22	34	37.8	46.331	N	153.182	E	33	N	5.5 5.1	0.8	236	KURIL ISLANDS
	04	23	09	26.3•	44.162	N	12.578	E	10	G		1.1	11	NORTHERN ITALY. ML 3.1 (LDG), 2.7 (KBA).
	04	23	18	45.4%	37.120	N	5.306	W	10	G		0.3	5	SPAIN. MG 3.0 (MDD).
	04	23	42	36.1	44.065	N	11.557	E	10	G		0.6	9	NORTHERN ITALY. ML 3.1 (KBA).
	05	00	17	33.0?	51.22	N	176.21	W	33	N		0.7	9	ANDREANOF ISLANDS, ALEUTIAN IS.
	05	01	00	41.7	37.476	N	118.306	W	5	G		0.7	12	CALIFORNIA-NEVADA BORDER REGION. ML 3.3 (NEIS).
	05	02	32	07.8	37.446	N	118.288	W	5	G		0.8	20	CALIFORNIA-NEVADA BORDER REGION. ML 3.5 (BRK).
	05	02	35	23.4%	16.360	N	61.813	W	10	G		0.5	5	LEEWARD ISLANDS. ML 1.5 (FDF).
	05	02	35	56.0	37.493	N	118.390	W	5	G		0.4	11	CALIFORNIA-NEVADA BORDER REGION. ML 3.3 (NEIS).
	05	04	38	33.0?	42.39	N	19.89	E	10	G		0.3	4	YUGOSLAVIA. ML 1.9 (TTG).
	05	04	50	31.3?	24.31	S	177.16	W	33	N	4.5	1.5	8	SOUTH OF FIJI ISLANDS
	05	04	56	32.4•	53.374	N	164.371	W	33	N	4.5	1.0	8	UNIMAK ISLAND REGION. ML 4.3 (PMR).
	05	05	20	31.4?	76.36	N	146.51	E	10	G	4.7	1.2	18	NEW SIBERIAN ISLANDS
	05	06	11	56.1	42.352	N	19.968	E	10	G		1.3	6	YUGOSLAVIA. ML 1.9 (TTG).
	05	07	56	05.8•	39.017	N	27.832	E	10	G		1.3	6	TURKEY
	05	08	01	35.6&	59.781	N	153.319	W	112				36	SOUTHERN ALASKA. <AGS-P>.
	05	08	35	20.4•	32.880	N	117.610	W	10	G		1.5	8	CALIFORNIA-MEXICO BORDER REGION. MD 3.0 (ECX).
	05	08	48	13.2•	52.929	N	166.713	W	33	N	4.6	1.0	9	FOX ISLANDS, ALEUTIAN ISLANDS
	05	09	12	02.6	42.340	N	20.028	E	10	G		0.4	10	YUGOSLAVIA. ML 2.4 (TTG).
	05	09	14	11.7	5.435	N	75.385	W	120		3.8	1.2	15	COLOMBIA. Felt at Chinchina and Manizales.
	05	10	50	51.5	37.397	N	20.395	E	10	G	4.6	1.4	42	IONIAN SEA. ML 4.3 (ATH), 4.0 (TTG).
a	05	11	15	31.4	24.197	S	177.168	W	33	N	5.3 5.0	1.0	55	SOUTH OF FIJI ISLANDS
	05	11	18	22.7	20.087	S	69.435	W	101		4.8	1.0	41	NORTHERN CHILE

	05	12	33	13.8•	4.196	S	152.699	E	65	•	4.5	1.3	6	NEW BRITAIN REGION
	05	13	12	43.8&	60.323	N	152.450	W	99				34	SOUTHERN ALASKA. <AGS-P>.
	05	13	47	42.3	5.896	S	146.643	E	115	•	4.1	1.3	15	EAST PAPUA NEW GUINEA REGION
	05	13	50	35.0	37.537	N	118.410	W	10	G		0.3	10	CALIFORNIA-NEVADA BORDER REGION. ML 3.0 (NEIS).
	05	14	08	40.9•	1.693	S	67.729	E	10	G	4.7	0.9	11	CARLSBERG RIDGE
	05	14	21	18.5•	1.628	S	67.711	E	10	G	4.8	1.1	18	CARLSBERG RIDGE
	05	14	48	41.1	54.852	S	1.081	W	10	G	5.1	1.0	21	BOUVET ISLAND REGION
	05	15	46	12.0	18.798	S	179.227	W	683		4.8	1.2	100	FIJI ISLANDS REGION
	05	15	58	18.7•	1.708	S	67.708	E	10	G	5.0	1.1	24	CARLSBERG RIDGE
	05	16	02	56.3?	36.27	S	70.41	W	33	N		1.1	7	CHILE-ARGENTINA BORDER REGION
	05	16	12	20.7	1.250	S	150.385	E	30		4.9	0.8	23	NEW IRELAND REGION
	05	17	32	25.3•	5.742	S	141.908	E	33	N	3.0	1.4	6	PAPUA NEW GUINEA
	05	17	40	02.2	16.894	N	93.588	W	139		5.0	1.0	81	CHIAPAS, MEXICO
	05	17	47	54.0	1.427	S	67.676	E	10	G	5.0	0.9	29	CARLSBERG RIDGE
	05	18	26	50.5	7.191	S	129.232	E	126		5.3	1.1	98	BANDA SEA
	05	18	52	36.0	6.063	S	152.691	E	42		5.1	1.0	26	NEW BRITAIN REGION
a	05	19	17	11.8	24.069	S	177.306	W	33	N	5.1 5.0	1.1	22	SOUTH OF FIJI ISLANDS
	05	19	58	40.5	37.197	N	37.257	E	10	G	4.6	1.1	60	TURKEY
	05	20	28	41.3•	42.170	N	145.142	E	33	N	4.2	1.2	5	HOKKAIDO, JAPAN REGION. Felt (I JMA) at Kushiro.
	05	20	30	50.7•	0.922	N	100.087	E	66	?	4.6	1.5	7	NORTHERN SUMATERA
a	05	20	59	25.0	53.027	N	153.306	E	512	D	4.7	0.7	168	SEA OF OKHOTSK
	05	22	10	33.7?	16.81	S	69.68	W	191	?	4.7	0.5	7	PERU-BOLIVIA BORDER REGION
	05	23	27	44.3&	61.783	N	151.968	W	116				28	SOUTHERN ALASKA. <AGS-P>.
	06	00	11	12.5	34.305	S	70.545	W	10	G		0.2	7	CHILE-ARGENTINA BORDER REGION
	06	00	14	33.6•	32.753	S	178.934	W	33	N	5.4	1.4	22	SOUTH OF KERMADEC ISLANDS
	06	01	37	49.0&	60.676	N	147.091	W	15				35	SOUTHERN ALASKA. <AGS-P>.
	06	01	49	12.4•	8.081	S	119.882	E	211	•	4.5	1.4	14	FLORES ISLAND REGION
	06	05	29	31.5	42.329	N	19.969	E	10	G		0.4	7	YUGOSLAVIA. ML 2.1 (TTG).
	06	08	25	33.8&	60.112	N	153.467	W	150				23	SOUTHERN ALASKA. <AGS-P>.
	06	09	09	39.3	37.570	N	118.422	W	10	G		0.7	12	CALIFORNIA-NEVADA BORDER REGION. ML 3.0 (NEIS).
a	06	09	54	52.6	23.763	S	179.930	E	545	D	5.1	1.1	102	SOUTH OF FIJI ISLANDS
	06	11	19	36.0&	46.370	N	75.220	W	18	G			14	SOUTHERN QUEBEC. <OTT-P>. mbLg 3.5 (OTT). Felt at Maniwaki and Mont Laurier.
	06	12	18	31.4%	42.774	N	19.157	E	10	G		0.5	6	YUGOSLAVIA. ML 2.3 (TTG).
	06	12	26	17.3•	39.203	N	27.830	E	10	G		0.4	5	TURKEY
	06	12	41	17.2&	61.976	N	148.188	W	38				34	SOUTHERN ALASKA. <AGS-P>.
	06	13	03	01.9	0.105	S	125.746	E	70	•	4.6	1.4	34	MOLUCCA SEA
	06	13	34	09.3?	51.20	N	179.39	E	33	N	4.6	1.1	12	RAT ISLANDS, ALEUTIAN ISLANDS
a	06	13	56	05.7?	55.29	S	128.98	W	10	G	4.8 5.5	1.5	15	SOUTH PACIFIC CORDILLERA
	06	14	00	57.8	47.089	N	146.349	E	354	•	4.2	0.7	21	NORTHWEST OF KURIL ISLANDS
	06	14	44	34.1	36.333	N	120.941	W	10	G		0.5	10	CENTRAL CALIFORNIA. ML 2.7 (BRK).
	06	15	57	00.9?	2.15	S	143.30	E	134	?	3.7	1.4	7	PAPUA NEW GUINEA REGION
	06	17	01	26.1?	31.69	S	69.04	W	10	G		1.2	6	SAN JUAN PROVINCE, ARGENTINA
	06	18	07	19.4&	61.469	N	152.072	W	105				28	SOUTHERN ALASKA. <AGS-P>.
	06	18	35	56.9•	6.995	S	155.202	E	33	N	3.8	1.1	5	SOLOMON ISLANDS
	06	19	06	55.8•	44.243	N	28.415	W	10	G	4.5	1.2	20	NORTH ATLANTIC RIDGE
	06	19	32	47.1•	28.375	S	68.599	W	128	?	4.4	1.2	11	LA RIOJA PROVINCE, ARGENTINA
a	06	19	55	15.6	29.344	N	100.915	E	34		5.5 5.0	1.0	196	SICHUAN PROVINCE, CHINA
	06	21	58	49.8	42.322	N	20.036	E	10	G		1.1	7	YUGOSLAVIA. ML 2.1 (TTG).
	06	22	56	55.4	50.071	N	17.166	E	11			1.1	11	POLAND. ML 3.7 (VKA), 3.4 (KBA).
	06	23	11	43.8&	61.755	N	151.978	W	110				29	SOUTHERN ALASKA. <AGS-P>.
	07	00	30	09.2%	33.862	S	71.373	W	33	N		0.3	9	NEAR COAST OF CENTRAL CHILE
	07	00	54	19.1•	4.972	N	127.435	E	137	?	4.5	1.3	15	TALAUD ISLANDS
	07	01	08	26.9•	6.031	S	130.152	E	92	?	4.3	1.5	10	BANDA SEA
	07	01	27	33.0•	14.479	N	93.091	W	33	N	4.5 3.4	1.2	28	NEAR COAST OF CHIAPAS, MEXICO
a	07	02	51	28.9	18.010	S	178.403	W	595		5.0	0.9	139	FIJI ISLANDS REGION
	07	03	11	51.1?	34.00	S	71.82	W	33	N		0.8	9	NEAR COAST OF CENTRAL CHILE
	07	03	32	21.8	36.649	N	121.300	W	10	G		0.5	11	CENTRAL CALIFORNIA. ML 2.5 (BRK).
	07	04	20	02.4%	45.455	N	27.045	E	10	G		1.2	8	ROMANIA
	07	05	27	42.2	31.083	S	67.341	W	10			1.1	17	SAN JUAN PROVINCE, ARGENTINA
	07	05	51	40.6	37.610	N	118.432	W	10	G		1.0	11	CALIFORNIA-NEVADA BORDER REGION. ML 3.3 (NEIS).
	07	06	15	07.4•	49.378	N	128.726	W	10	G	4.1	0.8	13	VANCOUVER ISLAND REGION
	07	06	49	06.5•	30.580	S	178.009	W	33	N	5.3	1.0	18	KERMADEC ISLANDS
	07	09	07	44.6&	61.207	N	151.718	W	85				30	SOUTHERN ALASKA. <AGS-P>.
	07	09	50	30.2%	45.648	N	27.191	E	10	G		1.2	6	ROMANIA
	07	10	18	49.5%	45.470	N	27.014	E	10	G		1.1	6	ROMANIA
	07	10	32	02.8%	40.664	N	29.653	E	10	G		0.2	7	TURKEY
	07	10	53	29.9•	16.099	N	62.184	W	133	•	4.6	1.2	17	LEEWARD ISLANDS. Felt (II) on Guodeloupe.
	07	11	00	57.0•	12.696	S	77.023	W	10	G		1.4	5	NEAR COAST OF PERU. Felt (II) at Limo.
	07	12	05	35.8%	33.463	S	71.990	W	10	G		0.5	9	NEAR COAST OF CENTRAL CHILE
a	07	12	10	19.0	11.709	N	95.297	E	33	N	5.2	1.1	76	ANDAMAN ISLANDS REGION
	07	12	19	17.6%	33.445	S	71.987	W	10	G		0.3	9	NEAR COAST OF CENTRAL CHILE
	07	16	04	09.5•	44.613	N	4.579	E	10	G		1.4	9	FRANCE. ML 2.8 (LDG).
	07	16	19	37.6?	15.85	N	94.79	W	33	N	4.4	1.2	7	NEAR COAST OF OAXACA, MEXICO
	07	17	20	02.8?	34.14	S	72.59	W	10	G		0.5	7	NEAR COAST OF CENTRAL CHILE
	07	17	45	24.5	44.507	N	3.669	E	10	G		0.8	15	FRANCE. ML 2.9 (LDG).
	07	18	19	09.8	34.615	N	80.290	E	33	N	4.8	1.0	41	TIBET
	07	18	20	35.6	34.662	N	80.254	E	33	N	4.8	0.7	20	TIBET
	07	18	30	13.6	39.362	N	27.445	E	10	G		0.9	7	TURKEY
a	07	22	32	50.4	7.433	N	81.241	W	8		5.4 5.4	1.4	155	PANAMA. Felt (V) in the Gulf of Parita area and (IV) at David. Felt at Panama City.
	07	22	54	07.4	7.259	N	81.345	W	10	G	4.9	1.2	35	PANAMA
	07	23	12	10.3	51.839	N	178.268	W	92	D	4.5	0.8	30	ANDREANOF ISLANDS, ALEUTIAN IS.
	08	00	18	39.0•	11.791	S	117.275	E	33	N	4.6	1.4	17	SOUTH OF SUMBAWA ISLAND
	08	00	46	28.0%	43.140	N	18.640	E	10	G		0.8	5	YUGOSLAVIA. ML 2.3 (TTG).
	08	01	10	41.6&	60.179	N	151.473	W	71				26	KENAI PENINSULA, ALASKA. <AGS-P>.
	08	01	46	15.5	30.325	S	70.551	W	33	N		0.8	14	CHILE-ARGENTINA BORDER REGION
	08	01	51	16.1	40.699	N	29.863	E	10	G		0.9	9	TURKEY
	08	02	49	19.6	45.840	N	6.388	E	10	G		1.1	18	FRANCE. ML 2.8 (LDG).
	08	03	07	10.3?	39.76	N	30.55	E	10	G		1.6	7	TURKEY
	08	03	08	56.0	14.964	S	167.281	E	156		5.0	1.1	67	VANUATU ISLANDS
	08	03	46	41.9	36.746	N	25.752	E	56	•	4.1	1.5	27	DODECANESE ISLANDS
	08	04	13	19.9•	36.850	N	25.127	E	10	G		1.0	6	DODECANESE ISLANDS. ML 3.7 (ATH).

	08	04	31	21.3	53.594	N	167.320	W	33	N	4.5	4.3	1.1	46	FOX ISLANDS, ALEUTIAN ISLANDS. ML 5.0 (PMR). Felt on Unalaska.
	08	05	40	35.3&	59.956	N	153.369	W	114					22	SOUTHERN ALASKA. <AGS-P>.
	08	05	48	25.9	21.774	S	68.480	W	33	N			0.8	7	CHILE-BOLIVIA BORDER REGION
	08	06	15	37.2*	27.330	S	68.632	W	179	?			1.0	12	CHILE-ARGENTINA BORDER REGION
	08	06	41	38.0%	46.556	N	1.153	E	10	G			1.2	13	FRANCE. ML 2.6 (LDG).
	08	08	31	24.9	27.291	N	57.833	E	33	N	5.0		1.1	73	SOUTHERN IRAN
	08	13	40	15.9	36.294	N	139.999	E	91		4.5		0.8	21	HONSHU, JAPAN. Felt (III JMA) at Utsunomiya; (II JMA) at Mito; (I JMA) at Kumagaya, Onahama and on Oshima.
	08	13	41	22.7?	56.45	N	153.31	W	33	N	4.3		0.7	8	KODIAK ISLAND REGION. ML 3.5 (PMR).
	08	14	04	16.9	42.346	N	19.961	E	10	G			0.3	10	YUGOSLAVIA. ML 2.2 (TTG).
	08	14	06	09.1*	39.596	N	119.741	W	5	G			0.3	5	NEVADA. ML 2.7 (NEIS). Felt in the Reno-Sparks area.
	08	14	30	38.3	37.653	N	118.363	W	5	G			0.9	12	CALIFORNIA-NEVADA BORDER REGION. ML 3.1 (NEIS).
a	08	16	18	58.1*	7.850	N	59.548	E	10	G	4.9	4.8	1.1	39	CARLSBERG RIDGE
	08	16	59	19.2*	6.365	S	147.223	E	33	N	3.1		1.5	6	EAST PAPUA NEW GUINEA REGION
	08	17	06	38.1	60.827	N	7.080	E	10	G			0.9	9	SOUTHERN NORWAY. MD 2.8 (BER). Felt.
	08	17	31	34.6&	40.823	N	123.608	W	5	G				11	NORTHERN CALIFORNIA. <BRK>. ML 3.2 (BRK). Double event about 4 seconds apart. Felt at Eureka.
	08	18	51	43.5	37.954	N	37.699	E	10	G	4.6		1.1	80	TURKEY
	08	19	24	35.4	7.449	S	128.355	E	161		5.2		1.0	66	BANDA SEA
	08	19	47	44.4?	51.78	N	16.65	E	10	G			0.6	7	POLAND. ML 2.8 (KBA).
	08	19	51	36.2?	43.32	N	0.75	W	5	G			1.2	8	PYRENEES. ML 2.8 (LDG).
	08	20	10	49.2	45.696	N	27.216	E	10	G			1.2	8	ROMANIA
	08	20	15	34.9*	18.868	S	169.150	E	217		4.5		1.2	31	VANUATU ISLANDS
	08	21	12	11.5*	19.087	N	121.376	E	33	N	3.9		1.1	11	PHILIPPINE ISLANDS REGION. Felt (I RF) at Pasuquin.
	08	21	26	09.8?	4.66	S	143.79	E	104	?	3.8		0.4	6	PAPUA NEW GUINEA
	08	21	43	49.5?	50.32	N	173.54	W	33	N	4.7		0.6	8	ANDREANOF ISLANDS, ALEUTIAN IS.
	08	23	57	30.8	22.252	S	170.070	E	35	•	5.0		1.3	39	LOYALTY ISLANDS REGION
	09	00	25	53.9	7.288	N	81.340	W	10	G	4.5	4.2	1.2	29	PANAMA
	09	00	52	30.0&	32.600	N	117.250	W	6	G				13	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.6 (PAS). Felt (III) at Spring Valley and (II) at San Diego. Also felt at Point Loma, Imperial Beach and Pacific Beach.
o	09	00	53	12.6	14.099	N	120.335	E	80		5.5		0.9	204	LUZON, PHILIPPINE ISLANDS. Felt (III) at Puerto Galera, Mindoro. Also felt in the Manila area.
	09	01	31	09.9	0.559	N	121.195	E	100	?	4.6		1.0	10	MINAHASSA PENINSULA
	09	02	49	06.2	6.307	S	130.429	E	164	•	4.6		1.3	20	BANDA SEA
	09	03	22	51.2*	6.532	S	130.250	E	163	?	4.1		1.6	6	BANDA SEA
	09	04	28	37.1&	60.716	N	151.672	W	70					36	KENAI PENINSULA, ALASKA. <AGS-P>.
	09	04	46	02.0*	26.889	S	176.258	W	33	N	4.7		1.2	15	SOUTH OF FIJI ISLANDS
	09	04	51	16.4	43.342	N	3.710	E	12				0.6	15	NEAR SOUTH COAST OF FRANCE. ML 2.6 (LDG).
	09	06	37	24.0	26.748	N	54.969	E	33	N	5.1	4.4	1.0	154	SOUTHERN IRAN
	09	08	12	43.0	23.590	S	69.539	W	118	•			0.7	13	NORTHERN CHILE
	09	09	20	12.9*	31.440	S	68.925	W	104	•			0.9	8	SAN JUAN PROVINCE, ARGENTINA
	09	09	40	48.0*	31.211	S	72.534	W	33	N	4.6		0.9	18	OFF COAST OF CENTRAL CHILE
	09	11	14	27.4	39.087	N	27.619	E	10	G			0.2	6	TURKEY
	09	11	26	14.1*	39.211	N	27.864	E	10	G			0.4	5	TURKEY
	09	12	13	07.5?	13.60	N	92.33	W	33	N	3.8		0.7	9	OFF COAST OF CHIAPAS, MEXICO
	09	13	20	44.9	37.594	N	118.328	W	10	G			0.4	13	CALIFORNIA-NEVADA BORDER REGION. ML 3.0 (NEIS).
	09	14	26	25.2?	53.51	N	161.63	W	33	N	4.7		1.6	10	SOUTH OF ALASKA
	09	15	11	36.5*	32.712	S	71.293	W	33	N			0.6	10	NEAR COAST OF CENTRAL CHILE
	09	15	13	53.1?	32.78	S	71.35	W	27	•			1.3	10	NEAR COAST OF CENTRAL CHILE
	09	15	42	59.7*	28.393	N	140.720	E	24	•	5.0		1.4	27	BONIN ISLANDS REGION
	09	16	57	38.7*	51.331	N	174.738	W	33	N	4.3		0.7	7	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.0 (PMR).
	09	17	47	14.6	63.400	N	147.315	W	92	?			0.4	9	CENTRAL ALASKA
	09	20	03	00.5*	9.568	S	123.338	E	33	N	4.6		1.4	18	TIMOR
	09	20	21	44.1*	7.458	S	154.689	E	33	N	4.9		1.3	14	SOLOMON ISLANDS
	09	22	47	10.1*	32.009	S	71.290	W	33	N			0.4	10	NEAR COAST OF CENTRAL CHILE
	10	00	26	37.4*	9.163	S	113.260	E	105	?	3.8		0.5	6	SOUTH OF JAVA
	10	00	31	37.1	14.789	S	66.556	E	10	G	4.9		0.7	50	MID-INDIAN RISE
	10	01	47	19.1*	3.819	S	131.219	E	33	N	4.1		1.5	16	WEST IRIAN REGION
	10	02	27	38.5*	16.485	S	28.433	E	10	G			1.1	5	ZAMBIA. MG 3.3 (BUL).
	10	03	48	53.4*	31.797	S	68.207	W	124	•			0.9	13	SAN JUAN PROVINCE, ARGENTINA
f	10	04	40	49.7	1.985	N	128.271	E	104	G	6.1		1.1	335	HALMAHERA. Depth from broadband displacement seismograms.
	10	05	01	02.7?	60.00	N	5.38	E	10	G			0.2	4	SOUTHERN NORWAY. MD 1.7 (BER).
	10	05	39	48.2	36.854	N	77.230	E	33	N	4.9		0.8	16	KASHMIR-XINJIANG BORDER REGION
	10	05	42	08.2	7.563	S	154.803	E	33	N	5.2		0.9	70	SOLOMON ISLANDS
	10	06	24	22.0%	43.564	N	7.801	E	10	G			0.2	5	NEAR SOUTH COAST OF FRANCE. ML 2.4 (LDG).
	10	08	25	03.0	28.702	S	67.419	W	149	•			0.7	10	LA RIOJA PROVINCE, ARGENTINA
	10	08	50	39.7	40.664	N	140.722	E	20		5.0		1.0	70	HONSHU, JAPAN. Felt (III JMA) at Aomori.
	10	11	08	12.6*	3.032	S	101.847	E	118	•	4.5		1.0	9	SOUTHERN SUMATERA
	10	11	15	08.9*	50.222	N	17.136	E	10	G			0.9	9	POLAND. ML 3.5 (VKA), 3.3 (KBA).
	10	11	58	40.3*	46.445	N	13.096	E	10	G			1.1	6	AUSTRIA. ML 2.6 (KBA), 2.6 (TRI).
	10	13	38	13.4	41.222	N	7.089	W	12				1.0	17	PORTUGAL. MG 3.8 (MDD). Felt (III) in the Torre de Moncorvo area.
	10	13	57	26.2	41.193	N	7.025	W	10	G			1.1	17	PORTUGAL. MG 3.4 (MDD). Felt (III) in the Torre de Moncorvo area.
	10	14	13	53.6	33.363	N	140.885	E	62	•	5.1		0.9	35	SOUTH OF HONSHU, JAPAN. Felt (II JMA) on Hachijo-jima.
	10	14	46	30.5?	29.16	S	71.52	W	33	N			1.2	5	NEAR COAST OF CENTRAL CHILE
	10	15	11	50.4	41.233	N	7.081	W	10	G			1.0	36	PORTUGAL. MG 4.3 (MDD). Felt (IV) in the Torre de Moncorvo area.
	10	15	31	41.7?	10.71	S	118.90	E	33	N	2.8		1.6	7	SOUTH OF SUMBAWA ISLAND
	10	17	20	53.1?	18.50	N	145.55	E	187	?	4.2		0.4	8	MARIANA ISLANDS
	10	17	47	55.7	38.537	N	43.436	E	43	•	4.7	3.8	1.0	79	TURKEY. Felt in the Van area.
	10	18	08	07.3*	50.463	N	19.001	E	0	G			1.5	7	POLAND. ML 3.1 (KBA). Probable explosion.
	10	19	07	56.3&	60.092	N	152.732	W	96					38	SOUTHERN ALASKA. <AGS-P>.
	10	19	20	00.5?	18.64	S	167.47	E	107	?	4.4		0.5	10	VANUATU ISLANDS
	10	20	42	29.6*	7.333	N	81.254	W	45	•	4.7		1.1	15	PANAMA
	10	21	13	19.3	3.589	S	131.217	E	33	N	4.6		1.5	28	WEST IRIAN REGION
	11	00	50	12.2	43.229	N	20.866	E	10	G			1.4	12	YUGOSLAVIA. ML 2.1 (TTG).
	11	01	25	22.8	36.198	N	26.804	E	126		4.2		0.9	58	DODECANESE ISLANDS
	11	02	29	23.0?	27.55	N	101.17	E	33	N	4.5		1.9	7	SICHUAN PROVINCE, CHINA
	11	02	44	48.8%	40.168	N	28.850	E	10	G			0.6	7	TURKEY

	11	02	50	37.1	18.309	S	168.156	E	23	D	4.7		1.4	62	VANUATU ISLANDS
	11	03	56	10.0*	4.537	S	153.242	E	33	N	4.6		1.1	11	NEW IRELAND REGION
	11	04	14	37.3?	4.15	S	131.05	E	33	N	3.3		0.7	6	BANDA SEA
	11	04	59	10.2*	26.922	S	26.568	E	5	G	4.9		1.4	13	REPUBLIC OF SOUTH AFRICA
	11	05	02	34.4*	18.431	S	69.363	W	128	*			0.8	8	NORTHERN CHILE
	11	05	14	43.9?	48.17	N	114.64	W	5	G			0.3	5	MONTANA. ML 3.1 (BUT).
	11	06	31	12.3*	14.959	N	147.172	E	33	N			0.5	9	MARIANA ISLANDS REGION
a	11	06	58	05.0	14.745	S	66.477	E	10	G	5.2	5.0	0.8	78	MID-INDIAN RISE
a	11	08	05	56.8	22.265	N	121.647	E	124	D	5.5		1.0	249	TAIWAN REGION
	11	09	35	48.4?	20.10	N	121.46	E	33	N	5.0		0.9	61	PHILIPPINE ISLANDS REGION
a	11	10	37	59.1	20.101	N	121.312	E	33	N	5.4	5.0	1.3	186	PHILIPPINE ISLANDS REGION
	11	10	42	52.5	31.215	S	68.685	W	119	*			1.0	16	SAN JUAN PROVINCE, ARGENTINA
	11	11	05	14.4*	21.859	S	68.640	W	148	*			1.4	11	CHILE-BOLIVIA BORDER REGION
	11	11	24	46.2*	37.476	N	20.167	E	10	G	4.2		1.1	8	IONIAN SEA. ML 4.0 (ATH).
	11	12	01	51.2?	20.21	S	68.94	W	33	N			1.3	5	CHILE-BOLIVIA BORDER REGION
	11	12	18	58.1%	42.687	N	19.089	E	10	G			0.1	5	YUGOSLAVIA. ML 1.8 (TTG).
	11	13	34	54.0&	60.399	N	153.354	W	148					26	SOUTHERN ALASKA. <AGS-P>.
	11	13	51	29.0*	41.836	N	19.389	E	10	G			1.0	5	ALBANIA. ML 2.0 (TTG).
	11	17	00	57.1	2.006	N	127.192	E	123		5.5		1.2	68	MOLUCCA PASSAGE
	11	18	00	57.9*	9.167	S	120.157	E	80	?	4.8		1.7	20	SUMBA ISLAND REGION
	11	19	34	47.3&	62.048	N	151.308	W	81					23	CENTRAL ALASKA. <AGS-P>.
a	11	19	43	13.1	0.075	S	17.852	W	10	G	5.0	4.6	0.8	83	NORTH OF ASCENSION ISLAND
	11	19	58	42.8	27.481	N	101.301	E	43	*	4.8	4.5	1.3	30	SICHUAN PROVINCE, CHINA
	11	20	13	40.1?	19.45	S	177.51	W	447	?	4.7		0.5	10	FIJI ISLANDS REGION
	11	20	23	18.0%	38.903	N	27.441	E	10	G			1.1	6	TURKEY
	11	21	48	00.4*	30.355	N	53.144	E	33	N	4.3		1.0	7	IRAN
a	11	22	06	43.2	30.923	S	67.685	W	5	G	5.4	4.9	1.2	114	SAN JUAN PROVINCE, ARGENTINA. Felt (IV) in San Juan Province.
	11	22	49	18.8?	41.16	N	15.41	E	218	*	3.9		1.2	18	SOUTHERN ITALY
	11	23	22	37.6&	60.575	N	150.617	W	43					33	KENAI PENINSULA, ALASKA. <AGS-P>.
	11	23	34	06.5*	4.697	S	101.984	E	53	*	4.7		1.0	29	SOUTHERN SUMATERA
	11	23	50	45.4	11.154	S	74.334	W	33	N	4.4		0.9	15	PERU
	12	00	56	51.6	37.224	N	141.891	E	40	*	4.6		1.0	25	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Fukushima and Sendai.
a	12	00	59	28.9*	23.987	S	177.199	W	33	N	5.1	5.1	1.5	29	SOUTH OF FIJI ISLANDS
	12	01	38	09.4*	32.225	S	69.439	W	118	*	4.3		0.7	13	MENDOZA PROVINCE, ARGENTINA
	12	03	17	07.9*	20.932	S	68.279	W	148	?			0.3	7	CHILE-BOLIVIA BORDER REGION
a	12	04	07	16.7	5.967	N	82.591	W	10	G	5.4	5.1	1.2	122	SOUTH OF PANAMA. Ms 5.1 (BRK). Felt in Panama.
	12	04	08	05.4?	11.42	S	166.00	E	70	?	4.5		1.7	14	SANTA CRUZ ISLANDS
	12	04	08	43.3&	61.811	N	151.608	W	83					19	SOUTHERN ALASKA. <AGS-P>.
a	12	05	09	07.7	0.111	N	100.237	E	47	*	5.2	5.3	1.2	125	NORTHERN SUMATERA. Felt in southern Singapore.
	12	07	00	28.9	36.061	N	117.741	W	5	G			1.0	9	CALIFORNIA-NEVADA BORDER REGION. ML 3.6 (NEIS).
	12	08	18	42.9	7.403	N	81.395	W	10	G	4.4	3.6	1.4	28	PANAMA. Felt.
	12	08	34	19.0	30.673	S	71.392	W	33	N			0.9	13	NEAR COAST OF CENTRAL CHILE
	12	08	47	31.8*	59.313	N	6.962	E	10	G			1.2	7	SOUTHERN NORWAY. MD 2.2 (BER).
	12	09	29	48.0&	37.487	N	118.377	W	8					23	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.5 (BRK).
	12	10	34	10.3	7.736	N	81.481	W	10	G	4.5	3.8	1.2	20	PANAMA. Felt.
	12	10	45	51.7	27.684	N	101.268	E	10	G	5.0	4.6	1.3	90	SICHUAN PROVINCE, CHINA
	12	11	46	29.5	63.124	N	150.616	W	33	N			0.6	7	CENTRAL ALASKA. ML 3.4 (PMR).
	12	12	16	06.1*	39.101	N	27.593	E	10	G			0.5	5	TURKEY
	12	12	39	48.7	62.185	N	124.414	W	10	G	4.6		1.2	38	NORTHWEST TERRITORIES, CANADA
	12	15	10	03.6	44.573	N	9.575	E	31				0.9	19	NORTHERN ITALY. ML 3.2 (LDG), 2.8 (KBA).
	12	15	37	27.9&	37.503	N	118.477	W	4	G				27	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.5 (BRK).
	12	16	09	37.3	2.502	N	127.457	E	33	N	5.3		1.1	28	MOLUCCA PASSAGE
	12	16	54	54.8*	39.002	N	27.930	E	10	G			1.1	6	TURKEY
	12	17	51	38.3	39.782	N	27.720	E	10	G			1.5	11	TURKEY
	12	18	35	57.4%	60.717	N	5.614	E	10	G			0.8	5	SOUTHERN NORWAY. MD 1.9 (BER).
	12	19	42	22.7	38.877	N	27.597	E	10	G			1.3	7	TURKEY
	12	19	47	17.5&	61.882	N	151.011	W	65					25	SOUTHERN ALASKA. <AGS-P>.
	12	20	04	16.7	38.838	N	27.531	E	10	G			0.4	7	TURKEY
	12	21	06	02.9	32.532	S	69.760	W	121	?			0.8	15	MENDOZA PROVINCE, ARGENTINA
	12	21	38	56.0%	39.074	N	27.653	E	10	G			1.4	6	TURKEY
	12	23	01	46.7?	8.88	N	85.43	W	33	N	4.7		1.5	9	OFF COAST OF COSTA RICA. Felt in the Naranjo-Grecia-Alajuela area.
	12	23	46	33.7	5.810	N	82.639	W	10	G	4.3	3.9	1.2	18	SOUTH OF PANAMA
	13	00	29	01.3?	27.33	N	101.10	E	33	N	4.1		1.4	7	SICHUAN PROVINCE, CHINA
	13	02	17	21.8	34.981	N	26.853	E	62	*	4.0		1.3	32	CRETE
	13	02	31	58.9*	27.245	N	101.228	E	33	N	4.6		1.3	18	SICHUAN PROVINCE, CHINA
	13	02	42	55.6	38.814	N	106.996	W	5	G			0.5	12	COLORADO. ML 2.6 (NEIS). Felt at Crested Butte.
a	13	04	11	41.0	5.842	N	82.413	W	10	G	5.4	5.2	1.3	189	SOUTH OF PANAMA
	13	04	12	16.7?	35.87	S	178.01	E	186	*	5.1		1.1	8	OFF E. COAST OF N. ISLAND, N.Z.
	13	04	37	46.1	52.954	N	159.875	E	33	N	5.4	5.3	0.9	160	OFF EAST COAST OF KAMCHATKA
	13	04	55	18.4&	45.131	N	74.246	W	24					10	SOUTHERN ONTARIO. <PAL-P>. CL 3.4 (PAL), mbLg 3.3 (OTT). Felt (IV) at Huntingdan Coteau Station and Valleyfield. Also felt (IV) at Cornwall, Ontario. Felt at Hogansburg, Patsdam, Malone, Massena, Moira, Trout River and Westville, New York.
	13	05	06	30.9&	45.129	N	74.233	W	18					4	SOUTHERN ONTARIO. <PAL-P>. CL 2.4 (PAL).
	13	05	29	03.5*	23.750	S	66.269	W	33	N			1.5	8	JUJUY PROVINCE, ARGENTINA
	13	07	01	08.9?	18.77	N	108.84	W	10	G	3.8		1.4	11	REVILLA GIGEDO ISLANDS REGION
	13	08	18	10.9*	30.567	S	67.003	W	33	N			1.3	11	SAN JUAN PROVINCE, ARGENTINA
	13	08	38	21.4?	5.83	S	147.10	E	173	?	4.5		1.2	8	EAST PAPUA NEW GUINEA REGION
	13	09	08	47.7	39.246	N	27.697	E	10	G			1.0	7	TURKEY
	13	10	29	24.7&	45.127	N	74.244	W	23					3	SOUTHERN ONTARIO. <PAL-P>. CL 2.3 (PAL).
	13	11	16	55.5	37.754	N	20.488	E	38	*	4.6		1.0	51	IONIAN SEA. ML 4.5 (TTG), 3.9 (ATH).
	13	12	08	31.4*	38.858	N	107.035	W	5	G			0.6	10	COLORADO. ML 2.1 (NEIS).
	13	12	13	43.9	38.879	N	107.039	W	5	G			0.4	13	COLORADO. ML 2.4 (NEIS). Felt at Crested Butte and at Meridian Park about 4.5 miles north of Crested Butte.
	13	13	44	31.8&	59.575	N	152.971	W	89					17	SOUTHERN ALASKA. <AGS-P>.
a	13	15	27	21.8	7.691	N	74.713	W	60		5.0		1.2	178	NORTHERN COLOMBIA. Felt in the Armenia-Manizales-Pereira area.
	13	16	32	40.7*	27.005	S	71.912	W	33	N			1.3	7	NEAR COAST OF NORTHERN CHILE
	13	18	25	36.3*	4.349	S	142.292	E	121	*	4.9		1.1	20	PAPUA NEW GUINEA

	13	19	02	03.6	34.388	N	26.621	E	19	•	4.2		1.3	28	CRETE
	13	19	13	09.0	39.076	N	28.056	E	10	G			0.6	7	TURKEY
	13	21	09	57.3&	62.466	N	149.662	W	64					25	CENTRAL ALASKA. <AGS-P>.
	13	21	45	11.8	39.347	N	27.372	E	10	G			0.8	7	TURKEY
	13	23	29	38.2?	45.56	N	15.84	E	10	G			0.4	5	YUGOSLAVIA. MG 2.0 (ZAG).
	13	23	32	50.7•	16.194	N	98.224	W	33	N			0.5	6	NEAR COAST OF GUERRERO, MEXICO
	14	00	50	40.7&	40.352	N	124.353	W	19					18	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.4 (BRK). Felt (III) at Rio Dell. Also felt at Scotia.
	14	01	53	35.8•	23.603	S	177.204	W	33	N	4.7		0.8	21	SOUTH OF FIJI ISLANDS
	14	01	54	28.2&	59.559	N	153.258	W	97					25	SOUTHERN ALASKA. <AGS-P>.
	14	02	13	23.7?	53.91	N	164.49	W	33	N	4.6		1.6	11	UNIMAK ISLAND REGION
	14	02	43	28.8•	6.116	S	148.645	E	72	•	4.0		1.4	8	NEW BRITAIN REGION
	14	03	02	35.5•	31.053	S	67.716	W	33	N			1.4	9	SAN JUAN PROVINCE, ARGENTINA
	14	04	13	28.1&	59.502	N	149.771	W	43					40	KENAI PENINSULA, ALASKA. <AGS-P>.
	14	04	31	22.8&	37.502	N	118.403	W	7					22	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.3 (BRK).
	14	04	41	50.9?	20.48	S	177.88	W	559	?	4.5		0.5	8	FIJI ISLANDS REGION
	14	05	45	13.1•	6.728	S	128.664	E	229	•	4.3		1.3	16	BANDA SEA
	14	05	58	16.1•	6.695	S	106.053	E	138	?	4.9		1.1	18	JAVA
	14	06	25	37.6•	13.161	N	145.046	E	49		4.6		0.5	13	MARIANA ISLANDS. Felt (III) on Guom.
	14	07	08	11.5	42.463	N	143.040	E	101		4.7		0.9	48	HOKKAIDO, JAPAN REGION. Felt (I JMA) at Urokawa.
	14	09	20	24.1?	24.56	S	177.71	W	33	N	4.8		0.4	6	SOUTH OF FIJI ISLANDS
	14	09	54	38.3	38.831	N	27.462	E	10	G			1.1	8	TURKEY
	14	10	12	38.5	43.607	N	0.359	W	10	G			1.1	12	PYRENEES. ML 2.5 (LDG).
	14	10	33	55.4?	34.27	S	72.28	W	33	N			0.3	10	NEAR COAST OF CENTRAL CHILE
	14	11	31	36.6?	15.97	N	60.65	W	33	N			0.5	6	LEEWARD ISLANDS. ML 3.1 (FDF).
	14	12	46	33.8?	38.83	N	27.52	E	10	G			0.7	4	TURKEY
	14	12	50	51.6•	30.036	S	177.243	W	33	N	5.2	4.7	1.3	36	KERMADEC ISLANDS
	14	13	03	02.0•	38.895	N	27.463	E	10	G			0.6	5	TURKEY
	14	13	42	35.4%	38.846	N	27.435	E	10	G			1.2	5	TURKEY
	14	14	08	47.2	37.865	N	28.804	E	10	G			0.8	6	TURKEY
	14	14	15	47.1	36.601	N	121.223	W	5	G			0.7	11	CENTRAL CALIFORNIA. ML 2.6 (BRK).
	14	14	28	52.1	51.676	N	175.180	W	33	N	4.8		0.9	27	ANDREANOF ISLANDS, ALEUTIAN IS.
	14	14	39	57.9?	59.43	N	6.62	E	10	G			1.4	5	SOUTHERN NORWAY. MD 2.3 (BER).
	14	15	08	45.2•	2.979	S	138.558	E	33	N	4.2		1.1	7	WEST IRIAN
	14	15	26	53.5	38.817	N	27.552	E	10	G			0.7	6	TURKEY
	14	16	00	08.8•	29.700	N	61.315	E	33	N	4.3		1.3	10	PAKISTAN
	14	16	11	26.2•	40.270	N	51.673	E	33	N	4.5		0.8	14	CASPIAN SEA
	14	17	39	25.9	38.908	N	107.082	W	5	G			0.4	13	COLORADO. ML 2.6 (NEIS). Felt at Crested Butte.
f	14	19	39	13.6	1.795	N	126.519	E	33	N	6.6	7.2	1.4	441	MOLUCCA PASSAGE. Ms 7.4 (BRK). Felt (IV) at Manado, Sulawesi and (II RF) at Cagayan de Oro, Mindanao.
	14	19	41	45.8%	14.977	N	60.410	W	33	N			0.4	7	WINDWARD ISLANDS. ML 2.5 (FDF).
	14	20	11	54.4	2.084	N	126.804	E	33	N	5.4		1.2	68	MOLUCCA PASSAGE
	14	20	15	29.3&	60.103	N	151.528	W	61					23	KENAI PENINSULA, ALASKA. <AGS-P>.
	14	20	29	26.4•	2.240	N	126.952	E	33	N	5.0		0.8	19	MOLUCCA PASSAGE
	14	20	48	08.4•	32.277	S	178.520	W	33	N	5.7		1.5	56	SOUTH OF KERMADEC ISLANDS
	14	21	02	56.1•	2.026	N	126.883	E	33	N	4.8		1.3	15	MOLUCCA PASSAGE
	14	21	05	20.8?	1.88	N	126.89	E	33	N	5.0		1.3	11	MOLUCCA PASSAGE
	14	21	08	02.2	1.881	N	126.506	E	33	N	4.9		1.2	32	MOLUCCA PASSAGE
	14	21	16	14.2	1.883	N	126.606	E	33	N	5.1		1.2	71	MOLUCCA PASSAGE
	14	21	54	02.9•	11.123	N	126.065	E	33	N	4.7		1.1	23	PHILIPPINE ISLANDS REGION
	14	22	10	55.0	21.724	S	70.050	W	50	•	4.6		1.3	22	NEAR COAST OF NORTHERN CHILE
	14	22	41	04.3•	1.883	N	126.750	E	33	N	5.0		1.2	28	MOLUCCA PASSAGE
	14	22	46	31.4	24.054	S	67.007	W	199	•	4.5		1.1	12	CHILE-ARGENTINA BORDER REGION
	14	22	55	07.2	2.127	N	126.993	E	33	N	5.6	5.9	1.1	171	MOLUCCA PASSAGE
	14	23	19	54.7	2.166	N	126.966	E	33	N	4.9		1.0	36	MOLUCCA PASSAGE
	14	23	25	34.7?	31.43	S	178.42	W	33	N	4.8		1.4	13	KERMADEC ISLANDS REGION
	14	23	53	24.0•	1.857	N	126.918	E	33	N	4.7		0.9	14	MOLUCCA PASSAGE
	15	00	31	38.1•	33.259	S	177.680	W	33	N	4.8		1.4	23	SOUTH OF KERMADEC ISLANDS
a	15	00	41	20.4	8.689	S	124.212	E	108	D	5.8		1.4	174	TIMOR
	15	01	17	11.0•	2.326	N	127.081	E	33	N	4.8		1.5	14	MOLUCCA PASSAGE
	15	01	20	52.5•	2.134	N	127.350	E	33	N	4.9		0.9	10	MOLUCCA PASSAGE
	15	02	10	17.9•	2.213	N	126.836	E	33	N	4.8		0.8	9	MOLUCCA PASSAGE
	15	06	09	43.4?	55.40	N	164.51	E	33	N	4.3		1.4	7	KOMANDORSKY ISLANDS REGION
	15	06	35	08.3	2.198	N	126.948	E	33	N	5.0	4.4	1.2	32	MOLUCCA PASSAGE
	15	07	13	13.4•	2.113	N	126.827	E	33	N	4.9		1.2	26	MOLUCCA PASSAGE
	15	07	34	35.1•	2.031	N	126.667	E	33	N	4.6		0.8	5	MOLUCCA PASSAGE
a	15	07	40	44.7	1.929	N	126.482	E	33	N	5.6	5.8	1.3	222	MOLUCCA PASSAGE
	15	08	45	18.4&	36.240	N	120.850	W	3					15	CENTRAL CALIFORNIA. <BRK>. ML 3.0 (BRK).
	15	10	43	40.9•	2.093	N	126.873	E	33	N	4.6		1.5	12	MOLUCCA PASSAGE
	15	10	49	41.9•	23.926	S	177.266	W	55	•	5.0		1.1	31	SOUTH OF FIJI ISLANDS
	15	11	02	26.6•	1.796	N	126.380	E	33	N	4.9		1.1	28	MOLUCCA PASSAGE
	15	11	48	14.3%	15.973	N	61.949	W	33	N			0.4	6	LEEWARD ISLANDS. ML 2.2 (FDF).
	15	12	11	36.1	47.703	N	6.314	E	10	G			1.1	13	FRANCE. ML 2.5 (LDG).
	15	12	14	11.2•	1.737	N	126.330	E	33	N	4.9		1.4	14	MOLUCCA PASSAGE
	15	13	09	46.0	32.940	N	117.813	W	10	G			0.9	9	CALIFORNIA-MEXICO BORDER REGION. ML 3.4 (NEIS).
	15	13	33	30.0?	34.08	S	72.19	W	33	N			0.7	8	NEAR COAST OF CENTRAL CHILE
	15	13	34	57.9?	4.21	N	124.61	E	346	?	4.2		0.3	8	CELEBES SEA
	15	14	40	07.3•	19.196	S	177.641	W	595	•	4.5		1.2	24	FIJI ISLANDS REGION
	15	14	53	45.9&	61.455	N	140.522	W	3					24	SOUTHERN YUKON TERRITORY, CANADA. <AGS-P>.
	15	15	31	23.3?	1.99	N	127.11	E	33	N	4.3		0.8	5	HALMAHERA
	15	16	20	17.5	1.982	N	126.605	E	33	N	5.1	4.8	1.5	67	MOLUCCA PASSAGE
	15	16	35	16.9•	24.005	S	177.282	W	72	•	5.1		1.0	26	SOUTH OF FIJI ISLANDS
	15	17	53	14.0•	48.240	N	126.464	E	33	N	4.3		1.4	12	NORTHEASTERN CHINA
	15	18	45	14.5	32.867	N	117.874	W	10	G			0.7	12	CALIFORNIA-MEXICO BORDER REGION. ML 3.8 (NEIS).
	15	19	09	16.4?	1.67	N	126.83	E	33	N	4.8		1.2	8	MOLUCCA PASSAGE
	15	19	49	03.3?	37.64	N	26.43	E	10	G			1.4	4	DODECANESE ISLANDS
a	15	20	20	37.3	48.638	N	126.621	E	33	N	5.0	5.1	0.8	127	NORTHEASTERN CHINA
	15	20	48	22.6	38.780	N	27.589	E	10	G			1.3	9	TURKEY
	15	21	13	27.7•	31.768	S	70.328	W	122	?			1.1	13	CHILE-ARGENTINA BORDER REGION
	15	21	23	51.5	43.215	N	26.043	E	10	G			1.5	8	BULGARIA
	15	23	31	28.5	23.447	S	69.165	W	114	•	4.5		1.4	18	NORTHERN CHILE
	15	23	34	58.3	23.263	S	179.083	E	553		5.0		1.1	131	SOUTH OF FIJI ISLANDS
	16	00	11	44.5	39.940	N	77.604	E	33	N	4.8		1.3	54	SOUTHERN XINJIANG, CHINA

	16	00	45	36.2*	17.634	S	27.613	E	5	G			1.5	6	ZIMBABWE. MG 3.8 (BUL).
	16	02	04	39.5?	1.94	N	127.07	E	33	N	4.7		0.9	7	HALMAHERA
	16	03	27	30.4?	14.31	N	92.99	W	33	N	3.8		1.0	10	NEAR COAST OF CHIAPAS, MEXICO
	16	04	16	32.3	39.511	N	26.144	E	10				1.0	10	TURKEY
	16	04	40	35.9	43.097	N	18.892	E	10	G			0.8	8	YUGOSLAVIA. ML 2.4 (TTG).
	16	06	08	11.2*	1.906	N	126.546	E	33	N	4.6		0.8	16	MOLUCCA PASSAGE
	16	06	41	25.2	45.594	N	26.335	E	157		4.7		1.1	126	ROMANIA. Felt (V) in the Vrancea area and (IV) at Bucharest. Also felt (V) in southern Moldavia and (IV) at Kishinev, USSR.
	16	09	48	56.1	37.480	N	118.311	W	5	G			0.8	15	CALIFORNIA-NEVADA BORDER REGION. ML 3.3 (NEIS).
	16	09	51	45.7*	62.333	N	124.442	W	10	G			1.6	6	NORTHWEST TERRITORIES, CANADA
	16	13	02	29.6?	33.38	S	72.10	W	33	N			0.6	9	OFF COAST OF CENTRAL CHILE
	16	14	21	46.0?	33.56	S	72.84	W	33	N			0.3	8	OFF COAST OF CENTRAL CHILE
	16	14	40	17.0	1.945	N	126.575	E	33	N	5.1		1.0	55	MOLUCCA PASSAGE
	16	14	51	26.8	19.460	S	64.005	W	61	*	4.9		1.5	33	SOUTHERN BOLIVIA
	16	16	33	02.5*	36.949	N	137.837	E	225		4.3		0.5	12	HONSHU, JAPAN
	16	17	00	11.5*	37.670	N	30.515	E	10	G			0.9	5	TURKEY
a	16	17	19	23.0	1.864	N	126.522	E	33	N	5.8	5.9	1.4	234	MOLUCCA PASSAGE
	16	18	10	40.2	37.254	N	3.223	W	10	G			0.9	7	SPAIN. MG 2.9 (MDD).
	16	20	25	12.8	25.397	S	178.386	E	601		5.3		1.0	159	SOUTH OF FIJI ISLANDS
a	16	21	08	28.2	1.765	N	126.442	E	33	N	5.7	5.4	1.3	221	MOLUCCA PASSAGE
	16	22	36	49.8	22.689	N	94.196	E	75	*	4.5		1.2	32	BURMA
	16	22	39	21.7	1.914	N	126.658	E	33	N	5.0		1.0	37	MOLUCCA PASSAGE
	16	22	44	50.1*	22.555	N	94.085	E	95	*	4.5		1.1	15	BURMA
	16	23	25	44.9	8.492	S	121.684	E	123	*	5.2		1.4	66	FLORES ISLAND REGION
	16	23	59	10.3*	44.079	N	11.019	E	10	G			1.0	7	NORTHERN ITALY. MD 3.1 (TRI). ML 2.9 (LDG), 2.9 (KBA).
	17	00	31	58.8?	5.26	S	147.46	E	228	*	3.9		0.1	6	EAST PAPUA NEW GUINEA REGION
	17	03	45	03.1%	40.214	N	28.287	E	10	G			1.4	7	TURKEY
	17	04	05	34.5	36.535	N	26.933	E	153		4.1		0.8	45	DODECANESE ISLANDS
	17	04	33	14.0	2.082	N	126.949	E	33	N	5.0		1.0	21	MOLUCCA PASSAGE
	17	05	11	41.2	39.508	N	23.500	E	11				1.3	15	AEGEAN SEA. ML 3.2 (ATH).
	17	05	57	39.0*	40.879	N	140.100	E	189	*	4.7		0.6	11	HONSHU, JAPAN
	17	06	09	29.4	1.218	S	13.113	W	10	G	4.9	4.4	0.9	74	NORTH OF ASCENSION ISLAND
	17	08	48	28.3*	38.712	N	27.116	E	10	G			1.1	5	TURKEY
	17	08	54	02.3*	38.672	N	26.995	E	10	G			1.3	14	AEGEAN SEA
	17	08	56	12.3*	38.690	N	27.077	E	10	G			1.1	6	TURKEY
	17	09	06	20.3*	38.688	N	27.046	E	10	G			0.9	5	TURKEY
	17	09	21	40.3*	38.686	N	27.042	E	10	G			1.2	11	TURKEY
	17	09	34	31.1*	38.730	N	27.127	E	10	G			1.2	7	TURKEY
	17	09	38	10.1*	38.732	N	27.113	E	10	G			0.9	5	TURKEY
	17	09	40	05.9*	38.692	N	27.079	E	10	G			0.4	5	TURKEY
	17	10	02	37.1*	38.708	N	27.100	E	10	G			0.2	5	TURKEY
	17	10	03	18.2*	38.710	N	27.059	E	10	G			1.3	9	TURKEY
	17	10	23	28.1	38.698	N	27.030	E	10	G			0.8	12	TURKEY
	17	10	26	37.1	1.837	N	126.531	E	33	N	5.3	4.7	1.2	113	MOLUCCA PASSAGE
	17	10	54	35.2	34.005	N	139.590	E	129		4.8		1.0	86	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) on Oshima.
	17	11	37	13.8	14.290	S	75.742	W	50		5.1		1.2	74	NEAR COAST OF PERU. Felt (IV) at Ica and (III) at Canete. Also felt at Pisco.
	17	11	49	53.8%	16.048	N	61.922	W	33	N			1.3	5	LEEWARD ISLANDS. ML 3.1 (FDF).
	17	11	56	17.5	45.711	N	26.534	E	129		4.3		1.1	33	ROMANIA
	17	12	45	57.7*	38.944	N	107.126	W	5	G			0.4	9	COLORADO. ML 1.8 (NEIS).
f	17	15	27	41.2	2.276	N	126.959	E	31	G	5.8	6.3	1.2	284	MOLUCCA PASSAGE. Depth from broadband displacement seismograms.
	17	15	31	19.0	2.161	N	127.113	E	33	N	6.0	6.3	1.2	68	MOLUCCA PASSAGE
	17	15	44	26.7	2.214	N	127.042	E	33	N	5.0		1.1	19	MOLUCCA PASSAGE
	17	15	52	09.9	2.219	N	126.960	E	33	N	5.5		1.4	155	MOLUCCA PASSAGE
	17	16	09	26.9	2.309	N	126.980	E	33	N	5.0		1.0	41	MOLUCCA PASSAGE
	17	16	11	56.6?	32.67	S	71.29	W	33	N			0.2	6	NEAR COAST OF CENTRAL CHILE
	17	16	14	51.3	2.224	N	126.934	E	33	N	5.1		1.0	39	MOLUCCA PASSAGE
	17	16	21	01.1	2.238	N	126.943	E	33	N	5.4		1.2	117	MOLUCCA PASSAGE
	17	16	27	42.9	5.042	S	144.549	E	81		4.7		1.0	28	PAPUA NEW GUINEA
	17	16	58	48.9	2.271	N	127.037	E	33	N	4.8		1.0	25	MOLUCCA PASSAGE
	17	17	40	14.5	23.958	S	177.179	W	33	N	5.1		1.1	29	SOUTH OF FIJI ISLANDS
	17	18	25	21.2	2.266	N	126.765	E	33	N	4.7		1.1	31	MOLUCCA PASSAGE
	17	18	34	28.6	2.328	N	126.894	E	33	N	5.2		1.0	73	MOLUCCA PASSAGE
	17	18	53	08.3*	2.329	N	126.902	E	33	N	4.9		0.9	16	MOLUCCA PASSAGE
	17	19	28	40.2	2.283	N	126.865	E	33	N	5.0		1.1	40	MOLUCCA PASSAGE
	17	20	36	32.4&	32.909	N	80.171	W	10					5	SOUTH CAROLINA. <GLD>. MD 1.7 (GLD).
	17	20	55	24.1*	13.882	N	61.446	W	33	N			0.6	7	WINDWARD ISLANDS. ML 4.3 (FDF).
	17	21	02	58.9&	60.685	N	153.083	W	163					36	SOUTHERN ALASKA. <AGS-P>.
	17	21	20	43.2*	14.382	N	123.923	E	44	*	4.5		1.3	27	LUZON, PHILIPPINE ISLANDS
	17	21	55	46.6*	18.870	S	69.575	W	135	?			0.8	9	NORTHERN CHILE
	17	22	07	30.0%	40.665	N	29.957	E	10	G			1.2	7	TURKEY
	17	22	10	28.3	38.897	N	107.076	W	5	G			0.5	10	COLORADO. ML 2.4 (NEIS). Felt at Crested Butte.
	17	23	47	25.0*	23.927	N	103.083	E	33	N			0.9	6	YUNNAN PROVINCE, CHINA
	18	00	38	33.5	36.201	N	68.593	E	33	N	4.6		1.2	23	HINDU KUSH REGION
	18	01	11	23.7*	2.164	N	126.581	E	33	N	4.8		1.0	17	MOLUCCA PASSAGE
	18	01	15	15.0	38.914	N	107.087	W	5	G			0.5	11	COLORADO. ML 3.0 (NEIS). Felt (III) at Aspen and Carbondale. Also felt at Crested Butte and Snowmass Village.
	18	01	48	49.9	41.508	N	20.139	E	27				1.3	35	ALBANIA. ML 3.6 (TTG). Felt (IV) at Bulqiza, Peshkapi and Tirana.
f	18	01	59	54.5	20.492	S	174.207	W	20	G	5.9	5.9	1.1	270	TONGA ISLANDS. Ms 5.8 (BRK). Depth from broadband displacement seismograms.
	18	07	35	49.4	39.053	N	28.665	E	10				1.2	17	TURKEY. Felt at Demirci.
	18	07	50	47.7	39.110	N	28.626	E	10	G			1.4	11	TURKEY
	18	08	05	32.1	38.692	N	27.074	E	10	G			0.4	7	TURKEY
	18	08	07	52.9?	38.87	N	26.99	E	10	G			1.3	11	AEGEAN SEA
	18	08	10	28.5*	38.710	N	27.052	E	10	G			1.0	8	TURKEY
	18	08	11	26.6	38.718	N	27.014	E	10	G			1.2	16	TURKEY
	18	08	11	31.5	38.593	N	27.060	E	10	G	4.0		0.8	26	TURKEY. ML 3.6 (ATH). Felt at Demirci and Izmir.
	18	09	45	29.5	42.360	N	19.772	E	10	G			1.3	6	YUGOSLAVIA. MD 2.4 (TTG).

	18	09	49	15.7	35.865	N	44.399	E	33	N	4.9		1.1	15	IRAQ
	18	10	49	38.9&	37.537	N	118.452	W	11					24	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.4 (BRK).
	18	14	05	45.5%	36.945	N	29.161	E	10	G			1.9	5	TURKEY
a	18	14	16	14.1	1.739	N	126.575	E	33	N	5.5	5.2	1.2	149	MOLUCCA PASSAGE
	18	14	36	08.1*	34.257	S	70.206	W	33	N			0.7	7	CHILE-ARGENTINA BORDER REGION
	18	15	01	00.7*	21.460	S	177.318	W	328	*	4.8		1.0	43	FIJI ISLANDS REGION
	18	16	16	13.5	38.900	N	107.069	W	5	G			0.5	14	COLORADO. ML 2.3 (NEIS).
	18	17	20	14.3%	38.063	N	27.099	E	10	G			0.9	5	TURKEY
	18	17	56	57.3*	14.503	N	146.676	E	64	*	5.1		1.0	26	MARIANA ISLANDS
	18	17	59	06.2*	38.864	N	21.419	E	10	G	4.0		1.4	9	GREECE. ML 3.2 (ATH).
	18	18	20	49.7*	6.808	N	72.969	W	161		4.6		1.0	10	NORTHERN COLOMBIA
	18	19	48	36.9*	24.075	S	177.433	W	33	N	4.9	4.9	1.5	19	SOUTH OF FIJI ISLANDS
	18	20	55	53.5	10.352	N	67.014	W	10		4.8		1.5	59	NEAR COAST OF VENEZUELA. Felt in the Caracas area.
	18	21	35	03.6	35.873	N	137.704	E	18				0.9	15	HONSHU, JAPAN. Felt (II JMA) at Nagoya and (I JMA) at Iida.
	18	22	20	16.7*	24.092	S	177.179	W	33	N	5.0		1.2	23	SOUTH OF FIJI ISLANDS
	18	22	27	36.3*	32.786	S	71.567	W	33	N			1.0	11	NEAR COAST OF CENTRAL CHILE
	18	23	16	05.4*	44.543	N	149.398	E	33	N	4.7		1.2	37	KURIL ISLANDS
	19	00	17	45.7*	15.981	S	69.446	W	265				1.3	14	PERU-BOLIVIA BORDER REGION
a	19	00	27	35.9	8.376	N	126.601	E	33	N	5.6	4.9	1.2	174	MINDANAO, PHILIPPINE ISLANDS
	19	02	24	29.2	26.403	N	128.800	E	33	N	4.9		1.2	50	RYUKYU ISLANDS
	19	02	34	07.3*	51.838	N	176.095	W	33	N	4.2		0.4	7	ANDREANOF ISLANDS, ALEUTIAN IS.
	19	03	19	34.9&	62.131	N	150.821	W	65					21	CENTRAL ALASKA. <AGS-P>.
	19	04	05	44.3	43.165	N	26.007	E	29				0.9	33	BULGARIA. ML 3.8 (SKO). Felt (V) at Strazhitsa and (III) at Popova and Asenavo.
	19	04	38	15.5*	28.095	N	140.645	E	33	N	4.8		1.4	14	BONIN ISLANDS REGION
	19	06	03	54.5	39.019	N	28.743	E	13		4.1		1.2	45	TURKEY. ML 4.3 (ATH). Minor damage at Demirci.
	19	06	12	45.9	39.052	N	28.727	E	10	G			1.2	11	TURKEY
	19	08	13	08.5	38.877	N	107.053	W	5	G			0.4	12	COLORADO. ML 2.1 (NEIS).
	19	09	37	01.4?	31.89	S	69.07	W	132	?			0.6	7	SAN JUAN PROVINCE, ARGENTINA
	19	10	22	09.6*	37.519	N	71.934	E	33	N	5.1		0.8	9	AFGHANISTAN-USSR BORDER REGION
	19	12	17	16.5?	42.50	N	24.09	E	10	G			1.9	6	BULGARIA
	19	12	41	35.6	5.627	S	145.698	E	33	N	4.4		1.5	15	EAST PAPUA NEW GUINEA REGION
	19	12	52	41.1	4.122	S	129.324	E	33	N	5.3		1.4	56	BANDA SEA
	19	12	54	16.6%	60.298	N	5.346	E	10	G			0.5	5	SOUTHERN NORWAY. MD 1.6 (BER).
	19	13	29	12.6	34.563	N	25.131	E	19	*	4.4		1.5	37	CRETE. ML 4.4 (ATH).
	19	13	35	58.1*	2.312	N	126.951	E	33	N	4.4		0.9	9	MOLUCCA PASSAGE
	19	16	23	56.6%	59.965	N	4.991	E	10	G			0.3	5	SOUTHERN NORWAY. MD 1.7 (BER).
	19	17	12	53.9?	4.54	S	130.74	E	33	N			0.8	7	BANDA SEA
	19	17	29	37.4	38.927	N	107.074	W	5	G			0.4	10	COLORADO. ML 1.6 (NEIS).
	19	17	55	55.8&	60.089	N	153.234	W	128					19	SOUTHERN ALASKA. <AGS-P>.
	19	20	38	47.2	37.477	N	118.272	W	10	G			0.6	15	CALIFORNIA-NEVADA BORDER REGION. ML 3.5 (NEIS).
	19	20	56	40.4?	51.67	N	16.27	E	10	G			0.2	6	POLAND
	19	21	06	14.6?	33.52	S	72.67	W	33	N			0.3	8	OFF COAST OF CENTRAL CHILE
	19	22	41	35.8	12.514	N	124.478	E	98	D	5.3		1.2	72	SAMAR, PHILIPPINE ISLANDS
	19	22	42	27.5	38.735	N	27.133	E	10	G			0.5	6	TURKEY
	19	22	45	46.6	6.029	S	154.236	E	57		5.4		1.2	59	SOLOMON ISLANDS
	19	23	02	21.9%	16.063	N	61.032	W	33	N			0.2	6	LEEWARD ISLANDS. ML 2.3 (FDF).
	19	23	31	27.0	38.904	N	107.054	W	5	G			0.4	13	COLORADO. ML 1.9 (NEIS).
	19	23	53	39.6&	37.482	N	118.372	W	6					18	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.4 (BRK).
	20	00	23	47.3	38.869	N	25.765	E	10	G			1.2	13	AEGEAN SEA. ML 3.1 (ATH).
	20	00	30	59.6*	13.374	S	166.918	E	195	?	4.8		1.3	31	VANUATU ISLANDS
	20	00	37	04.8	44.503	N	10.712	E	12				1.4	19	NORTHERN ITALY. ML 3.3 (LDG).
	20	01	14	22.9	42.304	N	19.919	E	10	G			1.4	18	YUGOSLAVIA. ML 3.2 (TTG).
	20	01	33	11.5?	36.00	N	30.83	E	10	G			0.0	5	TURKEY
	20	02	37	03.8*	40.371	N	24.193	E	10	G			0.8	6	AEGEAN SEA
	20	03	18	52.0?	33.89	S	72.28	W	33	N			0.4	8	OFF COAST OF CENTRAL CHILE
	20	03	49	46.2	37.276	N	118.146	W	5	G			0.8	13	CALIFORNIA-NEVADA BORDER REGION. ML 2.9 (BRK).
	20	03	53	24.9*	42.355	N	19.976	E	10	G			0.7	5	YUGOSLAVIA. ML 2.3 (TTG).
	20	04	34	46.3*	17.258	N	63.561	W	21				0.6	9	LEEWARD ISLANDS. ML 3.8 (FDF).
	20	04	43	40.1	38.892	N	107.077	W	5	G			0.5	15	COLORADO. ML 2.3 (NEIS). Felt at Crested Butte.
	20	04	48	35.0*	53.736	N	163.163	W	33	N	4.6		1.2	17	UNIMAK ISLAND REGION
	20	05	14	03.9*	2.693	S	139.031	E	33	N	5.0		1.1	11	NEAR N. COAST OF WEST IRIAN
	20	05	25	17.0	39.646	N	77.632	E	33	N	4.8		1.3	31	SOUTHERN XINJIANG, CHINA
	20	07	02	16.8&	37.122	N	121.563	W	6					16	CENTRAL CALIFORNIA. <BRK>. ML 3.4 (BRK). Felt at Morgan Hill and Gilroy.
a	20	07	05	01.6	5.325	S	151.331	E	79	G	5.8		1.1	263	NEW BRITAIN REGION. Felt (III) at Arawa, Bougainville. Depth from broadband displacement seismograms.
	20	08	22	18.0	41.242	N	7.132	W	10	G			1.3	31	PORTUGAL. MG 3.9 (MDD). Felt (IV) at Torre de Moncorvo and (II) in the Douro area.
	20	08	39	21.7&	61.544	N	146.420	W	30					35	SOUTHERN ALASKA. <AGS-P>.
	20	08	42	11.8*	6.057	S	152.014	E	33	N	4.7		1.5	7	NEW BRITAIN REGION
	20	09	07	45.2?	45.59	N	26.48	E	157	?			0.6	7	ROMANIA
	20	09	50	21.0&	37.120	N	121.562	W	6	G				13	CENTRAL CALIFORNIA. <BRK>. ML 2.9 (BRK). Felt at Morgan Hill and Gilroy.
	20	09	57	05.0&	37.118	N	121.565	W	7					17	CENTRAL CALIFORNIA. <BRK>. ML 3.3 (BRK). Felt at Morgan Hill and Gilroy.
a	20	10	09	32.6	16.941	S	173.507	W	33	N	5.6	4.7	1.3	160	TONGA ISLANDS
	20	10	28	18.0?	6.30	S	128.06	E	33	N			0.5	6	BANDA SEA
	20	11	49	32.7?	26.10	S	27.33	E	5	G			1.5	9	REPUBLIC OF SOUTH AFRICA. MG 3.6 (BUL).
	20	12	12	22.9*	2.240	N	127.039	E	33	N	4.2		1.2	7	MOLUCCA PASSAGE
	20	14	43	49.0%	39.179	N	27.858	E	10	G			0.1	5	TURKEY
	20	16	37	46.6	5.844	S	150.234	E	74		5.0		1.1	33	NEW BRITAIN REGION
	20	17	18	39.8&	62.120	N	151.191	W	88					14	CENTRAL ALASKA. <AGS-P>.
	20	17	27	23.8	11.850	N	43.372	E	10	G			0.6	5	ETHIOPIA. MG 4.0 (ARO).
	20	17	31	24.9	49.814	N	1.175	E	10	G			0.6	15	FRANCE. ML 2.7 (LDG).
	20	17	31	33.7?	31.44	S	69.35	W	33	N			1.4	8	SAN JUAN PROVINCE, ARGENTINA
	20	18	08	43.9*	17.345	S	172.538	W	33	N	5.2	4.9	1.5	19	TONGA ISLANDS REGION
a	20	18	15	38.8	2.069	N	126.534	E	33	N	5.4	4.5	1.1	118	MOLUCCA PASSAGE
	20	18	54	12.4*	61.798	N	124.403	W	10	G	4.4		1.3	11	NORTHWEST TERRITORIES, CANADA
	20	18	55	11.1&	59.126	N	153.782	W	97					13	SOUTHERN ALASKA. <AGS-P>.
	20	20	21	32.9	38.892	N	107.068	W	5	G			0.4	12	COLORADO. ML 2.7 (NEIS). Felt at Crested Butte.
	20	21	15	46.4	1.973	S	87.088	E	10	G	5.3		0.9	154	SOUTH INDIAN OCEAN

a	20	21	23	54.8	34.572	N	91.633	E	33	N	5.4	6.5	1.2	191	QINGHAI PROVINCE, CHINA
	20	22	01	37.0	31.405	N	140.390	E	98	D	4.8		1.2	54	SOUTH OF HONSHU, JAPAN
	20	22	09	51.1•	29.563	S	71.672	W	33	N			1.5	16	NEAR COAST OF CENTRAL CHILE
	20	22	32	05.6	34.424	N	91.742	E	33	N	4.8		1.5	38	QINGHAI PROVINCE, CHINA
	20	22	47	29.4&	60.253	N	141.122	W	12					23	SOUTHEASTERN ALASKA. <AGS-P>.
	20	23	44	19.7?	65.90	N	155.43	W	33	N			0.2	6	ALASKA. ML 3.9 (PMR).
	21	01	04	29.2&	37.533	N	121.675	W	6					14	CENTRAL CALIFORNIA. <BRK>. ML 3.1 (BRK).
	21	01	23	22.0	7.933	N	72.920	W	10	G	4.6		1.3	25	NORTHERN COLOMBIA
	21	01	34	17.3	36.472	N	71.083	E	235	D	5.4		0.9	267	AFGHANISTAN-USSR BORDER REGION. Felt (III) at Dushanbe and Khorog and (II) at Andizhan, USSR. Felt at Peshawar, Pakistan.
	21	02	11	08.5%	45.554	N	26.503	E	140	G			0.7	7	ROMANIA
	21	02	58	36.8	24.244	S	66.935	W	190		4.6		1.2	33	SALTA PROVINCE, ARGENTINA
	21	03	00	36.8•	27.504	N	139.967	E	469	?	4.5		0.7	15	BONIN ISLANDS REGION
	21	04	08	38.2•	34.822	S	178.988	E	33	N	5.2		1.2	27	SOUTH OF KERMADEC ISLANDS
	21	04	18	31.4?	66.12	N	155.75	W	33	N			0.5	6	ALASKA. ML 4.0 (PMR).
	21	06	11	23.1•	41.955	N	141.904	E	80	?			1.4	6	HOKKAIDO, JAPAN REGION. Felt (I JMA) at Urakawa.
	21	06	37	09.1	53.819	N	160.443	E	33	N	5.4	3.9	0.9	131	NEAR EAST COAST OF KAMCHATKA. Felt (IV) at Petropavlovsk-Kamchatskiy.
	21	07	25	56.3•	39.498	N	28.358	E	5	G			1.5	5	TURKEY
	21	08	09	45.3&	62.298	N	151.148	W	81					16	CENTRAL ALASKA. <AGS-P>.
	21	09	05	21.2?	59.37	N	6.60	E	5	G			1.1	6	SOUTHERN NORWAY. MD 2.1 (BER).
	21	09	24	01.2•	12.217	S	76.577	W	33	N			0.2	5	NEAR COAST OF PERU. Felt (II) at Camacho.
	21	09	24	25.5?	2.13	N	126.53	E	33	N			0.8	8	MOLUCCA PASSAGE
	21	09	26	37.5	39.091	N	27.679	E	10	G			0.4	6	TURKEY
	21	09	34	39.9?	5.98	S	35.55	W	10	G	4.2		1.2	10	BRAZIL. Felt at Joao Camara and Natal.
	21	09	50	15.4?	34.65	S	179.30	E	33	N	4.7		0.9	5	SOUTH OF KERMADEC ISLANDS
	21	10	00	47.1&	60.134	N	140.994	W	13					14	SOUTHEASTERN ALASKA. <AGS-P>.
	21	10	48	03.1?	4.77	S	130.65	E	33	N			1.3	6	BANDA SEA
	21	11	27	10.4	55.855	N	3.137	W	10				0.4	12	UNITED KINGDOM. ML 2.5 (ESK). Felt (IV) at Rosewell. Also felt at Lasswade and Roslin, Scotland.
	21	11	29	49.9?	3.45	S	139.06	E	33	N			1.6	5	WEST IRIAN
	21	11	46	08.0•	1.612	S	77.914	W	132	?	4.4		0.6	10	ECUADOR
	21	12	24	31.7•	51.689	N	175.745	W	33	N	4.3		0.4	11	ANDREANOF ISLANDS, ALEUTIAN IS.
	21	12	40	10.8	0.076	N	123.995	E	113	•	4.7		1.1	37	MINAHASSA PENINSULA
	21	13	13	52.8%	39.122	N	27.675	E	10	G			0.5	5	TURKEY
	21	13	46	35.8?	16.05	S	35.95	E	10	G			0.1	4	MALAWI. MG 3.4 (BUL). Felt (III) at Mulanje.
	21	13	48	37.7•	4.570	S	104.603	E	217	•	4.3		0.7	9	SOUTHERN SUMATERA
	21	14	09	31.0•	4.714	S	153.426	E	89	•	4.4		0.8	8	NEW IRELAND REGION
	21	14	11	31.6	38.903	N	107.063	W	5	G			0.5	12	COLORADO. ML 1.9 (NEIS). Felt at Crested Butte.
	21	14	41	24.2	4.787	S	151.869	E	131				0.8	16	NEW BRITAIN REGION
	21	16	42	43.2?	10.62	S	166.07	E	119	?	4.2		0.8	10	SANTA CRUZ ISLANDS
a	21	17	01	27.2•	9.071	S	109.551	W	10	G	5.0	5.3	1.3	34	NORTHERN EASTER I. CORDILLERA
	21	17	10	30.4•	9.031	S	109.677	W	10	G	4.9	4.9	1.0	30	NORTHERN EASTER I. CORDILLERA
	21	17	38	10.6	1.901	N	126.708	E	33	N	4.7		1.2	25	MOLUCCA PASSAGE
	21	17	51	00.0	40.717	N	25.785	E	10	G			1.1	15	AEGEAN SEA
	21	17	55	29.4	1.603	N	127.562	E	44	•	5.2		0.9	28	HALMAHERA
	21	18	33	42.8•	73.807	N	9.490	E	10	G	4.5		1.0	15	GREENLAND SEA
	21	18	34	02.0?	45.66	N	150.90	E	33	N	4.6		0.7	12	KURIL ISLANDS
	21	19	13	28.8?	51.27	N	16.14	E	10	G			0.9	6	POLAND. ML 3.0 (KBA), 3.0 (VKA).
	21	19	19	35.3&	60.408	N	151.150	W	51					26	KENAI PENINSULA, ALASKA. <AGS-P>.
	21	19	24	14.2•	23.036	S	69.010	W	159	•			1.3	9	NORTHERN CHILE
	21	19	40	08.0•	37.327	N	20.276	E	10	G	3.7		1.1	11	IONIAN SEA. ML 3.8 (ATH).
	21	19	51	38.4•	17.519	S	168.465	E	27	•	4.6		1.4	42	VANUATU ISLANDS
	21	21	34	22.6•	22.233	S	67.282	W	196	?			1.3	6	CHILE-BOLIVIA BORDER REGION
	21	23	48	56.0•	2.668	N	127.777	E	33	N	5.0		0.8	10	MOLUCCA PASSAGE
	22	01	10	55.0•	8.867	S	109.838	W	10	G	4.6	4.4	1.3	18	NORTHERN EASTER I. CORDILLERA
	22	01	40	18.8•	6.205	S	149.553	E	72	•	4.5		1.2	8	NEW BRITAIN REGION
	22	02	15	48.9•	23.904	S	65.878	W	271	•			0.6	7	JUJUY PROVINCE, ARGENTINA
	22	03	16	03.2?	17.12	N	61.30	W	33	N			0.5	5	LEEWARD ISLANDS. ML 2.7 (PAG).
	22	04	13	47.3•	1.138	N	100.153	E	216		4.9		1.2	19	NORTHERN SUMATERA
	22	05	15	50.6?	33.46	S	72.00	W	33	N			0.3	7	NEAR COAST OF CENTRAL CHILE
	22	05	40	36.7	6.152	S	130.189	E	149	•	4.9		0.7	18	BANDA SEA
	22	06	45	58.3	40.162	N	28.279	E	10	G			0.6	10	TURKEY
	22	06	54	55.5•	14.554	S	174.807	E	642	•	4.7		0.8	24	FIJI ISLANDS REGION
	22	09	01	22.9&	60.398	N	153.017	W	120					14	SOUTHERN ALASKA. <AGS-P>.
	22	09	47	53.6•	8.407	N	103.636	W	10	G	4.5	3.8	0.7	13	OFF COAST OF MEXICO
	22	09	54	25.8?	8.58	N	103.42	W	10	G	4.5	4.0	1.0	16	OFF COAST OF MEXICO
	22	11	10	28.6	38.897	N	107.072	W	5	G			0.4	13	COLORADO. ML 2.2 (NEIS).
	22	11	32	57.3?	60.70	N	4.59	E	10	G			0.5	4	SOUTHERN NORWAY. MD 1.4 (BER).
	22	11	35	57.1?	46.00	N	14.32	E	10	G			0.7	4	YUGOSLAVIA
	22	12	04	41.9•	7.212	N	126.965	E	33	N	4.6		1.0	19	MINDANAO, PHILIPPINE ISLANDS
	22	12	19	28.6•	1.481	N	126.663	E	33	N	4.5		1.1	18	MOLUCCA PASSAGE
	22	12	23	48.8?	30.78	S	71.07	W	33	N			0.6	5	NEAR COAST OF CENTRAL CHILE
	22	12	25	51.9	1.675	N	126.843	E	33	N	4.8		1.1	47	MOLUCCA PASSAGE
	22	12	36	33.5•	7.433	S	126.856	E	295	•			1.0	9	BANDA SEA
	22	13	26	33.3	37.420	N	110.574	W	5	G			0.8	22	UTAH. ML 4.0 (SLC), 3.8 (NEIS). Felt (V) in the Monument Valley area.
	22	13	27	42.9•	56.067	S	27.039	W	33	N	5.1		1.0	12	SOUTH SANDWICH ISLANDS REGION
	22	13	39	33.3	34.595	N	91.790	E	10	G	4.7		1.1	26	QINGHAI PROVINCE, CHINA
	22	14	31	52.6?	52.08	N	170.69	W	33	N	4.2		0.1	6	FOX ISLANDS, ALEUTIAN ISLANDS
	22	14	44	17.0	36.611	N	116.366	W	5	G			0.5	18	CALIFORNIA-NEVADA BORDER REGION. ML 3.1 (NEIS).
	22	16	50	39.1•	35.121	N	29.517	E	33	N			1.0	5	EASTERN MEDITERRANEAN SEA
	22	16	54	49.6	36.636	N	121.125	W	10	G			0.8	12	CENTRAL CALIFORNIA. ML 2.5 (BRK).
	22	20	12	28.2	1.818	N	126.676	E	35	•	4.6		1.2	44	MOLUCCA PASSAGE
	22	20	32	10.4%	45.707	N	2.933	E	10	G			1.0	12	FRANCE. ML 2.5 (LDG).
	22	23	32	56.6	36.339	N	70.752	E	144	•	4.7		1.0	47	HINDU KUSH REGION. Felt (III) at Ishkashim, Khorog and Dushanbe, USSR.
	22	23	34	44.6•	7.869	N	94.256	E	83	•	4.4		1.1	9	NICOBAR ISLANDS REGION
	23	00	05	30.4%	34.037	S	71.350	W	33	N			0.2	8	NEAR COAST OF CENTRAL CHILE
	23	00	15	06.0•	34.480	N	92.030	E	33	N			1.6	6	QINGHAI PROVINCE, CHINA
	23	00	36	23.3	42.347	N	19.975	E	10	G			0.9	6	YUGOSLAVIA. MD 2.4 (TTG).
	23	02	54	18.4?	36.43	N	29.28	E	10	G			1.5	6	TURKEY

	23	02 54 24.9*	38.155	N	4.090	W	10	G			1.6	6	SPAIN. ML 3.1 (TOL).
	23	03 01 29.9	37.528	N	118.331	W	5	G			0.7	22	CALIFORNIA-NEVADA BORDER REGION. ML 3.5 (BRK). Felt (III) at Bishop, California.
	23	03 52 16.4%	45.711	N	2.941	E	10	G			0.7	11	FRANCE. ML 2.8 (LDG).
	23	04 13 57.0?	36.27	N	139.86	E	104		4.0		1.1	8	HONSHU, JAPAN. Felt (II JMA) at Utsunomiya.
	23	04 49 51.9*	14.776	N	147.270	E	33	N	4.1		1.2	14	MARIANA ISLANDS REGION
	23	05 13 03.0	38.905	N	107.095	W	5	G			0.4	10	COLORADO. ML 2.4 (NEIS). Felt at Crested Butte.
	23	05 14 43.2?	4.15	N	77.14	W	112	?	4.2		1.0	14	NEAR WEST COAST OF COLOMBIA
	23	06 02 07.3*	30.817	S	117.049	E	10	G			0.1	5	WESTERN AUSTRALIA
	23	06 28 40.7?	51.02	N	15.67	E	10	G			0.9	5	POLAND
	23	11 25 57.9	22.641	S	170.670	E	33	N	4.6		1.4	36	LOYALTY ISLANDS REGION
	23	11 40 43.8&	60.061	N	152.924	W	99					44	SOUTHERN ALASKA. <AGS-P>.
	23	11 40 50.2?	0.88	N	126.33	E	33	N			1.0	6	MOLUCCA PASSAGE
	23	11 42 23.7*	40.724	S	43.208	E	10	G	4.8		0.9	14	ATLANTIC-INDIAN RISE
	23	11 55 12.0	53.547	N	165.855	W	33	N	4.8		1.1	72	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.2 (PMR).
	23	12 23 01.8*	1.105	N	126.533	E	33	N			0.4	7	MOLUCCA PASSAGE
	23	12 26 33.1%	38.585	N	4.137	W	0	G			0.6	5	SPAIN. Probable explosion.
	23	14 35 27.2	31.812	S	69.449	W	124		4.1		1.1	17	SAN JUAN PROVINCE, ARGENTINA
	23	14 43 24.5	42.366	N	19.946	E	10	G			0.5	9	YUGOSLAVIA. MD 2.7 (TTG).
	23	14 45 47.6*	40.820	S	43.168	E	10	G	4.9		1.1	25	ATLANTIC-INDIAN RISE
	23	15 17 27.3	44.460	N	10.663	E	10	G			1.2	36	NORTHERN ITALY. ML 3.9 (KBA), 3.7 (LDG). MD 3.5 (FIR), 3.5 (TRI).
	23	16 13 55.8*	6.815	S	154.931	E	41	*	4.8		0.9	14	SOLOMON ISLANDS
	23	16 29 33.0?	33.90	S	71.82	W	33	N			1.0	9	NEAR COAST OF CENTRAL CHILE
a	23	17 11 47.1	31.675	N	40.938	W	10	G	5.3	5.2	1.0	133	NORTH ATLANTIC RIDGE
	23	17 13 27.8*	36.61B	N	25.386	E	33	N			0.4	5	DODECANESE ISLANDS. ML 3.7 (ATH).
	23	17 23 29.8	31.685	N	40.908	W	10	G	4.8	5.1	0.9	55	NORTH ATLANTIC RIDGE
	23	17 51 50.5*	22.614	S	170.591	E	33	N	4.4		1.5	19	LOYALTY ISLANDS REGION
	23	18 18 04.7*	34.702	S	72.303	W	33	N	4.4		1.3	20	NEAR COAST OF CENTRAL CHILE
	23	18 27 35.9	1.900	N	126.633	E	33	N	5.0		1.3	30	MOLUCCA PASSAGE
	23	19 53 49.9*	2.312	N	127.173	E	33	N	4.8		1.3	16	MOLUCCA PASSAGE
	23	20 06 29.7	5.794	S	35.410	W	10	G			0.8	8	BRAZIL
	23	20 22 11.1	40.594	N	23.920	E	10	G			1.3	15	GREECE
	23	21 49 14.6?	21.09	S	70.74	W	33	N			0.3	5	NEAR COAST OF NORTHERN CHILE
	23	22 29 50.3%	45.681	N	2.982	E	10	G			0.9	10	FRANCE. ML 2.5 (LDG).
a	23	23 47 48.8	34.549	S	179.288	E	32	D	6.1	6.5	1.2	115	SOUTH OF KERMADEC ISLANDS. Ms 6.3 (BRK).
	24	01 08 55.0	38.908	N	24.271	E	11				0.9	35	AEGEAN SEA. ML 3.9 (ATH).
	24	01 55 22.4?	40.81	N	49.66	E	33	N	4.5		1.2	6	EASTERN CAUCASUS
	24	02 09 43.4*	2.201	N	127.194	E	33	N	4.6		1.3	10	MOLUCCA PASSAGE
	24	02 35 00.2	36.371	N	138.383	E	25		4.8		1.4	59	HONSHU, JAPAN. Felt (III JMA) at Nagano and (II JMA) at Maeboshi.
	24	03 59 17.5	38.967	N	107.141	W	5	G			0.3	11	COLORADO. ML 2.1 (NEIS). Felt at Crested Butte.
	24	04 00 35.1?	28.45	N	56.41	E	33	N			1.1	6	SOUTHERN IRAN
	24	04 42 53.0*	2.951	S	140.466	E	33	N			1.5	8	NEAR N. COAST OF WEST IRIAN. Felt (III) at Jayapura.
	24	04 54 32.1	21.645	S	126.709	E	10	G	3.8		1.3	12	WESTERN AUSTRALIA
	24	05 22 16.7?	22.30	S	170.36	E	33	N	4.1		1.5	5	LOYALTY ISLANDS REGION
	24	06 52 44.6*	2.143	N	126.839	E	33	N	5.0		0.9	17	MOLUCCA PASSAGE
	24	07 08 15.1?	23.64	S	179.98	E	524	?	4.5		0.9	5	SOUTH OF FIJI ISLANDS
	24	07 39 36.1	14.838	N	99.163	E	10	G			0.9	6	SOUTHEAST ASIA
	24	08 05 00.6?	40.73	N	30.36	E	10	G			1.3	5	TURKEY
	24	08 19 32.6?	37.86	S	146.53	E	10	G			0.5	5	NEAR S.E. COAST OF AUSTRALIA. ML 3.3 (BFD), 3.0 (TOO).
	24	08 42 42.3?	14.13	S	167.95	E	33	N	4.3		1.3	6	VANUATU ISLANDS
	24	09 04 06.1%	39.288	N	27.625	E	10	G			1.7	6	TURKEY
	24	09 17 31.3?	2.47	N	126.80	E	104	?	4.0		1.3	8	MOLUCCA PASSAGE
	24	09 20 39.8*	2.084	N	127.007	E	33	N	4.3		1.2	7	MOLUCCA PASSAGE
	24	09 37 23.4?	2.37	N	127.27	E	33	N	4.2		1.5	10	MOLUCCA PASSAGE
	24	09 53 28.6*	6.878	S	130.453	E	33	N			1.5	10	BANDA SEA
	24	10 13 33.9*	14.627	N	146.340	E	97	*	4.6		1.0	15	MARIANA ISLANDS
o	24	10 45 00.2	24.056	S	177.137	W	33	N	5.4	5.1	1.0	63	SOUTH OF FIJI ISLANDS
	24	10 49 43.0&	61.765	N	150.035	W	45					35	SOUTHERN ALASKA. <AGS-P>.
	24	10 54 21.0	36.088	N	32.133	E	100		4.3		0.9	45	TURKEY
	24	11 59 21.7*	0.267	S	123.599	E	172	*	3.9		0.2	6	MINAHASSA PENINSULA
a	24	13 03 35.7	27.271	S	176.418	W	33	N	5.3	4.9	1.1	69	KERMADEC ISLANDS REGION
	24	14 36 55.3&	61.611	N	146.416	W	30					30	SOUTHERN ALASKA. <AGS-P>.
	24	16 15 38.1	38.895	N	107.063	W	5	G			0.5	15	COLORADO. ML 2.4 (NEIS).
	24	17 29 27.1*	4.648	S	128.601	E	33	N	4.0		1.4	14	BANDA SEA
	24	17 29 42.3	37.584	N	118.438	W	5	G			0.4	10	CALIFORNIA-NEVADA BORDER REGION. ML 3.2 (NEIS).
	24	17 37 44.9	35.842	N	72.942	E	45	*	4.8	4.3	1.0	87	PAKISTAN
	24	17 54 02.8*	5.718	S	142.182	E	33	N	3.2		1.6	5	PAPUA NEW GUINEA
	24	18 04 24.5	45.790	N	111.568	W	10	G			0.4	16	MONTANA. ML 3.9 (NEIS). Felt (IV) at Manhattan and Willow Creek. Felt (III) at Three Forks.
	24	19 28 32.5*	8.645	S	112.456	E	124	*	3.6		0.8	7	JAVA
	24	19 31 11.8	11.204	N	142.232	E	94	*	5.0		1.2	38	SOUTH OF MARIANA ISLANDS
o	24	19 38 10.9	23.894	S	177.201	W	33	N	5.3	5.1	1.2	35	SOUTH OF FIJI ISLANDS
	24	21 35 56.1&	59.810	N	153.408	W	117					35	SOUTHERN ALASKA. <AGS-P>.
	24	21 37 10.2&	59.819	N	153.415	W	119					27	SOUTHERN ALASKA. <AGS-P>.
	24	21 39 08.3?	19.86	S	178.28	W	605	*	4.5		1.3	11	FIJI ISLANDS REGION
	24	22 05 32.0*	36.583	N	1.159	E	5	G			0.3	6	ALGERIA. MG 3.3 (ABA).
	24	22 55 49.9%	40.828	N	28.470	E	10	G			0.8	6	TURKEY
	24	23 03 22.7?	48.16	N	1.87	W	10	G			0.4	5	FRANCE. ML 2.4 (LDG).
a	24	23 46 51.2	2.100	N	126.873	E	35	*	5.3	5.1	1.3	97	MOLUCCA PASSAGE
	25	00 13 38.7	2.066	N	126.801	E	33	N	5.0		1.2	38	MOLUCCA PASSAGE
	25	00 19 08.9	1.984	N	126.705	E	33	N	4.7		0.9	26	MOLUCCA PASSAGE
	25	00 56 29.5*	34.688	N	91.497	E	33	N			1.3	9	QINGHAI PROVINCE, CHINA
	25	01 21 41.6*	36.815	N	44.828	E	10	G			0.9	6	IRAN-IRAQ BORDER REGION
	25	01 21 56.0*	36.980	N	44.916	E	10	G	4.6	4.0	1.2	22	IRAN-IRAQ BORDER REGION. Felt in the Orumiyeh-Oshnoviyeh area, Iran.
	25	02 38 55.8*	36.641	N	58.943	E	33	N			1.5	7	IRAN. Felt in the Neyshabur area.
	25	03 30 17.7?	36.27	N	13.39	W	10	G			0.8	18	NORTH ATLANTIC OCEAN
	25	03 59 19.6?	18.83	S	173.38	E	33	N	4.0		1.4	7	FIJI ISLANDS REGION
	25	04 08 06.6*	38.839	N	24.322	E	10	G			1.1	5	AEGEAN SEA. ML 3.2 (ATH).
	25	05 41 34.2%	40.768	N	29.129	E	10	G			1.2	7	TURKEY
	25	06 21 30.1&	62.711	N	148.768	W	75					43	CENTRAL ALASKA. <AGS-P>.

	25	06	35	13.9	23.914	S	177.189	W	33	N	5.0	4.9	0.8	17	SOUTH OF FIJI ISLANDS
	25	08	13	27.4	37.617	N	118.422	W	5	G			0.8	8	CALIFORNIA-NEVADA BORDER REGION. ML 3.3 (NEIS).
	25	08	20	58.0	37.642	N	118.394	W	5	G			0.6	9	CALIFORNIA-NEVADA BORDER REGION. ML 3.2 (NEIS).
	25	09	07	50.3*	4.284	S	142.838	E	86	?			0.9	6	PAPUA NEW GUINEA
	25	09	11	23.7%	39.103	N	27.652	E	10	G			0.3	5	TURKEY
	25	10	55	20.4%	44.584	N	9.848	E	10	G			0.6	9	NORTHERN ITALY. ML 2.7 (LDG).
	25	11	33	31.2	19.535	S	175.108	W	79	*	4.9		0.8	37	TONGA ISLANDS
	25	11	47	51.2&	37.747	N	121.968	W	4					9	CENTRAL CALIFORNIA. <BRK>. ML 2.4 (BRK). Felt at Danville and San Ramon.
	25	14	17	53.6*	31.798	S	68.120	W	121	*	4.5		1.0	17	SAN JUAN PROVINCE, ARGENTINA. Felt (III) at San Juan.
	25	14	41	34.1?	30.73	S	71.84	W	33	N			1.5	9	NEAR COAST OF CENTRAL CHILE
a	25	15	40	31.5	16.316	S	173.050	W	33	N	4.9	5.0	1.0	60	TONGA ISLANDS
	25	16	28	45.4?	4.95	S	130.89	E	33	N	3.8		1.2	5	BANDA SEA
	25	17	06	36.9&	39.638	N	119.803	W	5	G				8	NEVADA. <REN-P>. ML 2.8 (NEIS). Felt (III) at Sparks. Also felt at Reno.
	25	17	25	04.1	10.195	N	67.074	W	10	G	4.9	4.3	1.1	38	NEAR COAST OF VENEZUELA. Felt at Caracas and Maracay.
	25	17	57	42.1&	39.638	N	119.803	W	5	G				7	NEVADA. <REN-P>. ML 2.5 (NEIS). Felt at Reno and Sparks.
	25	18	17	35.4	42.714	N	0.079	W	10	G			0.6	16	PYRENEES. ML 3.2 (LDG).
	25	18	20	09.8	28.277	N	140.577	E	26	*	5.1		1.2	38	BONIN ISLANDS REGION
	25	18	28	47.8*	53.852	N	159.898	E	33	N	4.6		1.3	13	NEAR EAST COAST OF KAMCHATKA
	25	18	42	16.5*	44.936	N	141.568	E	33	N	4.3		0.7	8	HOKKAIDO, JAPAN REGION
	25	19	15	24.9*	42.865	N	17.929	E	10	G			1.0	6	ADRIATIC SEA. MD 2.6 (TTG).
	25	20	49	34.1*	4.889	S	152.798	E	33	N			0.5	5	NEW BRITAIN REGION
	25	22	14	48.4?	55.97	N	160.79	E	33	N	4.6		1.0	6	KAMCHATKA
	25	22	54	51.1?	32.69	S	71.45	W	33	N			1.1	6	NEAR COAST OF CENTRAL CHILE
	25	23	27	54.3&	61.352	N	150.333	W	47		4.5			53	SOUTHERN ALASKA. <AGS-P>. Felt (III) at Anchorage, Palmer and Willow. Felt (II) at Talkeetna.
	26	02	06	02.6	38.900	N	107.041	W	5	G			0.7	18	COLORADO. ML 3.1 (NEIS). Small precursor about 15 seconds prior to this event. Felt (III) about 9 miles south of Corbondale. Felt in the Aspen-Crested Butte-Redstone area.
	26	03	20	09.3	10.674	N	62.895	W	10	G	4.1		1.1	17	NEAR COAST OF VENEZUELA. Felt at Pilar and Rio Caribe.
	26	03	36	22.3*	10.122	N	67.040	W	10	G			1.2	7	NEAR COAST OF VENEZUELA
	26	04	02	28.3*	23.285	S	66.474	W	251	*	3.7		1.2	8	JUJUY PROVINCE, ARGENTINA
	26	06	42	22.2*	40.336	N	19.440	E	10	G			1.4	14	ALBANIA. MG 3.5 (TIR). Felt (IV) at Rexhepaj, Mertiraj, Gernec and Kocul.
	26	06	44	40.1	55.980	S	27.846	W	154	?	5.3		1.0	56	SOUTH SANDWICH ISLANDS REGION
	26	07	13	56.6*	24.872	N	123.365	E	117	?			1.4	11	SOUTHWESTERN RYUKYU ISLANDS
	26	07	39	55.9*	16.298	N	98.082	W	33	N	4.5		1.3	22	NEAR COAST OF GUERRERO, MEXICO
	26	07	53	33.2	5.990	S	131.063	E	123	*	4.8		0.6	10	BANDA SEA
	26	08	26	45.0*	30.782	S	69.288	W	33	N			0.6	7	CHILE-ARGENTINA BORDER REGION
f	26	09	43	00.3	37.724	N	101.496	E	8	G	6.2	5.9	1.1	346	QINGHAI PROVINCE, CHINA. Minor damage at Huzu and Menyuan. Felt in the Gulang-Lonzhou-Zhangye area, Ganzu Province. Depth from broadband displacement seismograms.
	26	10	29	58.9	37.675	N	101.585	E	10	G	5.4		0.9	119	QINGHAI PROVINCE, CHINA
	26	12	24	44.1&	40.278	N	127.247	W	5	G				17	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 4.0 (BRK).
	26	13	11	25.7	37.693	N	101.718	E	23		5.0		1.1	41	QINGHAI PROVINCE, CHINA
	26	13	15	01.9	6.214	S	152.788	E	48	*	4.6		1.1	14	NEW BRITAIN REGION
	26	13	37	41.6	45.015	N	7.401	E	10	G			1.0	16	NORTHERN ITALY. ML 3.0 (LDG).
	26	14	29	59.3?	31.57	S	71.81	W	33	N			1.2	7	NEAR COAST OF CENTRAL CHILE
	26	16	03	25.0	36.093	N	77.921	E	33	N	4.9		1.1	47	KASHMIR-XINJIANG BORDER REGION
	26	16	41	24.2&	38.340	N	89.790	W	5	G				17	SOUTHERN ILLINOIS. <SLM-P>. mbLg 3.7 (NEIS). Felt (V) at Belleville, Lenzburg and Marisa. Felt (IV) at Alhambra, Baldwin, Coulterville, Hecker, Lebanon, Modoc, New Athens, New Memphis, Prairie du Rocher, Smithton, St. Jacob, Summerfield and Troy.
	26	17	16	49.8?	36.38	N	78.19	E	33	N	4.1		1.4	5	KASHMIR-XINJIANG BORDER REGION
	26	17	52	55.9%	60.718	N	5.571	E	10	G			0.3	6	SOUTHERN NORWAY. MD 1.8 (BER).
	26	18	10	49.8	36.564	N	70.976	E	233	*	4.8		1.0	38	HINDU KUSH REGION
	26	19	03	49.7*	2.286	N	126.988	E	33	N	4.6		1.0	11	MOLUCCA PASSAGE
	26	19	07	20.7	37.553	N	118.395	W	5	G			0.7	16	CALIFORNIA-NEVADA BORDER REGION. ML 3.4 (BRK).
	26	19	21	31.6%	60.627	N	4.851	E	10	G			0.2	6	SOUTHERN NORWAY. MD 1.7 (BER).
	26	19	36	15.7*	56.257	N	164.020	E	33	N	4.7		0.6	12	KOMANDORSKY ISLANDS REGION
a	26	21	52	26.6	15.192	S	173.481	W	21	D	5.6	5.8	1.2	134	TONGA ISLANDS
	26	21	58	02.6&	62.187	N	148.503	W	35					25	CENTRAL ALASKA. <AGS-P>.
	26	22	11	39.0*	15.103	S	173.467	W	33	N	5.2	5.7	1.3	61	TONGA ISLANDS
	26	23	03	45.7	31.682	S	71.104	W	53	D	5.4	5.7	1.0	79	NEAR COAST OF CENTRAL CHILE. Felt (III) along the coast and at Santiago.
	27	01	15	52.5?	2.24	N	126.82	E	33	N	4.2		1.3	11	MOLUCCA PASSAGE
	27	01	33	19.1	41.203	N	22.317	E	10	G			0.7	8	YUGOSLAVIA
	27	02	55	23.3	38.919	N	21.788	E	10	G	3.9		0.9	14	GREECE. ML 3.3 (ATH).
	27	03	54	40.4&	60.071	N	153.073	W	116					18	SOUTHERN ALASKA. <AGS-P>.
	27	05	24	48.2	42.325	N	20.007	E	10	G			0.9	11	YUGOSLAVIA. MD 2.9 (TTG).
	27	05	59	56.9*	15.010	N	146.898	E	33	N	4.5		0.7	12	MARIANA ISLANDS
	27	06	35	13.3	42.388	N	19.912	E	10	G			0.5	7	YUGOSLAVIA. ML 2.3 (TTG).
	27	07	44	22.7%	45.865	N	27.123	E	33	N			1.7	7	ROMANIA
	27	08	47	17.7*	32.059	S	71.556	W	33	N			1.0	9	NEAR COAST OF CENTRAL CHILE
	27	09	20	40.9&	37.598	N	118.457	W	13					21	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.3 (BRK).
	27	10	41	50.9	34.162	S	177.381	W	33	N	5.3		1.1	36	SOUTH OF KERMADEC ISLANDS
	27	11	16	41.7	36.118	N	139.705	E	70		4.3		0.9	15	HONSHU, JAPAN. Felt (III JMA) at Utsunomiya, (II JMA) at Mito and (I JMA) at Maebashi, Tokyo and Yokohama.
	27	11	45	47.5	14.924	N	146.931	E	33	N	5.1	4.8	1.0	73	MARIANA ISLANDS
	27	13	15	22.6	37.703	N	101.787	E	10	G	4.3		1.3	17	QINGHAI PROVINCE, CHINA
	27	13	35	27.8%	39.474	N	28.332	E	10	G			1.5	5	TURKEY
	27	14	12	10.4&	59.025	N	142.758	W	30	G	4.5			59	GULF OF ALASKA. <AGS-P>. ML 4.3 (PMR).
	27	14	20	26.6*	53.601	N	160.111	E	33	N	5.0		0.7	18	NEAR EAST COAST OF KAMCHATKA
	27	15	41	53.5*	16.183	S	34.143	E	10	G	4.5		1.4	10	MOZAMBIQUE. Felt (III) at Chileka, Malawi.
	27	15	54	09.5?	60.29	N	5.44	E	10	G			0.2	4	SOUTHERN NORWAY. MD 1.6 (BER).
	27	16	15	05.0*	51.177	N	15.790	E	10	G			1.6	8	POLAND. ML 3.5 (VKA), 3.3 (KBA).
	27	17	28	40.9?	44.98	N	28.51	E	5	G			1.3	5	ROMANIA
	27	18	06	56.3	35.160	N	105.094	W	5	G			1.2	8	NEW MEXICO. ML 3.2 (NEIS), mbLg 3.0 (TUL). Felt at

													Anton Chico and Las Vegas.
27	18	36	24.9	6.215	S	105.145	E	76	*	5.2	1.0	40	SUNDA STRAIT
27	20	15	41.8?	0.58	S	16.07	W	10	G	4.6	0.2	5	NORTH OF ASCENSION ISLAND
27	20	41	31.8	2.350	S	138.374	E	33	N	5.2	1.2	55	WEST IRIAN
27	20	48	34.1?	38.73	N	22.17	E	10	G		1.5	5	GREECE
27	21	04	01.3?	17.79	S	177.55	W	289	?	4.3	1.0	14	FIJI ISLANDS REGION
27	21	08	34.0	12.937	S	166.299	E	33	N	5.1	0.8	21	SANTA CRUZ ISLANDS
27	21	35	52.2	38.884	N	107.057	W	5	G		0.4	12	COLORADO. ML 2.3 (NEIS).
27	21	36	29.3	24.312	S	67.238	W	192	*		1.1	13	CHILE-ARGENTINA BORDER REGION
27	22	23	37.5%	40.813	N	28.152	E	10	G		0.8	7	TURKEY
27	23	44	17.1	4.567	S	76.149	W	125	D	4.7	1.0	46	NORTHERN PERU
27	23	46	03.0*	34.503	S	70.611	W	119	?		0.1	9	CHILE-ARGENTINA BORDER REGION
27	23	51	50.4*	33.604	S	70.590	W	68	?		0.4	8	CHILE-ARGENTINA BORDER REGION
28	00	28	24.6%	39.448	N	28.858	E	10	G		0.5	5	TURKEY
28	01	09	53.6	34.664	N	91.710	E	33	N		0.6	8	QINGHAI PROVINCE, CHINA
28	02	57	29.8?	37.42	N	3.47	W	5	G		0.3	4	SPAIN. MG 2.6 (MDD).
28	03	21	09.2*	46.907	N	121.865	W	10	G		1.3	5	WASHINGTON. ML 2.4 (NEIS).
28	04	43	08.2?	19.35	N	109.43	W	10	G	4.1	0.7	16	REVILLA GIGEDO ISLANDS REGION
28	06	38	20.0*	38.488	N	25.012	E	10	G		0.8	6	AEGEAN SEA. ML 3.3 (ATH).
28	10	14	18.0&	32.585	N	117.310	W	5	G			11	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.7 (PAS). Felt (V) at San Diego and Solana Beach, California. Felt (III) at Spring Valley, California.
28	10	23	11.5*	29.315	N	129.697	E	33	N		1.7	5	RYUKYU ISLANDS
28	11	47	26.3	62.514	N	124.086	W	10	G	4.2	0.7	9	NORTHWEST TERRITORIES, CANADA
28	12	58	07.3*	37.697	N	101.744	E	10	G	4.5	1.2	11	QINGHAI PROVINCE, CHINA
28	13	11	43.6	34.563	N	91.882	E	33	N		1.1	12	QINGHAI PROVINCE, CHINA
28	14	39	32.6%	41.975	N	25.554	E	10	G		0.5	6	GREECE-BULGARIA BORDER REGION
28	15	33	56.8?	4.68	S	133.83	E	33	N		0.8	6	WEST IRIAN REGION
28	16	02	11.9?	5.44	S	152.64	E	33	N		1.3	5	NEW BRITAIN REGION
28	16	05	52.7%	39.520	N	28.373	E	5	G		1.6	5	TURKEY
28	16	19	54.3	51.330	N	157.565	E	76	D	5.0	0.7	60	NEAR EAST COAST OF KAMCHATKA
28	16	59	12.6?	18.51	S	66.33	W	131	?		1.2	5	BOLIVIA
28	17	06	27.2*	35.971	N	69.489	E	102	?	4.6	1.1	13	HINDU KUSH REGION
28	20	59	42.8*	44.177	N	18.006	E	10	G		1.5	10	YUGOSLAVIA
28	21	13	15.9*	32.420	S	69.958	W	144	?		0.6	10	MENDOZA PROVINCE, ARGENTINA
28	21	47	01.0*	37.863	N	101.858	E	10	G	4.2	1.2	7	QINGHAI PROVINCE, CHINA
28	22	21	48.4%	45.610	N	26.544	E	140	G		0.6	8	ROMANIA
28	23	41	39.5*	5.154	S	152.327	E	33	N		0.8	6	NEW BRITAIN REGION
28	23	55	09.3	40.634	N	29.707	E	10	G		1.3	9	TURKEY
29	00	20	52.8*	1.645	S	120.026	E	10	G	4.0	1.5	5	SULAWESI
29	02	14	35.7*	21.225	S	68.873	W	33	N		0.9	6	CHILE-BOLIVIA BORDER REGION
29	04	30	09.5	20.716	S	70.702	W	40	*	5.0 4.1	1.4	51	NEAR COAST OF NORTHERN CHILE
29	05	12	21.3*	36.499	N	70.942	E	91	?	4.1	0.7	9	HINDU KUSH REGION
29	05	13	56.3*	51.949	N	171.413	W	33	N	4.3	1.2	11	FOX ISLANDS, ALEUTIAN ISLANDS
29	05	19	36.6*	28.737	S	67.743	W	12	*		0.8	7	LA RIOJA PROVINCE, ARGENTINA
29	06	44	42.6&	35.877	N	120.493	W	5				22	CENTRAL CALIFORNIA. <BRK>. ML 3.2 (BRK). Felt (III) at Paso Robles and San Ardo. Also felt at Parkfield.
29	07	38	19.8*	60.735	N	4.115	E	10	G		1.5	9	SOUTHERN NORWAY. ML 2.9 (BER).
29	07	46	53.3	33.953	N	116.623	W	10	G		1.2	13	SOUTHERN CALIFORNIA. ML 4.0 (PAS). Felt (VI) at Hemet, (V) at Desert Hot Springs and (IV) at Cathedral City, Indio, North Palm Springs and Yucca Valley. Also felt at Palm Springs, Beaumont, Cabazon, Forest Falls and White Water.
29	08	04	56.0*	33.534	N	94.907	E	33	N	3.6	1.3	6	QINGHAI PROVINCE, CHINA
29	08	09	01.6*	51.700	N	171.797	W	33	N	4.4	0.7	8	FOX ISLANDS, ALEUTIAN ISLANDS
29	08	26	24.0&	42.106	N	111.655	W	1	G			12	EASTERN IDAHO. <SLC-P>. ML 3.2 (SLC).
29	09	09	14.6?	42.82	N	18.78	E	10	G		0.4	4	YUGOSLAVIA. ML 2.2 (TTG).
29	09	37	34.6&	42.105	N	111.652	W	1	G			9	EASTERN IDAHO. <SLC-P>. ML 2.4 (SLC). Felt (III) at Preston.
29	10	00	31.2	42.195	N	19.552	E	10	G		0.9	8	YUGOSLAVIA. ML 2.6 (TTG).
29	10	21	33.0	12.506	S	166.659	E	108		4.9	0.7	55	SANTA CRUZ ISLANDS
29	13	41	20.1	1.070	N	126.080	E	75		4.8	1.0	42	MOLUCCA PASSAGE
29	14	00	59.3	63.064	N	150.793	W	119		4.4	0.7	20	CENTRAL ALASKA
29	14	42	28.2&	59.175	N	153.620	W	107				31	SOUTHERN ALASKA. <AGS-P>.
29	14	57	02.8	46.343	N	12.470	E	10	G	4.8	1.1	130	NORTHERN ITALY. ML 4.8 (LDG), 4.4 (TRI). Slight damage (VI) and landslides in the Pieve di Cadore area. Felt in the Bolzano-Treviso-Udine area.
29	15	00	50.2	46.319	N	12.436	E	10	G		0.9	43	NORTHERN ITALY. ML 4.4 (LDG), 3.8 (TRI), 3.7 (FIR). Felt in the Belluno area.
29	18	52	25.4*	42.495	N	20.174	E	10	G		0.5	5	YUGOSLAVIA. MD 2.4 (TTG).
29	19	30	20.8	43.185	N	25.937	E	10	G		1.0	10	BULGARIA
29	20	59	27.9?	27.62	S	66.46	W	236	?		0.5	7	CATAMARCA PROVINCE, ARGENTINA
29	23	03	08.6&	40.613	N	124.885	W	6	G			5	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.1 (BRK).
30	01	01	27.1?	43.05	N	18.01	E	10	G		0.7	6	YUGOSLAVIA. ML 2.8 (TTG).
30	01	49	56.4	33.599	S	72.305	W	33	N	4.3	1.0	23	OFF COAST OF CENTRAL CHILE
30	03	40	12.4*	6.789	S	146.723	E	33	N		1.4	6	EAST PAPUA NEW GUINEA REGION
30	04	22	09.5*	34.890	N	25.352	E	122	?	3.8	0.7	9	CRETE
30	04	47	10.7	39.087	N	27.859	E	10	G		0.9	24	TURKEY. ML 4.1 (ATH).
30	05	49	04.7	39.125	N	27.821	E	10	G		0.9	14	TURKEY
30	05	55	02.7%	39.035	N	27.890	E	10	G		1.1	6	TURKEY
30	06	07	02.2%	39.071	N	27.833	E	10	G		0.4	7	TURKEY
30	07	45	46.6?	34.50	N	88.20	E	33	N	4.2	1.4	6	TIBET
30	07	49	24.1	39.070	N	27.866	E	10	G		0.6	9	TURKEY
30	09	24	35.7	39.096	N	27.831	E	10	G		1.1	7	TURKEY
30	10	20	13.4%	41.988	N	24.753	E	10	G		0.5	5	GREECE-BULGARIA BORDER REGION
30	10	30	45.8	39.124	N	27.770	E	10	G		1.2	9	TURKEY
30	11	37	03.0	11.223	S	118.477	E	33	N	5.0	1.2	22	SOUTH OF SUMBAWA ISLAND
30	11	42	28.6	38.881	N	107.053	W	5	G		1.0	19	COLORADO. ML 2.5 (NEIS).
30	12	09	34.0*	39.392	N	28.200	E	10	G		1.3	5	TURKEY
30	12	09	43.1?	39.28	N	27.94	E	10	G		1.2	5	TURKEY
30	12	42	46.7	39.079	N	27.842	E	10	G		0.6	9	TURKEY
30	12	50	08.6?	5.20	S	154.48	E	33	N	4.7	0.5	6	SOLOMON ISLANDS
30	13	00	12.7	39.071	N	27.845	E	10	G		0.9	8	TURKEY

	30	13 06 23.0?	5.14	S	154.48	E	33	N	4.6		1.4	5	SOLOMON ISLANDS
	30	13 37 43.4*	20.408	S	66.752	W	258	?			1.4	9	SOUTHERN BOLIVIA
	30	14 08 50.6*	28.072	N	54.478	E	33	N	4.2		0.9	11	SOUTHERN IRAN
	30	14 13 42.9*	38.874	N	28.272	E	10	G			1.2	7	TURKEY
	30	15 04 46.4	8.258	S	121.118	E	210	*	4.3		1.0	10	FLORES ISLAND REGION
	30	15 05 50.9?	26.39	S	27.39	E	5	G			1.6	4	REPUBLIC OF SOUTH AFRICA. MG 3.6 (BUL).
	30	15 52 12.6	5.010	S	153.617	E	85	*	4.1		1.3	21	NEW IRELAND REGION
	30	17 58 22.5*	25.364	S	179.651	E	537	*	4.5		0.9	10	SOUTH OF FIJI ISLANDS
	30	18 12 22.8?	33.48	N	82.14	E	33	N	4.1		1.6	6	TIBET
	30	18 43 32.6	39.099	N	27.860	E	10	G			0.8	6	TURKEY
	30	18 45 15.4	9.504	S	113.002	E	60	*	5.2		1.3	75	SOUTH OF JAVA
	30	19 08 39.2	41.694	N	24.253	E	10	G			1.0	10	GREECE-BULGARIA BORDER REGION
	30	19 16 21.6%	41.688	N	24.250	E	10	G			0.5	6	GREECE-BULGARIA BORDER REGION
	30	19 16 27.3*	51.265	N	15.782	E	10	G			1.5	8	POLAND. ML 3.6 (VKA), 3 5 (KBA).
	30	20 02 09.0?	59.39	N	6.57	E	5	G			1.1	6	SOUTHERN NORWAY. MD 1.9 (BER).
	30	20 29 40.5	39.111	N	27.782	E	10	G			1.0	9	TURKEY
	30	21 12 18.1*	45.141	N	3.297	E	10	G			0.7	9	FRANCE. ML 2.8 (LDG).
	30	21 13 29.3*	37.444	N	20.363	E	10	G	4.3		1.1	11	IONIAN SEA. ML 3.9 (ATH).
f	30	21 28 35.4	45.547	N	26.316	E	132	G	6.4	6.9	1.1	554	ROMANIA. Damage (VIII) in the Focsani-Birlad area, including the collapse of a church. Felt (VII) at Bucharest. Two people killed, 558 injured, and about 55,000 homes damaged, leaving more than 12,500 people homeless in the Kishinev-Kogul area, USSR. Felt (VII) in northern Bulgaria; (V) in the Skopje area, Yugoslavia; (IV) at Simferopol and Kiev, USSR and Belgrade, Yugoslavia; (III) at Moscow, USSR and Titograd, Yugoslavia. Felt throughout central and eastern Hungary. Also felt in Greece, Turkey, southern Italy and eastern Poland. Depth from broadband displacement seismograms.
	30	22 20 47.0%	39.060	N	27.919	E	10	G			0.4	6	TURKEY
	30	22 56 51.4*	28.650	S	178.413	W	258	*	5.0		1.1	29	KERMADEC ISLANDS REGION
	31	02 39 56.7	41.655	N	24.239	E	10	G			0.8	6	GREECE-BULGARIA BORDER REGION
	31	02 44 50.1	19.144	N	121.129	E	51		4.8		0.9	70	PHILIPPINE ISLANDS REGION. Felt (II RF) at Pasuquin.
	31	03 12 02.3*	37.490	N	71.281	E	33	N	4.1		1.1	7	AFGHANISTAN-USSR BORDER REGION
	31	06 09 30.3?	4.53	N	75.25	W	33	N			0.0	4	COLOMBIA. Felt at Ibague.
	31	06 19 50.8%	45.494	N	26.542	E	140	G			0.8	8	ROMANIA
	31	06 24 45.9?	8.46	S	158.29	E	33	N			0.9	5	SOLOMON ISLANDS
	31	06 58 00.9%	45.580	N	26.528	E	140	G			0.7	8	ROMANIA
	31	07 59 11.2*	33.005	S	72.019	W	10	G			0.2	10	OFF COAST OF CENTRAL CHILE
	31	08 38 39.4	18.458	S	175.050	W	208	D	5.3		1.1	126	TONGA ISLANDS
a	31	09 23 04.7	23.042	N	144.120	E	46	*	5.4	5.9	1.1	155	VOLCANO ISLANDS REGION. Ms 5.9 (BRK).
	31	09 37 18.1*	22.985	N	144.212	E	33	N	5.0		0.9	20	VOLCANO ISLANDS REGION
	31	11 38 22.7*	22.621	S	170.571	E	33	N	4.8		1.3	14	LOYALTY ISLANDS REGION
	31	12 24 58.5?	6.63	S	154.90	E	33	N			0.9	4	SOLOMON ISLANDS
	31	12 35 08.5*	45.471	N	26.360	E	150	*	3.2		0.7	11	ROMANIA
	31	14 34 31.6	11.340	S	118.777	E	33	N	4.8		1.1	16	SOUTH OF SUMBAWA ISLAND
	31	14 42 49.2*	39.116	N	27.874	E	10	G			1.1	5	TURKEY
	31	14 55 15.6*	17.584	S	173.862	W	33	N	4.9		1.1	29	TONGA ISLANDS
	31	17 33 46.4*	10.913	S	119.183	E	33	N			0.6	5	SUMBA ISLAND REGION
	31	19 30 25.1%	44.622	N	6.902	E	10	G			0.3	5	FRANCE. ML 1.9 (LDG).
	31	19 30 45.8%	44.614	N	6.981	E	10	G			0.4	5	FRANCE. ML 2.1 (LDG).
	31	19 47 20.4?	63.29	S	173.35	E	10	G	4.4		1.2	5	BALLENY ISLANDS REGION
	31	20 18 50.5%	45.114	N	3.060	E	10	G			1.0	7	FRANCE. ML 1.8 (LDG).
	31	21 20 15.3*	19.965	N	97.973	E	10	G			0.7	6	BURMA
	31	22 26 00.2?	46.79	N	0.54	E	10	G			0.1	4	FRANCE. ML 2.1 (LDG).
	31	22 57 34.5	37.141	N	3.162	W	10	G			1.3	23	SPAIN. MG 3.7 (MDD). Felt (IV) at Finana, La Calahorra, Trevelez and Ugijar and (III) at Cadiar.
	31	23 25 48.4?	37.39	N	3.00	W	10	G			0.4	4	SPAIN. MG 2.9 (MDD). Felt (V) at Aldeire.
	31	23 27 56.4*	18.337	N	65.076	W	33	N			0.5	10	PUERTO RICO REGION. Felt at Aguas Buenas and Bayamon.
	31	23 29 33.1	41.875	N	126.331	W	10	G	4.4	4.1	1.2	40	OFF COAST OF NORTHERN CALIFORNIA

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

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01 14 09 24.97  35.880S 103.702W  10km
   5.5mb ( 20 obs.)  5.8Msz (  1 obs.)
   SOUTHERN PACIFIC OCEAN
   CENTROID, MOMENT TENSOR     (HRV)
   Data Used: GDSN
   L.P.B.: 15S, 32C
   Centroid Location:
   Origin Time        14:09:31.4 0.3
   Lat 35.73S 0.06 Lon 103.66W 0.06
   Dep  15.0 FIX Half-duration  2.1
   Principal Axes:
     Scale 10**24 D-CM
     T  Val=  2.25  Plg= 3  Azm=231
     N       -0.17       78       125
     P       -2.08       11       321
   Best Double Couple:Mo=2.2*10**24
    NP1:Strike=  6 Dip=80 Slip=  -6
    NP2:         97     84      -170

01 16 20 59.18  16.948S 179.089W 517km
   4.9mb ( 27 obs.)
   FIJI ISLANDS REGION
   CENTROID, MOMENT TENSOR     (HRV)
   Data Used: GDSN
   L.P.B.: 12S, 21C
   Centroid Location:
   Origin Time        16:21: 4.4 1.1
   Lat 17.03S 0.11 Lon 178.91W 0.10
   Dep 531.3 5.8 Half-duration  1.7
   Principal Axes:
     Scale 10**23 D-CM
     T  Val= 10.43  Plg=18  Azm=137
     N       -1.35       72       312
     P       -9.08        1        46
   Best Double Couple:Mo=9.8*10**23
    NP1:Strike=180 Dip=76 Slip= 168
    NP2:         273     78        14

01 21 05 39.78  51.369N 174.283W  33km
   5.5mb ( 63 obs.)  5.0Msz (  9 obs.)
   ANDREANOF ISLANDS, ALEUTIAN IS.
   CENTROID, MOMENT TENSOR     (HRV)
   Data Used: GDSN
   L.P.B.: 14S, 28C
   Centroid Location:
   Origin Time        21:05:43.1 0.6
   Lat 51.58N 0.06 Lon 173.92W 0.14
   Dep  15.0 FIX Half-duration  1.7
   Principal Axes:
     Scale 10**23 D-CM
     T  Val= 14.64  Plg=63  Azm=318
     N        0.48        6        59
     P      -15.12       27       152
   Best Double Couple:Mo=1.5*10**24
    NP1:Strike=256 Dip=19 Slip= 108
    NP2:         57     72        84

02 12 42 12.40  28.304S 177.686W  33km
   5.2mb (  9 obs.)  5.3Msz (  5 obs.)
   KERMADEC ISLANDS REGION
   CENTROID, MOMENT TENSOR     (HRV)
   Data Used: GDSN
   L.P.B.: 15S, 32C
   Centroid Location:
   Origin Time        12:42:13.5 0.6
   Lat 28.21S 0.04 Lon 177.97W 0.05
   Dep  15.0 FIX Half-duration  2.3
   Principal Axes:
     Scale 10**24 D-CM
     T  Val=  3.09  Plg= 8  Azm=114
     N       -0.65       13        22
     P       -2.44       74       236
   Best Double Couple:Mo=2.8*10**24
    NP1:Strike=220 Dip=38 Slip= -68
    NP2:         13     55      -107

02 17 49 25.69  13.073N  88.806W  80km
   5.4mb ( 57 obs.)
   EL SALVADOR
   CENTROID, MOMENT TENSOR     (HRV)
   Data Used: GDSN
   L.P.B.: 11S, 29C
   Centroid Location:
   Origin Time        17:49:21.2 0.3
   Lat 12.75N 0.04 Lon  89.12W 0.04
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Dep 53.7 2.6 Half-duration 2.4
Principal Axes:
Scale 10**24 D-CM
T Val= 3.19 Plg=19 Azm= 53
N 0.05 6 321
P -3.24 70 215
Best Double Couple:Mo=3.2*10**24
NP1:Strike=153 Dip=27 Slip= -77
NP2: 318 64 -96

02 20 35 36.20 58.265S 15.319W 10km
5.4mb (9 obs.) 5.2Msz (1 obs.)
SOUTHWESTERN ATLANTIC OCEAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 37C
Centroid Location:
Origin Time 20:35:40.2 0.3
Lat 58.74S 0.04 Lon 15.47W 0.07
Dep 15.0 FIX Half-duration 2.1
Principal Axes:
Scale 10**24 D-CM
T Val= 2.23 Plg=17 Azm=308
N -0.34 55 193
P -1.89 30 48
Best Double Couple:Mo=2.1*10**24
NP1:Strike= 85 Dip=56 Slip= -10
NP2: 181 81 -146

03 13 29 10.17 51.164N 176.800W 33km
5.4mb (78 obs.) 5.6Msz (26 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 37C
Centroid Location:
Origin Time 13:29:10.8 0.3
Lat 51.57N 0.03 Lon 177.01W 0.07
Dep 18.0 BDY Half-duration 3.5
Principal Axes:
Scale 10**24 D-CM
T Val= 7.94 Plg=62 Azm=318
N 0.30 10 67
P -8.24 26 162
Best Double Couple:Mo=8.1*10**24
NP1:Strike=275 Dip=21 Slip= 120
NP2: 64 72 79

04 13 54 07.17 2.370S 138.893E 48km
5.1mb (17 obs.) 5.2Msz (1 obs.)
WEST IRIAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 17C
Centroid Location:
Origin Time 13:54: 8.5 0.9
Lat 2.24S 0.09 Lon 138.88E 0.12
Dep 39.411.8 Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM
T Val= 4.78 Plg=74 Azm= 70
N 0.96 3 330
P -5.74 16 239
Best Double Couple:Mo=5.3*10**23
NP1:Strike=325 Dip=29 Slip= 85
NP2: 152 61 93

04 22 34 37.87 46.331N 153.182E 33km
5.5mb (72 obs.) 5.1Msz (13 obs.)
KURIL ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 23C
Centroid Location:
Origin Time 22:34:38.5 0.5
Lat 46.33N 0.06 Lon 153.35E 0.10
Dep 17.2 3.4 Half-duration 1.9
Principal Axes:
Scale 10**24 D-CM
T Val= 1.45 Plg=74 Azm=322
N -0.01 4 218
P -1.44 16 127
Best Double Couple:Mo=1.4*10**24
NP1:Strike=212 Dip=30 Slip= 82
NP2: 41 61 94

05 11 15 31.41 24.197S 177.168W 33km
5.3mb (15 obs.) 5.0Msz (4 obs.)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 24C
Centroid Location:
Origin Time 11:15:33.1 0.9
Lat 24.36S 0.08 Lon 177.42W 0.09
Dep 15.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**23 D-CM
T Val= 10.15 Plg=16 Azm=104
N 0.32 22 7
P -10.48 62 227
Best Double Couple:Mo=1.0*10**24
NP1:Strike=223 Dip=35 Slip= -49
NP2: 356 65 -115

05 19 17 11.84 24.069S 177.306W 33km
5.1mb (8 obs.) 5.0Msz (2 obs.)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 23C
Centroid Location:
Origin Time 19:17:13.9 1.1
Lat 24.30S 0.09 Lon 177.24W 0.10
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM
T Val= 8.08 Plg= 9 Azm=299
N -1.07 69 53
P -7.00 19 206
Best Double Couple:Mo=7.5*10**23
NP1:Strike=344 Dip=70 Slip=-172
NP2: 252 83 -20

05 20 59 25.04 53.027N 153.306E 512km
4.7mb (64 obs.)
SEA OF OKHOTSK
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 25C
Centroid Location:
Origin Time 20:59:30.5 0.6
Lat 52.91N 0.06 Lon 152.85E 0.12
Dep 511.5 4.0 Half-duration 1.7
Principal Axes:
Scale 10**23 D-CM
T Val= 9.92 Plg=30 Azm= 90
N -0.35 1 180
P -9.56 60 271
Best Double Couple:Mo=9.7*10**23
NP1:Strike=178 Dip=15 Slip= -92
NP2: 0 75 -89

06 09 54 52.64 23.763S 179.936E 545km
5.1mb (31 obs.)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 21C
Centroid Location:
Origin Time 09:54:56.5 1.1
Lat 24.09S 0.11 Lon 179.98E 0.10
Dep 558.4 4.7 Half-duration 1.6
Principal Axes:
Scale 10**23 D-CM
T Val= 9.21 Plg=66 Azm=116
N -0.87 9 228
P -8.34 21 321
Best Double Couple:Mo=8.8*10**23
NP1:Strike= 68 Dip=25 Slip= 112
NP2: 224 67 80

06 13 56 05.75 55.29 S 128.98 W 10km
4.8mb (8 obs.) 5.5Msz (1 obs.)
SOUTH PACIFIC CORDILLERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 38C
Centroid Location:
Origin Time 13:56:13.0 0.2
Lat 55.35S 0.03 Lon 128.93W 0.04
Dep 15.0 FIX Half-duration 3.0
Principal Axes:
Scale 10**24 D-CM
T Val= 5.40 Plg=11 Azm=336
N 0.07 64 90
P -5.47 23 241
Best Double Couple:Mo=5.4*10**24
NP1:Strike= 21 Dip=65 Slip=-171
NP2: 287 82 -25

06 19 55 15.66 29.344N 100.915E 34km
5.5mb (71 obs.) 5.0Msz (5 obs.)
SICHUAN PROVINCE, CHINA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 25C
Centroid Location:
Origin Time 19:55:20.3 0.4
Lat 29.15N 0.07 Lon 101.20E 0.10
Dep 15.0 BDY Half-duration 1.8
Principal Axes:
Scale 10**23 D-CM
T Val= 10.72 Plg=23 Azm=357
N 2.07 39 107
P -12.79 43 244
Best Double Couple:Mo=1.2*10**24
NP1:Strike= 40 Dip=41 Slip=-162
NP2: 296 78 -50

07 02 51 28.99 18.010S 178.403W 595km
5.0mb (35 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 26C
Centroid Location:
Origin Time 02:51:33.1 1.1
Lat 18.02S 0.10 Lon 178.27W 0.09
Dep 603.4 5.0 Half-duration 2.0
Principal Axes:
Scale 10**24 D-CM
T Val= 1.20 Plg=14 Azm= 18
N 0.06 47 123
P -1.27 40 276
Best Double Couple:Mo=1.2*10**24
NP1:Strike= 65 Dip=52 Slip=-159
NP2: 322 73 -40

07 12 10 19.08 11.709N 95.297E 33km
5.2mb (42 obs.)
ANDAMAN ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 25C
Centroid Location:
Origin Time 12:10:17.0 0.9
Lat 11.86N 0.11 Lon 94.64E 0.10
Dep 33.0 FIX Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM
T Val= 4.35 Plg=11 Azm=129
N 0.54 79 309
P -4.89 0 39
Best Double Couple:Mo=4.6*10**23
NP1:Strike=173 Dip=82 Slip= 172
NP2: 265 82 8

07 22 32 50.43 7.433N 81.241W 8km
5.4mb (64 obs.) 5.4Msz (17 obs.)
PANAMA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 30C
Centroid Location:
Origin Time 22:32:58.0 0.3
Lat 7.53N 0.04 Lon 81.06W 0.04
Dep 15.0 BDY Half-duration 2.5
Principal Axes:
Scale 10**24 D-CM
T Val= 3.67 Plg= 3 Azm=124
N 0.47 52 30
P -4.14 38 216
Best Double Couple:Mo=3.9*10**24
NP1:Strike=253 Dip=62 Slip= -27
NP2: 356 67 -150

08 16 18 58.18 7.850N 59.548E 10km
4.9mb (14 obs.) 4.8Msz (1 obs.)
CARLSBERG RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 22C
Centroid Location:
Origin Time 16:19: 1.6 1.1
Lat 8.36N 0.20 Lon 59.46E 0.08
Dep 15.0 FIX Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM
T Val= 5.90 Plg=12 Azm= 59
N -0.45 17 153
P -5.46 68 295
Best Double Couple:Mo=5.7*10**23
NP1:Strike=128 Dip=36 Slip=-120
NP2: 344 60 -70

09 00 53 12.63 14.099N 120.335E 80km
5.5mb (71 obs.)
LUZON, PHILIPPINE ISLANDS

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 31C
Centroid Location:
Origin Time 00:53:13.6 0.3
Lat 13.95N 0.03 Lon 120.19E 0.04
Dep 80.0 BDY Half-duration 2.2
Principal Axes:
Scale 10**24 D-CM
T Val= 1.75 Plg=26 Azm=119
N 0.66 23 17
P -2.42 54 252
Best Double Couple:Mo=2.1*10**24
NP1:Strike=250 Dip=28 Slip= -34
NP2: 11 75 -114

10 04 40 49.77 1.985N 128.271E 104km
6.1mb (63 obs.)
HALMAHERA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=122 Dip=68 Slip= 80
NP2: 327 24 113
Principal Axes:
T Plg=66 Azm= 15
P 22 220
Comment: The focal mechanism is moderately well controlled ond corresponds to reverse faulting with a small right-lateral strike-slip component. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 110 No. of sto: 10
Principal Axes:
Scale 10**25 d-cm
T Val= 4.42 Plg=57 Azm=327
N 0.06 29 117
P -4.48 13 215
Best Double Couple:Mo=4.5*10**25
NP1:Strike=338 Dip=41 Slip= 138
NP2: 102 64 57
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 20S, 47C M.W.: 7S, 14C
Centroid Location:
Origin Time 04:40:54.0 0.2
Lat 1.95N 0.02 Lon 128.11E 0.02
Dep 109.6 0.9 Half-duration 5.0
Principal Axes:
Scale 10**25 D-CM
T Val= 2.62 Plg=67 Azm=351
N -0.09 13 115
P -2.52 18 209
Best Double Couple:Mo=2.6*10**25
NP1:Strike=320 Dip=29 Slip= 118
NP2: 108 65 75

11 06 58 05.06 14.745S 66.477E 10km
5.2mb (28 obs.) 5.0Msz (3 obs.)
MID-INDIAN RISE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 22C
Centroid Location:
Origin Time 06:58:12.2 1.5
Lat 14.51S 0.14 Lon 66.54E 0.12
Dep 15.0 FIX Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM
T Val= 4.67 Plg= 7 Azm=232
N 0.48 26 325
P -5.16 63 129
Best Double Couple:Mo=4.9*10**23
NP1:Strike=296 Dip=45 Slip=-128
NP2: 163 57 -59

11 08 05 56.83 22.265N 121.647E 124km
5.5mb (79 obs.)
TAIWAN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 25C
Centroid Location:
Origin Time 08:05:59.1 0.6
Lat 22.35N 0.05 Lon 121.42E 0.07
Dep 131.6 2.3 Half-duration 2.0
Principal Axes:
Scale 10**24 D-CM
T Val= 1.71 Plg=68 Azm=140
N -0.08 21 340
P -1.63 7 247
Best Double Couple:Mo=1.7*10**24
NP1:Strike=314 Dip=42 Slip= 58
NP2: 175 55 116

11 10 37 59.17 20.101N 121.312E 33km
5.4mb (64 obs.) 5.0Msz (7 obs.)
PHILIPPINE ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 24C
Centroid Location:
Origin Time 10:38: 1.5 0.4
Lat 19.93N 0.04 Lon 120.70E 0.04
Dep 20.0 BDY Half-duration 2.2
Principal Axes:
Scale 10**24 D-CM
T Val= 2.54 Plg=80 Azm= 46
N 0.57 6 169
P -3.10 8 259
Best Double Couple:Mo=2.8*10**24
NP1:Strike=356 Dip=37 Slip= 99
NP2: 165 54 83

11 19 43 13.18 0.075S 17.852W 10km
5.0mb (45 obs.) 4.6Msz (2 obs.)
NORTH OF ASCENSION ISLAND
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 33C
Centroid Location:
Origin Time 19:43:21.2 0.5
Lat 0.29N 0.05 Lon 17.67W 0.05
Dep 15.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**24 D-CM
T Val= 1.11 Plg=10 Azm= 36
N -0.05 79 236
P -1.06 4 126
Best Double Couple:Mo=1.1*10**24
NP1:Strike=171 Dip=80 Slip= 5
NP2: 81 85 170

11 22 06 43.28 30.923S 67.685W 5km
5.4mb (21 obs.) 4.9Msz (4 obs.)
SAN JUAN PROVINCE, ARGENTINA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 28C
Centroid Location:
Origin Time 22:06:49.5 0.4
Lat 31.19S 0.06 Lon 67.76W 0.07
Dep 26.5 5.5 Half-duration 1.8
Principal Axes:
Scale 10**23 D-CM
T Val= 13.67 Plg=35 Azm=155
N -0.76 48 296
P -12.91 20 50
Best Double Couple:Mo=1.3*10**24
NP1:Strike=187 Dip=49 Slip= 167
NP2: 285 80 41

12 00 59 28.98 23.987S 177.199W 33km
5.1mb (8 obs.) 5.1Msz (7 obs.)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 29C
Centroid Location:
Origin Time 00:59:33.4 0.7
Lat 24.18S 0.05 Lon 177.24W 0.06
Dep 15.0 FIX Half-durotion 1.9
Principal Axes:
Scale 10**24 D-CM
T Val= 1.49 Plg= 3 Azm=291
N -0.07 5 22
P -1.42 84 171
Best Double Couple:Mo=1.4*10**24
NP1:Strike= 16 Dip=42 Slip= -97
NP2: 206 48 -83

12 04 07 16.78 5.967N 82.591W 10km
5.4mb (57 obs.) 5.1Msz (13 obs.)
SOUTH OF PANAMA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 32C
Centroid Location:
Origin Time 04:07:25.1 0.3
Lat 6.00N 0.03 Lon 82.47W 0.04
Dep 15.0 FIX Half-durotion 2.9
Principal Axes:
Scale 10**24 D-CM
T Val= 6.32 Plg=17 Azm=316
N -0.91 70 102
P -5.42 11 223
Best Double Couple:Mo=5.9*10**24
NP1:Strike=358 Dip=70 Slip= 175
NP2: 90 86 20

12 05 09 07.73 0.111N 100.237E 47km
5.2mb (38 obs.) 5.3Msz (5 obs.)
NORTHERN SUMATERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 28C
Centroid Location:
Origin Time 05:09: 7.0 0.7
Lat 0.17N 0.08 Lon 100.28E 0.07
Dep 15.0 BDY Half-duration 1.8
Principal Axes:
Scale 10**24 D-CM
T Val= 1.63 Plg=13 Azm=290
N -0.23 77 110
P -1.40 0 20
Best Double Couple:Mo=1.5*10**24
NP1:Strike= 66 Dip=81 Slip= 10
NP2: 334 81 170

13 04 11 41.09 5.842N 82.413W 10km
5.4mb (69 obs.) 5.2Msz (16 obs.)
SOUTH OF PANAMA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 37C
Centroid Location:
Origin Time 04:11:47.3 0.4
Lat 5.93N 0.03 Lon 82.49W 0.04
Dep 15.0 FIX Half-duration 2.7
Principal Axes:
Scale 10**24 D-CM
T Val= 5.46 Plg=19 Azm=345
N -1.27 71 181
P -4.18 5 77
Best Double Couple:Mo=4.8*10**24
NP1:Strike=122 Dip=73 Slip= 10
NP2: 29 81 163

13 15 27 21.81 7.691N 74.713W 60km
5.0mb (52 obs.)
NORTHERN COLOMBIA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 27C
Centroid Location:
Origin Time 15:27:29.0 0.7
Lat 8.00N 0.07 Lon 74.74W 0.08
Dep 78.5 7.2 Half-duration 1.6
Principal Axes:
Scale 10**23 D-CM
T Val= 6.84 Plg=16 Azm=140
N 2.40 48 32
P -9.24 38 243
Best Double Couple:Mo=8.0*10**23
NP1:Strike=274 Dip=51 Slip= -18
NP2: 16 76 -140

14 19 39 13.67 1.795N 126.519E 33km
6.6mb (63 obs.) 7.2Msz (14 obs.)
MOLUCCA PASSAGE
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=224 Dip=83 Slip= 60
NP2: 122 31 166
Principal Axes:
T Plg=44 Azm=105
P 31 338
Comment: The focal mechanism is moderately well controlled ond corresponds to reverse faulting with a moderote strike-slip component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 38 No. of sta: 10
Principal Axes:
Scale 10**27 d-cm
T Val= 1.50 Plg=38 Azm= 98
N 0.07 43 234
P -1.57 24 348
Best Double Couple:Mo=1.5*10**27
NP1:Strike=127 Dip=44 Slip= 168
NP2: 226 81 47
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 47C M.W.: 13S, 34C
Centroid Location:
Origin Time 19:39:28.9 0.1

Lat 2.08N 0.01 Lan 126.89E 0.01
Dep 20.2 0.7 Half-duration 15.0
Principal Axes:
Scale 10**27 D-CM
T Val= 2.45 Plg=52 Azm=150
N -0.38 14 42
P -2.07 35 302
Best Double Couple:Mo=2.3*10**27
NP1:Strike=347 Dip=16 Slip= 34
NP2: 224 81 104

15 00 41 20.47 8.689S 124.212E 108km
5.8mb (31 abs.)
TIMOR
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=119 Dip=78 Slip= 43
NP2: 18 48 164
Principal Axes:
T Plg=38 Azm=348
P 19 242
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.

15 07 40 44.71 1.929N 126.482E 33km
5.6mb (38 abs.) 5.8Msz (19 abs.)
MOLUCCA PASSAGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 32C
Centroid Location:
Origin Time 07:40:48.6 0.2
Lat 1.61N 0.04 Lon 126.54E 0.05
Dep 15.0 FIX Half-duration 4.3
Principal Axes:
Scale 10**25 D-CM
T Val= 2.66 Plg=35 Azm=129
N 0.03 4 36
P -2.69 55 300
Best Double Couple:Mo=2.7*10**25
NP1:Strike=237 Dip=11 Slip= -68
NP2: 35 80 -94

15 20 20 37.37 48.638N 126.621E 33km
5.0mb (48 abs.) 5.1Msz (1 abs.)
NORTHEASTERN CHINA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 17C
Centroid Location:
Origin Time 20:20:39.3 1.7
Lat 48.61N 0.17 Lon 126.09E 0.33
Dep 15.0 BDY Half-duration 1.2
Principal Axes:
Scale 10**23 D-CM
T Val= 3.10 Plg=11 Azm=342
N 0.50 61 231
P -3.60 27 77
Best Double Couple:Mo=3.4*10**23
NP1:Strike=116 Dip=63 Slip= -12
NP2: 212 79 -153

16 17 19 23.02 1.864N 126.522E 33km
5.8mb (48 abs.) 5.9Msz (18 obs.)
MOLUCCA PASSAGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 32C
Centroid Location:
Origin Time 17:19:27.2 0.2
Lat 1.72N 0.03 Lan 126.65E 0.03
Dep 15.0 FIX Half-duration 5.0
Principal Axes:
Scale 10**25 D-CM
T Val= 5.37 Plg=34 Azm=118
N -0.53 1 208
P -4.85 56 300
Best Double Couple:Mo=5.1*10**25
NP1:Strike=205 Dip=11 Slip= -94
NP2: 29 79 -89

16 21 08 28.22 1.765N 126.442E 33km
5.7mb (45 abs.) 5.4Msz (14 abs.)
MOLUCCA PASSAGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 29C
Centroid Location:
Origin Time 21:08:31.6 0.2
Lat 1.46N 0.05 Lan 126.20E 0.04
Dep 15.0 FIX Half-duration 3.6
Principal Axes:
Scale 10**25 D-CM
T Val= 1.34 Plg=38 Azm=176
N 0.06 9 273
P -1.41 50 15
Best Double Couple:Mo=1.4*10**25
NP1:Strike=217 Dip=11 Slip=-147
NP2: 94 84 -80

17 15 27 41.26 2.276N 126.959E 31km
5.8mb (52 obs.) 6.3Msz (21 abs.)
MOLUCCA PASSAGE
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=128 Dip=59 Slip= 116
NP2: 265 40 54
Principal Axes:
T Plg=65 Azm= 86
P 10 200
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting with a moderate strike-slip component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 42 No. of sta: 10
Principal Axes:
Scale 10**25 d-cm
T Val= 4.65 Plg=88 Azm=310
N 0.05 2 132
P -4.70 0 42
Best Double Couple:Mo=4.7*10**25
NP1:Strike=130 Dip=45 Slip= 87
NP2: 314 45 93
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 29C
Centroid Location:
Origin Time 15:27:51.7 0.2
Lat 2.59N 0.03 Lon 127.35E 0.03
Dep 25.0 BDY Half-duration 5.5
Principal Axes:
Scale 10**25 D-CM
T Val= 5.77 Plg=64 Azm=288
N -1.15 22 141
P -4.62 13 46
Best Double Couple:Mo=5.2*10**25
NP1:Strike=109 Dip=38 Slip= 52
NP2: 334 61 115

18 01 59 54.50 20.492S 174.207W 20km
5.9mb (54 obs.) 5.9Msz (23 abs.)
TONGA ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 22 Dip=75 Slip= 90
NP2: 202 15 90
Principal Axes:
T Plg=60 Azm=292
P 30 112
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.: 17S, 41C
Centroid Location:
Origin Time 02:00: 3.2 0.2
Lat 20.75S 0.02 Lon 173.88W 0.02
Dep 15.0 FIX Half-duration 4.3
Principal Axes:
Scale 10**25 D-CM
T Val= 1.81 Plg=67 Azm=274
N 0.16 6 17
P -1.98 22 110
Best Double Couple:Mo=1.9*10**25
NP1:Strike=211 Dip=23 Slip= 105
NP2: 15 67 84

18 14 16 14.14 1.739N 126.575E 33km
5.5mb (35 abs.) 5.2Msz (7 obs.)
MOLUCCA PASSAGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 31C
Centroid Location:
Origin Time 14:16:22.5 0.3
Lat 2.20N 0.04 Lan 126.35E 0.03
Dep 23.9 1.8 Half-duration 2.8
Principal Axes:
Scale 10**24 D-CM
T Val= 5.01 Plg=82 Azm= 46
N 0.80 3 158
P -5.81 7 249
Best Double Couple:Mo=5.4*10**24
NP1:Strike=342 Dip=38 Slip= 95
NP2: 156 52 86

19 00 27 35.94 8.376N 126.601E 33km
5.6mb (48 abs.) 4.9Msz (4 abs.)
MINDANAO, PHILIPPINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 26C
Centroid Location:
Origin Time 00:27:39.0 0.5
Lat 8.02N 0.05 Lan 126.77E 0.04
Dep 40.0 BDY Half-duration 2.1
Principal Axes:
Scale 10**24 D-CM
T Val= 1.99 Plg=64 Azm=341
N 0.17 23 188
P -2.16 10 94
Best Double Couple:Mo=2.1*10**24
NP1:Strike=158 Dip=40 Slip= 52
NP2: 23 59 117

20 07 05 01.60 5.325S 151.331E 79km
5.8mb (52 abs.)
NEW BRITAIN REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=180 Dip=58 Slip= 170
NP2: 275 82 32
Principal Axes:
T Plg=29 Azm=142
P 16 44
Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting with a large reverse component. The preferred fault plane is not determined.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 20S, 45C
Centroid Location:
Origin Time 07:05: 7.8 0.1
Lat 5.54S 0.02 Lon 151.26E 0.02
Dep 82.7 1.5 Half-duration 5.1
Principal Axes:
Scale 10**25 D-CM
T Val= 2.98 Plg=43 Azm=142
N -0.49 46 309
P -2.49 7 46
Best Double Couple:Mo=2.7*10**25
NP1:Strike=174 Dip=56 Slip= 151
NP2: 282 66 38

20 10 09 32.60 16.941S 173.507W 33km
5.6mb (36 obs.) 4.7Msz (1 abs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 23C
Centroid Location:
Origin Time 10:09:39.1 0.6
Lat 16.85S 0.08 Lan 173.18W 0.09
Dep 75.9 5.4 Half-duration 1.8
Principal Axes:
Scale 10**24 D-CM
T Val= 1.24 Plg=27 Azm=241
N 0.26 13 337
P -1.50 60 90
Best Double Couple:Mo=1.4*10**24
NP1:Strike=303 Dip=22 Slip=-127
NP2: 161 73 -77

20 18 15 38.87 2.069N 126.534E 33km
5.4mb (19 abs.) 4.5Msz (1 abs.)
MOLUCCA PASSAGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 24C
Centroid Location:
Origin Time 18:15:46.5 0.3
Lat 1.97N 0.05 Lan 126.52E 0.04
Dep 33.0 FIX Half-duration 1.8
Principal Axes:
Scale 10**24 D-CM
T Val= 2.10 Plg=72 Azm=167
N -0.12 17 7
P -1.98 6 276
Best Double Couple:Mo=2.0*10**24

NP1:Strike=348 Dip=42 Slip= 64
NP2: 201 53 111

20 21 23 54.88 34.572N 91.633E 33km
5.4mb (52 obs.) 6.5Msz (12 obs.)
QINGHAI PROVINCE, CHINA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 39C
Centroid Location:
Origin Time 21:24: 3.0 0.2
Lat 34.58N 0.03 Lon 91.96E 0.03
Dep 15.0 BDY Half-duration 5.4
Principal Axes:
Scale 10**25 D-CM
T Val= 4.74 Plg= 3 Azm=121
N 0.28 62 26
P -5.02 28 213
Best Double Couple:Mo=4.9*10**25
NP1:Strike=253 Dip=69 Slip= -18
NP2: 350 73 -158

21 17 01 27.21 9.071S 109.551W 10km
5.0mb (10 obs.) 5.3Msz (3 obs.)
NORTHERN EASTER I. CORDILLERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 38C
Centroid Location:
Origin Time 17:01:31.7 0.3
Lat 9.00S 0.05 Lan 109.58W 0.04
Dep 15.0 FIX Half-duration 2.0
Principal Axes:
Scale 10**24 D-CM
T Val= 2.10 Plg=16 Azm=302
N -0.09 67 170
P -2.00 16 37
Best Double Couple:Mo=2.1*10**24
NP1:Strike= 79 Dip=67 Slip= 0
NP2: 169 90 -157

23 17 11 47.12 31.675N 40.938W 10km
5.3mb (42 obs.) 5.2Msz (12 obs.)
NORTH ATLANTIC RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 35C
Centroid Location:
Origin Time 17:11:54.0 0.3
Lat 31.78N 0.06 Lon 40.45W 0.06
Dep 15.0 FIX Half-duration 2.0
Principal Axes:
Scale 10**24 D-CM
T Val= 2.14 Plg=21 Azm=291
N 0.06 29 33
P -2.20 53 170
8est Double Couple:Mo=2.2*10**24
NP1:Strike=342 Dip=35 Slip=-147
NP2: 224 72 -60

23 23 47 48.85 34.549S 179.288E 32km
6.1mb (25 obs.) 6.5Msz (14 obs.)
SOUTH OF KERMADEC ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=351 Dip=85 Slip=-173
NP2: 260 83 -5
Principal Axes:
T Plg= 1 Azm=126
P 8 216
Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting with a small narmal companent. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 26 No. of sta: 8
Principal Axes:
Scale 10**25 d-cm
T Val= 7.99 Plg=10 Azm=298
N -0.03 78 83
P -7.96 7 207
Best Double Couple:Mo=8.0*10**25
NP1:Strike=342 Dip=78 Slip= 178
NP2: 73 88 12
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 21S, 52C M.W.: 10S, 23C
Centraid Locatian:
Origin Time 23:47:51.4 0.2
Lat 34.51S 0.01 Lon 179.33E 0.02
Dep 15.0 FIX Half-duration 6.3
Principal Axes:
Scale 10**25 D-CM
T Val= 5.62 Plg=28 Azm=312
N -1.50 58 163
P -4.12 14 49
Best Double Couple:Mo=4.9*10**25
NP1:Strike= 93 Dip=60 Slip= 11
NP2: 358 81 150

24 10 45 00.21 24.056S 177.137W 33km
5.4mb (13 obs.) 5.1Msz (4 obs.)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 31C
Centroid Location:
Origin Time 10:45: 4.7 0.7
Lat 24.20S 0.07 Lon 177.43W 0.07
Dep 15.0 BDY Half-duration 1.8
Principal Axes:
Scale 10**23 D-CM
T Val= 12.87 Plg= 2 Azm=297
N -2.10 34 28
P -10.77 56 204
Best Double Couple:Mo=1.2*10**24
NP1:Strike=357 Dip=53 Slip=-135
NP2: 235 56 -47

24 13 03 35.72 27.271S 176.418W 33km
5.3mb (14 obs.) 4.9Msz (2 obs.)
KERMADEC ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 20C
Centroid Location:
Origin Time 13:03:40.9 1.0
Lat 27.22S 0.12 Lon 176.52W 0.12
Dep 15.0 FIX Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM
T Val= 7.15 Plg=61 Azm=276
N -0.15 2 10
P -7.00 29 102
Best Double Couple:Mo=7.1*10**23
NP1:Strike=198 Dip=16 Slip= 98
NP2: 10 74 88

24 19 38 10.97 23.894S 177.201W 33km
5.3mb (10 obs.) 5.1Msz (5 obs.)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 32C
Centroid Location:
Origin Time 19:3B:13.2 0.4
Lat 24.30S 0.04 Lon 177.37W 0.04
Dep 15.4 2.2 Half-duration 1.9
Principal Axes:
Scale 10**24 D-CM
T Val= 1.92 Plg= 1 Azm=291
N -0.05 24 21
P -1.87 66 199
Best Double Couple:Mo=1.9*10**24
NP1:Strike=358 Dip=49 Slip=-123
NP2: 223 50 -58

24 23 46 51.25 2.100N 126.873E 35km
5.3mb (18 obs.) 5.1Msz (7 obs.)
MOLUCCA PASSAGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 27C
Centroid Lacation:
Origin Time 23:46:53.8 0.5
Lat 2.32N 0.05 Lon 126.68E 0.05
Dep 17.8 2.5 Half-duration 2.1
Principal Axes:
Scale 10**24 D-CM
T Val= 2.52 Plg=75 Azm=340
N -0.33 14 144
P -2.19 4 235
Best Double Couple:Mo=2.4*10**24
NP1:Strike=339 Dip=43 Slip= 111
NP2: 132 50 72

25 15 40 31.51 16.316S 173.050W 33km
4.9mb (11 obs.) 5.0Msz (3 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 33C
Centroid Location:
Origin Time 15:40:36.0 0.7
Lat 16.93S 0.07 Lon 172.50W 0.07
Dep 15.0 FIX Half-duration 1.6
Principal Axes:
Scale 10**24 D-CM
T Val= 1.78 Plg=60 Azm=273
N -0.03 5 12
P -1.75 30 106
Best Double Cauple:Mo=1.8*10**24
NP1:Strike=212 Dip=16 Slip= 110
NP2: 11 75 84

26 09 43 00.39 37.724N 101.496E 8km
6.2mb (79 obs.) 5.9Msz (13 obs.)
QINGHAI PROVINCE, CHINA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 5 Dip=65 Slip= 90
NP2: 185 25 90
Principal Axes:
T Plg=70 Azm=275
P 20 95
Comment: The facal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 6 Na. of sta: 18
Principal Axes:
Scale 10**25 d-cm
T Val= 0.99 Plg=52 Azm=253
N 0.02 11 357
P -1.02 36 95
Best Double Couple:Mo=1.0*10**25
NP1:Strike=230 Dip=13 Slip= 144
NP2: 356 82 79
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 19S, 44C
Centroid Location:
Origin Time 09:43: 6.8 0.3
Lat 37.80N 0.03 Lon 101.72E 0.04
Dep 15.0 BDY Half-duration 3.7
Principal Axes:
Scale 10**24 D-CM
T Val= 10.30 Plg=66 Azm=301
N 0.28 20 154
P -10.58 12 59
Best Double Couple:Mo=1.0*10**25
NP1:Strike=125 Dip=37 Slip= 55
NP2: 346 60 113

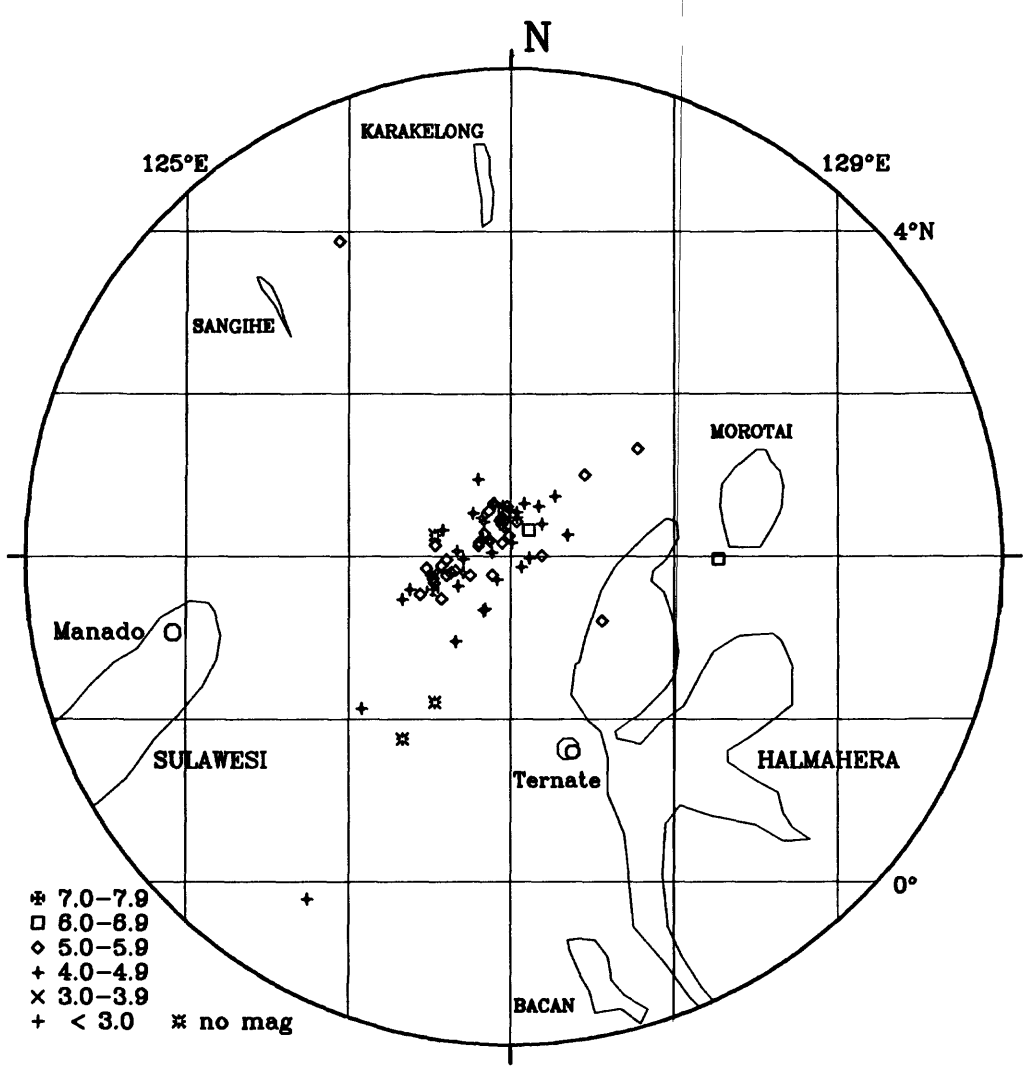
26 21 52 26.67 15.192S 173.481W 21km
5.6mb (24 obs.) 5.8Msz (14 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 35C
Centroid Location:
Origin Time 21:52:33.9 0.2
Lat 14.81S 0.03 Lon 173.56W 0.02
Dep 15.0 FIX Half-duration 3.4
Principal Axes:
Scale 10**24 D-CM
T Val= 7.95 Plg=28 Azm=322
N 1.60 50 194
P -9.56 26 67
Best Double Couple:Mo=8.8*10**24
NP1:Strike=105 Dip=50 Slip= 1
NP2: 15 89 140

30 21 28 35.45 45.547N 26.316E 132km
6.4mb (60 obs.) 6.9Msz (10 obs.)
ROMANIA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=230 Dip=70 Slip= 69
NP2: 98 29 135
Principal Axes:
T Plg=60 Azm=110
P 22 336
Comment: The facal mechanism is well controlled ond corresponds to reverse faulting with a moderate strike-slip component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 142 No. of sta: 12
Principal Axes:
Scale 10**26 d-cm
T Val= 5.62 Plg=60 Azm=106
N -0.06 19 232
P -5.56 23 330
Best Double Couple:Mo=5.6*10**26

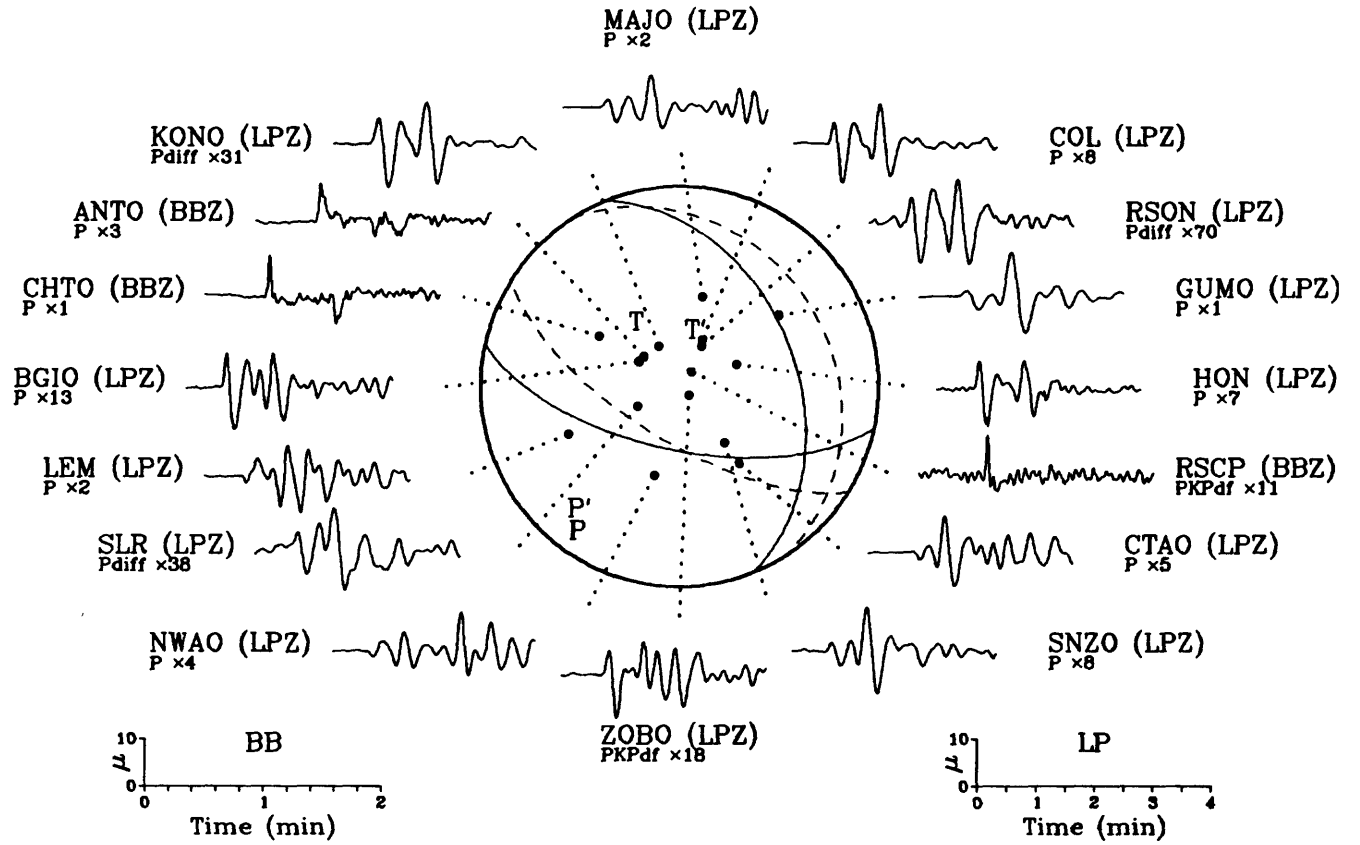
```
 NP1:Strike= 93 Dip=28 Slip= 134
 NP2:       225     70        70
CENTROID, MOMENT TENSOR    (HRV)
Data Used: GDSN
L.P.B.: 18S, 33C  M.W.: 15S, 43C
Centroid Location:
Origin Time        21:28:51.0 0.2
Lat 45.76N 0.02 Lon  26.53E 0.03
Dep 132.7 1.1 Half-duration 15.8
Principal Axes:
  Scale 10**26 D-CM
  T  Val=  8.28  Plg=63  Azm=160
  N       -0.73      6       58
  P       -7.55     27      324
Best Double Couple:Mo=7.9*10**26
 NP1:Strike= 39 Dip=19 Slip=  70
 NP2:      240     72        97

31 09 23 04.70  23.042N 144.120E  46km
   5.4mb ( 29 obs.)  5.9Msz ( 16 obs.)
   VOLCANO ISLANDS REGION
   CENTROID, MOMENT TENSOR    (HRV)
   Data Used: GDSN
   L.P.B.: 15S, 33C

   Centroid Location:
   Origin Time        09:23: 5.5 0.2
   Lat 22.90N 0.04 Lon 144.42E 0.03
   Dep  15.0 FIX Half-duration  3.3
   Principal Axes:
     Scale 10**24 D-CM
     T  Val=  8.84  Plg=59  Azm=252
     N        0.78      3       158
     P       -9.62     31        66
   Best Double Couple:Mo=9.2*10**24
    NP1:Strike=147 Dip=15 Slip=  79
    NP2:      338     76        93
```

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

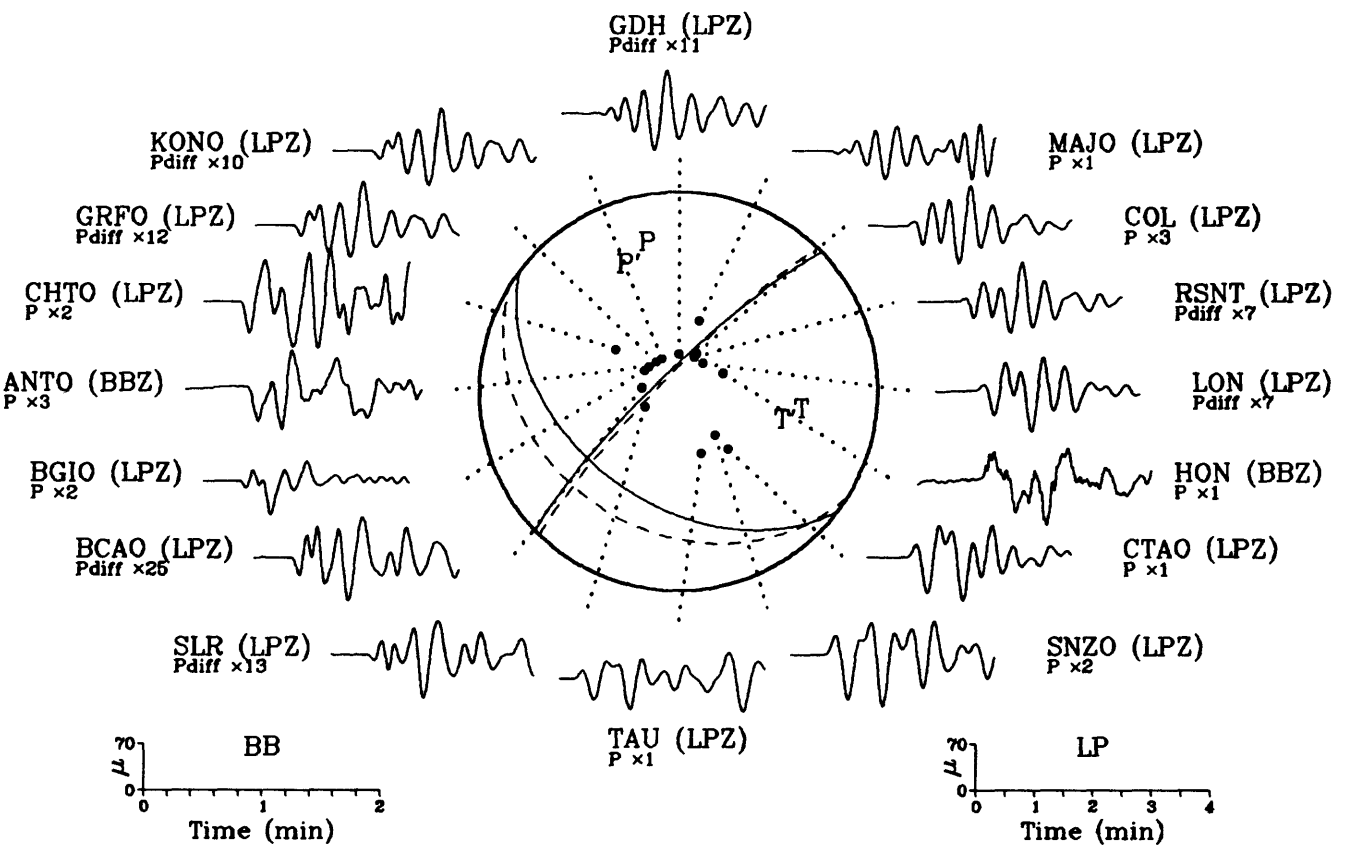
Earthquake Epicenters in the Molucca Passage
August, 1986



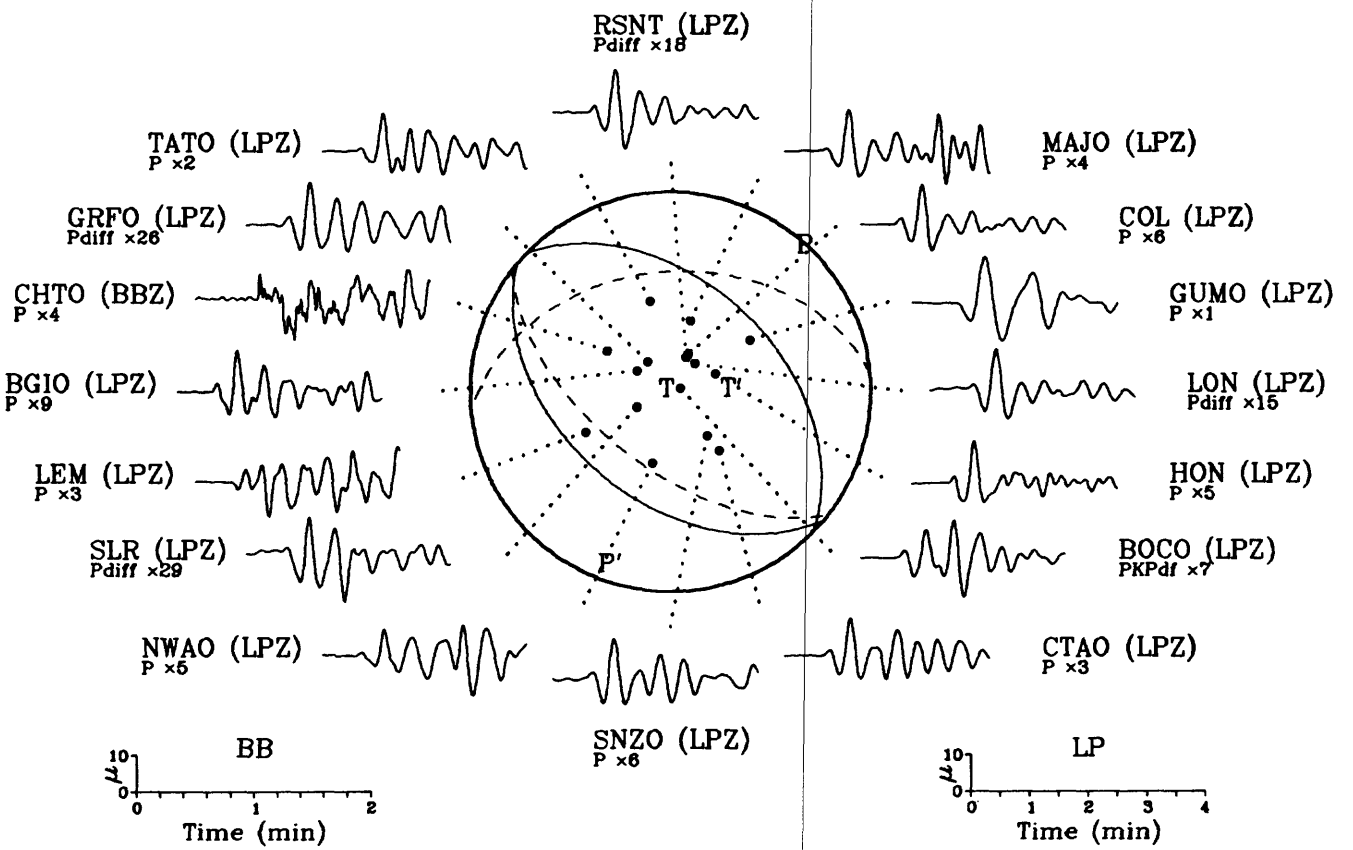
10 August 1986 04:40:49.77
Halmahera



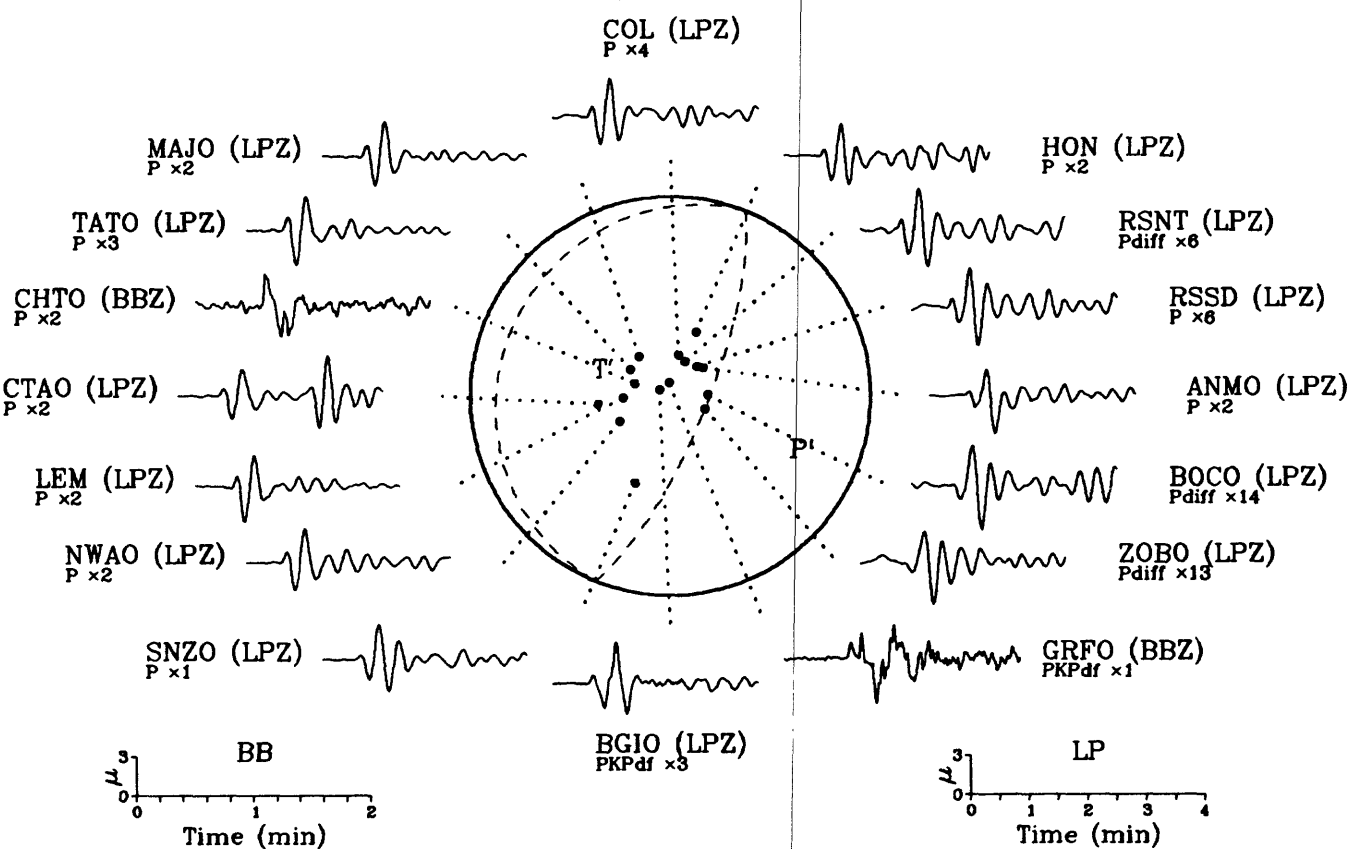
14 August 1986 19:39:13.67
Molucca Passage



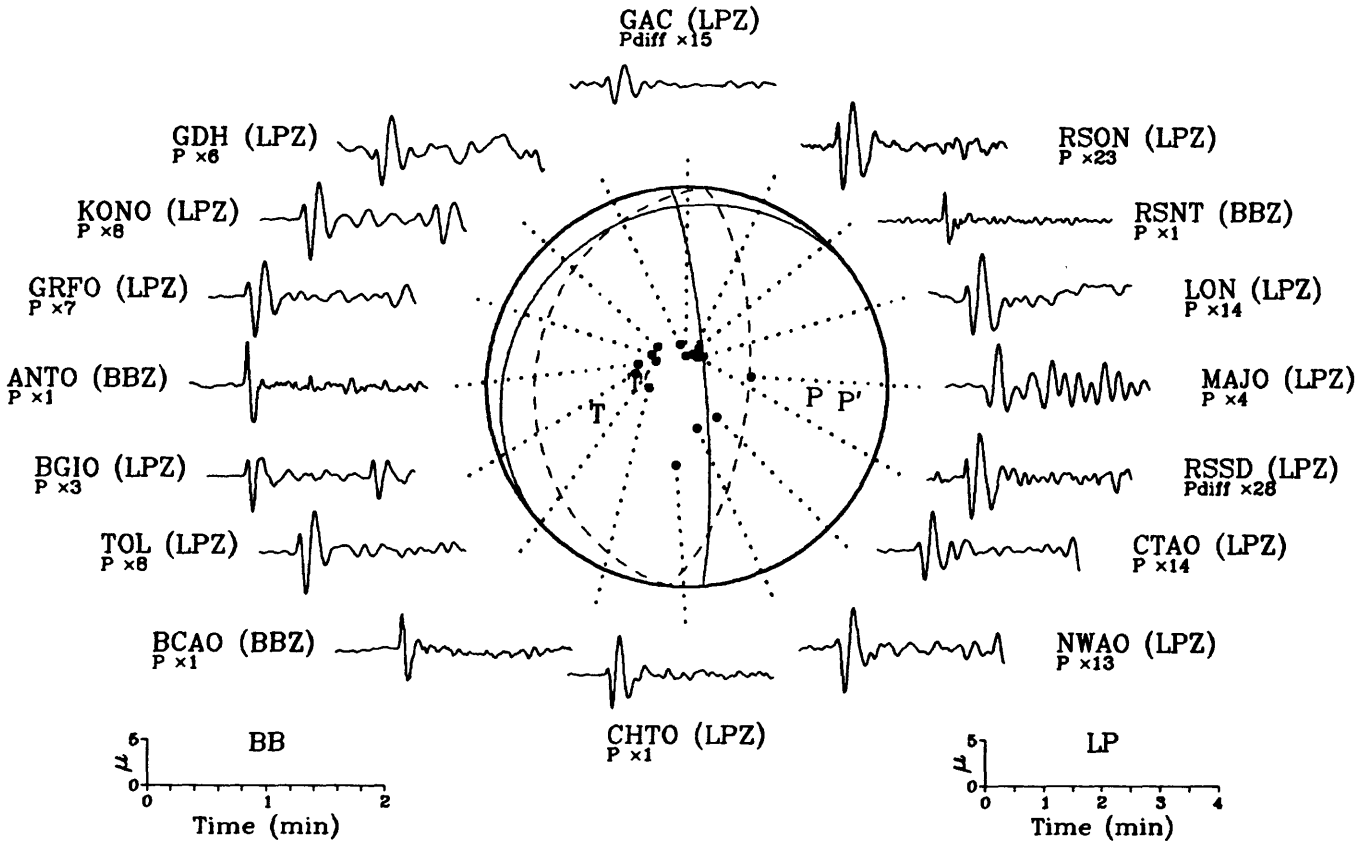
17 August 1986 15:27:41.26
Molucca Passage



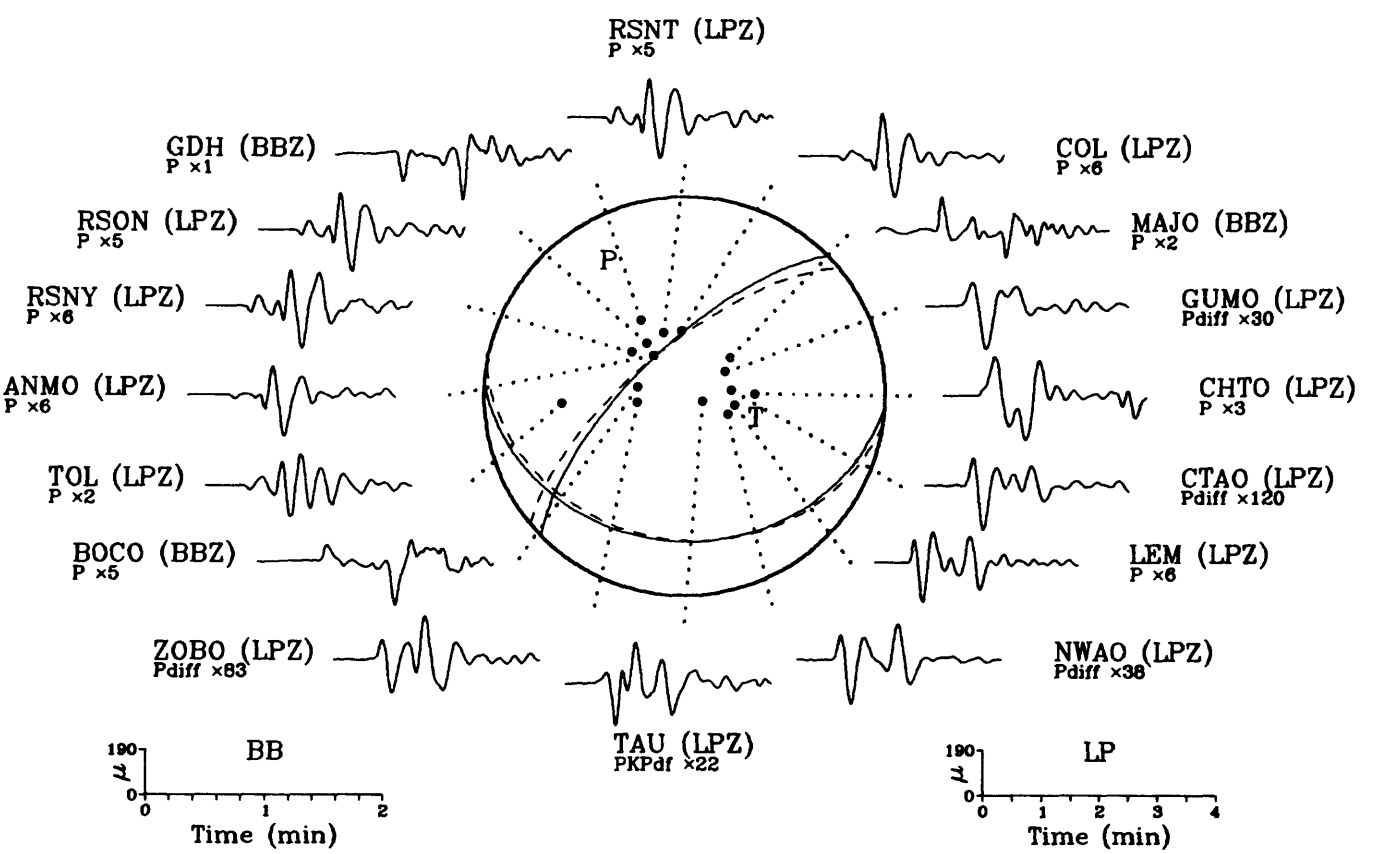
18 August 1986 01:59:54.50
Tonga Islands

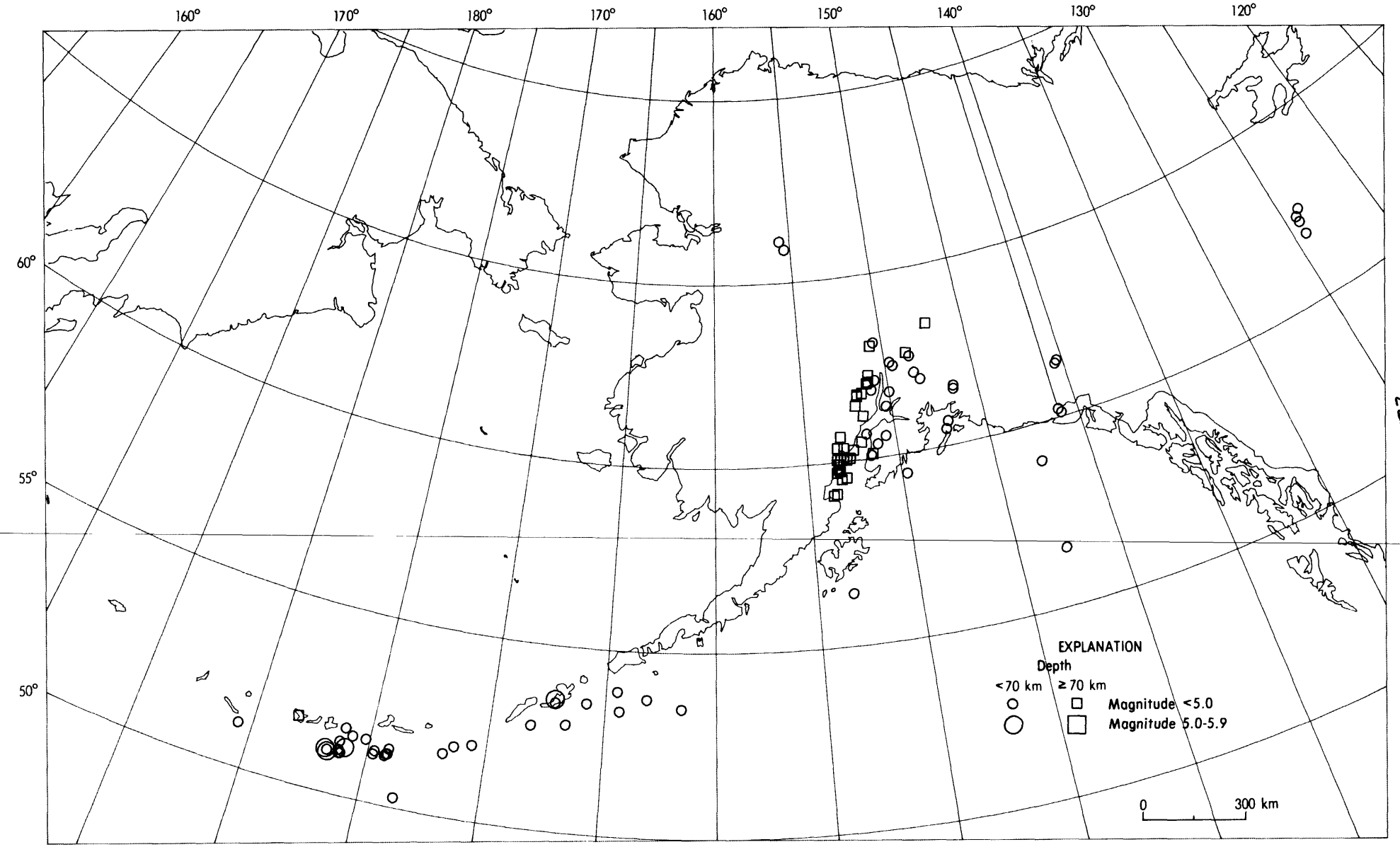


26 August 1986 09:43:00.39
Qinghai Province, China

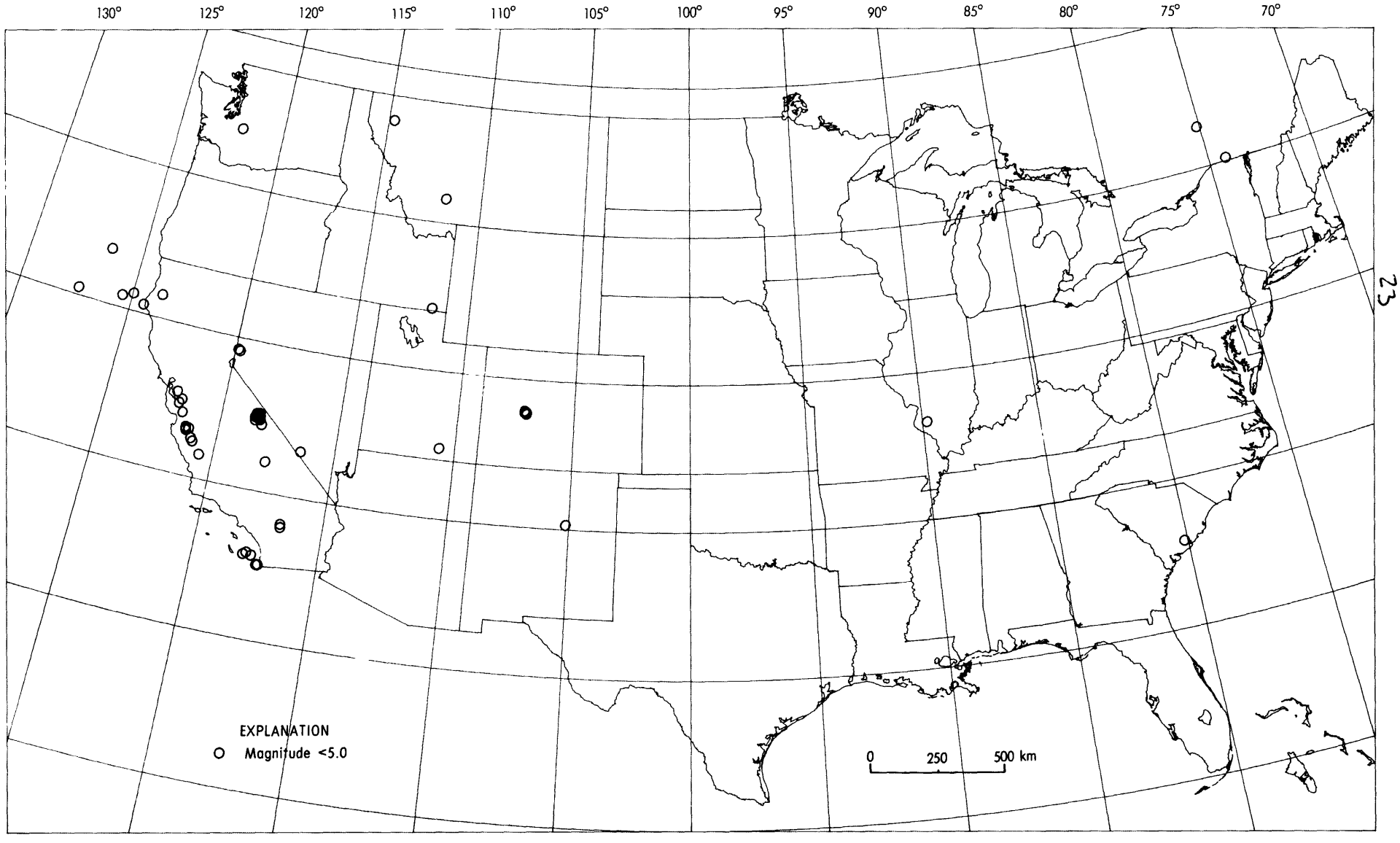


30 August 1986 21:28:35.45
Romania

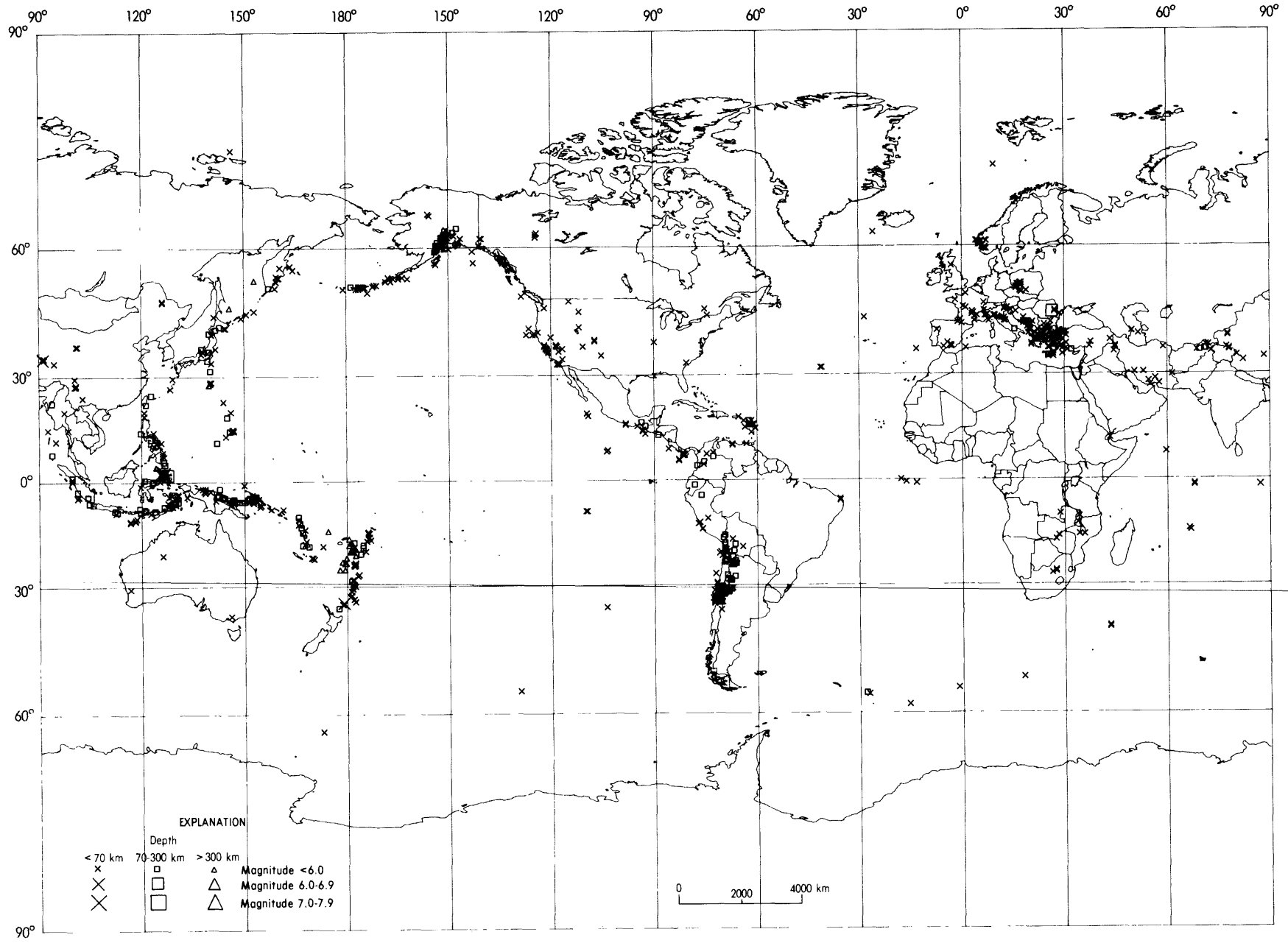




Earthquake epicenters in Alaska and adjacent regions for August, 1986 (C. Stover).



Earthquake epicenters in the conterminous United States and adjacent regions for August, 1986 (C. Stover).



Earthquakes located in August, 1986 (C. Stover).

GPO 852-762

PRELIMINARY DETERMINATION OF EPICENTERS

MONTHLY LISTING

U.S. DEPARTMENT OF THE INTERIOR / GEOLOGICAL SURVEY

National Earthquake Information Center

S E P T E M B E R 1 9 8 6

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	01	03	06.0*	38.546	N	15.765	E	216 *	4.2		1.2	34*	SICILY
	01	03	40	21.5?	20.14	N	98.43	W	10 G			1.3	6	VERA CRUZ, MEXICO
	01	04	16	28.7?	45.09	N	3.17	E	10 G			0.9	7	FRANCE. ML 1.5 (LDG).
	01	04	19	28.9%	45.090	N	3.199	E	10 G			0.7	9	FRANCE. ML 2.4 (LDG).
	01	04	19	42.0*	45.043	N	3.388	E	10 G			0.4	9	FRANCE. ML 2.7 (LDG).
	01	04	49	19.7*	24.378	S	70.303	W	70 *	4.2		1.3	8	NEAR COAST OF NORTHERN CHILE
	01	05	09	51.7%	45.093	N	3.331	E	10 G			0.8	10	FRANCE. ML 2.6 (LDG).
	01	05	23	23.7%	45.158	N	3.294	E	10 G			0.9	10	FRANCE. ML 2.8 (LDG).
	01	05	42	28.7?	45.09	N	3.17	E	10 G			0.8	6	FRANCE. ML 1.8 (LDG).
	01	05	54	35.5*	39.092	N	27.871	E	10 G			0.2	5	TURKEY
	01	06	28	43.8*	15.199	N	61.014	W	120 G			0.3	9	LEEWARD ISLANDS
	01	06	44	47.6%	45.189	N	3.018	E	10 G			1.2	12	FRANCE. ML 2.2 (LDG).
	01	08	26	02.5?	37.81	N	31.44	E	10 G			0.9	5	TURKEY
	01	09	04	24.1	48.295	N	28.002	W	10 G	4.7	4.4	1.0	56	NORTH ATLANTIC RIDGE
	01	09	07	01.8*	45.791	N	26.525	E	82 ?	3.6		0.4	7	ROMANIA
	01	10	32	59.1?	16.81	N	60.93	W	5 G			1.0	6	LEEWARD ISLANDS. ML 2.5 (FDF).
	01	11	52	19.8*	45.049	N	3.380	E	10 G			0.4	10	FRANCE. ML 2.8 (LDG).
	01	13	36	48.4%	60.168	N	5.000	E	10 G			0.3	6	SOUTHERN NORWAY. MD 2.0 (BER).
	01	13	53	47.1	31.560	S	117.081	E	10 G			1.5	8	WESTERN AUSTRALIA
	01	14	46	45.2*	9.617	S	113.065	E	33 N			1.3	5	SOUTH OF JAVA
	01	15	54	23.9?	59.37	N	6.75	E	0 G			0.5	6	SOUTHERN NORWAY. MD 2.1 (BER). Probable explosion.
	01	16	38	10.8%	44.610	N	7.058	E	10 G			0.3	6	NORTHERN ITALY. ML 2.4 (LDG).
	01	17	13	58.1*	39.032	N	27.969	E	5 G			0.4	5	TURKEY
	01	17	19	22.6?	30.24	S	71.46	W	10 G			0.6	8	NEAR COAST OF CENTRAL CHILE. Felt (III) at Lo Sereno.
	01	18	20	03.5%	44.601	N	6.997	E	10 G			0.1	6	FRANCE. ML 2.8 (LDG).
	01	18	46	53.2*	51.670	N	175.167	W	33 N	4.4		0.5	7	ANDREANOF ISLANDS, ALEUTIAN IS.
	01	19	10	47.3	26.452	N	126.458	E	116	4.7		1.1	38	RYUKYU ISLANDS
	01	19	43	01.2&	35.920	N	120.470	W	6 G				11	CENTRAL CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	01	19	44	08.5*	16.501	S	172.265	W	33 N	4.6		0.9	19	SAMOA ISLANDS REGION
	01	21	47	35.0	46.631	N	150.010	E	148	5.2		0.9	197	KURIL ISLANDS
	01	22	11	19.5	60.839	N	2.628	E	10 G			1.4	51	NORTH SEA. ML 3.8 (BGS), MD 3.5 (BER).
	01	22	11	41.0*	45.983	N	26.328	E	198 *			1.3	13	ROMANIA
	01	23	11	25.8*	45.802	N	13.380	E	10 G			0.9	5	NORTHERN ITALY. ML 2.7 (KBA), 2.4 (TRI).
	01	23	53	14.6*	2.281	N	126.877	E	33 N	5.0		0.5	13	MOLUCCA PASSAGE
	02	00	11	08.3	43.234	N	26.021	E	5 G			0.9	9	BULGARIA
	02	00	49	48.8&	37.590	N	118.450	W	5 G				28	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.5 (BRK).
	02	02	00	49.7	45.547	N	26.422	E	153	4.1		1.1	45	ROMANIA. Additionol domoge in the Kishinev-Kogul area, USSR.
	02	04	22	53.9%	45.129	N	3.056	E	10 G			0.9	10	FRANCE. ML 2.1 (LDG).
	02	05	48	01.6*	30.342	S	177.782	W	33 N	5.0		1.3	13	KERMADEC ISLANDS
	02	06	09	19.7%	45.114	N	3.307	E	10 G			0.9	11	FRANCE. ML 3.0 (LDG).
	02	08	17	29.4	39.042	N	27.968	E	10 G			0.4	6	TURKEY
	02	09	03	22.9?	45.82	N	26.63	E	140 G			1.2	5	ROMANIA
	02	09	37	09.3	39.069	N	27.789	E	10 G			1.0	8	TURKEY
	02	10	00	07.8%	45.550	N	26.418	E	140 G			0.1	5	ROMANIA
	02	12	03	10.2	39.076	N	27.632	E	10 G			0.4	6	TURKEY
	02	12	09	32.1	39.577	N	28.770	E	10 G			0.7	9	TURKEY
	02	12	45	30.2*	8 317	S	109.442	E	73 ?	4.4		1.4	21	JAVA
	02	12	53	51.3?	59.35	N	6.78	E	10 G			0.9	6	SOUTHERN NORWAY. MD 2.3 (BER).
	02	12	58	59.1*	9.733	S	159.953	E	33 N	4.6		0.8	8	SOLOMON ISLANDS. Felt (I) at Honiaro.
	02	13	17	03.7?	58.64	N	6.23	E	10 G			0.7	7	SOUTHERN NORWAY. MD 2.7 (BER).
	02	13	19	59.0&	34.684	N	96.483	W	5 G				6	OKLAHOMA. <TUL>. MD 2.1 (TUL).
	02	13	41	24.5	39.471	N	28.245	E	10 G			1.3	7	TURKEY
	02	13	59	56.8&	41.058	N	123.685	W	5 G				5	NORTHERN CALIFORNIA. <BRK>. ML 3.1 (BRK). Felt.
	02	14	17	06.0	46.422	N	4.826	W	10 G			0.8	26	BAY OF BISCAY. ML 3.7 (LDG).
	02	14	47	56.3	49.962	N	5.303	W	10 G			1.1	22	NORTH ATLANTIC OCEAN. ML 3.4 (LDG), 3.1 (HTL). Felt (V) at Constantine, United Kingdom. Also felt at Helston, Falmouth and Lanner, United Kingdom.

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	02	18	27	48.2	40.300	N	63.926	E	33	N	4.6	1.1	55	UZBEK SSR
	02	19	32	22.4?	60.62	N	4.82	E	10	G		0.1	4	SOUTHERN NORWAY. MD 1.6 (BER).
	02	21	34	05.0?	10.97	S	165.29	E	33	N	4.2	0.7	9	SANTA CRUZ ISLANDS
	02	22	54	41.8?	44.99	N	3.40	E	10	G		1.6	5	FRANCE, ML 1.5 (LDG).
	02	23	21	47.6?	45.88	N	26.76	E	33	N		0.5	5	ROMANIA
	03	01	16	03.9?	5.38	S	35.97	W	5	G		0.7	7	BRAZIL
	03	01	20	05.8	39.086	N	27.810	E	10	G		1.2	12	TURKEY
	03	01	30	26.3	2.963	S	139.844	E	33	N	5.0	1.3	27	NEAR N. COAST OF WEST IRIAN
	03	01	54	26.3	49.990	N	6.027	E	10	G		1.3	12	GERMANY. ML 2.9 (LDG).
	03	02	37	53.3%	45.072	N	3.189	E	10	G		1.2	9	FRANCE. ML 2.0 (LDG).
	03	03	20	24.6?	34.66	S	70.68	W	10	G		0.8	7	CHILE-ARGENTINA BORDER REGION
	03	04	31	14.8&	37.295	N	121.667	W	10				23	CENTRAL CALIFORNIA. <BRK>. ML 4.2 (BRK). Felt (V) at Soquel, (IV) at Cambrion Park, Fremont, Lomo Mar, Mount Hamilton, Mount Hermon, New Alamoden and Redwood Estotes. Felt (III) at Aptos, Coyote, Freedom, Felton, Gilroy, Morgan Hill and San Jose.
	03	06	11	11.3•	44.010	N	114.792	W	5	G		0.9	10	WESTERN IDAHO. ML 3.2 (NEIS).
	03	06	20	50.9	38.912	N	107.090	W	5	G		0.3	14	COLORADO. ML 3.5 (NEIS). Felt (V) at Aspen and Crested Butte. Felt (III) at Gunnison.
	03	07	22	10.6	50.514	N	18.975	E	23	•		1.4	10	POLAND. ML 3.9 (KBA), 3.6 (KRA), 3.4 (VKA).
	03	09	28	18.2	41.590	N	43.468	E	10	G	4.7 3.7	1.3	102	TURKEY-USSR BORDER REGION. Felt (V) at Bogdanovka; (IV) at Bokurioni and Leninokan; (III) at Tbilisi, USSR.
	03	10	41	38.8?	52.53	N	168.32	W	33	N	4.7	1.4	8	FOX ISLANDS, ALEUTIAN ISLANDS
	03	10	42	02.6%	44.023	N	10.641	E	10	G		0.2	6	NORTHERN ITALY. ML 2.5 (LDG).
	03	10	46	39.1•	39.663	N	20.359	E	77	•	3.5	1.2	29	GREECE-ALBANIA BORDER REGION
	03	10	59	36.7?	51.25	N	16.05	E	10	G		0.7	5	POLAND. MG 2.8 (KRA).
	03	11	51	05.0	51.352	N	178.288	W	33	N	5.0	1.0	79	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.0 (PMR). Felt (III) on Adak.
	03	12	42	44.2•	11.317	S	165.083	E	33	N	4.6	0.9	9	SANTA CRUZ ISLANDS
	03	12	59	56.4	39.008	N	27.961	E	10	G		0.2	7	TURKEY
	03	13	31	25.7?	53.96	S	134.20	W	10	G	5.0	1.2	13	SOUTH PACIFIC CORDILLERA
	03	13	50	41.7	41.651	N	19.274	E	8			0.8	30	ALBANIA. MD 3.4 (TTG).
	03	14	00	21.4	41.652	N	19.299	E	10	G		1.1	26	ALBANIA. MD 3.4 (TTG).
	03	14	16	44.8•	50.437	N	6.162	E	10	G		0.5	5	GERMANY
	03	15	37	19.2•	23.370	N	143.669	E	33	N	4.4	0.6	18	VOLCANO ISLANDS REGION
	03	16	26	36.6	46.819	N	9.996	E	10	G		1.1	10	SWITZERLAND
	03	17	21	51.5•	53.468	N	167.138	W	33	N	4.5	1.4	17	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.6 (PMR).
	03	18	07	32.4•	23.379	N	143.650	E	33	N	4.6	1.2	19	VOLCANO ISLANDS REGION
	03	18	42	53.5	40.203	N	24.950	E	19			1.1	29	AEGEAN SEA. ML 3.6 (ATH).
	03	18	53	49.1	44.039	N	114.764	W	5	G		0.8	16	WESTERN IDAHO. ML 3.9 (NEIS). Felt (III) at Clayton.
	03	19	05	28.8•	51.921	N	17.535	E	10	G		0.9	10	POLAND. ML 3.3 (VKA), 3.2 (KBA).
	03	20	14	53.7•	31.441	S	177.696	W	33	N	5.0	1.4	11	KERMADEC ISLANDS REGION
	03	21	53	07.8•	7.094	S	120.173	E	424	?	4.9	0.7	7	FLORES SEA
	03	23	37	42.6?	17.34	N	94.27	W	33	N		0.7	4	CHIAPAS, MEXICO
	03	23	54	18.7•	50.249	N	18.925	E	10	G		0.7	5	POLAND. ML 3.0 (KRA).
	03	23	58	50.8•	1.798	S	77.735	W	167	?	4.4	0.5	12	ECUADOR
	04	01	29	00.0	39.080	N	27.889	E	10	G		1.3	9	TURKEY
	04	01	52	58.1?	2.46	N	127.16	E	33	N		1.2	5	MOLUCCA PASSAGE
	04	02	01	11.6•	4.334	S	139.734	E	33	N		0.6	5	WEST IRIAN
	04	02	43	13.7•	43.865	N	147.509	E	33	N	4.5	1.2	15	KURIL ISLANDS
	04	03	32	25.9?	16.51	N	94.77	W	131	?		1.4	14	OAXACA, MEXICO
	04	04	15	55.8•	43.993	N	114.803	W	5	G		1.0	8	WESTERN IDAHO. ML 3.4 (NEIS).
	04	04	23	47.9•	22.334	S	171.622	E	33	N	4.9	1.2	16	LOYALTY ISLANDS REGION
	04	04	38	20.0	44.066	N	114.745	W	5	G		1.0	17	WESTERN IDAHO. ML 4.0 (NEIS).
	04	05	00	00.4?	4.68	S	152.73	E	10	G		1.0	5	NEW BRITAIN REGION
	04	07	06	54.8?	39.89	N	28.89	E	31	?		1.2	5	TURKEY
	04	09	09	01.4	39.032	N	27.962	E	10	G		0.6	7	TURKEY
	04	11	00	07.6?	51.78	N	173.28	W	33	N		1.1	7	ANDREANOF ISLANDS, ALEUTIAN IS.
	04	11	25	01.9%	39.017	N	27.998	E	10	G		0.2	6	TURKEY
	04	12	43	47.6	44.036	N	114.719	W	5	G		1.0	9	WESTERN IDAHO. ML 3.3 (NEIS).
	04	12	48	17.5%	60.294	N	5.406	E	10	G		0.4	6	SOUTHERN NORWAY. MD 1.6 (BER).
	04	13	16	56.6%	44.423	N	6.768	E	10	G		1.1	6	FRANCE. ML 2.6 (LDG).
	04	14	07	24.9?	33.61	S	72.26	W	10	G		0.6	8	OFF COAST OF CENTRAL CHILE
	04	15	07	09.4%	45.174	N	5.623	E	10	G		0.7	11	FRANCE. ML 2.7 (LDG).
	04	16	09	00.1	37.236	N	116.352	W	5	G		0.4	37	SOUTHERN NEVADA. ML 3.5 (NEIS).
	04	16	15	11.2?	7.26	S	127.08	E	317	?	4.3	0.9	10	BANDA SEA
	04	17	29	14.0•	36.421	N	138.321	E	10	G		1.3	6	HONSHU, JAPAN. Felt (1 JMA) at Nagano.
	04	17	33	17.4&	34.477	N	96.503	W	5	G			7	OKLAHOMA. <TUL>. mbLg 2.6 (TUL).
	04	18	22	14.6?	16.54	S	177.08	E	33	N	4.4	1.4	7	FIJI ISLANDS
	04	18	30	54.0%	44.296	N	7.182	E	10	G		0.1	5	NORTHERN ITALY. ML 2.9 (LDG).
	04	18	46	14.9•	11.731	S	34.833	E	10	G	4.4	1.2	10	MALAWI
	04	18	53	16.6	41.701	N	19.393	E	10	G		1.0	11	ALBANIA. MD 2.9 (TTG).
	04	19	13	26.5•	21.181	S	71.252	W	105	?		1.0	7	OFF COAST OF NORTHERN CHILE
	04	20	08	16.7&	59.726	N	154.022	W	154				25	SOUTHERN ALASKA. <AGS-P>.
	04	20	50	50.4•	46.339	N	12.448	E	10	G		1.5	7	NORTHERN ITALY. ML 2.5 (KBA).
	04	21	54	01.0&	61.476	N	151.430	W	79				36	SOUTHERN ALASKA. <AGS-P>.
	04	22	36	47.3•	43.570	N	146.783	E	66	•	4.5	1.0	25	KURIL ISLANDS. Felt (1 JMA) at Nemuro, Hokkaido.
	04	22	51	17.6	55.166	N	162.556	E	62	•	4.7	0.9	66	NEAR EAST COAST OF KAMCHATKA
	04	23	01	50.0	20.002	S	178.432	W	610		4.9	0.9	57	FIJI ISLANDS REGION
	04	23	31	28.6•	16.676	N	98.020	W	53	•	4.6	1.0	28	NEAR COAST OF GUERRERO, MEXICO. Felt slightly at Mexico City.
	04	23	38	51.4?	37.12	N	21.39	E	33	N		1.5	5	SOUTHERN GREECE. ML 3.3 (ATH).
	04	23	48	10.1%	39.314	N	27.953	E	10	G		0.2	5	TURKEY
	05	02	02	15.2%	45.955	N	26.794	E	33	N		0.8	5	ROMANIA
a	05	02	47	17.7	59.493	S	29.529	W	28	D	5.8 5.9	1.1	84	SOUTH SANDWICH ISLANDS REGION
	05	03	11	10.9	20.864	S	175.699	W	62	D	5.1	0.9	49	TONGA ISLANDS
	05	03	43	15.6•	7.375	N	126.922	E	69	•	5.0	1.1	24	MINDANAO, PHILIPPINE ISLANDS
	05	05	36	47.6	50.540	N	19.088	E	10	G		1.5	9	POLAND. ML 3.5 (KBA), 3.1 (VKA).
	05	05	48	01.7	62.994	N	148.484	W	102	?		0.4	9	CENTRAL ALASKA
	05	05	50	14.9•	17.820	S	178.865	W	655	?	4.5	0.5	16	FIJI ISLANDS REGION
a	05	06	06	15.5	37.073	S	71.814	W	93		5.6	1.0	133	S. CHILE-ARGENTINA BORDER REGION. Felt (IV) in the Chillon area, Chile. Felt from Concepcion to Valdivia, Chile.

	05	07	23	39.9•	19.916	N	121.184	E	79	•	4.4		0.6	9	PHILIPPINE ISLANDS REGION
	05	07	31	19.4?	43.47	N	17.55	E	10	G			1.4	5	YUGOSLAVIA. ML 2.9 (TTG).
	05	08	34	25.6•	29.147	N	85.142	E	33	N	4.1		1.4	12	TIBET
	05	10	32	22.3	0.187	S	17.932	W	10	G	4.8	4.0	0.9	59	NORTH OF ASCENSION ISLAND
	05	12	16	49.1•	22.598	S	66.964	W	118	?	4.2		1.1	11	JUJUY PROVINCE, ARGENTINA
	05	13	28	43.5?	32.81	N	26.84	E	10	G			0.3	5	EASTERN MEDITERRANEAN SEA
	05	14	22	09.1	28.124	N	111.396	W	10	G	5.0		1.2	65	GULF OF CALIFORNIA
	05	15	34	30.9?	44.92	N	3.47	E	10	G			1.4	10	FRANCE. ML 2.5 (LDG).
	05	15	42	26.0&	60.000	N	152.286	W	72					43	SOUTHERN ALASKA. <AGS-P>.
	05	15	55	55.7%	60.724	N	5.572	E	10	G			0.6	5	SOUTHERN NORWAY. MD 2.0 (BER).
	05	16	14	35.7	25.873	N	96.343	E	33	N	4.1		1.2	17	BURMA
	05	17	06	54.3•	32.858	S	71.586	W	10	G			0.4	7	NEAR COAST OF CENTRAL CHILE
	05	18	13	41.4&	38.828	N	122.802	W	2	G				11	NORTHERN CALIFORNIA. <BRK>. ML 3.1 (BRK).
	05	18	55	50.6?	18.36	N	100.09	W	33	N			1.1	9	GUERRERO, MEXICO
	05	19	03	41.0	8.327	S	130.996	E	33	N	4.7		1.2	29	TANIMBAR ISLANDS REGION
	05	19	20	51.0	44.008	N	114.752	W	5	G			0.6	9	WESTERN IDAHO. ML 4.0 (NEIS).
	05	19	23	48.6•	43.979	N	114.744	W	5	G			0.9	6	WESTERN IDAHO. ML 3.4 (NEIS).
	05	19	53	24.3	36.052	N	31.718	E	75		4.3		1.1	111	TURKEY. Felt at Antalya, Turkey and Nicasia, Cyprus.
	05	21	08	24.7	1.864	N	126.778	E	73	•	4.8		1.1	32	MOLUCCA PASSAGE
	05	21	14	29.3?	23.01	S	68.73	W	199	?	3.9		0.8	6	NORTHERN CHILE
	05	21	49	07.4	15.812	N	59.637	W	33	N	4.1		0.8	20	LEEWARD ISLANDS. ML 3.9 (PAG).
	05	22	40	26.0	6.979	N	94.501	E	33	N	4.9		1.2	28	NICOBAR ISLANDS REGION
a	06	00	11	05.5	15.775	S	177.935	W	439		5.0		0.9	180	FIJI ISLANDS REGION
	06	01	35	37.6•	37.072	N	29.328	E	10	G			1.1	5	TURKEY
	06	02	24	05.9	15.020	S	177.653	W	383		4.8		0.9	97	FIJI ISLANDS REGION
	06	02	26	08.2•	38.154	N	20.710	E	10	G			1.2	5	GREECE
	06	04	04	35.7	1.517	N	127.375	E	139	•	4.8		0.9	34	HALMAHERA
	06	04	14	57.4•	41.723	N	19.454	E	10	G			1.0	7	ALBANIA. ML 2.9 (TTG).
	06	04	59	22.2	50.128	N	17.230	E	11				0.7	10	POLAND. ML 3.7 (VKA), 3.4 (KBA).
a	06	08	52	25.5	23.280	S	176.745	W	122		5.6		1.0	208	SOUTH OF FIJI ISLANDS
	06	11	13	03.0	46.930	N	1.884	W	15				0.7	21	FRANCE. ML 3.6 (LDG).
	06	11	38	11.9&	60.700	N	152.120	W	79					30	SOUTHERN ALASKA. <AGS-P>.
	06	11	47	44.6•	43.129	N	17.259	E	10	G			0.8	8	YUGOSLAVIA. ML 3.0 (KBA), 2.9 (TTG).
	06	14	40	03.9•	11.853	N	143.164	E	33	N	4.3		0.3	6	SOUTH OF MARIANA ISLANDS
	06	14	46	44.7&	48.748	N	125.254	W	24					11	VANCOUVER ISLAND REGION. <PGC-P>. ML 3.7 (PGC).
	06	15	31	01.8	36.407	N	71.330	E	84		5.0		1.1	128	AFGHANISTAN-USSR BORDER REGION. Felt (III) at Khorog, Ishkashim and in the Moskovskiy region, USSR.
	06	15	34	54.8	36.371	N	138.350	E	10	G	4.3		1.1	10	HONSHU, JAPAN. Felt (I JMA) at Nagano.
	06	16	46	43.2?	3.09	S	101.41	E	149	?	4.9		1.4	10	SOUTHERN SUMATERA
	06	17	55	20.0•	44.020	N	114.788	W	5	G			0.9	8	WESTERN IDAHO. ML 3.5 (NEIS).
	06	20	03	01.7?	48.36	N	1.18	W	10	G			1.7	5	FRANCE. ML 2.3 (LDG).
a	06	20	04	23.7	20.669	S	178.457	W	587	D	5.5		0.9	211	FIJI ISLANDS REGION
	06	20	20	02.7	51.685	N	16.234	E	10	G			0.8	22	POLAND. ML 4.2 (VKA), 4.1 (GRF), 4.1 (KBA).
	06	21	13	19.1	38.898	N	107.080	W	5	G			0.4	10	COLORADO. ML 2.2 (NEIS).
	06	21	16	43.5%	42.943	N	18.862	E	10	G			0.8	5	YUGOSLAVIA. ML 2.2 (TTG).
	06	22	54	54.2•	30.420	N	41.979	W	10	G	4.3		0.8	19	NORTH ATLANTIC RIDGE
	06	23	05	07.3%	39.035	N	28.035	E	10	G			0.6	5	TURKEY
	06	23	06	44.1	5.346	N	126.087	E	109		5.3		1.2	69	MINDANAO, PHILIPPINE ISLANDS
	07	00	08	37.5	6.773	N	72.996	W	168		4.2		0.6	19	NORTHERN COLOMBIA
	07	00	22	32.5&	60.244	N	143.445	W	18					41	SOUTHERN ALASKA. <AGS-P>. ML 3.8 (PMR).
a	07	01	44	19.9	12.824	S	169.518	E	665		4.9		0.8	119	SANTA CRUZ ISLANDS REGION
	07	02	13	49.1	23.041	S	177.086	W	190		5.4		1.2	106	SOUTH OF FIJI ISLANDS
	07	04	03	15.0•	18.757	S	177.893	W	563		4.5		0.6	26	FIJI ISLANDS REGION
	07	04	45	23.1•	45.592	N	26.265	E	123	?	3.5		1.4	12	ROMANIA
	07	04	58	29.3&	32.500	N	115.060	W	6	G				2	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.1 (PAS).
	07	05	47	38.5?	33.44	S	72.00	W	33	N			1.1	9	NEAR COAST OF CENTRAL CHILE
	07	05	50	26.0&	32.380	N	115.160	W	6	G				5	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.5 (PAS).
	07	06	28	46.2	27.943	S	66.586	W	160	•	4.9		1.2	34	CATAMARCA PROVINCE, ARGENTINA
	07	07	50	39.4•	8.055	S	97.627	W	10	G	4.8	3.9	1.0	44	SOUTHWEST OF GALAPAGOS ISLANDS
	07	08	09	36.5	38.379	N	25.104	E	10	G			0.8	8	AEGEAN SEA. ML 3.3 (ATH).
	07	09	24	45.9	53.749	N	2.816	E	10	G			0.7	27	NORTH SEA. ML 3.6 (LDG), 3.3 (BGS). mbLg 3.2 (DOU).
	07	09	29	57.0&	60.027	N	152.696	W	89					35	SOUTHERN ALASKA. <AGS-P>.
	07	10	47	53.8	43.206	N	26.023	E	10	G			0.9	13	BULGARIA
	07	10	54	02.2	43.192	N	26.085	E	10	G			1.1	10	BULGARIA
	07	11	43	25.8•	3.324	N	127.580	E	33	N	4.3		1.0	14	TALAUD ISLANDS
	07	13	25	20.0•	7.058	S	154.796	E	45	•	4.9		1.3	13	SOLOMON ISLANDS
	07	17	12	38.5?	32.33	S	70.18	W	33	N			1.5	8	CHILE-ARGENTINA BORDER REGION
	07	18	15	45.9?	18.13	S	178.44	W	625	•	5.0		1.0	19	FIJI ISLANDS REGION
	07	18	34	08.1•	2.428	S	77.659	W	33	N	4.0		0.8	7	PERU-ECUADOR BORDER REGION
a	07	20	11	08.8	59.542	S	26.098	W	33	N	5.4	5.0	1.0	59	SOUTH SANDWICH ISLANDS REGION
	07	21	51	54.2	18.567	S	69.644	W	119		4.7		1.3	32	NORTHERN CHILE
	07	22	10	35.5•	2.134	N	127.013	E	33	N			0.5	7	MOLUCCA PASSAGE
	07	22	20	35.3•	19.735	S	167.690	E	33	N	4.6		1.3	6	VANUATU ISLANDS REGION
	07	23	57	04.6•	9.640	S	112.190	E	81	?	4.6		0.8	9	SOUTH OF JAVA
	08	00	36	15.8	12.782	S	169.460	E	641	D	4.9		1.0	87	SANTA CRUZ ISLANDS REGION
	08	00	58	21.0	48.234	N	154.253	E	54	D	4.7		0.7	50	KURIL ISLANDS
a	08	02	39	52.4	4.417	N	96.370	E	40		5.2	5.1	1.2	132	NORTHERN SUMATERA
	08	03	37	41.1&	40.342	N	124.262	W	5	G				8	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.3 (BRK).
	08	03	46	05.5•	4.429	N	96.400	E	33	N			1.6	5	NORTHERN SUMATERA
	08	05	10	48.1•	28.665	N	129.869	E	33	N			0.6	6	RYUKYU ISLANDS. Felt (I JMA) at Naze.
	08	06	03	29.9	6.835	N	73.132	W	161		4.6		1.1	24	NORTHERN COLOMBIA
	08	06	38	40.5•	8.215	N	93.981	E	74	?	4.4		1.5	14	NICOBAR ISLANDS REGION
	08	07	03	15.4	25.336	N	66.600	E	33	N	4.6	3.8	1.2	37	PAKISTAN
	08	09	37	58.7?	4.62	N	96.45	E	33	N			0.9	5	NORTHERN SUMATERA
	08	11	07	29.7&	32.940	N	117.770	W	10					6	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.0 (PAS).
	08	11	51	25.0•	6.425	S	108.300	E	285	•	4.6		1.0	22	JAVA
	08	12	39	28.7•	45.613	N	26.489	E	165	?			0.6	12	ROMANIA
	08	13	03	36.7?	17.84	N	95.46	W	33	N			1.1	8	OAXACA, MEXICO
	08	16	22	44.8&	36.840	N	121.390	W	5					14	CENTRAL CALIFORNIA. <BRK>. ML 2.0 (BRK). Felt at Hollister.
	08	16	43	52.2	0.553	N	122.101	E	120	•	4.9		0.6	14	MINAHASSA PENINSULA
	08	16	55	42.6	6.355	S	154.652	E	48	•	4.4		0.9	19	SOLOMON ISLANDS
	08	17	19	43.9•	45.497	N	26.344	E	140	G			0.6	6	ROMANIA

	08	17	35	39.6*	4.710	S	130.510	E	33	N		1.4	9	BANDA SEA
	08	18	02	02.2?	32.38	S	71.75	W	10	G		0.5	8	NEAR COAST OF CENTRAL CHILE
	08	21	23	27.9*	21.905	S	68.712	W	145	?	4.1	1.5	11	CHILE-BOLIVIA BORDER REGION
	08	22	21	14.7*	39.522	N	15.563	E	266	*	4.1	1.3	42	SOUTHERN ITALY
	08	23	35	29.5*	55.891	S	27.115	W	23	D	5.0	0.7	17	SOUTH SANDWICH ISLANDS REGION
	09	00	03	43.8*	13.846	N	92.076	W	58	*	4.5 3.3	1.5	20	OFF COAST OF CHIAPAS, MEXICO
	09	00	15	34.9?	14.67	N	60.94	W	125	G		0.5	10	WINDWARD ISLANDS
	09	00	18	13.8*	6.672	N	77.486	W	10	G	3.8	1.5	8	NEAR WEST COAST OF COLOMBIA
	09	00	23	55.9*	6.680	N	77.586	W	10	G		1.2	8	NEAR WEST COAST OF COLOMBIA
	09	00	29	15.6*	34.914	S	179.063	E	33	N	5.2 5.0	0.9	8	SOUTH OF KERMADEC ISLANDS
	09	00	30	49.5	45.180	N	114.759	E	10	G	4.5 4.1	1.0	25	MONGOLIA
	09	03	19	48.9	23.125	S	66.507	W	209		5.0	1.1	82	JUJUY PROVINCE, ARGENTINA
	09	03	49	12.0?	45.82	N	26.26	E	173	?		1.3	16	ROMANIA
	09	04	37	50.4*	4.639	S	11.426	W	10	G	4.6 4.4	1.0	41	NORTH OF ASCENSION ISLAND
	09	07	33	01.4	28.429	N	138.554	E	535		4.8	0.7	56	BONIN ISLANDS REGION
	09	08	50	22.8&	31.700	N	115.940	W	6	G			3	BAJA CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
	09	08	53	52.0*	36.135	N	71.420	E	141	?	4.6	1.5	8	AFGHANISTAN-USSR BORDER REGION
	09	10	26	33.0*	50.946	S	28.942	E	10	G	4.7	0.7	10	SOUTH OF AFRICA
	09	10	28	53.5?	17.32	N	99.78	W	10	G		1.4	6	GUERRERO, MEXICO
	09	13	29	39.2	37.452	N	118.438	W	5	G		0.6	12	CALIFORNIA-NEVADA BORDER REGION. ML 3.4 (NEIS).
	09	14	10	42.9*	12.083	S	166.068	E	33	N		0.7	8	SANTA CRUZ ISLANDS
	09	14	17	43.4?	39.56	N	72.89	E	33	N	4.3	1.4	5	KIRGHIZ SSR
	09	14	29	03.4?	34.01	S	72.34	W	10	G		0.6	7	NEAR COAST OF CENTRAL CHILE
	09	14	37	20.3	42.539	N	19.746	E	10	G		0.5	7	YUGOSLAVIA. ML 2.3 (TTG).
	09	14	42	44.4	1.095	N	127.865	E	33	N	4.6	1.1	35	HALMAHERA
	09	15	16	34.2	62.635	N	151.145	W	110	*		0.8	31	CENTRAL ALASKA
a	09	15	58	22.5	0.927	N	127.944	E	33	N	5.5 5.3	1.2	104	HALMAHERA
	09	16	22	50.6&	33.970	N	116.570	W	6				28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS). Felt (IV) at Cabazon, Desert Hot Springs, North Palm Springs, Moronga Valley and Mountain Center. Felt (III) at Palm Springs, Joshua Tree and La Quinta.
	09	16	22	51.9	31.621	N	85.026	E	33	N	4.8	1.1	42	TIBET
	09	16	24	26.6	31.546	N	85.067	E	33	N	5.2 4.9	1.1	91	TIBET
	09	16	40	13.2	31.587	N	85.040	E	33	N	4.8	1.3	28	TIBET
	09	17	22	34.5*	45.322	N	146.098	E	176	?	4.5	1.0	36	KURIL ISLANDS
	09	17	55	57.4*	59.320	N	6.790	E	10	G		1.4	7	SOUTHERN NORWAY. MD 2.3 (BER).
	09	23	24	04.9	21.857	S	68.704	W	106	*	4.7	1.1	19	CHILE-BOLIVIA BORDER REGION
	10	01	47	30.2	19.130	S	174.789	W	165	*	5.0	1.1	43	TONGA ISLANDS
	10	02	35	54.9*	46.471	N	12.326	E	10	G		0.4	6	NORTHERN ITALY. ML 2.3 (KBA).
	10	05	05	07.6%	33.625	S	70.908	W	33	N		0.7	7	CHILE-ARGENTINA BORDER REGION
	10	05	06	59.0?	37.70	N	19.98	E	10	G	4.1	1.0	12	IONIAN SEA. ML 4.0 (ATH).
	10	05	44	04.4*	21.650	S	68.936	W	185	?		1.5	8	CHILE-BOLIVIA BORDER REGION
	10	06	09	50.1?	18.75	S	173.94	W	33	N	4.7	1.4	15	TONGA ISLANDS
	10	06	47	45.8	37.992	N	39.123	E	10	G	4.1	1.4	17	TURKEY
	10	07	50	25.5	25.385	N	92.077	E	43	D	5.2 4.5	1.0	109	INDIA-BANGLADESH BORDER REGION. Felt strongly in Assam and Meghalaya, India.
	10	09	24	45.3	44.593	N	11.313	E	10	G		1.0	17	NORTHERN ITALY. ML 3.4 (KBA), 3.2 (LDG).
	10	10	54	42.0*	16.062	S	172.888	W	33	N	4.8	1.2	25	SAMOA ISLANDS REGION
	10	13	46	15.3?	36.89	N	76.81	E	33	N	4.8	1.1	8	KASHMIR-XINJIANG BORDER REGION
	10	13	46	46.1	2.811	S	101.279	E	84	*	5.3	1.1	69	SOUTHERN SUMATERA
	10	14	35	39.3*	11.248	S	166.101	E	153	*	5.1	1.1	25	SANTA CRUZ ISLANDS
	10	15	11	48.7?	25.20	N	141.18	E	33	N	4.6	1.5	8	VOLCANO ISLANDS REGION
	10	15	49	24.3%	39.552	N	27.951	E	10	G		0.2	5	TURKEY
	10	15	51	52.3&	33.960	N	116.670	W	9				11	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS). Felt in the Palm Springs area.
	10	16	56	08.0?	21.73	S	179.48	W	626	*	5.1	0.8	27	FIJI ISLANDS REGION
	10	17	03	34.2*	50.240	S	71.290	W	33	N	5.0	1.4	16	S. CHILE-ARGENTINA BORDER REGION
	10	17	28	39.0	0.395	N	125.834	E	77	*	5.0	1.2	40	MOLUCCA PASSAGE
	10	18	52	04.6*	55.748	N	160.780	E	145	D	4.7	0.8	67	KAMCHATKA
	10	19	32	26.5*	36.129	N	48.968	E	33	N	4.2	0.9	6	NORTHWESTERN IRAN
	10	19	43	46.4?	21.85	S	65.97	W	33	N		1.0	6	SOUTHERN BOLIVIA
	10	21	10	12.3*	45.523	N	26.379	E	140	G		0.5	6	ROMANIA
	10	21	58	58.5&	60.706	N	151.198	W	58				27	KENAI PENINSULA, ALASKA. <AGS-P>.
a	10	22	20	48.5	8.823	S	157.522	E	10	G	5.5 5.2	1.3	116	SOLOMON ISLANDS
	10	23	16	51.3?	51.01	N	171.88	W	33	N	4.6	1.0	10	FOX ISLANDS, ALEUTIAN ISLANDS
	10	23	17	48.9	50.067	N	17.156	E	10	G		0.9	13	POLAND. ML 3.8 (VKA), 3.5 (GRF), 3.5 (KBA).
	10	23	37	28.1%	40.016	N	28.163	E	10	G		0.7	6	TURKEY
f	11	00	18	25.5	5.187	S	152.442	E	51	D	5.8 6.4	1.3	298	NEW BRITAIN REGION. Ms 6.7 (BRK). Felt (V) at Rabaul.
	11	00	27	57.5	5.370	S	152.713	E	34	*		1.1	16	NEW BRITAIN REGION
	11	00	35	49.0	6.006	S	128.440	E	394		4.7	1.0	24	BANDA SEA
	11	01	11	17.9?	45.68	N	26.45	E	140	?		0.2	6	ROMANIA
	11	02	07	28.4	44.053	N	114.705	W	5	G		0.9	13	WESTERN IDAHO. ML 3.5 (NEIS).
	11	02	16	51.8*	19.741	N	98.577	W	5	G	3.8	0.8	5	CENTRAL MEXICO
	11	02	27	37.4&	60.074	N	153.144	W	115				22	SOUTHERN ALASKA. <AGS-P>.
	11	03	49	08.1*	43.940	N	114.837	W	5	G		0.7	7	WESTERN IDAHO. ML 3.4 (NEIS).
	11	03	55	12.7	44.067	N	114.701	W	5	G		0.7	17	WESTERN IDAHO. ML 4.0 (NEIS).
	11	04	22	30.6	32.662	N	78.559	E	33	N	4.8	1.4	54	KASHMIR-TIBET BORDER REGION
	11	04	37	31.3?	71.00	N	15.24	W	10	G	4.8	0.7	9	JAN MAYEN ISLAND REGION
	11	04	55	34.6	45.114	N	7.500	E	5	G		0.7	25	NORTHERN ITALY. ML 2.9 (LDG).
	11	05	02	11.4	5.229	S	152.604	E	46	*	4.9	1.3	19	NEW BRITAIN REGION
	11	08	57	26.9?	32.42	S	71.50	W	33	N		0.5	8	NEAR COAST OF CENTRAL CHILE
	11	10	30	03.2?	6.14	S	154.87	E	59	*	4.5	1.3	7	SOLOMON ISLANDS. Felt (II) at Arawa.
	11	12	46	49.9*	34.552	N	139.282	E	5	G		1.1	6	NEAR S. COAST OF HONSHU, JAPAN. Felt (III JMA) on Oshima.
	11	12	58	25.1*	0.499	N	125.989	E	33	N	4.7	1.1	15	MOLUCCA PASSAGE
	11	13	16	49.7*	4.928	S	152.224	E	78	*	4.8	0.8	7	NEW BRITAIN REGION
	11	13	22	59.5*	1.075	S	98.265	E	33	N	5.3	1.2	5	SOUTHERN SUMATERA
	11	14	57	00.1&	37.069	N	116.050	W	0				18	SOUTHERN NEVADA. <DOE>. ML 3.2 (NEIS). 37' 04' 08.68" N., 116' 02' 58.89" W., Surface Elev. 1244 m., Depth of Burial 500 m., Shot Time 145700.107, "ALEMAN", Nevada Test Site (Dept. of Energy).
	11	15	25	13.3*	4.957	S	151.911	E	79	*	4.8	1.8	7	NEW BRITAIN REGION
	11	16	57	19.6	5.217	S	152.641	E	40		5.3	1.2	60	NEW BRITAIN REGION

	11	17	07	25.1%	39.949	N	26.601	E	10	G			0.4	5	TURKEY
	11	17	41	19.2%	46.385	N	9.940	E	10	G			1.7	5	SWITZERLAND
	11	17	47	08.3*	39.105	N	27.730	E	10	G			1.0	5	TURKEY
a	11	17	54	03.0	0.474	N	125.862	E	33	N	5.4	5.0	1.3	130	MOLUCCA PASSAGE
	11	19	15	34.3*	5.109	S	152.242	E	63	*	5.3		1.6	10	NEW BRITAIN REGION
	11	19	33	37.7	2.154	S	138.260	E	33	N	4.6		1.2	35	WEST IRIAN
	11	22	20	55.9?	50.91	N	178.99	E	33	N	4.4		1.1	4	RAT ISLANDS, ALEUTIAN ISLANDS
	12	00	11	48.2	2.911	N	96.130	E	37		5.0	4.4	0.9	122	NORTHERN SUMATERA
	12	00	11	57.2	39.058	N	7.439	W	10	G			1.3	9	PORTUGAL. MG 3.7 (MTH). Felt at Sousel.
	12	00	34	50.4	10.860	N	69.391	W	21	*	4.6	3.9	1.1	24	VENEZUELA
	12	01	19	12.3?	43.99	N	128.92	W	10	G	4.3	4.5	1.3	12	OFF COAST OF OREGON
	12	01	52	33.7*	40.764	N	31.581	E	10	G			0.9	6	TURKEY
	12	03	30	57.9*	17.984	N	59.466	W	33	N			0.7	18	LEEWARD ISLANDS. ML 4.3 (FDF).
	12	05	43	18.1?	5.42	S	131.59	E	225	?	3.8		0.8	5	BANDA SEA
	12	05	52	59.4	32.315	S	69.911	W	116		4.4		0.7	21	MENDOZA PROVINCE, ARGENTINA. Felt (III) in the Mendoza area. Also felt (II) in the Santiago, Chile area.
	12	07	24	41.4*	20.142	S	168.679	E	10		4.8		1.4	35	LOYALTY ISLANDS
	12	08	43	17.5*	45.634	N	26.594	E	148	?			0.5	8	ROMANIA
	12	09	02	33.8%	40.682	N	29.060	E	10	G			1.0	6	TURKEY
	12	10	34	51.2	40.251	N	27.330	E	10	G			0.7	31	TURKEY. ML 4.1 (ATH).
a	12	10	39	40.6	22.510	S	70.176	W	80		5.1		1.1	87	NEAR COAST OF NORTHERN CHILE. Felt (IV) in the Antofagasta-Calama area. Felt (II) at Arequipa, Peru.
	12	10	49	29.9*	21.602	S	177.318	W	389	*	4.6		1.1	15	FIJI ISLANDS REGION
	12	11	18	17.5	23.833	S	179.801	W	552	*	4.9		1.0	53	SOUTH OF FIJI ISLANDS
	12	11	27	02.8*	5.227	N	125.404	E	33	N	5.2		1.1	22	MINDANAO, PHILIPPINE ISLANDS
	12	13	58	57.2?	37.35	N	21.44	E	33	N			0.6	5	SOUTHERN GREECE. ML 3.5 (ATH).
	12	14	08	54.3	34.533	N	91.999	E	33	N	4.7		1.3	39	QINGHAI PROVINCE, CHINA
	12	15	49	08.5*	0.096	N	122.827	E	209	?			0.6	7	MINAHASSA PENINSULA
a	12	16	18	48.2	5.387	S	153.740	E	59		5.2		1.2	106	NEW IRELAND REGION
	12	16	33	55.3%	60.712	N	5.594	E	10	G			0.5	7	SOUTHERN NORWAY. MD 2.2 (BER).
	12	20	07	06.9*	51.559	N	178.546	W	33	N	4.3		0.8	25	ANDREANOF ISLANDS, ALEUTIAN IS.
	12	20	13	24.3&	61.814	N	149.935	W	43					49	SOUTHERN ALASKA. <AGS-P>. ML 3.4 (PMR).
	12	20	45	01.4*	29.107	S	71.116	W	33	N			1.0	10	NEAR COAST OF CENTRAL CHILE
	12	21	54	52.1*	6.984	S	110.293	E	33	N	4.8		1.5	29	JAVA. Felt in the Semarang area.
	12	23	33	17.2?	43.31	N	2.84	W	10	G			0.8	6	SPAIN. ML 2.6 (LDG).
	12	23	38	11.2&	36.243	N	120.485	W	8					13	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK), 3.3 (PAS).
f	12	23	57	15.6	56.201	N	153.405	W	31	G	6.1	6.3	1.1	356	KODIAK ISLAND REGION. Ms 6.0 (BRK). Double event about 4.5 seconds apart. Felt (IV) at Larsen Bay. Depth from broadband displacement seismograms.
	13	00	26	54.0?	44.08	N	11.06	E	10	G			0.7	5	NORTHERN ITALY. ML 2.6 (KBA), 2.5 (LDG).
	13	00	41	36.5*	56.167	N	153.804	W	33	N	4.6		1.9	7	KODIAK ISLAND REGION. ML 3.4 (PMR).
	13	00	59	38.2?	40.58	N	16.29	E	10	G			1.1	5	SOUTHERN ITALY
	13	01	44	22.0?	17.12	S	178.92	W	550		4.6		1.5	39	FIJI ISLANDS REGION
	13	01	57	30.6	3.592	N	145.352	E	33	N	5.1		0.9	53	CAROLINE ISLANDS REGION
	13	02	52	02.8*	23.072	S	66.423	W	219	*	4.3		1.4	16	JUJUY PROVINCE, ARGENTINA
	13	03	05	41.5*	56.252	N	153.594	W	33	N			1.7	7	KODIAK ISLAND REGION. ML 3.8 (PMR).
	13	03	11	19.1	56.138	N	153.639	W	33	N	4.8		0.9	60	KODIAK ISLAND REGION. ML 4.8 (PMR).
	13	03	36	55.3*	42.889	N	145.466	E	48	*	4.8		1.2	35	HOKKAIDO, JAPAN REGION. Felt (II JMA) at Nemuro.
	13	03	38	10.2?	56.52	N	152.79	W	33	N			1.7	6	KODIAK ISLAND REGION. ML 3.4 (PMR).
	13	03	47	41.9	39.074	N	27.757	E	10	G			1.4	9	TURKEY
	13	04	19	59.7*	56.102	N	153.310	W	33	N	4.0		1.1	10	KODIAK ISLAND REGION. ML 3.9 (PMR).
	13	04	25	42.5*	1.962	N	79.525	W	33	N	4.4		1.1	7	NEAR COAST OF ECUADOR
	13	05	08	25.3&	59.976	N	152.824	W	88					32	SOUTHERN ALASKA. <AGS-P>.
	13	06	46	29.9*	36.160	N	69.812	E	169	?	4.8		1.1	10	HINDU KUSH REGION
	13	07	16	53.6*	25.466	N	142.637	E	33	N	4.7		0.9	26	VOLCANO ISLANDS REGION
a	13	09	28	24.4	60.797	S	36.779	W	10	G	5.8	6.1	1.2	130	SCOTIA SEA
	13	09	58	43.5	18.637	N	145.643	E	195		5.1		1.2	137	MARIANA ISLANDS
	13	11	26	37.3	0.473	N	125.899	E	33	N	4.9		1.3	54	MOLUCCA PASSAGE
	13	12	30	40.7&	61.245	N	146.939	W	42					50	SOUTHERN ALASKA. <AGS-P>. ML 3.8 (PMR). Felt at Valdez.
	13	14	06	30.2*	32.735	S	71.271	W	33	N			1.0	11	NEAR COAST OF CENTRAL CHILE
	13	14	14	54.3	36.442	N	70.766	E	200		4.9		1.0	169	HINDU KUSH REGION. Felt (IV) at Ishkashim and (III) at Khorog and Kulyab, USSR.
	13	15	16	15.0?	54.98	N	150.97	W	33	N			1.2	5	SOUTH OF ALASKA. ML 3.8 (PMR).
f	13	15	17	21.0	31.827	S	179.937	W	215	G	5.9		1.1	391	KERMADEC ISLANDS REGION. Felt (III) on Raoul. Depth from broadband displacement seismograms.
	13	16	30	02.9*	55.635	N	160.612	W	33	N			1.3	7	ALASKA PENINSULA. ML 3.8 (PMR).
a	13	17	24	31.4	37.014	N	22.176	E	11	G	6.0	5.8	1.4	362	SOUTHERN GREECE. ML 5.7 (ATH). At least twenty people killed, about 300 injured, 2500 homeless and 1500 buildings damaged or destroyed (X) in the Kalamai area. Felt in Lakonia and on Zakinthos. Also felt at Athens and in central Greece. Depth from broadband displacement seismograms.
	13	17	45	22.9	0.350	N	125.844	E	33	N	5.1		1.2	25	MOLUCCA PASSAGE
	13	18	00	47.7	23.032	S	66.405	W	197		4.9		1.2	62	JUJUY PROVINCE, ARGENTINA
	13	18	30	36.0?	36.82	N	22.22	E	33	N			1.1	6	SOUTHERN GREECE. ML 3.4 (ATH).
	13	18	34	45.9?	41.78	N	22.27	E	10	G			0.2	4	YUGOSLAVIA. MG 1.8 (SKO).
	13	18	50	18.2?	36.76	N	22.00	E	33	N			1.1	5	SOUTHERN GREECE. ML 3.2 (ATH).
	13	20	30	36.6	36.927	N	71.129	E	106	*	4.7		1.1	25	AFGHANISTAN-USSR BORDER REGION
	13	21	00	46.1	37.444	N	20.605	E	50		4.4	3.9	1.3	143	IONIAN SEA
	13	21	36	29.1	17.850	N	145.504	E	399		4.8		1.0	81	MARIANA ISLANDS
	13	21	56	44.4	38.985	N	135.398	E	383		4.5		0.9	35	SEA OF JAPAN
	13	22	40	16.4	37.127	N	22.146	E	33	N	3.8		1.2	14	SOUTHERN GREECE. ML 3.7 (ATH).
	13	22	47	32.0*	16.900	N	120.468	E	122	*			1.0	7	LUZON, PHILIPPINE ISLANDS
a	14	00	05	54.5	23.368	S	179.102	E	549		5.2		1.1	166	SOUTH OF FIJI ISLANDS
	14	01	03	28.3*	23.036	S	68.773	W	112	*	4.7		1.3	14	NORTHERN CHILE
	14	01	11	29.5	56.319	N	153.501	W	33	N	4.5		0.9	37	KODIAK ISLAND REGION
	14	02	42	50.2*	34.028	S	71.949	W	33	N	4.2		0.9	11	NEAR COAST OF CENTRAL CHILE
	14	02	58	38.1&	61.015	N	151.272	W	70					39	SOUTHERN ALASKA. <AGS-P>.
	14	03	38	31.3	6.071	S	105.526	E	33	N	5.1		1.4	69	SUNDA STRAIT
	14	04	46	00.8%	40.080	N	29.385	E	13	*			0.4	7	TURKEY
	14	05	52	05.8?	37.96	N	25.53	E	10	G			1.0	6	DODECANESE ISLANDS. ML 3.5 (ATH).
	14	06	06	06.0?	31.54	S	68.34	W	134	*	4.1		0.9	11	SAN JUAN PROVINCE, ARGENTINA
	14	08	15	54.3*	6.055	S	146.791	E	76	*	3.8		1.3	11	EAST PAPUA NEW GUINEA REGION

	14	08	15	55.3&	36.882	N	121.325	W	7				14	CENTRAL CALIFORNIA. <BRK>. ML 3.1 (BRK).
	14	09	08	41.0%	44.690	N	6.925	E	5			0.3	9	FRANCE. ML 2.9 (LDG).
	14	09	57	49.2?	18.30	N	100.54	W	33	N		0.7	5	GUERRERO, MEXICO
	14	11	27	13.6	56.707	N	34.241	W	10	G	4.9 3.5	0.9	85	NORTH ATLANTIC OCEAN
	14	11	33	39.5*	63.186	N	147.191	W	33	N		1.4	7	CENTRAL ALASKA. ML 3.1 (PMR).
	14	11	38	53.6&	61.703	N	149.682	W	47				38	SOUTHERN ALASKA. <AGS-P>. Felt at Palmer.
	14	12	31	39.8?	44.13	N	18.37	E	10	G		1.6	5	YUGOSLAVIA. ML 2.2 (TTG).
	14	12	36	08.4*	43.139	N	18.696	E	10	G		0.9	5	YUGOSLAVIA. ML 2.4 (TTG).
	14	12	42	32.3	24.084	N	141.910	E	33	N	5.2	1.1	57	VOLCANO ISLANDS REGION
	14	13	13	24.1*	1.777	N	97.554	E	71	?	4.1	0.9	9	NORTHERN SUMATERA
	14	13	22	09.0*	5.073	S	102.691	E	56	*	5.0	1.2	32	SOUTHERN SUMATERA
	14	13	54	41.9	43.784	N	147.621	E	49	*	5.1	0.9	99	KURIL ISLANDS. Felt (I JMA) at Nemuro, Hokkaido.
	14	14	51	40.1	0.097	S	123.418	E	197	*	5.1	1.3	49	MINAHASSA PENINSULA
	14	16	01	49.4*	43.968	N	114.751	W	5	G		0.5	7	WESTERN IDAHO. ML 3.1 (NEIS).
	14	16	27	47.0*	42.296	N	19.957	E	10	G		0.6	5	YUGOSLAVIA. ML 2.3 (TTG).
	14	16	56	23.0*	47.129	N	153.934	E	33	N	5.0 4.1	0.8	50	KURIL ISLANDS
	14	17	05	36.7*	37.646	N	36.007	E	10	G		1.5	7	TURKEY
	14	17	41	27.5&	58.825	N	137.022	W	6				16	SOUTHEASTERN ALASKA. <AGS-P>.
	14	17	47	05.5	47.104	N	154.100	E	33	N	4.8	1.2	23	KURIL ISLANDS
	14	17	53	19.7	34.307	N	25.828	E	54	*	4.4	1.4	80	CRETE
	14	19	33	07.7*	28.930	N	129.722	E	80	*	4.1	1.2	16	RYUKYU ISLANDS. Felt (II JMA) at Naze.
	14	20	16	58.2	1.738	N	126.408	E	33	N	4.9	0.8	28	MOLUCCA PASSAGE
	14	20	51	28.6*	42.335	N	20.043	E	10	G		1.5	6	YUGOSLAVIA. MD 2.1 (TTG).
a	14	20	58	23.1	6.470	S	154.916	E	59		5.6	1.1	225	SOLOMON ISLANDS. Felt (V) at Arawa and Ponguno, Bougainville.
	14	22	03	50.1	40.393	N	26.087	E	10	G		0.6	6	TURKEY
	14	22	12	20.6	7.121	N	77.105	W	47		4.7	1.1	54	PANAMA-COLOMBIA BORDER REGION
	14	22	48	40.6?	36.80	N	22.12	E	33	N		1.3	12	SOUTHERN GREECE. ML 3.6 (ATH).
	14	23	33	16.0&	61.228	N	146.846	W	16				43	SOUTHERN ALASKA. <AGS-P>.
	15	00	25	48.1	18.490	N	62.485	W	33	N	4.2	0.7	18	LEEWARD ISLANDS. ML 4.2 (FDF).
	15	03	26	07.6?	60.77	S	36.41	W	10	G	4.6	1.3	10	SCOTIA SEA
	15	04	23	19.5&	31.970	N	116.320	W	10				5	BAJA CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
	15	05	02	34.1	23.911	S	66.672	W	207		4.6	1.2	28	JUJUY PROVINCE, ARGENTINA
	15	05	47	29.1*	24.031	N	114.426	E	33	N		1.3	8	NEAR SOUTHEASTERN COAST OF CHINA. MG 3.8 (GZH).
	15	06	29	35.8	51.561	N	177.085	W	33	N	4.9 4.0	1.0	105	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.8 (PMR). Felt on Adak.
	15	06	58	40.3?	18.56	S	177.76	W	573	*	5.0	0.9	21	FIJI ISLANDS REGION
	15	07	06	30.6	26.269	S	27.432	E	5	G	4.9	1.1	22	REPUBLIC OF SOUTH AFRICA
	15	07	53	29.0	43.108	N	29.077	W	10	G	4.6 4.4	1.0	48	NORTH ATLANTIC RIDGE
	15	08	21	57.8*	47.347	N	11.081	E	10	G		1.4	8	AUSTRIA. ML 3.0 (KBA).
	15	08	46	56.1	38.433	N	25.028	E	10	G		1.2	8	AEGEAN SEA. ML 3.7 (ATH).
a	15	08	48	11.4	22.748	S	175.288	W	33	N	5.7 5.8	1.2	193	TONGA ISLANDS REGION
	15	09	13	02.4	48.519	N	153.073	E	33	N	5.1	0.7	74	KURIL ISLANDS
	15	10	18	15.5?	0.11	S	125.30	E	33	N	4.3	1.2	11	MOLUCCA SEA
	15	11	38	31.3*	5.757	S	146.417	E	129	*	4.5	1.4	12	EAST PAPUA NEW GUINEA REGION
	15	11	41	27.8	36.930	N	22.175	E	10	G	4.9 4.8	1.4	180	SOUTHERN GREECE. ML 4.8 (ATH). Thirty-seven people injured and additional damage in the Kalamai area.
	15	12	47	38.7*	37.243	N	22.141	E	33	N		1.0	17	SOUTHERN GREECE. ML 3.7 (ATH).
	15	13	19	47.8	39.121	N	27.807	E	12			1.2	13	TURKEY
	15	14	17	52.1	41.073	N	20.819	E	10	G		1.1	32	ALBANIA. ML 3.6 (SKO), MD 3.4 (TTG). Felt (V) in the Ohrid-Struga area, Yugoslavia.
	15	14	48	22.1&	61.528	N	143.800	W	52		4.5		86	SOUTHERN ALASKA. <AGS-P>. Felt (IV) at Chitina. Felt (III) at Cordova and Valdez.
	15	15	09	14.0	46.547	N	2.462	E	10	G		1.0	11	FRANCE. ML 2.6 (LDG).
	15	16	42	52.7*	24.642	N	98.782	E	33	N	4.4	1.1	7	BURMA-CHINA BORDER REGION
	15	16	53	54.1	47.270	N	153.914	E	33	N	4.9 4.8	1.0	74	KURIL ISLANDS
	15	17	00	33.2	47.329	N	153.797	E	33	N	5.0 4.6	0.9	87	KURIL ISLANDS
	15	17	08	04.2?	46.08	N	14.79	E	10	G		0.4	5	YUGOSLAVIA. ML 2.1 (KBA).
	15	17	54	11.5*	33.250	N	30.405	E	33	N		0.8	7	EASTERN MEDITERRANEAN SEA
	15	18	43	26.8*	21.197	S	68.735	W	119	*		1.2	8	CHILE-BOLIVIA BORDER REGION
	15	19	43	07.9	21.377	S	67.339	W	189	*	4.5	1.2	24	CHILE-BOLIVIA BORDER REGION
	15	20	05	38.0	7.425	N	74.963	W	70		4.8	1.0	79	NORTHERN COLOMBIA. Felt at Medellin.
	15	20	17	49.8	37.296	N	121.657	W	5	G		0.5	11	CENTRAL CALIFORNIA. ML 2.5 (BRK).
	15	21	11	08.7	44.582	N	11.330	E	10	G		1.1	16	NORTHERN ITALY. ML 3.1 (KBA), 3.0 (LDG). MD 3.0 (FIR).
	15	21	23	03.1	44.614	N	11.318	E	10	G		0.7	15	NORTHERN ITALY. ML 3.0 (KBA), 2.9 (LDG). MD 3.0 (FIR).
a	15	21	42	29.2	36.714	N	71.092	E	89	G	5.8	1.0	333	AFGHANISTAN-USSR BORDER REGION. Felt (IV) at Regar and in the Ishkashim-Obigarm-Parkhar area; (III) at Dushanbe and Samarkand, USSR. Felt at Chitral and Peshawar, Pakistan. Depth from broadband displacement seismograms.
	15	23	00	28.4?	15.84	N	60.28	W	28	*		1.5	8	LEEWARD ISLANDS
	15	23	29	52.5%	39.117	N	27.721	E	10	G		0.6	8	TURKEY
	15	23	32	41.5	39.142	N	27.777	E	10	G		1.2	8	TURKEY
	16	00	07	41.2	37.625	N	118.455	W	5	G		1.0	8	CALIFORNIA-NEVADA BORDER REGION. ML 3.3 (PAS).
	16	01	23	10.1	9.344	S	122.061	E	33	N	4.8	1.4	31	SAVU SEA
	16	04	28	56.4*	9.549	S	78.324	W	33	N		0.8	6	NEAR COAST OF NORTHERN PERU. Felt (III) at Chimbote and (II) at Casma.
	16	04	57	42.4*	21.245	S	68.722	W	154	?		0.4	7	CHILE-BOLIVIA BORDER REGION
	16	05	01	43.5	37.642	N	118.398	W	5	G		0.9	9	CALIFORNIA-NEVADA BORDER REGION. ML 3.3 (PAS).
	16	06	01	07.8?	16.01	S	175.04	W	190	?	4.5	1.4	27	TONGA ISLANDS
	16	06	36	57.8&	37.610	N	118.445	W	5	G			19	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.3 (BRK), 3.2 (PAS).
	16	06	38	12.8*	5.267	S	102.209	E	33	N	4.9	1.0	28	SOUTHERN SUMATERA
	16	08	14	39.6	44.518	N	10.769	E	10	G		0.5	12	NORTHERN ITALY. ML 3.0 (LDG), 2.7 (KBA).
a	16	08	57	10.7	12.353	S	166.595	E	135	*	5.5	1.0	117	SANTA CRUZ ISLANDS
	16	09	31	54.9	39.051	N	27.892	E	10			0.4	7	TURKEY
	16	11	33	40.4*	10.034	S	114.114	E	33	N	3.9	1.5	9	SOUTH OF BALI ISLAND
	16	11	44	46.0?	39.04	N	29.25	E	10	G		0.7	7	TURKEY
	16	12	53	19.7&	59.892	N	140.652	W	4				16	SOUTHEASTERN ALASKA. <AGS-P>.
	16	13	14	25.9&	37.595	N	118.413	W	5	G			19	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.5 (BRK). Felt (III) at Benton, California. Also felt at Chalfant, California.
	16	13	18	37.6*	50.387	N	6.085	E	10	G		0.2	5	GERMANY

	16	13	29	04.8•	31.172	N	86.673	E	33	N	4.4		1.5	16	TIBET
	16	13	59	44.0?	32.46	N	26.31	E	10	G			0.4	6	EASTERN MEDITERRANEAN SEA
	16	14	18	09.9	63.407	N	23.965	W	10	G	4.6		1.2	32	ICELAND REGION
	16	14	43	27.1?	17.63	N	103.93	W	33	N	4.2		1.4	10	NEAR COAST OF MICHOACAN, MEXICO
	16	16	01	37.2•	30.993	N	86.607	E	33	N	4.5		1.3	11	TIBET
	16	16	30	02.1%	15.239	N	61.371	W	10	G			0.5	9	LEEWARD ISLANDS. ML 3.3 (FDF).
f	16	18	20	17.7	19.376	N	146.301	E	48		6.5	6.7	1.1	521	MARIANA ISLANDS REGION. Ms 6.8 (BRK).
	16	18	56	32.9	19.242	N	146.347	E	74	•	5.1		1.0	72	MARIANA ISLANDS REGION
	16	19	43	20.3?	15.30	N	121.03	E	100	•	4.4		1.5	6	LUZON, PHILIPPINE ISLANDS
	16	20	11	25.7	37.750	N	101.636	E	18		5.3		1.1	133	QINGHAI PROVINCE, CHINA. Damage at Haomen. Felt in the Xining area.
o	16	20	57	21.9	56.222	N	153.600	W	33	N	5.3	5.5	0.9	178	KODIAK ISLAND REGION. ML 5.1 (PMR), Ms 5.1 (BRK). Felt (III) at Kodiak.
	16	21	00	18.8•	44.065	N	114.726	W	5	G			1.3	9	WESTERN IDAHO. ML 3.5 (NEIS).
	16	21	52	35.3	37.760	N	101.726	E	19		5.3		1.0	106	QINGHAI PROVINCE, CHINA
	16	23	49	48.8•	37.898	N	101.625	E	10	G	4.4		1.6	10	QINGHAI PROVINCE, CHINA
	17	03	04	43.1	38.966	N	28.127	E	10	G			0.9	10	TURKEY
	17	03	37	07.8•	65.900	N	152.962	W	33	N			1.4	7	ALASKA. ML 3.9 (PMR).
	17	03	44	57.0•	19.574	N	146.510	E	33	N	4.9		0.9	19	MARIANA ISLANDS REGION
	17	04	39	01.5•	26.653	N	128.825	E	33	N	4.4		1.3	15	RYUKYU ISLANDS
	17	04	42	30.3	26.547	N	128.680	E	41	•	5.0	4.9	1.0	34	RYUKYU ISLANDS
	17	05	58	24.1	37.635	N	118.356	W	5	G			0.7	19	CALIFORNIA–NEVADA BORDER REGION. ML 3.5 (BRK), 3.2 (PAS).
	17	06	16	12.3?	31.45	S	70.03	W	33	N			0.8	9	CHILE–ARGENTINA BORDER REGION
o	17	06	42	20.2	3.934	S	128.829	E	25		5.4	5.1	1.3	119	CERAM
	17	06	44	53.5	3.835	S	128.811	E	33	N	5.5		1.2	68	CERAM
	17	07	04	45.6	7.076	S	154.737	E	36	•	4.9		1.3	28	SOLOMON ISLANDS
	17	07	30	57.6&	62.216	N	150.649	W	72					27	CENTRAL ALASKA. <AGS–P>.
	17	08	06	01.0•	7.116	S	154.842	E	46	•	4.2		1.1	12	SOLOMON ISLANDS
	17	09	15	33.7•	31.846	S	69.393	W	33	N			0.6	9	SAN JUAN PROVINCE, ARGENTINA
	17	09	33	49.4&	32.928	N	80.152	W	8					5	SOUTH CAROLINA. <GLD>. MD 2.6 (GLD). Felt (IV) at Summerville. Also felt at Middleton Gardens.
a	17	11	01	18.5	26.539	N	128.631	E	34	D	5.4	5.5	1.1	132	RYUKYU ISLANDS. Felt (1 JMA) at Nago.
	17	12	04	30.6•	39.416	N	25.749	E	19	•			1.3	10	AEGEAN SEA
a	17	12	08	09.4	37.290	N	71.730	E	120	D	5.5		1.0	274	AFGHANISTAN–USSR BORDER REGION. Felt (V) at Khorog, (IV) in the Parkhar–Gorm–Rushon area and (III) at Dushanbe, Fergana, Samarkand and Tashkent, USSR.
	17	12	43	29.5%	40.702	N	27.526	E	10	G			0.5	7	TURKEY
	17	12	57	10.2	33.438	S	72.302	W	33	N	4.0		0.6	13	OFF COAST OF CENTRAL CHILE. Felt (II) at Santiago.
	17	13	00	51.1•	45.491	N	26.589	E	170	•	3.2		1.1	18	ROMANIA
	17	14	04	50.6&	60.184	N	152.777	W	109					20	SOUTHERN ALASKA. <AGS–P>.
	17	15	16	41.7?	14.96	S	167.20	E	133	?	4.3		1.4	18	VANUATU ISLANDS
	17	16	28	08.6%	46.490	N	9.570	E	10	G			0.4	5	SWITZERLAND
	17	17	46	11.6•	19.404	N	146.471	E	33	N	4.8		1.1	14	MARIANA ISLANDS REGION
	17	18	41	10.3&	62.527	N	149.519	W	91					15	CENTRAL ALASKA. <AGS–P>.
	17	18	45	37.2•	17.304	S	167.895	E	33	N	4.2		0.8	7	VANUATU ISLANDS
	17	19	57	15.7	20.160	N	97.975	E	48	•	4.4		1.4	41	BURMA
	17	20	51	50.1•	33.906	N	135.386	E	68	•	4.2		0.0	7	NEAR S. COAST OF SOUTHERN HONSHU. Felt (1 JMA) at Wakayama.
a	17	21	25	15.0	10.497	N	56.983	E	10	G	5.8	6.0	1.3	269	CARLSBERG RIDGE
	17	22	12	28.3	39.043	N	28.627	E	10	G			1.3	9	TURKEY
	17	22	33	59.8•	7.264	N	127.087	E	33	N	4.8		1.0	12	PHILIPPINE ISLANDS REGION
	17	23	10	54.9	6.670	N	144.695	E	33	N	4.8		1.4	36	CAROLINE ISLANDS REGION
	18	00	12	03.7	26.611	N	54.617	E	33	N	4.6		1.0	83	SOUTHERN IRAN
	18	01	02	10.7	36.011	N	9.936	W	70	•			0.7	23	WEST OF GIBRALTAR
	18	01	02	54.5	39.059	N	27.696	E	10	G			1.2	9	TURKEY
	18	01	54	18.8?	51.05	N	176.96	W	33	N	4.5		1.6	9	ANDREANOF ISLANDS, ALEUTIAN IS.
	18	02	37	40.0&	40.342	N	124.192	W	5	G				6	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.0 (BRK).
	18	02	46	03.5?	30.97	S	72.57	W	33	N			0.6	9	OFF COAST OF CENTRAL CHILE
	18	04	53	21.6	38.937	N	107.116	W	5	G			0.8	14	COLORADO. ML 3.2 (NEIS). Felt in the Crested Butte area.
	18	05	07	31.1	30.971	N	130.384	E	144		4.9		0.9	86	KYUSHU, JAPAN. Felt (1 JMA) at Naze, Ryukyu Islands.
	18	05	59	39.2	20.221	S	168.970	E	46	•	5.1	4.8	1.4	92	LOYALTY ISLANDS
	18	06	22	46.6•	49.990	N	151.785	E	402	?	4.2		1.2	17	NORTHWEST OF KURIL ISLANDS
	18	06	40	00.7•	27.630	S	178.277	W	33	N	4.8		1.1	21	KERMADEC ISLANDS REGION
	18	07	19	08.7	16.319	N	98.929	W	26	D	4.9		1.1	51	NEAR COAST OF GUERRERO, MEXICO. Felt slightly at Puebla.
	18	07	59	47.5	37.632	N	118.392	W	5	G			0.7	30	CALIFORNIA–NEVADA BORDER REGION. ML 4.1 (BRK), 4.2 (PAS).
	18	08	06	01.8•	16.401	N	98.880	W	42	•	4.6		1.2	29	NEAR COAST OF GUERRERO, MEXICO. Felt slightly at Puebla.
	18	09	26	38.1	38.925	N	107.086	W	5	G			0.4	15	COLORADO. ML 3.4 (NEIS). Felt (III) at Aspen and Snowmass Village. Also felt in the Crested Butte area.
	18	09	39	24.5?	13.18	N	91.85	W	33	N	4.1		1.5	12	NEAR COAST OF GUATEMALA
	18	10	07	56.3	40.149	N	29.325	E	10	G			1.0	13	TURKEY
	18	11	59	34.7	9.466	S	116.610	E	73	•	4.6		0.6	12	SUMBAWA ISLAND REGION
	18	12	19	18.8•	52.528	S	25.899	E	10	G	5.1		1.1	17	SOUTH OF AFRICA
	18	15	48	44.3&	61.999	N	151.986	W	120					14	SOUTHERN ALASKA. <AGS–P>.
	18	16	56	42.3%	46.588	N	9.462	E	10	G			1.3	6	SWITZERLAND
	18	17	41	31.6&	60.516	N	153.025	W	139					12	SOUTHERN ALASKA. <AGS–P>.
	18	20	56	05.8	61.798	N	149.721	W	57		4.6		0.9	120	SOUTHERN ALASKA. Felt (IV) at Chugiak, Eagle River, Wasilla and Willow. Felt (III) at Anchorage, Moose Pass and Sutton. Also felt at Girdwood, King Mountain Lodge, Palmer, Whittier and at mile 90 on the Glenn Highway.
	19	00	21	34.3	45.589	N	26.566	E	150		4.0		1.0	55	ROMANIA. Felt (IV) in Moldavia, USSR.
	19	01	14	50.1	39.235	N	23.826	E	10	G			1.1	9	AEGEAN SEA. ML 3.0 (ATH).
	19	03	10	25.4?	33.70	S	72.23	W	33	N			0.8	8	OFF COAST OF CENTRAL CHILE
	19	03	13	28.2•	43.808	N	147.192	E	33	N	4.7		0.7	13	KURIL ISLANDS
	19	04	33	31.0&	60.219	N	153.199	W	131					25	SOUTHERN ALASKA. <AGS–P>.
	19	04	48	52.1•	5.504	S	152.530	E	33	N	4.4		1.4	7	NEW BRITAIN REGION
	19	06	04	59.2%	40.583	N	30.119	E	10	G			1.4	6	TURKEY
	19	06	26	34.6&	36.293	N	120.373	W	9					10	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK).
	19	06	40	33.8?	59.32	N	6.84	E	10	G			1.1	6	SOUTHERN NORWAY. MD 2.3 (BER).

	19	07	01	35.4?	23.45	S	179.90	E	575	?	4.8		1.2	16	SOUTH OF FIJI ISLANDS
	19	09	24	36.0?	51.87	N	21.04	E	10	G			1.5	5	POLAND. MG 2.9 (KRA).
	19	10	41	28.2&	41.466	N	111.704	W	5					17	UTAH. <SLC-P>. ML 3.4 (SLC). Felt (IV) at Hyrum and Paradise. Felt (III) at Millville, Wellsville and Willard.
	19	10	52	00.9?	9.72	N	86.69	W	33	N	4.7	3.7	1.5	17	OFF COAST OF COSTA RICA
	19	12	27	52.1	39.338	N	28.879	E	10	G			0.9	6	TURKEY
	19	13	04	01.4%	60.364	N	5.326	E	10	G			0.5	6	SOUTHERN NORWAY. MD 1.7 (BER).
	19	13	44	35.3	55.756	N	161.892	E	33	N	4.9		0.7	38	NEAR EAST COAST OF KAMCHATKA
	19	13	51	35.1	22.777	S	179.686	W	585	•	5.1		1.1	50	SOUTH OF FIJI ISLANDS
	19	14	44	42.5&	19.333	N	155.349	W	31					45	HAWAII. <HVO-P>. ML 4.0 (HVO). Felt at Homestead, Honomu, Kiolaka'a, Naalehu, Ocean View Estates, Pahala and Papaikou.
	19	15	06	25.4	43.283	N	0.651	W	10	G			1.0	10	PYRENEES. ML 2.6 (LDG).
	19	15	11	59.4	44.864	N	8.892	E	10	G			1.0	20	NORTHERN ITALY. ML 2.9 (LDG).
	19	15	53	01.0&	47.300	N	70.320	W	22					12	SOUTHERN QUEBEC. <OTT-P>. mbLg 4.2 (OTT). Felt at La Pocatiere.
	19	16	31	09.5	53.304	N	2.034	E	10	G			0.9	42	NORTH SEA. ML 3.8 (LDG), 3.8 (BGS). mbLg 3.4 (DOU).
a	19	19	01	15.4	2.957	S	139.552	E	38	•	5.1	4.7	1.4	86	NEAR N. COAST OF WEST IRIAN
	19	22	30	43.4	2.998	S	139.330	E	53	•	5.3		1.4	34	NEAR N. COAST OF WEST IRIAN
	19	22	43	46.6?	41.81	N	19.38	E	10	G			0.6	9	ALBANIA. ML 3.0 (TTG).
	19	22	49	44.9?	41.84	N	19.45	E	10	G			0.6	8	ALBANIA. ML 2.6 (TTG).
a	20	01	31	13.9	0.843	N	29.233	W	10	G	5.4	4.7	1.0	169	CENTRAL MID-ATLANTIC RIDGE
	20	02	17	32.0	53.578	N	167.249	W	33	N	4.6		0.8	34	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.2 (PMR).
	20	02	26	02.6	54.218	N	162.871	W	33	N	4.8		0.9	50	ALASKA PENINSULA
	20	02	59	42.2?	3.02	S	139.67	E	33	N	4.7		1.6	15	WEST IRIAN
	20	03	04	58.7	36.454	N	140.520	E	75		5.1		1.2	126	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Mito, Nikko and Utsunomiya; (II JMA) at Takyo, Kumagaya and Onahama; (I JMA) at Chiba, Kofu and Sendai.
	20	04	27	59.0&	60.790	N	151.790	W	78					28	KENAI PENINSULA, ALASKA. <AGS-P>.
	20	05	54	23.6	8.490	N	73.498	W	49	•	4.4	3.1	1.3	14	NORTHERN COLOMBIA
	20	07	01	34.8•	5.045	S	76.905	W	132	•	4.5		1.1	13	NORTHERN PERU
	20	09	33	09.0?	39.15	N	21.94	E	10	G			0.5	4	GREECE. ML 3.3 (ATH).
a	20	10	05	00.7	13.034	N	93.354	E	76		4.9		0.9	99	ANDAMAN ISLANDS REGION
	20	10	52	09.4•	23.947	S	66.779	W	202	•	4.3		1.2	10	JUJUY PROVINCE, ARGENTINA
	20	12	24	02.7	30.577	N	137.830	E	491		4.6		0.8	62	SOUTH OF HONSHU, JAPAN
	20	13	51	04.1•	45.438	N	26.376	E	128	?			1.4	7	ROMANIA
	20	15	00	35.1•	45.556	N	26.318	E	170	•	3.7		0.7	9	ROMANIA
	20	15	08	39.7&	60.312	N	152.094	W	69					23	SOUTHERN ALASKA. <AGS-P>.
	20	18	40	12.3&	62.098	N	150.217	W	59					23	CENTRAL ALASKA. <AGS-P>.
	20	19	00	11.7•	24.346	N	122.750	E	121	•			1.3	15	TAIWAN REGION
	20	21	33	08.7&	60.378	N	152.908	W	125					21	SOUTHERN ALASKA. <AGS-P>.
	20	22	15	01.5•	59.799	N	16.301	E	10	G			1.2	10	SWEDEN. ML 3.6 (UPP). Felt at Avesta, Fagersta, Nordberg, Arboga and Vaesteraas.
	21	02	59	15.8&	40.438	N	125.903	W	21					4	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.5 (BRK).
	21	03	15	52.1?	35.64	N	29.51	E	10	G			1.4	5	EASTERN MEDITERRANEAN SEA
	21	08	47	38.7	39.331	N	27.194	E	10	G			1.4	16	TURKEY
	21	08	49	30.4	23.755	N	123.022	E	33	N	4.3		1.3	25	SOUTHWESTERN RYUKYU ISLANDS
	21	09	20	46.6•	39.597	N	105.285	W	5	G			0.9	6	COLORADO. ML 2.5 (NEIS). Felt at Conifer and Tiny Town.
a	21	12	18	06.6	17.023	N	147.273	E	48	•	5.1	4.5	0.9	87	MARIANA ISLANDS REGION
	21	13	22	58.4•	16.957	N	147.365	E	56	•	4.9		1.0	20	MARIANA ISLANDS REGION
	21	13	36	54.6•	26.280	S	68.881	W	93	?	4.6		1.4	12	CHILE-ARGENTINA BORDER REGION
	21	15	19	19.5	16.479	N	98.144	W	33		4.6		1.1	35	NEAR COAST OF GUERRERO, MEXICO. Felt (III) at Oaxaca and Puebla.
	21	15	57	12.1&	37.600	N	118.290	W	6	G				8	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.0 (PAS).
	21	16	26	23.0•	66.314	N	149.521	W	10	G			0.8	6	ALASKA
	21	18	21	47.0•	31.621	S	69.908	W	116	•	4.5		0.7	11	SAN JUAN PROVINCE, ARGENTINA
	21	18	38	44.2•	18.829	S	173.104	W	33	N	4.8		0.8	16	TONGA ISLANDS
	21	20	59	02.5?	43.86	N	7.32	E	10	G			0.6	4	NEAR SOUTH COAST OF FRANCE. ML 2.2 (LDG).
	21	21	36	41.3%	42.150	N	25.165	E	10	G			0.3	7	BULGARIA
	21	22	10	44.5&	62.604	N	149.146	W	55					24	CENTRAL ALASKA. <AGS-P>.
	21	23	38	17.5	52.858	N	160.089	E	50		5.1	4.1	0.9	128	OFF EAST COAST OF KAMCHATKA
	22	00	52	50.6?	33.57	S	72.20	W	33	N			0.4	8	OFF COAST OF CENTRAL CHILE
	22	01	25	00.2%	43.305	N	8.177	E	10	G			0.3	5	CORSICA. ML 2.7 (LDG).
	22	01	54	06.5•	46.444	N	9.856	E	10	G			1.1	6	SWITZERLAND
	22	02	17	58.0	25.017	N	123.622	E	33	N	4.7		1.1	39	NORTHEAST OF TAIWAN
	22	03	40	35.9•	6.596	S	145.652	E	33	N	3.2		0.7	5	PAPUA NEW GUINEA
	22	05	38	51.9	44.040	N	114.756	W	5	G			0.7	10	WESTERN IDAHO. ML 3.4 (NEIS).
	22	06	00	15.1•	24.409	N	123.220	E	33	N	4.4		0.7	5	SOUTHWESTERN RYUKYU ISLANDS
	22	06	17	57.6?	6.24	S	151.54	E	33	N	3.7		0.7	5	NEW BRITAIN REGION
	22	06	20	16.9	38.930	N	107.097	W	5	G			0.5	13	COLORADO. ML 2.5 (NEIS).
	22	07	53	22.8?	11.73	S	76.86	W	115	?			1.3	12	PERU. Felt (III) at Lima.
	22	08	07	08.7•	56.028	N	153.562	W	33	N	4.3		1.2	8	KODIAK ISLAND REGION. ML 3.9 (PMR).
	22	08	20	09.5•	16.707	S	167.136	E	33	N	4.4		1.0	17	VANUATU ISLANDS
	22	08	48	47.5	14.911	S	167.154	E	163	•	4.7		1.3	49	VANUATU ISLANDS
	22	09	21	52.5•	7.166	S	155.478	E	33	N	4.2		1.5	7	SOLOMON ISLANDS. Felt (II) at Arawa, Bougainville.
	22	10	33	39.9•	18.840	S	69.967	W	33	N	4.7		1.2	6	NORTHERN CHILE
	22	10	42	34.8?	55.49	S	25.95	W	33	N	4.8		1.1	6	SOUTH SANDWICH ISLANDS REGION
	22	12	30	36.5•	52.671	N	160.827	E	33	N	4.7	4.0	1.2	16	OFF EAST COAST OF KAMCHATKA
	22	14	21	43.5	34.267	S	145.575	E	10	G	3.0		0.7	9	NEW SOUTH WALES, AUSTRALIA. ML 3.7 (TOO), 3.6 (CMS).
	22	15	22	07.4•	35.845	N	24.173	E	83	?			0.7	6	CRETE
a	22	16	15	05.8	6.716	S	130.427	E	123	D	5.6		1.0	202	BANDA SEA
	22	16	22	30.1%	44.454	N	7.254	E	10	G			0.2	5	NORTHERN ITALY. ML 2.6 (LDG).
	22	16	44	29.0	34.693	N	29.936	E	36		4.4	3.7	1.2	56	EASTERN MEDITERRANEAN SEA. ML 4.3 (JER), 4.2 (BHL).
	22	17	38	16.1•	10.105	S	154.098	E	33	N	4.6		0.9	12	DENTRECASTEAUX ISLANDS REGION
	22	18	19	19.9	32.218	S	71.478	W	53		5.1		0.9	40	NEAR COAST OF CENTRAL CHILE. Felt (IV) at La Ligua, Los Andes, Quillota and Vina del Mar and (II) at Santiago.
	22	19	15	14.1	34.389	S	70.639	W	26		4.6		1.3	18	CHILE-ARGENTINA BORDER REGION
	22	19	23	57.7	25.605	S	70.129	E	10	G	5.2		0.9	40	MID-INDIAN RISE
	22	20	15	17.2•	21.957	N	111.524	E	33	N			0.9	5	EASTERN CHINA. MG 3.6 (GZH).
	22	20	59	14.1?	39.13	N	27.59	E	10	G			0.6	4	TURKEY
	22	21	13	20.7	34.674	N	29.978	E	12		4.0		1.3	25	EASTERN MEDITERRANEAN SEA
	22	23	17	05.4•	23.042	N	143.863	E	33	N	4.8		0.7	10	VOLCANO ISLANDS REGION

	23	00	24	29.5*	56.287	N	153.537	W	33	N	4.5		1.5	32	KODIAK ISLAND REGION. ML 4.2 (PMR).
	23	00	42	40.3*	30:329	S	73.067	W	48	*	4.6		1.1	18	OFF COAST OF CENTRAL CHILE
	23	01	45	10.3%	45.512	N	26.348	E	152	?			0.6	9	ROMANIA
	23	04	35	48.1	31.479	S	69.046	W	115		4.5		1.1	25	SAN JUAN PROVINCE, ARGENTINA
	23	05	48	28.4*	16.029	N	96.324	W	33	N			1.1	5	OAXACA, MEXICO
	23	05	56	19.7	7.469	S	128.509	E	137		5.5		1.1	122	BANDA SEA
	23	06	15	51.2&	36.632	N	121.292	W	3					17	CENTRAL CALIFORNIA. <BRK>. ML 2.9 (BRK).
	23	06	19	46.2&	36.635	N	121.292	W	3					14	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).
	23	06	49	56.7*	16.431	N	93.809	W	33	N			1.3	6	CHIAPAS, MEXICO
	23	08	27	12.0?	16.78	N	60.13	W	10	G			0.1	5	LEEWARD ISLANDS. ML 2.4 (FDF).
	23	08	35	49.4?	39.11	N	27.68	E	10	G			0.1	4	TURKEY
	23	08	37	17.4*	7.104	N	76.421	W	33	N			0.5	6	NORTHERN COLOMBIA
	23	08	41	24.5	39.101	N	27.842	E	14				0.9	21	TURKEY. ML 3.9 (ATH).
	23	09	31	52.3*	17.013	S	72.829	W	33	N	4.2		1.3	12	NEAR COAST OF PERU
	23	10	14	37.7*	45.978	N	14.260	E	10	G			0.6	5	YUGOSLAVIA. MD 2.0 (TRI), ML 1.8 (KBA).
	23	10	51	05.6	10.066	S	154.145	E	33	N	4.8		0.8	19	DENTRECASTEAUX ISLANDS REGION
a	23	11	41	51.3	56.558	N	164.032	E	31	D	5.3	4.6	0.9	223	KOMANDORSKY ISLANDS REGION
	23	11	53	30.9*	10.047	S	154.178	E	33	N	4.5		1.1	12	DENTRECASTEAUX ISLANDS REGION
	23	12	26	57.6?	39.11	N	27.73	E	10	G			0.1	4	TURKEY
	23	12	39	50.8?	39.00	N	28.02	E	10	G			0.3	4	TURKEY
	23	13	03	11.6?	42.31	N	20.00	E	10	G			1.7	4	YUGOSLAVIA. ML 2.3 (TTG).
a	23	13	30	15.3	16.621	S	167.265	E	19	D	5.5	5.7	1.2	146	VANUATU ISLANDS
	23	14	41	15.1&	37.365	N	121.742	W	6					16	CENTRAL CALIFORNIA. <BRK>. ML 3.2 (BRK). Mo=3.4*10**20 (BRK). Felt (II) at Cupertino and Mount Hamilton.
	23	15	18	19.4*	21.309	S	68.950	W	187	?	4.6		1.1	9	CHILE-BOLIVIA BORDER REGION
	23	16	42	39.4*	53.068	N	159.645	E	33	N	4.9		0.8	60	NEAR EAST COAST OF KAMCHATKA
	23	17	09	37.4	39.075	N	27.717	E	10	G			1.0	8	TURKEY
	23	18	11	26.2*	36.010	N	141.406	E	56	*	4.4		1.3	13	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Mito.
	23	18	50	59.7?	18.86	S	173.13	W	33	N	4.7		0.8	9	TONGA ISLANDS
	23	19	06	29.3*	20.699	S	68.978	W	33	N			1.0	6	CHILE-BOLIVIA BORDER REGION
	23	19	27	56.7&	36.068	N	121.800	W	17					22	CENTRAL CALIFORNIA. <BRK>. ML 3.7 (BRK). Mo=1.9*10*21 (BRK). Felt (II) at Big Sur. Also felt at King City.
	23	20	13	34.6	20.007	N	121.063	E	48	*	4.5	4.5	1.3	35	PHILIPPINE ISLANDS REGION
	23	20	44	50.1*	37.881	N	20.102	E	10	G	4.0		1.1	17	IONIAN SEA. ML 3.6 (ATH).
	23	21	26	34.4	41.494	N	23.295	E	10	G			0.5	9	GREECE-BULGARIA BORDER REGION. ML 2.5 (THE).
	23	21	43	05.0*	44.580	N	129.685	W	10	G	4.1		0.9	18	OFF COAST OF OREGON
	24	00	38	38.9?	36.63	N	70.31	E	99	?	4.6		0.8	7	HINDU KUSH REGION
	24	01	14	15.1	39.056	N	27.821	E	10	G			0.6	6	TURKEY
	24	01	46	40.7	39.100	N	27.744	E	10	G			1.1	8	TURKEY
	24	01	49	16.4	39.051	N	27.818	E	10	G			0.9	6	TURKEY
	24	03	02	01.1*	39.652	N	23.489	E	10	G			0.6	9	AEGEAN SEA. ML 3.3 (THE).
	24	03	22	42.6*	32.665	S	71.560	W	10	G			0.3	9	NEAR COAST OF CENTRAL CHILE
	24	04	33	40.7?	31.21	S	179.24	W	223	?	4.6		1.0	12	KERMADEC ISLANDS REGION
	24	06	04	53.7	54.082	N	55.166	W	10	G	4.2	3.3	1.4	32	EAST OF LABRADOR. mbLg 4.7 (OTT).
	24	07	35	59.0*	30.421	S	71.193	W	111	*	4.3		1.2	12	NEAR COAST OF CENTRAL CHILE
	24	08	05	42.1?	32.06	S	71.47	W	33	N			0.4	7	NEAR COAST OF CENTRAL CHILE
	24	08	41	33.3	41.856	N	20.064	E	10	G			1.4	8	ALBANIA. ML 2.6 (TTG).
	24	10	17	12.8?	16.51	N	60.96	W	33	N			0.5	5	LEEWARD ISLANDS. ML 2.2 (FDF).
	24	10	46	30.1&	34.540	N	119.040	W	18					21	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
	24	11	39	56.9&	57.595	N	149.229	W	11					23	GULF OF ALASKA. <AGS-P>.
	24	11	54	30.9*	61.241	S	25.787	W	33	N	5.3		0.9	19	SOUTH SANDWICH ISLANDS REGION
	24	12	04	23.2*	28.359	N	140.684	E	33	N	4.9		1.2	35	BONIN ISLANDS REGION
	24	13	31	19.3*	8.292	S	107.225	E	33	N	3.9		1.0	13	JAVA
	24	14	16	11.3*	16.267	S	173.281	W	33	N	4.8		1.2	30	TONGA ISLANDS
a	24	14	19	37.5	13.630	S	173.055	E	620	D	5.4		0.8	171	FIJI ISLANDS REGION
	24	14	20	33.6	37.374	N	117.199	W	5	G			0.5	16	CALIFORNIA-NEVADA BORDER REGION. ML 4.3 (BRK).
	24	14	35	55.9	37.351	N	117.206	W	5	G			0.7	16	CALIFORNIA-NEVADA BORDER REGION. ML 4.3 (BRK).
	24	14	39	04.6	44.378	N	10.868	E	10	G	4.6		1.3	15	NORTHERN ITALY. ML 3.2 (KBA), 2.9 (LDG), MD 3.9 (FIR).
	24	15	26	47.2	55.956	S	26.824	W	33	N	5.3		0.9	21	SOUTH SANDWICH ISLANDS REGION
	24	15	32	26.7	44.003	N	114.755	W	5	G			0.5	9	WESTERN IDAHO. ML 3.7 (NEIS). Felt at Clayton.
	24	16	13	33.6	11.682	S	117.054	E	33	N	4.7		1.3	29	SOUTH OF SUMBAWA ISLAND
	24	16	18	18.2	58.410	S	23.137	W	33	N	5.1		1.1	31	SOUTH SANDWICH ISLANDS REGION
	24	16	29	30.1	6.185	S	146.861	E	130	*			0.8	9	EAST PAPUA NEW GUINEA REGION
	24	17	09	22.2*	22.750	N	108.052	W	33	N	4.7		1.1	40	OFF COAST OF CENTRAL MEXICO
	24	17	49	23.6*	9.847	S	118.809	E	33	N	4.4		1.1	11	SUMBAWA ISLAND REGION
	24	17	53	52.4*	0.661	N	120.813	E	72	*			0.5	11	MINAHASSA PENINSULA
	24	19	32	08.0%	47.825	N	5.621	E	10	G			1.3	5	FRANCE. ML 2.2 (LDG).
	24	19	35	57.3?	24.76	S	179.90	E	504	?	4.3		1.4	9	SOUTH OF FIJI ISLANDS
	24	20	19	48.1	40.752	N	27.487	E	10	G			1.4	11	TURKEY
	24	20	56	55.7?	51.48	N	16.07	E	10	G			0.9	11	POLAND. ML 3.7 (GRF), 3.6 (KBA), 3.6 (VKA).
	24	21	29	29.5*	41.747	N	23.690	E	10	G			1.5	5	GREECE-BULGARIA BORDER REGION
	24	21	35	21.8%	42.209	N	25.125	E	10	G			0.8	5	BULGARIA
	25	00	08	05.5&	59.883	N	153.234	W	118					17	SOUTHERN ALASKA. <AGS-P>.
	25	00	14	07.4*	21.992	S	174.084	W	33	N	5.1		1.4	19	TONGA ISLANDS
	25	00	55	40.3	14.875	S	171.523	E	633		5.2		1.0	108	VANUATU ISLANDS REGION
	25	05	05	15.0*	42.402	N	19.871	E	10	G			0.5	5	YUGOSLAVIA. ML 2.2 (TTG).
a	25	06	15	54.8	23.032	N	108.061	W	10	G	5.3	5.7	1.4	100	GULF OF CALIFORNIA. Ms 5.4 (BRK).
	25	06	31	47.4	36.792	N	8.827	W	33	N	4.0		1.1	30	WEST OF GIBRALTAR. Felt at Algarve, Portugal.
	25	08	26	08.5*	35.568	N	141.088	E	60	*	4.3		1.0	14	NEAR EAST COAST OF HONSHU, JAPAN
	25	08	45	42.7*	51.105	N	15.683	E	10	G			0.5	7	POLAND. ML 3.2 (KBA).
	25	09	00	13.7?	44.89	N	9.18	E	10	G			0.3	7	NORTHERN ITALY. ML 2.9 (KBA).
	25	11	04	59.2	2.973	S	139.627	E	33	N	4.8		1.3	44	NEAR N. COAST OF WEST IRIAN
	25	11	09	50.8*	11.180	S	164.434	E	33	N	5.1		1.1	18	SANTA CRUZ ISLANDS REGION
	25	11	11	28.7?	15.93	N	61.49	W	107	?			0.4	9	LEEWARD ISLANDS
	25	11	11	38.2	51.595	N	7.663	E	10	G			1.4	25	GERMANY. ML 3.3 (LDG), 3.1 (BNS). mbLg 2.7 (DOU).
	25	11	37	31.3?	11.25	S	164.50	E	33	N	4.3		1.2	8	SANTA CRUZ ISLANDS REGION
	25	12	45	31.3&	38.614	N	112.553	W	1					10	UTAH. <SLC-P>. ML 2.8 (NEIS).
	25	13	57	12.9?	21.36	S	172.40	E	33	N	4.7		0.8	8	LOYALTY ISLANDS REGION
	25	14	17	54.4?	41.07	N	20.99	E	11				0.2	7	ALBANIA
	25	14	18	29.2?	16.14	N	98.62	W	33	N			1.4	7	NEAR COAST OF GUERRERO, MEXICO
	25	14	29	42.1	20.498	S	177.870	W	543		4.9		1.0	35	FIJI ISLANDS REGION
	25	15	20	36.2?	39.23	N	27.80	E	10	G			0.9	4	TURKEY
	25	15	25	43.2?	33.19	N	140.57	E	180	*	4.1		0.5	6	SOUTH OF HONSHU, JAPAN

	25	15	25	49.0*	13.456	S	71.257	W	78	*	4.2		0.5	7	PERU. Felt (IV) at Cuzco.
	25	15	52	53.1&	35.713	N	121.227	W	7					12	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
	25	16	23	21.7	44.499	N	10.750	E	10	G			0.8	10	NORTHERN ITALY. ML 3.0 (KBA), 3.0 (LDG).
	25	18	25	23.0	46.651	N	1.425	E	14				1.1	18	FRANCE. ML 3.0 (LDG).
	25	18	25	45.7%	46.700	N	1.329	E	10	G			0.5	7	FRANCE. ML 2.8 (LDG).
	25	18	49	16.3?	36.97	N	22.25	E	10	G			0.6	6	SOUTHERN GREECE. ML 3.2 (ATH).
	25	19	20	09.9%	46.782	N	1.676	E	10	G			0.8	8	FRANCE. ML 2.4 (LDG).
a	25	20	06	12.5	3.677	N	126.777	E	45		5.6	5.6	1.2	169	TALAUD ISLANDS
	25	20	07	20.0	63.464	N	151.189	W	33	N	4.4		1.0	14	CENTRAL ALASKA. ML 3.8 (PMR).
	25	20	52	07.3	39.080	N	25.970	E	10	G			0.7	22	AEGEAN SEA. ML 3.5 (ATH).
	25	22	05	31.9*	39.065	N	27.895	E	10	G			0.2	5	TURKEY
	26	00	46	21.5?	20.10	S	178.43	W	563	?	4.2		0.7	12	FIJI ISLANDS REGION
	26	00	56	38.4?	19.01	S	178.03	W	500	*	4.1		0.4	15	FIJI ISLANDS REGION
	26	01	07	19.2	3.569	N	126.566	E	69	*	5.0		1.3	81	TALAUD ISLANDS
	26	01	49	34.3	42.408	N	13.297	E	10	G			1.1	29	CENTRAL ITALY. MD 3.8 (FIR), 3.8 (TRI). ML 3.3 (KBA).
	26	01	49	45.5?	1.45	N	127.11	E	144	?	4.7		1.1	11	HALMAHERA
	26	03	22	41.5	40.358	N	22.401	E	10	G			0.8	6	GREECE. ML 2.5 (THE).
	26	04	00	10.5*	47.346	N	9.125	E	10	G			0.3	6	GERMANY
	26	04	09	00.6?	48.02	N	9.23	E	10	G			0.8	7	GERMANY. ML 2.7 (LDG).
	26	04	09	10.6	54.066	N	165.204	W	33	N	5.0	4.1	0.9	122	FOX ISLANDS, ALEUTIAN ISLANDS
	26	05	27	12.3*	44.455	N	10.654	E	10	G			1.3	7	NORTHERN ITALY. ML 2.9 (KBA). MD 2.7 (TRI), 2.4 (FIR).
	26	07	31	46.7	9.917	N	122.198	E	35	*	4.8		1.1	46	NEGROS, PHILIPPINE ISLANDS
	26	08	41	59.3	41.759	N	23.717	E	10	G			0.8	13	GREECE-BULGARIA BORDER REGION. ML 2.7 (THE).
	26	09	28	33.8?	39.24	N	27.66	E	10	G			0.1	4	TURKEY
	26	09	36	20.9%	39.613	N	29.425	E	10	G			0.6	5	TURKEY
	26	10	36	16.9?	21.84	S	171.65	W	33	N	5.1		0.7	8	TONGA ISLANDS REGION
	26	12	23	20.3?	18.55	N	119.48	E	33	N	4.1		1.0	7	PHILIPPINE ISLANDS REGION
	26	13	13	40.4*	34.683	S	103.419	W	10	G	4.5		0.6	17	WEST CHILE RISE
	26	13	27	05.3*	17.288	S	177.875	W	396	*	5.1		1.0	29	FIJI ISLANDS REGION
	26	14	27	07.2&	59.953	N	153.424	W	130					20	SOUTHERN ALASKA. <AGS-P>.
	26	17	27	08.4?	51.66	N	16.30	E	10	G			0.8	6	POLAND
	26	17	59	52.0*	38.851	N	27.359	E	10	G			0.3	5	TURKEY
	26	18	12	20.0	34.262	N	26.192	E	39		4.5	3.6	1.2	119	CRETE. ML 4.7 (ATH).
	26	19	02	06.8	40.119	N	24.770	E	10				0.7	16	AEGEAN SEA. ML 3.3 (THE).
	26	20	18	06.7	46.427	N	2.528	E	12				0.3	12	FRANCE. ML 2.6 (LDG).
	26	20	29	35.0	52.774	N	162.635	E	38	D	4.9		0.9	111	OFF EAST COAST OF KAMCHATKA
	26	20	30	59.9?	16.89	N	101.33	W	33	N			1.0	7	NEAR COAST OF GUERRERO, MEXICO
	26	20	41	57.9	39.081	N	27.716	E	10	G			0.8	8	TURKEY
	26	21	04	52.2*	49.002	N	128.727	W	10	G	4.3		0.9	17	VANCOUVER ISLAND REGION
	26	21	28	08.5	44.016	N	114.750	W	5	G			1.0	14	WESTERN IDAHO. ML 4.3 (NEIS). Felt (IV) at Clayton and Stanley.
	26	21	45	49.9*	42.401	N	20.034	E	10	G			1.5	6	YUGOSLAVIA. ML 2.5 (TTG).
	26	21	49	30.0&	40.212	N	124.258	W	7					3	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.0 (BRK).
	26	21	52	42.2&	40.172	N	124.368	W	10					3	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.1 (BRK).
	26	21	55	01.5?	37.29	N	22.26	E	33	N			1.2	5	SOUTHERN GREECE. ML 3.2 (ATH).
	26	22	25	03.5*	24.945	N	127.965	E	33	N	4.3		1.5	15	RYUKYU ISLANDS REGION
	26	22	39	55.4	7.818	N	126.703	E	64	*	4.8		1.0	28	MINDANAO, PHILIPPINE ISLANDS
	26	22	48	57.9	44.043	N	114.756	W	5	G	4.6		0.9	19	WESTERN IDAHO. ML 4.5 (NEIS). Felt at Clayton and Ketchum.
	26	22	50	04.0	40.075	N	24.745	E	10	G			0.6	15	AEGEAN SEA
	26	22	56	15.3	39.109	N	27.762	E	10	G			0.3	8	TURKEY
	26	23	32	27.5*	8.643	S	149.047	E	122	*	3.9		1.3	9	EAST PAPUA NEW GUINEA REGION
	26	23	56	14.5%	46.475	N	2.495	E	10	G			0.4	10	FRANCE. ML 2.0 (LDG).
	26	23	57	29.7%	46.423	N	2.510	E	10	G			0.5	11	FRANCE. ML 2.3 (LDG).
	27	00	02	35.6?	15.24	S	173.80	W	33	N	4.6		0.6	7	TONGA ISLANDS
	27	02	31	24.2	7.957	N	77.903	W	33	N	4.7	3.5	0.9	11	PANAMA-COLOMBIA BORDER REGION
	27	02	34	31.9?	13.87	N	92.78	W	33	N	4.6	3.6	1.2	18	OFF COAST OF CHIAPAS, MEXICO
	27	03	41	38.4*	33.940	S	70.631	W	10	G			0.3	6	CHILE-ARGENTINA BORDER REGION
	27	04	50	15.9	4.188	S	37.681	E	10	G	4.7		1.0	32	TANZANIA
	27	06	10	39.6	8.966	S	123.225	E	33	N	4.8		1.1	22	FLORES ISLAND REGION
	27	07	06	30.5&	40.527	N	126.000	W	5	G				6	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.8 (BRK).
	27	07	45	00.2?	5.37	S	145.09	E	154	?	4.5		0.1	5	EAST PAPUA NEW GUINEA REGION
	27	08	15	00.1*	43.543	N	0.589	W	10	G			0.9	11	PYRENEES. ML 3.3 (LDG).
	27	08	58	47.8*	46.549	N	9.812	E	10	G			1.1	6	SWITZERLAND
	27	09	36	34.9	22.404	N	121.092	E	19	*	4.4		1.3	31	TAIWAN REGION
	27	10	37	23.2	9.921	S	120.525	E	33	N	4.8		1.1	23	SUMBA ISLAND REGION
	27	11	26	51.4?	5.70	S	151.14	E	94	?	3.9		1.1	7	NEW BRITAIN REGION
	27	11	32	47.5*	34.491	N	91.753	E	33	N	3.8	4.3	1.5	13	QINGHAI PROVINCE, CHINA
	27	11	51	40.9?	62.63	N	124.01	W	10	G	4.7		1.6	6	NORTHWEST TERRITORIES, CANADA
	27	12	25	03.5?	52.24	N	170.97	W	33	N	4.5		1.1	9	FOX ISLANDS, ALEUTIAN ISLANDS
	27	12	47	35.3*	67.835	N	161.808	W	33	N			0.8	8	ALASKA. ML 3.0 (PMR).
	27	13	02	01.7*	44.017	N	114.780	W	5	G			0.8	9	WESTERN IDAHO. ML 3.3 (NEIS).
	27	13	43	14.0*	54.333	S	1.093	W	10	G	5.3		1.0	17	BOUVET ISLAND REGION
	27	14	05	40.5%	16.234	N	61.713	W	10	G			0.3	5	LEEWARD ISLANDS. ML 2.4 (FDF).
	27	15	16	03.0*	7.004	N	76.389	W	33	N			1.1	5	NORTHERN COLOMBIA
	27	17	11	52.9?	23.45	N	123.66	E	33	N			1.4	7	SOUTHWESTERN RYUKYU ISLANDS
	27	17	23	22.9?	16.53	N	61.72	W	33	N			1.2	5	LEEWARD ISLANDS. ML 2.5 (FDF).
	27	17	28	09.7*	13.772	S	167.206	E	276	*	4.6		1.2	55	VANUATU ISLANDS
	27	17	47	37.6?	23.53	S	115.65	W	10	G	4.8	4.1	1.2	8	EASTER ISLAND CORDILLERA
	27	18	18	26.3?	5.19	S	138.77	E	33	N	3.5		1.0	7	NEAR S. COAST OF WEST IRIAN
	27	18	45	20.7*	4.338	N	96.763	E	50	?	4.5		1.1	15	NORTHERN SUMATERA
	27	18	56	17.7*	44.055	N	114.781	W	5	G			1.1	10	WESTERN IDAHO. ML 3.3 (NEIS).
	27	18	59	09.1*	43.948	N	114.770	W	5	G			0.5	9	WESTERN IDAHO. ML 3.8 (NEIS).
	27	19	38	42.1	27.867	N	142.777	E	30		5.1	4.3	0.8	111	BONIN ISLANDS REGION
	27	20	28	09.8&	32.960	N	117.790	W	10					6	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.0 (PAS).
	27	21	04	43.8	27.648	N	55.917	E	53	*	4.4		1.3	14	SOUTHERN IRAN
	27	21	22	21.9*	33.908	N	24.894	E	33	N	3.8		0.8	9	MEDITERRANEAN SEA
	27	23	48	47.6*	3.785	N	126.439	E	84	*	4.7		0.9	18	TALAUD ISLANDS
	28	00	00	01.7?	51.28	N	175.39	W	33	N	4.1		1.2	7	ANDREANOF ISLANDS, ALEUTIAN IS.
	28	00	02	44.7	20.643	N	122.226	E	29	*	4.7		1.2	63	PHILIPPINE ISLANDS REGION
	28	00	31	35.0	39.872	N	27.763	E	10	G			0.6	12	TURKEY
	28	00	42	32.7%	17.309	S	179.133	E	33	N			1.5	6	FIJI ISLANDS
	28	00	51	03.9?	41.57	N	18.91	E	10	G			0.2	4	ADRIATIC SEA. ML 2.3 (TTG).

	28	01	38	40.4?	7.72	S	128.01	E	173	?			1.0	5	BANDA SEA
	28	02	50	35.9%	45.114	N	0.206	W	10	G			1.0	10	FRANCE. ML 2.8 (LDG).
	28	04	12	56.6	19.060	N	69.526	W	36		4.9	4.4	0.9	103	DOMINICAN REPUBLIC REGION
	28	04	25	44.6?	37.55	N	21.15	E	10	G			0.3	5	SOUTHERN GREECE. ML 3.5 (ATH).
	28	05	01	53.9*	21.112	S	68.632	W	33	N			1.1	6	CHILE-BOLIVIA BORDER REGION
	28	06	14	35.0?	21.01	S	174.15	W	33	N	4.7		1.4	26	TONGA ISLANDS
	28	06	49	29.8?	37.69	S	72.77	W	33	N	4.0	3.3	0.4	13	CENTRAL CHILE
	28	07	06	26.8&	34.010	N	116.580	W	10					10	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS). Felt (IV) at Morongo Valley.
	28	07	20	12.5?	33.44	S	72.61	W	33	N			0.3	8	OFF COAST OF CENTRAL CHILE
	28	08	11	25.4?	33.73	S	72.13	W	33	N			0.6	8	OFF COAST OF CENTRAL CHILE
	28	08	12	04.5*	37.220	N	141.438	E	84	*	4.1		1.0	12	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Fukushima, Mito, Onahama, Sendai and Utsunomiya.
	28	08	50	28.6	54.759	N	164.444	W	110	*	4.7		1.0	53	UNIMAK ISLAND REGION
	28	09	31	06.2	42.750	N	19.130	E	10	G			0.7	6	YUGOSLAVIA. ML 2.1 (TTG).
	28	10	13	27.7	4.845	N	83.336	W	10	G			1.3	6	OFF COAST OF CENTRAL AMERICA
	28	10	28	47.8?	33.44	S	72.84	W	33	N			0.4	8	OFF COAST OF CENTRAL CHILE
	28	10	41	48.8&	59.782	N	152.320	W	61					39	SOUTHERN ALASKA. <AGS-P>. Felt (III) at Homer.
	28	11	17	32.6?	39.89	N	20.43	E	10	G			0.3	10	GREECE-ALBANIA BORDER REGION. ML 3.2 (THE).
	28	11	23	43.8*	51.532	N	175.175	W	33	N	4.1		0.9	20	ANDREANOF ISLANDS, ALEUTIAN IS.
	28	13	43	27.7?	42.37	N	19.07	E	10	G			0.7	4	YUGOSLAVIA. ML 2.2 (TTG).
	28	13	47	55.5*	27.815	N	142.653	E	33	N			0.9	12	BONIN ISLANDS REGION
	28	14	08	35.9?	6.32	S	114.33	E	571	?	4.1		0.9	9	BALI SEA
	28	14	50	59.7?	33.61	S	71.93	W	33	N			0.9	8	NEAR COAST OF CENTRAL CHILE
	28	14	54	03.0*	9.817	S	120.684	E	33	N	4.2		1.2	17	SUMBA ISLAND REGION
	28	16	59	01.1	43.883	N	147.878	E	38		4.7		0.9	61	KURIL ISLANDS
	28	20	25	48.0*	24.015	N	122.504	E	27	*	4.5		1.5	21	TAIWAN REGION
	28	21	37	49.2*	10.636	N	57.063	E	10	G	4.6		1.3	21	CARLSBERG RIDGE
	28	23	17	34.5*	35.286	N	140.099	E	73	*			0.5	9	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajira, Tateyama, Takya and Yakahama.
	29	00	00	28.5*	62.131	N	125.368	W	10	G			1.1	6	NORTHWEST TERRITORIES, CANADA
	29	00	02	21.8	40.588	N	23.155	E	10	G			0.8	11	GREECE. ML 2.8 (THE).
	29	00	29	41.1	33.424	S	72.099	W	46	*	4.7		1.0	31	OFF COAST OF CENTRAL CHILE
	29	00	37	00.5*	33.437	S	72.256	W	40	*	4.6		0.8	17	OFF COAST OF CENTRAL CHILE
	29	01	04	10.7*	11.185	S	164.732	E	33	N	4.5		1.3	9	SANTA CRUZ ISLANDS REGION
	29	01	14	15.4	40.321	N	27.391	E	12				0.4	11	TURKEY
	29	01	33	31.2	56.483	N	5.857	W	10	G			0.7	15	UNITED KINGDOM. ML 4.2 (BGS). Felt (V) at Oban. Felt throughout western Scotland.
	29	03	01	36.8&	58.808	N	151.742	W	65					19	KODIAK ISLAND REGION. <AGS-P>.
	29	03	20	07.8*	33.548	S	71.387	W	33	N			1.0	8	NEAR COAST OF CENTRAL CHILE
	29	05	48	06.2?	13.82	N	92.03	W	55	?	4.3	3.3	1.4	13	OFF COAST OF CHIAPAS, MEXICO
	29	06	17	32.0	37.514	N	118.398	W	10	G			0.8	11	CALIFORNIA-NEVADA BORDER REGION. ML 3.4 (PAS).
a	29	06	31	31.9	14.932	S	167.255	E	120		5.5		0.9	129	VANUATU ISLANDS
a	29	07	10	37.5	10.633	N	57.068	E	10	G	5.2	4.9	1.1	103	CARLSBERG RIDGE
	29	10	24	36.2%	39.646	N	28.894	E	10	G			1.3	5	TURKEY
	29	10	41	23.4	24.888	S	179.962	E	492	*	4.8		1.2	47	SOUTH OF FIJI ISLANDS
	29	12	20	44.2	51.326	N	174.969	W	33	N	5.0	4.5	1.0	127	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.2 (PMR). Felt (III) an Adak.
	29	12	43	25.8?	53.31	N	159.21	E	33	N	4.5		0.6	11	NEAR EAST COAST OF KAMCHATKA
	29	14	17	44.0*	6.986	S	129.857	E	150	?	4.0		1.5	9	BANDA SEA
	29	14	22	37.9?	31.48	S	69.21	W	33	N			1.1	7	SAN JUAN PROVINCE, ARGENTINA
	29	14	38	43.1*	9.722	N	57.857	E	10	G	4.7		1.4	36	CARLSBERG RIDGE
	29	15	20	18.5	37.653	N	118.413	W	5	G			0.8	14	CALIFORNIA-NEVADA BORDER REGION. ML 3.3 (NEIS).
	29	15	39	56.4	10.602	N	57.049	E	10	G	5.0		0.9	75	CARLSBERG RIDGE
	29	16	06	22.1	10.720	N	57.002	E	10	G	4.7		1.0	39	CARLSBERG RIDGE
	29	16	42	48.3?	42.37	N	18.92	E	10	G			1.0	4	YUGOSLAVIA. ML 2.0 (TTG).
	29	17	13	34.1&	58.805	N	156.056	W	217					30	ALASKA PENINSULA. <AGS-P>.
	29	17	38	03.9	39.091	N	27.864	E	11				0.9	21	TURKEY
	29	17	42	03.1*	37.880	N	29.343	E	10	G			0.7	5	TURKEY
	29	18	51	23.5	39.069	N	27.836	E	11				0.6	13	TURKEY
	29	20	38	23.3?	5.43	S	150.84	E	171	*	4.1		0.7	7	NEW BRITAIN REGION
	29	20	54	42.5*	7.668	S	119.491	E	287	*	4.4		0.9	10	FLORES SEA
	29	21	35	46.1*	44.272	N	17.794	E	10	G			1.2	8	YUGOSLAVIA. ML 2.8 (TTG).
	29	21	57	20.7	30.687	S	117.200	E	10	G			0.9	6	WESTERN AUSTRALIA
	29	23	03	36.4*	39.061	N	27.853	E	10	G			0.9	5	TURKEY
	29	23	30	44.7	30.969	S	69.204	W	33	N			1.2	14	CHILE-ARGENTINA BORDER REGION
	30	00	01	56.0	23.473	N	94.022	E	69	*	4.5		1.4	18	BURMA-INDIA BORDER REGION
	30	00	18	42.2&	35.900	N	117.660	W	6	G				3	CENTRAL CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
	30	00	26	28.4*	15.008	N	119.972	E	33	N			0.8	5	LUZON, PHILIPPINE ISLANDS
	30	04	11	39.6*	66.402	N	149.772	W	10	G			1.5	8	ALASKA. ML 3.6 (PMR).
	30	05	04	35.9	34.738	N	24.223	E	47	*	4.2		1.2	55	CRETE
	30	07	19	27.5	16.447	S	177.785	W	26	*	4.7		1.2	17	FIJI ISLANDS REGION
	30	07	23	57.4	39.032	N	21.412	E	10	G	4.2		0.7	19	GREECE. ML 3.6 (ATH), 3.4 (THE).
	30	08	07	09.5*	17.252	N	84.765	W	10	G	4.5		1.0	14	CARIBBEAN SEA
	30	09	42	48.4&	62.453	N	150.670	W	74					29	CENTRAL ALASKA. <AGS-P>.
	30	09	52	11.8&	32.980	N	117.800	W	10					25	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.9 (PAS). Felt (IV) at Lakeside and Pala, (III) at Avalon, Escandido, Laguna Hills, Missian Vieja, San Luis Rey, San Marcos and Vista, California.
	30	10	52	05.5*	16.249	S	177.699	W	33	N	4.7	4.5	1.2	17	FIJI ISLANDS REGION
	30	11	54	51.1	65.700	N	152.435	W	33	N	4.4		0.8	8	ALASKA. ML 3.6 (PMR).
	30	12	00	04.2	65.739	N	152.273	W	33	N			0.5	9	ALASKA. ML 3.0 (PMR).
	30	12	37	07.3	13.854	N	120.670	E	130		4.8		0.6	43	MINDORO, PHILIPPINE ISLANDS. Felt (II RF) at Puerto Galera.
	30	13	58	48.3?	9.83	S	160.89	E	33	N	4.4		1.5	7	SOLOMON ISLANDS
	30	15	50	14.9*	16.635	S	73.792	W	50	*	4.2		1.5	14	NEAR COAST OF PERU
	30	16	07	35.9	21.812	S	68.330	W	127	*	4.7		1.2	25	CHILE-BOLIVIA BORDER REGION
	30	16	11	53.5	43.996	N	113.942	W	5	G			0.4	8	EASTERN IDAHO. ML 3.6 (NEIS).
	30	17	05	50.6	39.083	N	27.765	E	10	G			0.6	6	TURKEY
	30	17	15	48.1	44.228	N	10.188	E	10	G			1.4	17	NORTHERN ITALY. ML 3.1 (LDG), 3.1 (KBA). MD 3.0 (FIR).
	30	17	16	25.8*	6.837	N	73.169	W	161	*	4.6		1.4	10	NORTHERN COLOMBIA
	30	17	24	35.1*	39.085	N	27.721	E	10	G			1.5	6	TURKEY
	30	18	36	47.8	39.050	N	27.682	E	10	G			1.0	6	TURKEY

30	18 56 56.2*	16.617 N	97.919 W	33 N	4.5		0.8	7	OAXACA, MEXICO. Felt slightly at Puebla.
30	20 15 43.4*	42.316 N	19.389 E	10 G			0.1	5	YUGOSLAVIA. ML 2.1 (TTG).
30	20 47 37.4*	38.812 N	23.488 E	10 G			0.6	6	GREECE. ML 2.9 (ATH).
30	20 55 44.1?	16.32 S	179.26 W	549	3.7		0.5	9	FIJI ISLANDS REGION
30	21 15 05.0	39.088 N	27.828 E	10 G			0.8	18	TURKEY
30	22 30 00.1&	37.300 N	116.307 W	0	5.5	4.5		218	SOUTHERN NEVADA. <DOE>. ML 5.2 (BRK). 37' 18' 00.29" N., 116' 18' 26.74" W., Surface Elev. 2127 m., Depth of Burial 600 m., Shot Time 223000.102, "LABQUARK", Nevada Test Site (Dept. of Energy).
30	22 53 49.8*	36.364 N	40.361 E	10 G			0.5	5	JORDAN - SYRIA REGION
30	23 03 05.5*	29.635 N	141.980 E	33 N	5.2		0.7	15	SOUTH OF HONSHU, JAPAN
30	23 24 58.1*	39.062 N	27.928 E	10 G			1.1	5	TURKEY
30	23 52 19.0*	4.495 N	96.515 E	58 ?	4.0		1.3	6	NORTHERN SUMATERA

ADDITIONAL SOURCE PARAMETERS

05 02 47 17.77 59.493S 29.529W 28km
5.8mb (17 obs.) 5.9Msz (17 obs.)
SOUTH SANDWICH ISLANDS REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 33 Dip=65 Slip= 170
NP2: 127 81 25
Principal Axes:
T Plg=24 Azm=353
P 11 258
Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting with a moderate reverse component. The preferred fault plane is not determined.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 21S, 49C
Centroid Location:
Origin Time 02:47:23.1 0.2
Lat 59.31S 0.02 Lon 29.56W 0.04
Dep 15.0 FIX Half-duration 4.3
Principal Axes:
Scale 10**25 D-CM
T Val= 1.79 Plg= 9 Azm=289
N 0.08 70 43
P -1.87 18 196
Best Double Couple:Mo=1.8*10**25
NP1:Strike=334 Dip=71 Slip=-173
NP2: 242 83 -19

05 06 06 15.58 37.073S 71.814W 93km
5.6mb (27 obs.)
S. CHILE-ARGENTINA BORDER REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 23C
Centroid Location:
Origin Time 06:06:20.2 0.6
Lat 37.05S 0.07 Lon 72.53W 0.13
Dep 80.5 9.7 Half-duration 1.6
Principal Axes:
Scale 10**23 D-CM
T Val= 11.37 Plg=42 Azm=111
N 0.60 24 226
P -11.97 38 336
Best Double Couple:Mo=1.2*10**24
NP1:Strike=129 Dip=24 Slip= 174
NP2: 225 88 66

06 00 11 05.55 15.775S 177.935W 439km
5.0mb (27 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 30C
Centroid Location:
Origin Time 00:11:11.4 0.6
Lat 15.60S 0.05 Lon 177.85W 0.05
Dep 435.8 2.5 Half-duration 1.8
Principal Axes:
Scale 10**24 D-CM
T Val= 1.27 Plg=79 Azm= 27
N -0.10 4 277
P -1.16 10 187
Best Double Couple:Mo=1.2*10**24
NP1:Strike=272 Dip=35 Slip= 84
NP2: 100 55 94

06 08 52 25.59 23.280S 176.745W 122km
5.6mb (39 obs.)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 30C
Centroid Location:
Origin Time 08:52:31.4 0.5
Lat 23.15S 0.05 Lon 176.86W 0.06
Dep 128.8 2.2 Half-duration 1.8
Principal Axes:
Scale 10**24 D-CM
T Val= 1.31 Plg=21 Azm=101
N 0.37 3 10
P -1.68 68 273
Best Double Couple:Mo=1.5*10**24
NP1:Strike=197 Dip=24 Slip= -83
NP2: 9 67 -93

06 20 04 23.77 20.669S 178.457W 587km
5.5mb (47 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 32C
Centroid Location:
Origin Time 20:04:30.9 0.4
Lat 20.43S 0.04 Lon 178.70W 0.04
Dep 593.2 2.1 Half-duration 2.6
Principal Axes:
Scale 10**24 D-CM
T Val= 3.64 Plg=35 Azm=111
N 0.31 5 204
P -3.95 55 301
Best Double Couple:Mo=3.8*10**24
NP1:Strike=178 Dip=11 Slip=-117
NP2: 25 80 -85

07 01 44 19.93 12.824S 169.518E 665km
4.9mb (18 obs.)
SANTA CRUZ ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 14C
Centroid Location:
Origin Time 01:44:23.9 1.6
Lat 12.88S 0.12 Lon 169.80E 0.13
Dep 671.4 6.7 Half-duration 1.6
Principal Axes:
Scale 10**23 D-CM
T Val= 7.49 Plg=18 Azm=304
N 0.77 7 36
P -8.26 71 147
Best Double Couple:Mo=7.9*10**23
NP1:Strike= 23 Dip=28 Slip=-105
NP2: 220 63 -82

07 20 11 08.87 59.542S 26.098W 33km
5.4mb (14 obs.) 5.0Msz (4 obs.)
SOUTH SANDWICH ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 29C
Centroid Location:
Origin Time 20:11:16.2 0.3
Lat 59.90S 0.05 Lon 26.42W 0.10
Dep 15.0 BDY Half-duration 2.2
Principal Axes:
Scale 10**24 D-CM
T Val= 2.77 Plg=61 Azm=234
N -0.01 20 3
P -2.75 21 101
Best Double Couple:Mo=2.8*10**24
NP1:Strike=222 Dip=29 Slip= 133
NP2: 356 69 69

08 02 39 52.44 4.417N 96.370E 40km
5.2mb (42 obs.) 5.1Msz (6 obs.)
NORTHERN SUMATERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 17C
Centroid Location:
Origin Time 02:39:54.1 0.6
Lat 4.74N 0.08 Lon 96.09E 0.08
Dep 21.9 8.1 Half-duration 1.8
Principal Axes:
Scale 10**24 D-CM
T Val= 1.48 Plg=25 Azm= 78
N -0.20 64 243
P -1.28 6 345
Best Double Couple:Mo=1.4*10**24
NP1:Strike=118 Dip=68 Slip= 166
NP2: 214 77 22

09 15 58 22.59 0.927N 127.944E 33km
5.5mb (29 obs.) 5.3Msz (10 obs.)
HALMAHERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 23C
Centroid Location:
Origin Time 15:58:26.0 0.5
Lat 0.98N 0.05 Lon 128.03E 0.07
Dep 15.0 BDY Half-duration 2.2
Principal Axes:
Scale 10**24 D-CM
T Val= 2.75 Plg=15 Azm= 0
N -0.20 3 91
P -2.55 75 193
Best Double Couple:Mo=2.6*10**24
NP1:Strike= 85 Dip=30 Slip= -97
NP2: 273 60 -86

10 22 20 48.57 8.823S 157.522E 10km
5.5mb (15 obs.) 5.2Msz (2 obs.)
SOLOMON ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 25C
Centroid Location:
Origin Time 22:20:56.5 0.3
Lat 8.86S 0.05 Lon 157.35E 0.05
Dep 15.4 2.7 Half-duration 2.5
Principal Axes:
Scale 10**24 D-CM
T Val= 2.90 Plg=64 Azm= 54
N -0.04 2 149
P -2.86 26 240
Best Double Couple:Mo=2.9*10**24
NP1:Strike=335 Dip=19 Slip= 96
NP2: 148 71 88

11 00 18 25.59 5.187S 152.442E 51km
5.8mb (44 obs.) 6.4Msz (28 obs.)
NEW BRITAIN REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 95 Dip=70 Slip= 87
NP2: 284 20 98
Principal Axes:
T Plg=65 Azm=360
P 25 187
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 23 No. of sta: 12
Principal Axes:
Scale 10**25 d-cm
T Val= 5.29 Plg=59 Azm= 34
N 0.21 21 265
P -5.50 22 166
Best Double Couple:Mo=5.4*10**25
NP1:Strike=223 Dip=29 Slip= 44
NP2: 93 70 112
CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
L.P.B.: 21S, 55C M.W.: 10S, 23C
Centroid Location:
Origin Time 00:18:29.2 0.1
Lat 5.33S 0.02 Lon 152.58E 0.02
Dep 24.8 0.9 Half-duration 5.7
Principal Axes:
Scale 10**25 D-CM

	Val=	Plg=	Azm=
T	6.30	58	337
N	-0.09	4	73
P	-6.20	32	165

Best Double Couple:Mo=6.3*10**25

NP1:Strike=	268	Dip=	13 Slip= 106
NP2:	72	77	86

11 17 54 03.03 0.474N 125.862E 33km
5.4mb (29 obs.) 5.0Msz (7 obs.)
MOLUCCA PASSAGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 21C
Centroid Location:
Origin Time 17:54: 8.0 0.3
Lat 0.44N 0.07 Lon 125.37E 0.07
Dep 15.0 BDY Half-duration 2.9
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	5.96	54	91
N	0.52	5	188
P	-6.48	35	282

Best Double Couple:Mo=6.2*10**24

NP1:Strike=	35	Dip=	11 Slip= 117
NP2:	188	80	85

12 10 39 40.62 22.510S 70.176W 80km
5.1mb (19 obs.)
NEAR COAST OF NORTHERN CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 19C
Centroid Location:
Origin Time 10:39:47.0 0.6
Lat 21.88S 0.11 Lon 70.96W 0.08
Dep 108.8 5.0 Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	7.23	20	105
N	-1.70	7	13
P	-5.53	69	264

Best Double Couple:Mo=6.4*10**23

NP1:Strike=	207	Dip=	26 Slip= -74
NP2:	9	65	-98

12 16 18 48.29 5.387S 153.740E 59km
5.2mb (28 obs.)
NEW IRELAND REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 16C
Centroid Location:
Origin Time 16:18:54.0 0.6
Lat 5.40S 0.08 Lon 153.30E 0.08
Dep 64.3 5.7 Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	6.18	79	326
N	0.80	11	142
P	-6.98	1	232

Best Double Couple:Mo=6.6*10**23

NP1:Strike=	333	Dip=	45 Slip= 105
NP2:	132	47	75

12 23 57 15.61 56.201N 153.405W 31km
6.1mb (112 obs.) 6.3Msz (39 obs.)
KODIAK ISLAND REGION
FAULT PLANE SOLUTION: P-Waves

NP1:Strike=	27	Dip=	80 Slip= 37
NP2:	290	54	168

Principal Axes:

	Plg=	Azm=
T	33	255
P	17	153

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 22 No. of sta: 16
Principal Axes:
Scale 10**25 d-cm

	Val=	Plg=	Azm=
T	7.34	31	223
N	-1.08	59	37
P	-6.26	3	131

Best Double Couple:Mo=6.8*10**25

NP1:Strike=	263	Dip=	67 Slip= 159
NP2:	1	70	25

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 40C
Centroid Location:
Origin Time 23:57:21.1 0.3
Lat 55.90N 0.05 Lon 153.65W 0.09
Dep 15.0 FIX Half-duration 6.6
Principal Axes:
Scale 10**25 D-CM

	Val=	Plg=	Azm=
T	5.95	49	316
N	0.23	6	53
P	-6.18	40	148

Best Double Couple:Mo=6.1*10**25

NP1:Strike=	289	Dip=	8 Slip= 146
NP2:	52	86	84

13 09 28 24.46 60.797S 36.779W 10km
5.8mb (28 obs.) 6.1Msz (12 obs.)
SCOTIA SEA
FAULT PLANE SOLUTION: P-Waves

NP1:Strike=	340	Dip=	85 Slip= 147
NP2:	73	57	6

Principal Axes:

	Plg=	Azm=
T	26	291
P	19	31

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 27 No. of sta: 7
Principal Axes:
Scale 10**25 d-cm

	Val=	Plg=	Azm=
T	3.02	38	293
N	0.08	44	156
P	-3.10	23	42

Best Double Couple:Mo=3.1*10**25

NP1:Strike=	83	Dip=	45 Slip= 13
NP2:	344	81	134

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 38C M.W.: 9S, 21C
Centroid Location:
Origin Time 09:28:30.8 0.2
Lat 61.11S 0.01 Lon 36.46W 0.03
Dep 15.0 FIX Half-duration 5.6
Principal Axes:
Scale 10**25 D-CM

	Val=	Plg=	Azm=
T	3.83	5	324
N	-0.25	79	207
P	-3.58	9	55

Best Double Couple:Mo=3.7*10**25

NP1:Strike=	99	Dip=	80 Slip= -3
NP2:	190	87	-170

13 15 17 21.01 31.827S 179.937W 215km
5.9mb (40 obs.)
KERMADEC ISLANDS REGION
FAULT PLANE SOLUTION: P-Waves

NP1:Strike=	178	Dip=	50 Slip=-130
NP2:	51	54	-53

Principal Axes:

	Plg=	Azm=
T	2	115
P	60	21

Comment: The focal mechanism is poorly controlled and corresponds to normal faulting with a large strike-slip component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 219 No. of sta: 13
Principal Axes:
Scale 10**25 d-cm

	Val=	Plg=	Azm=
T	6.51	4	116
N	0.09	26	208
P	-6.60	63	19

Best Double Couple:Mo=6.6*10**25

NP1:Strike=	181	Dip=	47 Slip=-127
NP2:	49	54	-57

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 40C M.W.: 11S, 27C
Centroid Location:
Origin Time 15:17:30.4 0.1
Lat 31.73S 0.01 Lon 179.94W 0.01
Dep 231.0 0.5 Half-duration 6.0
Principal Axes:
Scale 10**25 D-CM

	Val=	Plg=	Azm=
T	5.83	2	282
N	0.18	35	190
P	-6.01	55	15

Best Double Couple:Mo=5.9*10**25

NP1:Strike=	42	Dip=	53 Slip= -44
NP2:	162	57	-134

13 17 24 31.49 37.014N 22.176E 11km
6.0mb (100 obs.) 5.8Msz (18 obs.)
SOUTHERN GREECE
FAULT PLANE SOLUTION: P-Waves

NP1:Strike=	205	Dip=	50 Slip= -68
NP2:	353	45	-114

Principal Axes:

	Plg=	Azm=
T	3	280
P	73	181

Comment: The focal mechanism is moderately well controlled and corresponds to normal faulting with a moderate strike-slip component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 21 No. of sta: 10
Principal Axes:
Scale 10**24 d-cm

	Val=	Plg=	Azm=
T	6.39	10	85
N	0.46	23	351
P	-6.85	65	196

Best Double Couple:Mo=6.6*10**24

NP1:Strike=	200	Dip=	41 Slip= -53
NP2:	335	58	-117

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 17C
Centroid Location:
Origin Time 17:24:34.6 0.4
Lat 36.80N 0.08 Lon 22.64E 0.08
Dep 15.0 BDY Half-duration 3.4
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	9.69	6	287
N	0.24	28	20
P	-9.94	62	187

Best Double Couple:Mo=9.8*10**24

NP1:Strike=	350	Dip=	46 Slip=-130
NP2:	221	56	-56

14 00 05 54.51 23.368S 179.102E 549km
5.2mb (29 obs.)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 7S, 14C
Centroid Location:
Origin Time 00:06: 0.0 0.7
Lat 23.16S 0.12 Lon 178.85E 0.10
Dep 571.3 4.0 Half-duration 2.0
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	1.86	2	238
N	-0.04	28	329
P	-1.82	62	144

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

NP1:Strike=	302	Dip=	50 Slip=-128
NP2:	172	53	-54

14 20 58 23.19 6.470S 154.916E 59km
5.6mb (39 obs.)
SOLOMON ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 31C
Centroid Location:
Origin Time 20:58:28.2 0.2
Lat 6.81S 0.03 Lon 154.86E 0.03
Dep 59.8 2.1 Half-duration 4.2
Principal Axes:
Scale 10**25 D-CM

	Val=	Plg=	Azm=
T	1.49	71	89
N	0.34	14	311
P	-1.83	12	218

Best Double Couple:Mo=1.7*10**25

NP1:Strike=	290	Dip=	35 Slip= 65
NP2:	140	59	107

15 08 48 11.44 22.748S 175.288W 33km
5.7mb (40 obs.) 5.8Msz (14 obs.)
TONGA ISLANDS REGION
FAULT PLANE SOLUTION: P-Waves

NP1:Strike=	30	Dip=	77 Slip= 90

NP2: 210 13 90
Principal Axes:
T Plg=58 Azm=300
P 32 120
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 7 No. of sta: 10
Principal Axes:
Scale 10**24 d-cm
T Val= 6.75 Plg=56 Azm=288
N -0.35 5 25
P -6.40 33 118
Best Double Couple:Mo=6.6*10**24
NP1:Strike=228 Dip=13 Slip= 113
NP2: 24 78 85
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 28C
Centroid Location:
Origin Time 08:48:16.1 0.4
Lat 23.03S 0.03 Lon 174.70W 0.04
Dep 15.0 FIX Half-duration 3.0
Principal Axes:
Scale 10**24 D-CM
T Val= 5.17 Plg=68 Azm=258
N 0.42 11 17
P -5.59 18 110
Best Double Couple:Mo=5.4*10**24
NP1:Strike=218 Dip=28 Slip= 114
NP2: 11 64 78

15 21 42 29.29 36.714N 71.092E 89km
5.8mb (128 obs.)
AFGHANISTAN-USSR BORDER REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=210 Dip=73 Slip= 20
NP2: 114 71 162
Principal Axes:
T Plg=26 Azm= 72
P 1 342
Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting with a moderate reverse component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 77 No. of sta: 14
Principal Axes:
Scale 10**24 d-cm
T Val= 2.60 Plg=30 Azm= 74
N 0.07 59 236
P -2.66 8 339
Best Double Couple:Mo=2.6*10**24
NP1:Strike=113 Dip=63 Slip= 164
NP2: 210 75 28
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 31C
Centroid Location:
Origin Time 21:42:33.6 0.3
Lat 36.52N 0.04 Lon 70.56E 0.05
Dep 105.3 2.5 Half-duration 2.4
Principal Axes:
Scale 10**24 D-CM
T Val= 2.82 Plg=56 Azm= 98
N -0.02 28 240
P -2.81 18 340
Best Double Couple:Mo=2.8*10**24
NP1:Strike=105 Dip=37 Slip= 142
NP2: 228 68 60

16 08 57 10.70 12.353S 166.595E 135km
5.5mb (21 obs.)
SANTA CRUZ ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 18C
Centroid Location:
Origin Time 08:57:12.6 0.5
Lat 12.44S 0.08 Lon 166.28E 0.06
Dep 117.6 3.2 Half-duration 1.7
Principal Axes:
Scale 10**24 D-CM
T Val= 0.85 Plg=68 Azm=193
N 0.32 20 351
P -1.17 7 84
Best Double Couple:Mo=1.0*10**24
NP1:Strike=196 Dip=42 Slip= 121
NP2: 336 55 65

16 18 20 17.75 19.376N 146.301E 48km
6.5mb (144 obs.) 6.7Msz (56 obs.)
MARIANA ISLANDS REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=107 Dip=67 Slip= -90
NP2: 287 23 -90
Principal Axes:
T Plg=22 Azm=197
P 68 17
Comment: The focal mechanism is poorly controlled and corresponds to normal faulting. The preferred fault plane is NP1.
MOMENT TENSOR SOLUTION
Dep 38 No. of sta: 13
Principal Axes:
Scale 10**26 d-cm
T Val= 1.21 Plg=18 Azm=201
N -0.06 3 292
P -1.15 72 32
Best Double Couple:Mo=1.2*10**26
NP1:Strike=286 Dip=27 Slip= -97
NP2: 114 63 -86
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 36C M.W.: 11S, 25C
Centroid Location:
Origin Time 18:20:23.9 0.1
Lat 19.29N 0.02 Lon 146.47E 0.02
Dep 31.5 0.8 Half-duration 7.8
Principal Axes:
Scale 10**25 D-CM
T Val= 9.32 Plg=13 Azm=230
N 0.39 25 134
P -9.71 61 345
Best Double Couple:Mo=9.5*10**25
NP1:Strike=349 Dip=39 Slip= -48
NP2: 120 62 -119

16 20 57 21.95 56.222N 153.600W 33km
5.3mb (66 obs.) 5.5Msz (8 obs.)
KODIAK ISLAND REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 19C
Centroid Location:
Origin Time 20:57:27.2 1.0
Lat 56.06N 0.13 Lon 153.21W 0.21
Dep 15.0 FIX Half-duration 3.0
Principal Axes:
Scale 10**24 D-CM
T Val= 6.88 Plg=56 Azm=312
N 1.57 3 47
P -8.45 34 139
Best Double Couple:Mo=7.7*10**24
NP1:Strike=241 Dip=11 Slip= 105
NP2: 46 79 87

17 06 42 20.24 3.934S 128.829E 25km
5.4mb (21 obs.) 5.1Msz (3 obs.)
CERAM
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 19C
Centroid Location:
Origin Time 06:42:23.2 0.5
Lat 3.68S 0.05 Lon 128.75E 0.07
Dep 15.0 FIX Half-duration 2.3
Principal Axes:
Scale 10**24 D-CM
T Val= 2.73 Plg=40 Azm= 96
N 0.64 40 320
P -3.37 24 208
Best Double Couple:Mo=3.1*10**24
NP1:Strike=250 Dip=42 Slip= 15
NP2: 149 80 131

17 11 01 18.53 26.539N 128.631E 34km
5.4mb (36 obs.) 5.5Msz (1 obs.)
RYUKYU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 7S, 14C
Centroid Location:
Origin Time 11:01:15.7 0.9
Lat 26.35N 0.14 Lon 129.41E 0.20
Dep 15.0 FIX Half-duration 1.6
Principal Axes:
Scale 10**23 D-CM
T Val= 8.23 Plg=58 Azm=333
N 1.27 5 234
P -9.50 32 141
Best Double Couple:Mo=8.9*10**23
NP1:Strike=213 Dip=14 Slip= 68
NP2: 56 77 95

17 12 08 09.46 37.290N 71.730E 120km
5.5mb (81 obs.)
AFGHANISTAN-USSR BORDER REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 25C
Centroid Location:
Origin Time 12:08:16.0 0.4
Lat 37.34N 0.06 Lon 71.55E 0.05
Dep 135.6 2.4 Half-duration 2.3
Principal Axes:
Scale 10**24 D-CM
T Val= 2.51 Plg=41 Azm=143
N 0.15 27 27
P -2.66 38 274
Best Double Couple:Mo=2.6*10**24
NP1:Strike=301 Dip=27 Slip= 4
NP2: 208 88 117

17 21 25 15.06 10.497N 56.983E 10km
5.8mb (67 obs.) 6.0Msz (20 obs.)
CARLSBERG RIDGE
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=217 Dip=83 Slip= 15
NP2: 125 75 173
Principal Axes:
T Plg=16 Azm= 82
P 5 350
Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting with a small reverse component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 28 No. of sta: 11
Principal Axes:
Scale 10**25 d-cm
T Val= 2.68 Plg= 7 Azm= 97
N 0.51 71 208
P -3.19 17 5
Best Double Couple:Mo=2.9*10**25
NP1:Strike=142 Dip=73 Slip=-173
NP2: 50 83 -17
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 18S, 44C
Centroid Location:
Origin Time 21:25:18.9 0.2
Lat 10.76N 0.02 Lon 57.00E 0.02
Dep 15.0 FIX Half-duration 4.8
Principal Axes:
Scale 10**25 D-CM
T Val= 2.25 Plg= 6 Azm= 81
N 0.14 81 210
P -2.39 7 351
Best Double Couple:Mo=2.3*10**25
NP1:Strike=126 Dip=81 Slip=-179
NP2: 36 89 -9

19 19 01 15.41 2.957S 139.552E 38km
5.1mb (15 obs.) 4.7Msz (1 obs.)
NEAR N. COAST OF WEST IRIAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 27C
Centroid Location:
Origin Time 19:01:19.3 1.0
Lat 2.79S 0.11 Lon 139.76E 0.12
Dep 15.0 FIX Half-duration 1.6
Principal Axes:
Scale 10**23 D-CM
T Val= 9.65 Plg=63 Azm=154
N -2.70 18 283
P -6.95 20 20
Best Double Couple:Mo=8.3*10**23
NP1:Strike=138 Dip=30 Slip= 128
NP2: 275 67 70

20 01 31 13.99 0.843N 29.233W 10km
5.4mb (68 obs.) 4.7Msz (7 obs.)
CENTRAL MID-ATLANTIC RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 36C
Centroid Location:

Origin Time 01:31:23.0 0.4
Lat 0.72N 0.05 Lon 29.00W 0.04
Dep 15.0 BDY Half-duration 2.0
Principal Axes:
Scale 10**24 D-CM

T	Val=	1.24	Plg=75	Azm=156
N		0.38	0	246
P		-1.63	15	336

Best Double Couple:Mo=1.4*10**24
NP1:Strike= 66 Dip=30 Slip= 90
NP2: 246 60 90

20 10 05 00.71 13.034N 93.354E 76km
4.9mb (42 obs.)
ANDAMAN ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 20C
Centroid Location:
Origin Time 10:04:58.7 0.8
Lat 12.82N 0.11 Lon 93.16E 0.10
Dep 21.6 7.3 Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM

T	Val=	5.58	Plg=62	Azm=114
N		0.50	12	1
P		-6.08	25	266

Best Double Couple:Mo=5.8*10**23
NP1:Strike=332 Dip=23 Slip= 59
NP2: 185 71 102

21 12 18 06.67 17.023N 147.273E 48km
5.1mb (18 obs.) 4.5Msz (1 obs.)
MARIANA ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 25C
Centroid Location:
Origin Time 12:18: 7.7 0.6
Lat 16.74N 0.08 Lon 147.48E 0.08
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM

T	Val=	10.94	Plg=65	Azm=234
N		0.63	14	356
P		-11.57	21	91

Best Double Couple:Mo=1.1*10**24
NP1:Strike=204 Dip=27 Slip= 122
NP2: 350 67 75

22 16 15 05.89 6.716S 130.427E 123km
5.6mb (40 obs.)
BANDA SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 36C
Centroid Location:
Origin Time 16:15: 6.4 0.3
Lat 6.71S 0.03 Lon 130.38E 0.03
Dep 109.6 1.5 Half-duration 2.7
Principal Axes:
Scale 10**24 D-CM

T	Val=	4.56	Plg=69	Azm=285
N		-0.30	20	125
P		-4.26	7	33

Best Double Couple:Mo=4.4*10**24
NP1:Strike=102 Dip=42 Slip= 60
NP2: 320 55 114

23 11 41 51.32 56.558N 164.032E 31km
5.3mb (90 obs.) 4.6Msz (7 obs.)
KOMANDORSKY ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 23C
Centroid Location:
Origin Time 11:41:50.1 0.5
Lat 56.74N 0.08 Lon 164.13E 0.10
Dep 32.0 5.9 Half-duration 1.7
Principal Axes:
Scale 10**23 D-CM

T	Val=	7.63	Plg=77	Azm= 14
N		3.28	1	110
P		-10.92	13	200

Best Double Couple:Mo=9.3*10**23
NP1:Strike=292 Dip=32 Slip= 93
NP2: 109 58 88

23 13 30 15.37 16.621S 167.265E 19km
5.5mb (22 obs.) 5.7Msz (11 obs.)
VANUATU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 34C
Centroid Location:
Origin Time 13:30:18.9 0.4
Lat 16.80S 0.03 Lon 167.52E 0.03
Dep 15.0 FIX Half-duration 3.3
Principal Axes:
Scale 10**24 D-CM

T	Val=	9.11	Plg=13	Azm=135
N		-1.68	74	348
P		-7.43	8	227

Best Double Couple:Mo=8.3*10**24
NP1:Strike=271 Dip=75 Slip= 4
NP2: 181 87 165

24 14 19 37.54 13.630S 173.055E 620km
5.4mb (44 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 23C
Centroid Location:
Origin Time 14:19:41.3 0.6
Lat 13.87S 0.06 Lon 173.08E 0.05
Dep 634.8 3.5 Half-duration 2.3
Principal Axes:
Scale 10**24 D-CM

T	Val=	2.57	Plg=27	Azm=210
N		0.25	49	336
P		-2.82	28	104

Best Double Couple:Mo=2.7*10**24
NP1:Strike=248 Dip=49 Slip=-179
NP2: 157 89 -41

25 06 15 54.83 23.032N 108.061W 10km
5.3mb (40 obs.) 5.7Msz (13 obs.)
GULF OF CALIFORNIA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 33C
Centroid Location:
Origin Time 06:16: 2.5 0.2
Lat 22.90N 0.02 Lon 108.17W 0.02
Dep 15.0 FIX Half-duration 3.9
Principal Axes:
Scale 10**25 D-CM

T	Val=	1.26	Plg= 7	Azm=263
N		-0.16	83	67
P		-1.11	2	173

Best Double Couple:Mo=1.2*10**25
NP1:Strike=308 Dip=84 Slip= 176
NP2: 38 86 7

25 20 06 12.58 3.677N 126.777E 45km
5.6mb (37 obs.) 5.6Msz (10 obs.)
TALAUD ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 40C
Centroid Location:
Origin Time 20:06:17.4 0.2
Lat 3.77N 0.03 Lon 126.67E 0.02
Dep 28.0 1.8 Half-duration 3.9
Principal Axes:
Scale 10**24 D-CM

T	Val=	14.52	Plg=52	Azm=334
N		-2.74	31	194
P		-11.78	20	92

Best Double Couple:Mo=1.3*10**25
NP1:Strike=143 Dip=37 Slip= 32
NP2: 26 71 123

29 06 31 31.98 14.932S 167.255E 120km
5.5mb (31 obs.)
VANUATU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 23C
Centroid Location:
Origin Time 06:31:35.6 0.8
Lat 15.10S 0.07 Lon 167.07E 0.08
Dep 110.8 2.6 Half-duration 1.9
Principal Axes:
Scale 10**23 D-CM

T	Val=	10.49	Plg=78	Azm= 93
N		2.14	4	202
P		-12.63	11	293

Best Double Couple:Mo=1.2*10**24
NP1:Strike= 28 Dip=34 Slip= 97
NP2: 199 56 85

29 07 10 37.56 10.633N 57.068E 10km
5.2mb (34 obs.) 4.9Msz (1 obs.)
CARLSBERG RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 22C
Centroid Location:
Origin Time 07:10:44.4 0.6
Lat 10.87N 0.10 Lon 57.20E 0.08
Dep 15.0 FIX Half-duration 1.6
Principal Axes:
Scale 10**23 D-CM

T	Val=	6.89	Plg=21	Azm=199
N		1.16	68	8
P		-8.05	4	108

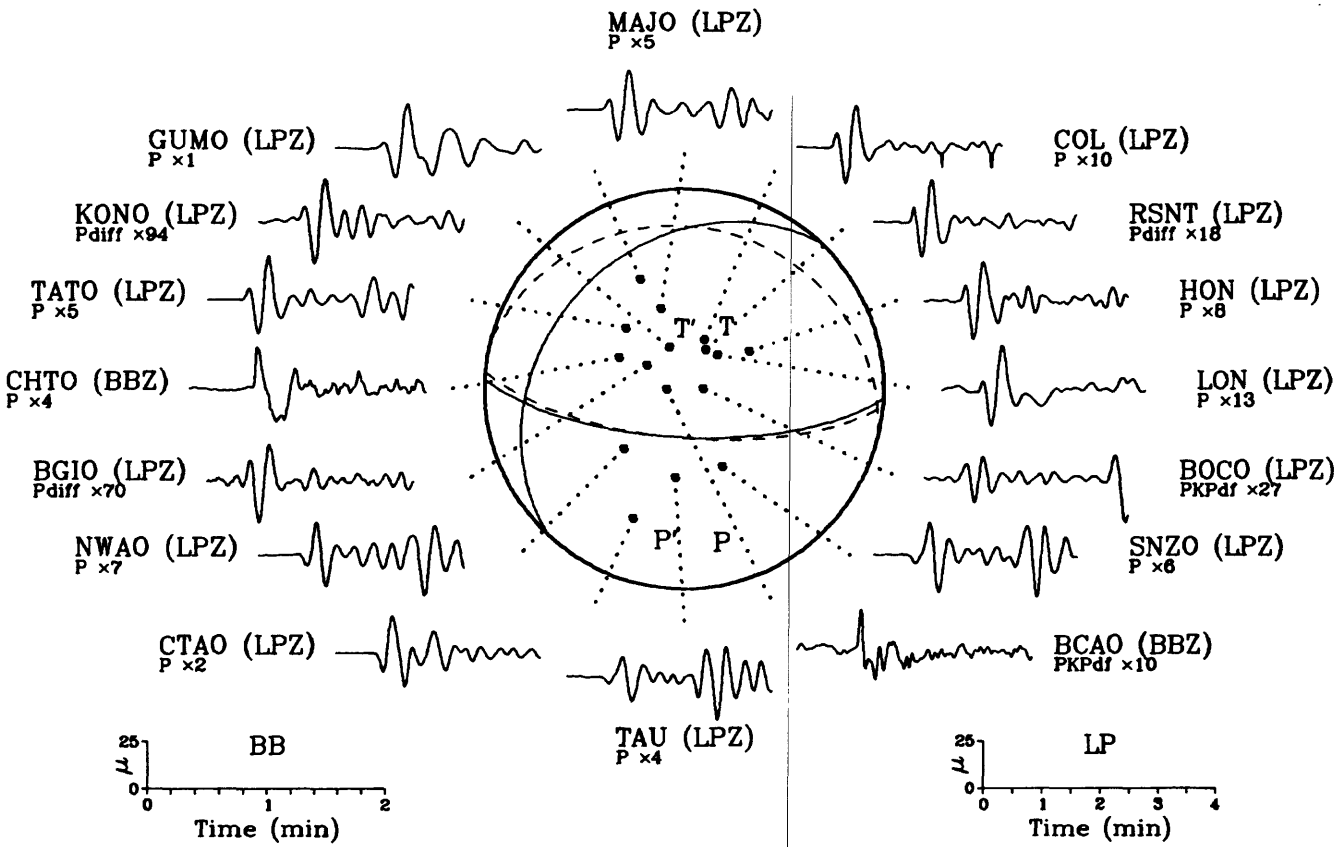
Best Double Couple:Mo=7.5*10**23
NP1:Strike=242 Dip=72 Slip= 167
NP2: 336 78 18

ANTARCTIC EVENT, SEPTEMBER 17, 1986

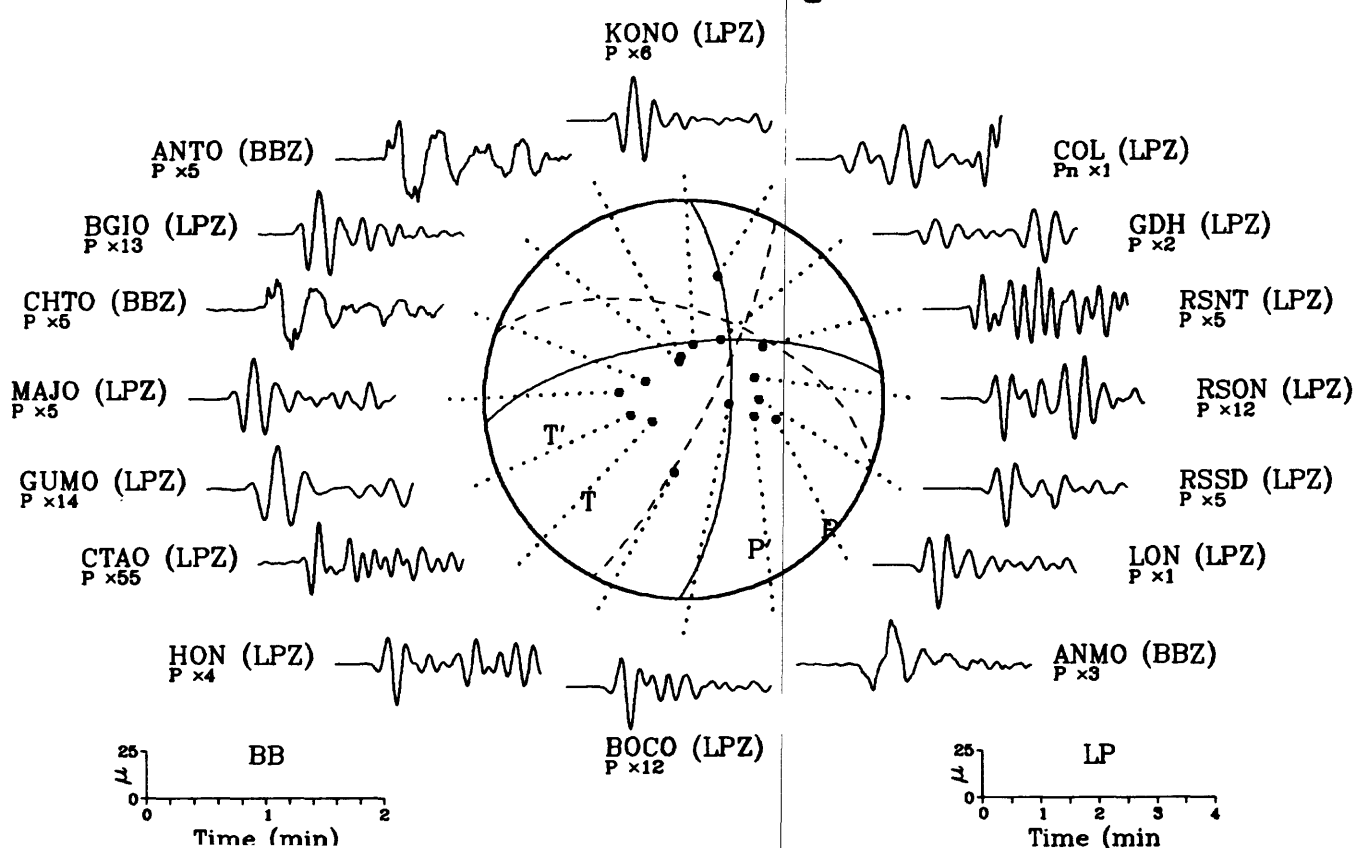
A local event was detected on the South Pole, Antarctica seismograph station at 07 15 02.0 UTC on September 17. From S-P time differences and P-wave polarities, the event occurred about 1.5 degrees from SPA at approximately 88.5° S, 45° W. The origin time was approximately 07 14 40 UTC, and the magnitude was estimated to be 3.0. No data were reported for this event from any other Antarctic stations.

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

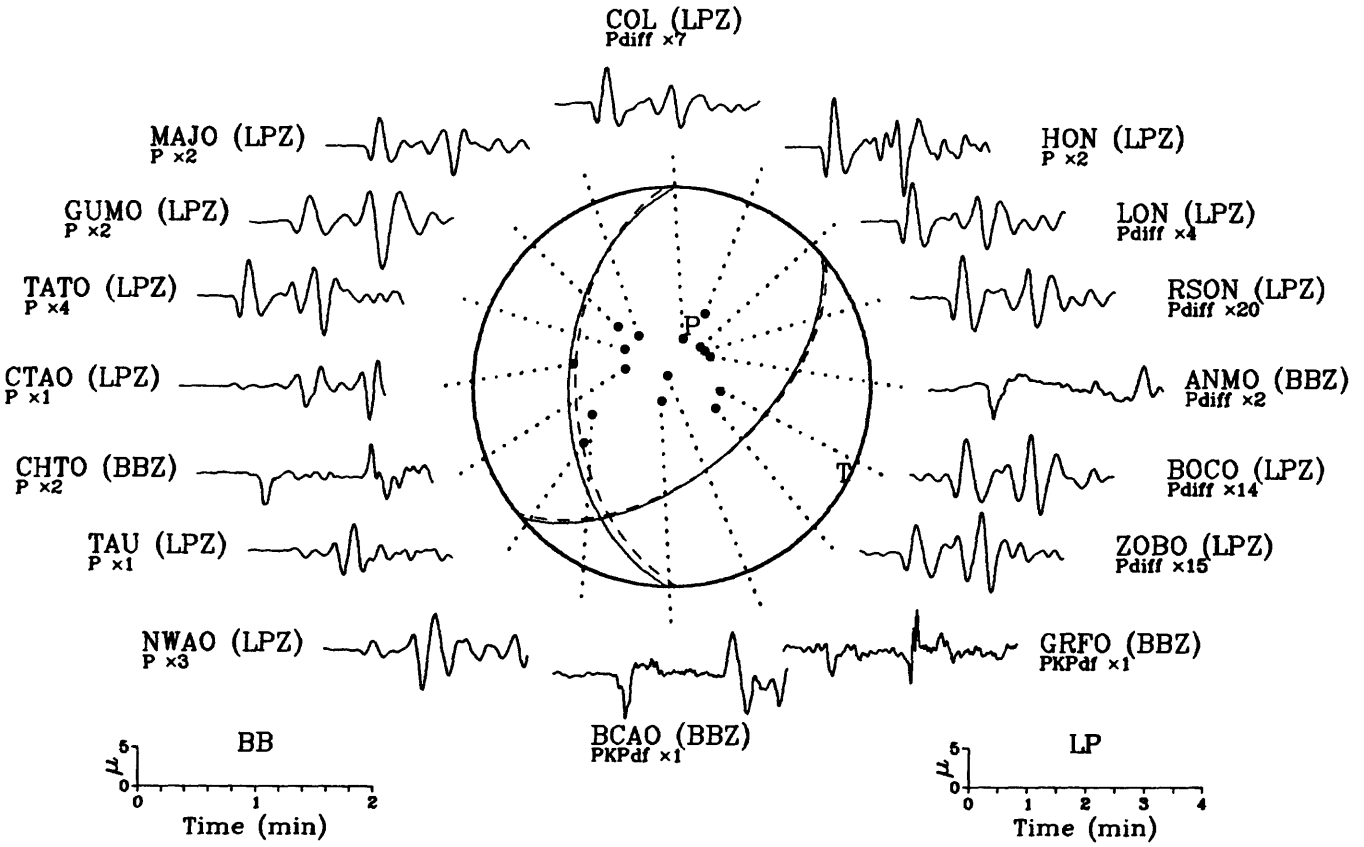
11 September 1986 00:18:25.59
New Britain Region



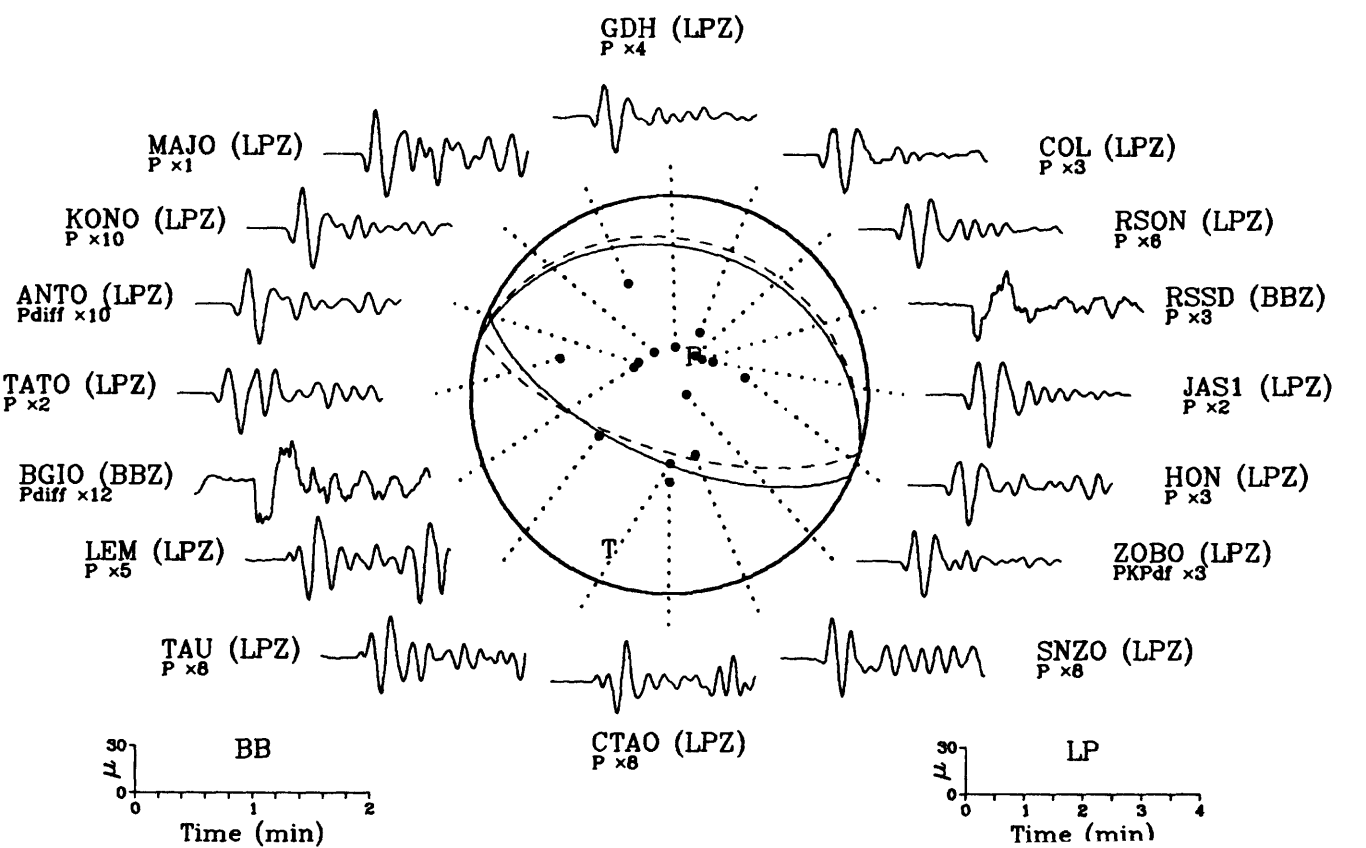
12 September 1986 23:57:15.61
Kodiak Island Region



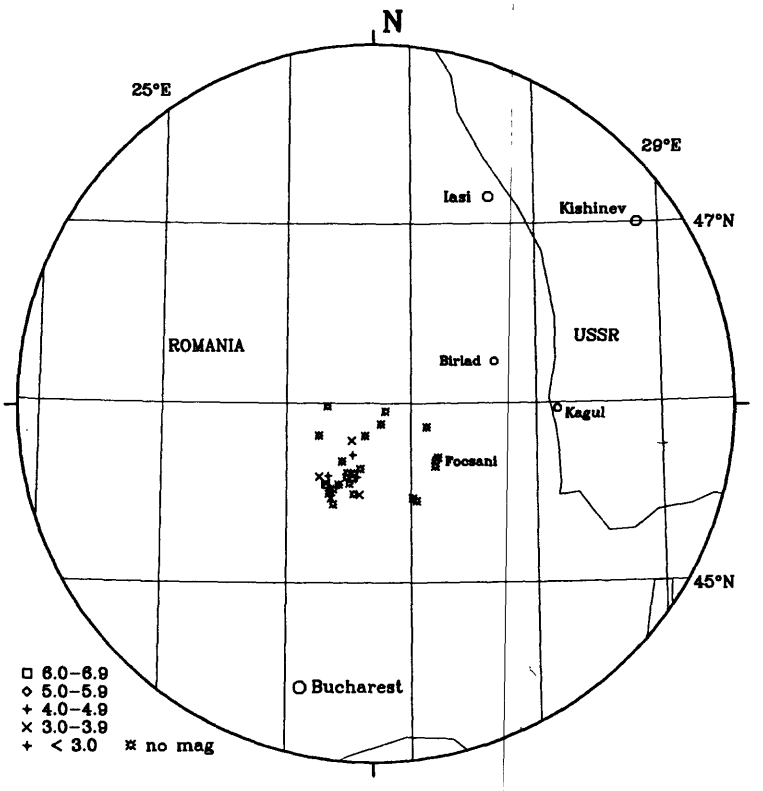
13 September 1986 15:17:21.01
Kermadec Islands Region

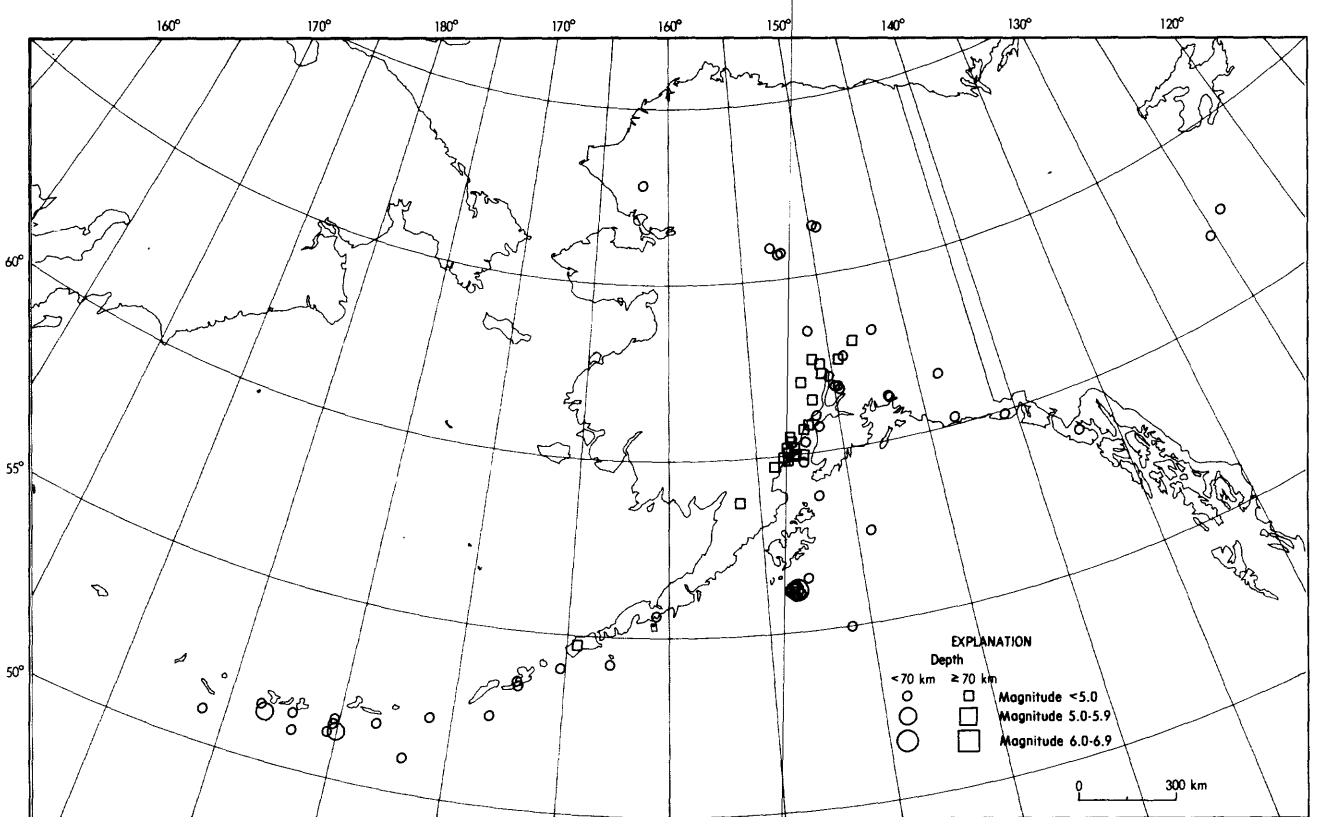


16 September 1986 18:20:17.75
Mariana Islands Region

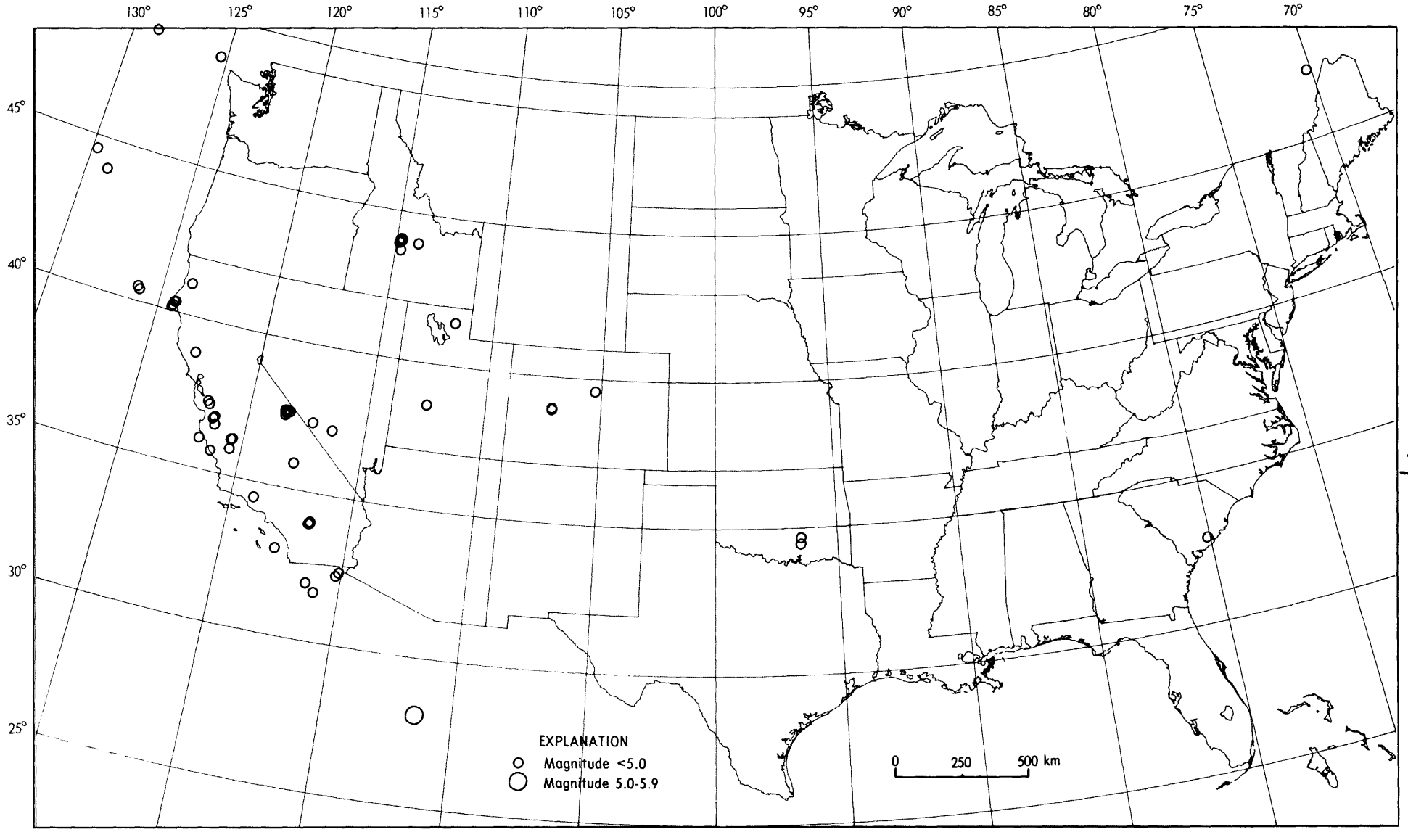


Earthquake Epicenters in the Vrancea Region, Romania, August and September, 1986

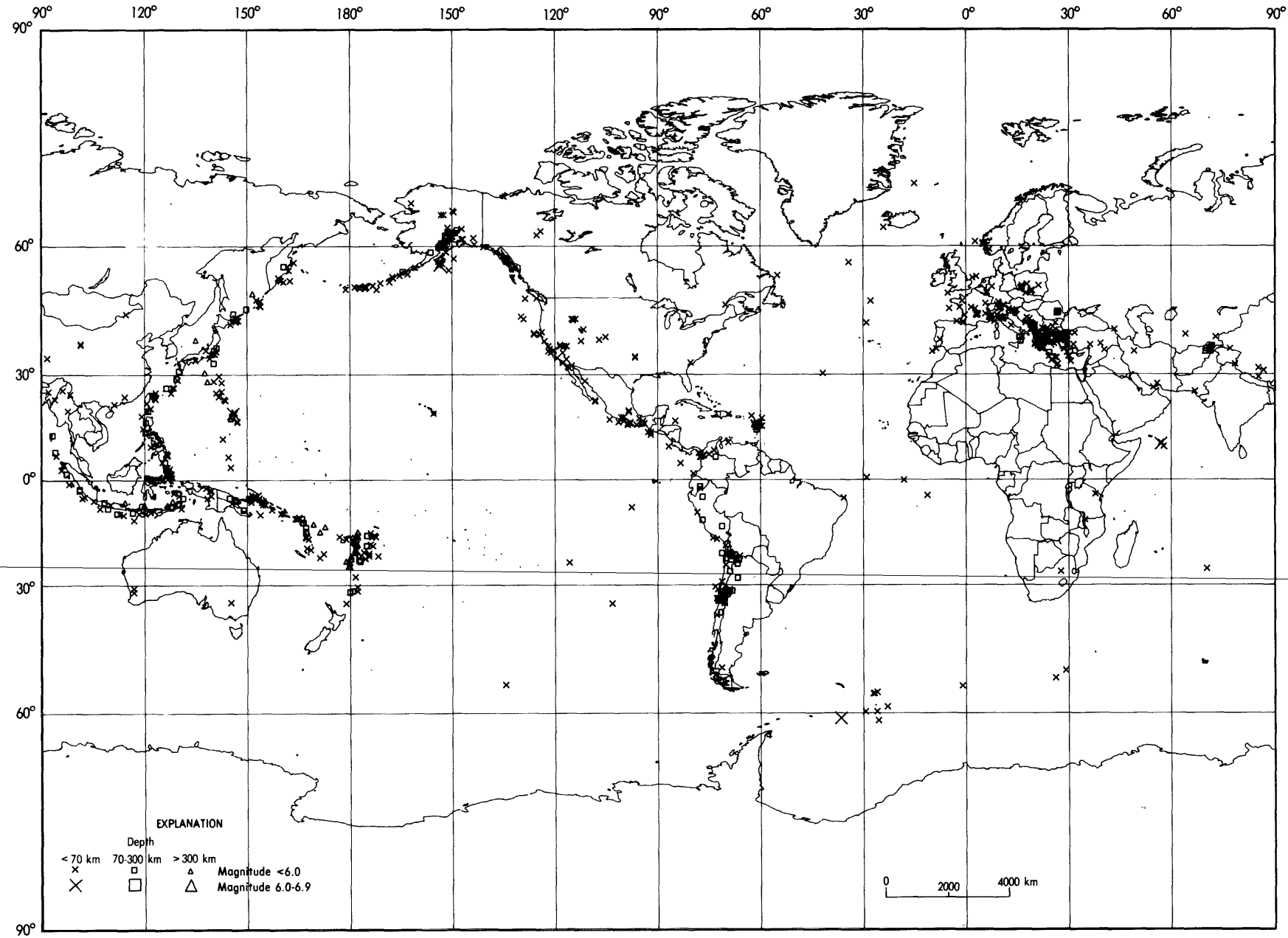




Earthquake epicenters in Alaska and adjacent regions for September, 1986 (C. Stover).



Earthquake epicenters in the conterminous United States and adjacent regions for September, 1986 (C. Stover).



Earthquakes located in September, 1986 (C. Stover).

GPO 853-012

PRELIMINARY DETERMINATION OF EPICENTERS

MONTHLY LISTING

U.S. DEPARTMENT OF THE INTERIOR / GEOLOGICAL SURVEY

National Earthquake Information Center

J U L Y 1 9 8 6

KEY	DAY	ORIGIN TIME UTC HR	MN	SEC	GEOGRAPHIC COORDINATES LAT		LONG		DEPTH		MAGNITUDES GS MB	Msz	SD	NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
a	01	00	49	07.1	15.564	S	172.452	W	33	N	5.4	5.7	1.1	144	SAMOA ISLANDS REGION. Ms 5.8 (BRK).
	01	00	58	46.0	63.318	N	149.736	W	118	?			0.2	9	CENTRAL ALASKA
	01	01	03	32.6?	15.57	S	172.95	W	33	N	4.4		1.2	19	SAMOA ISLANDS REGION
	01	01	06	46.8	15.812	S	172.718	W	33	N	5.4	5.7	1.1	138	SAMOA ISLANDS REGION
	01	02	17	01.2?	15.64	S	172.48	W	33	N	4.3		1.0	7	SAMOA ISLANDS REGION
	01	03	38	27.1?	59.38	N	6.60	E	5	G			1.5	5	SOUTHERN NORWAY. MD 2.2 (BER).
	01	04	32	10.6	6.007	N	123.953	E	558		5.2		0.8	51	MINDANAO, PHILIPPINE ISLANDS
	01	05	10	15.7	15.636	S	172.846	W	33	N	5.1	5.1	1.1	105	SAMOA ISLANDS REGION. Ms 5.2 (BRK).
	01	05	11	13.7•	52.460	S	12.912	E	10	G	5.0		1.2	13	SOUTHWEST OF AFRICA
	01	05	37	06.4&	60.135	N	152.586	W	93					27	SOUTHERN ALASKA. <AGS-P>.
a	01	06	03	09.5	4.758	S	127.989	E	33	N	5.6	5.5	1.3	103	BANDA SEA
	01	06	38	19.4	9.909	S	118.953	E	33	N	4.1		1.3	12	SUMBAWA ISLAND REGION
a	01	07	32	54.0	3.236	S	148.498	E	10	G	5.3	5.6	1.2	101	BISMARCK SEA. Ms 5.5 (BRK).
	01	08	25	40.0%	39.415	N	28.345	E	10	G			1.1	10	TURKEY
a	01	08	40	01.1	3.213	S	148.527	E	10	G	5.4	5.5	1.5	61	BISMARCK SEA
	01	08	42	14.0&	40.385	N	127.440	W	5	G				19	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.9 (BRK).
	01	08	56	40.8•	3.178	S	148.835	E	10	G	4.5		1.5	7	BISMARCK SEA
	01	09	17	16.6	3.123	S	148.684	E	10	G	4.2		0.7	8	BISMARCK SEA
	01	10	55	36.5%	39.913	N	28.820	E	10	G			0.9	5	TURKEY
	01	12	31	00.1%	38.536	N	4.113	W	0	G	1.0		1.0	5	SPAIN. Probable explosion.
	01	12	40	17.2•	5.539	S	29.028	E	33	N			1.4	9	LAKE TANGANYIKA REGION. MG 4.1 (LSZ).
	01	13	09	36.6•	14.313	N	92.828	W	10	G	4.7		1.0	29	NEAR COAST OF CHIAPAS, MEXICO
	01	13	54	11.4	36.988	N	140.014	E	41		4.3		0.8	13	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Utsunomiya and Onohama.
	01	19	26	42.6&	61.597	N	149.704	W	43					40	SOUTHERN ALASKA. <AGS-P>. ML 3.7 (PMR). Felt (III) at Anchorage and Eagle River. Felt (II) at Palmer.
	01	20	17	50.9	44.591	N	9.673	E	16				1.1	30	NORTHERN ITALY. ML 3.2 (LDG), 3.1 (TRI).
	01	20	31	00.4?	46.04	N	3.06	E	10	G			0.3	5	FRANCE. ML 1.9 (LDG).
	01	21	00	43.6?	4.54	S	130.98	E	33	N	3.4		1.1	6	BANDA SEA
	01	21	31	59.0	37.517	N	121.660	W	5	G			0.6	11	CENTRAL CALIFORNIA. ML 2.9 (BRK).
	01	22	14	01.3•	13.969	N	91.420	W	72		4.0		1.3	21	NEAR COAST OF GUATEMALA
	01	23	32	48.5•	6.273	S	145.859	E	33	N	3.2		0.9	5	PAPUA NEW GUINEA
	01	23	43	08.8•	72.534	N	2.212	E	10	G			0.6	5	NORWEGIAN SEA
	01	23	54	09.7	47.549	N	151.455	E	157	D	4.8		1.0	72	KURIL ISLANDS
	02	00	15	22.1•	28.222	N	140.723	E	33	N	4.6		0.7	10	BONIN ISLANDS REGION
a	02	01	37	33.6	0.679	S	99.966	E	90		5.3		0.9	124	SOUTHERN SUMATERA
	02	02	09	58.9	25.141	N	96.746	E	33	N	4.4		0.9	23	BURMA
	02	03	56	57.4?	38.14	N	119.14	E	33	N	4.4		1.3	8	NORTHEASTERN CHINA. ML 4.4 (BJI).
a	02	04	16	57.7	22.038	S	179.534	W	598	D	5.6		0.9	246	SOUTH OF FIJI ISLANDS. mb 6.0 (BRK).
	02	04	35	45.8•	38.370	S	15.993	W	10	G	4.8		0.8	25	TRISTAN DA CUNHA REGION
	02	08	10	21.1&	36.620	N	116.320	W	6	G				14	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.0 (PAS).
	02	08	11	03.1&	33.990	N	117.230	W	6	G				6	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	02	08	56	50.2%	31.581	S	68.107	W	10	G			1.0	6	SAN JUAN PROVINCE, ARGENTINA
	02	09	43	15.0•	41.550	N	25.284	E	10	G			1.3	8	GREECE-BULGARIA BORDER REGION
	02	10	11	40.8?	16.29	S	28.77	E	10	G			0.5	4	ZAMBIA. MG 3.6 (BUL).
a	02	10	20	25.3	7.807	S	150.640	E	29	D	5.5	4.6	1.1	106	NEW BRITAIN REGION
	02	11	59	42.3	49.590	N	16.847	E	10	G			1.4	9	CZECHOSLOVAKIA. ML 3.1 (KBA).
	02	12	42	32.6?	32.36	S	71.45	W	33	N			0.8	7	NEAR COAST OF CENTRAL CHILE
a	02	12	53	08.1	59.550	S	26.164	W	53	D	5.6		1.0	67	SOUTH SANDWICH ISLANDS REGION
	02	13	23	29.8•	44.167	N	149.166	E	47	D	4.8	4.9	1.0	43	KURIL ISLANDS
	02	13	26	34.7?	44.89	N	148.74	E	33	N	4.8		0.8	14	KURIL ISLANDS
	02	13	30	21.6•	31.339	S	68.088	W	10	G			1.4	8	SAN JUAN PROVINCE, ARGENTINA
	02	14	47	39.5•	55.360	S	33.018	W	10	G	4.7		0.2	6	SOUTH GEORGIA ISLAND REGION
a	02	20	45	50.5	26.775	S	114.283	W	10	G	5.6	5.5	1.1	134	EASTER ISLAND REGION. Ms 6.2 (BRK).
	02	22	06	42.4	50.258	N	12.393	E	10	G			0.5	6	GERMANY
	02	22	57	02.0%	40.355	N	27.685	E	10	G			0.4	7	TURKEY
a	03	00	12	14.0	59.264	S	26.934	W	33	N	5.4	4.9	1.2	47	SOUTH SANDWICH ISLANDS REGION
	03	00	41	18.6•	18.378	S	177.989	W	448	•	4.6		0.9	22	FIJI ISLANDS REGION

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	03	00	46	08.0*	18.473	S	178.111	W	450	*	5.0	1.0	31	FIJI ISLANDS REGION
	03	01	41	45.1	14.467	N	146.687	E	56	*	5.3 4.6	1.0	87	MARIANA ISLANDS
	03	01	41	57.5*	5.477	S	145.214	E	33	N	3.8	1.3	7	EAST PAPUA NEW GUINEA REGION
	03	02	51	07.8*	7.085	N	127.183	E	33	N	4.4	0.6	6	PHILIPPINE ISLANDS REGION
	03	03	17	42.7&	59.300	N	151.878	W	53				23	KENAI PENINSULA, ALASKA. <AGS-P>.
	03	04	30	01.8*	5.551	N	123.603	E	531	*	4.3	1.4	10	MINDANAO, PHILIPPINE ISLANDS
	03	04	38	21.5%	43.696	N	6.303	E	10	G		0.6	5	NEAR SOUTH COAST OF FRANCE. ML 2.2 (LDG).
	03	04	56	48.4	2.305	N	126.722	E	33	N	5.0	1.1	26	MOLUCCA PASSAGE
	03	05	00	34.7	41.462	N	141.964	E	74		4.7	1.0	35	HOKKAIDO, JAPAN REGION
	03	05	44	47.2&	62.200	N	152.093	W	112				17	CENTRAL ALASKA. <AGS-P>.
	03	06	43	35.3	6.727	S	155.844	E	44	D	4.6	0.9	27	SOLOMON ISLANDS
	03	08	33	28.0*	21.639	S	174.664	W	33	N	4.8 4.6	1.2	29	TONGA ISLANDS
	03	08	52	29.3*	51.242	N	15.652	E	5	G		1.2	12	POLAND. ML 4.3 (GRF), 3.6 (VKA), 3.5 (KBA).
	03	09	21	29.7*	15.934	S	172.731	W	33	N	4.8 4.8	1.2	28	SAMOA ISLANDS REGION
	03	09	23	51.3*	6.523	S	130.383	E	166	?	4.5	0.6	10	BANDA SEA
	03	11	41	20.0&	60.954	N	152.685	W	142				28	SOUTHERN ALASKA. <AGS-P>.
	03	11	42	31.7?	14.99	N	60.42	W	33	N		0.6	8	WINDWARD ISLANDS. ML 2.8 (FDF).
	03	11	47	33.2?	43.91	N	84.70	E	33	N	4.4	1.0	8	NORTHERN XINJIANG, CHINA
	03	12	23	50.0*	2.410	N	98.849	E	161	*	3.7	1.3	7	NORTHERN SUMATERA
	03	14	11	11.0	65.728	N	152.313	W	33	N		0.7	9	ALASKA. ML 3.4 (PMR).
	03	14	54	27.2*	36.520	N	70.956	E	246	D	4.6	0.9	14	HINDU KUSH REGION
	03	15	05	09.2?	18.09	N	100.25	W	33	N		0.7	6	GUERRERO, MEXICO
	03	15	37	36.0*	26.294	S	27.197	E	5	G	4.7	1.2	7	REPUBLIC OF SOUTH AFRICA
	03	17	33	30.5	51.502	N	175.938	W	33	N	5.0	0.9	25	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.8 (PMR). Felt on Adak and Atka.
	03	21	20	29.4%	47.208	N	1.100	E	10	G		1.4	11	FRANCE. ML 2.3 (LDG).
	03	23	18	17.9*	5.018	S	139.395	E	33	N	3.5	0.9	9	WEST IRIAN
	03	23	28	54.6	35.841	N	139.381	E	152		4.7	1.1	91	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Kumagaya, Kofu, Utsunomiya, Ajiro and on Oshimo; (I JMA) at Tokyo, Moebashi, Mito, Yokohama and Toteyama.
	04	01	20	38.4&	60.488	N	147.364	W	19				36	SOUTHERN ALASKA. <AGS-P>.
	04	02	42	24.1*	31.025	S	68.303	W	10	G		0.7	6	SAN JUAN PROVINCE, ARGENTINA
	04	05	20	31.0?	23.61	S	179.18	E	689	?	4.3	1.0	9	SOUTH OF FIJI ISLANDS
	04	05	58	48.1*	51.503	N	175.717	W	33	N	4.9	1.4	33	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.7 (PMR). Felt on Adak.
	04	06	13	54.8*	8.689	S	106.765	E	33	N	4.3	0.9	12	SOUTH OF JAVA
	04	06	28	39.4	44.526	N	9.651	E	10	G		1.2	26	NORTHERN ITALY. ML 3.2 (LDG).
	04	07	21	35.2%	39.409	N	28.301	E	10	G		0.9	6	TURKEY
	04	07	24	10.4%	40.691	N	29.917	E	10	G		1.1	9	TURKEY
	04	07	45	00.6&	61.071	N	151.357	W	63				42	SOUTHERN ALASKA. <AGS-P>.
	04	08	54	37.6	62.284	N	124.117	W	10	G	4.7 4.4	1.0	59	NORTHWEST TERRITORIES, CANADA
	04	09	23	14.5	32.397	S	70.118	W	105	*	4.5	1.1	19	CHILE-ARGENTINA BORDER REGION
	04	10	26	46.5?	33.11	S	72.94	W	10	G		0.7	8	OFF COAST OF CENTRAL CHILE
	04	11	28	22.7%	41.076	N	28.550	E	10	G		0.6	6	TURKEY
	04	12	28	03.1	20.772	S	178.654	W	626		5.1	1.0	60	FIJI ISLANDS REGION
	04	12	28	14.0*	42.690	N	24.108	E	10	G		1.4	5	BULGARIA
	04	13	21	16.1*	32.762	S	71.743	W	33	N		1.2	12	NEAR COAST OF CENTRAL CHILE
	04	13	44	48.5%	46.140	N	2.842	E	10	G		0.2	7	FRANCE. ML 2.3 (LDG).
	04	13	57	34.8*	5.367	S	145.177	E	33	N	3.6	1.3	7	EAST PAPUA NEW GUINEA REGION
	04	14	38	09.4*	10.841	N	42.613	W	10	G	4.9 4.0	1.2	21	NORTH ATLANTIC RIDGE
	04	15	04	16.2%	37.086	N	30.167	E	10	G		0.8	6	TURKEY
	04	15	23	46.9*	64.022	N	149.080	W	33	N		0.5	6	CENTRAL ALASKA. ML 3.1 (PMR).
	04	16	44	46.0*	46.310	N	13.164	E	10	G		1.2	6	AUSTRIA. ML 2.7 (KBA), MD 2.7 (TRI).
	04	19	36	52.0*	33.254	S	71.783	W	10	G		0.6	11	NEAR COAST OF CENTRAL CHILE
	04	19	55	34.7&	41.055	N	124.657	W	5	G			8	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.3 (BRK).
	04	21	33	47.7*	33.251	S	71.745	W	10	G		0.9	14	NEAR COAST OF CENTRAL CHILE
	04	21	37	20.5%	42.326	N	19.982	E	10	G		0.6	7	YUGOSLAVIA. MD 2.6 (TTG).
	04	22	18	52.3*	3.532	S	145.163	E	10	G	4.3	1.5	10	NEAR N COAST OF PAPUA NEW GUINEA
	04	22	46	09.1*	33.253	S	71.793	W	10	G		0.8	10	NEAR COAST OF CENTRAL CHILE
	04	23	51	34.6*	42.337	N	7.232	W	10	G		0.4	5	SPAIN. MG 3.5 (MDD). Felt (IV) in the Samos-Pueblo de Trives area.
	05	00	07	09.1*	21.100	S	67.767	W	33	N		1.5	7	CHILE-BOLIVIA BORDER REGION
	05	02	18	04.7	44.640	N	111.014	W	5	G		0.6	12	HEBGEN LAKE REGION. ML 3.6 (NEIS).
a	05	03	01	32.6	51.248	N	179.746	W	33	N	5.6 5.2	1.0	214	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.2 (PMR), Ms 5.1 (BRK).
	05	03	15	37.2?	51.47	N	179.96	E	33	N	4.2	1.7	11	RAT ISLANDS, ALEUTIAN ISLANDS. ML 4.6 (PMR).
	05	03	24	22.9&	35.080	N	119.090	W	18				7	CENTRAL CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
	05	06	53	52.2	63.053	N	150.426	W	119	?		0.4	9	CENTRAL ALASKA
	05	08	09	39.1*	33.278	S	71.760	W	10	G		0.8	12	NEAR COAST OF CENTRAL CHILE
	05	09	52	44.7	37.897	N	22.459	E	90		4.5	1.1	119	SOUTHERN GREECE. Felt on northern Peloponnisos.
	05	10	22	09.1	0.394	S	16.127	W	10	G	5.0	0.8	80	NORTH OF ASCENSION ISLAND
	05	10	54	53.1*	10.659	S	76.401	W	122	*	4.8	1.4	17	PERU
	05	11	44	27.1	24.604	N	125.019	E	39		4.7	0.8	24	SOUTHWESTERN RYUKYU ISLANDS. Felt (II JMA) on Miyoko-jimo.
	05	11	57	17.5&	57.134	N	154.892	W	93		4.4		54	KODIAK ISLAND REGION. <AGS-P>.
	05	13	57	46.6%	39.549	N	28.364	E	10	G		0.3	5	TURKEY
a	05	14	11	17.7	12.183	N	140.933	E	38	*	5.4 5.1	1.1	104	WEST CAROLINE ISLANDS
	05	14	11	59.8&	35.700	N	117.640	W	8				8	CENTRAL CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	05	16	35	02.8	38.847	N	0.214	W	10	G		1.4	21	SPAIN. ML 3.6 (LDG). Felt (III) in the Javea area.
	05	16	36	52.4*	9.880	N	72.916	W	33	N	4.6	1.4	6	VENEZUELA
	05	16	48	40.7	38.433	N	25.120	E	10	G		1.1	23	AEGEAN SEA. ML 3.7 (ATH).
	05	18	37	01.9%	40.741	N	30.130	E	5	G		1.5	7	TURKEY
	05	19	45	02.4*	4.440	S	143.904	E	114	?	4.2	1.4	9	PAPUA NEW GUINEA
a	05	19	57	38.6*	60.721	S	153.771	E	10	G	5.5 5.6	1.1	46	WEST OF MACQUARIE ISLAND
	05	21	13	30.8%	39.422	N	28.321	E	10	G		0.5	7	TURKEY
	05	21	19	58.8	57.281	S	25.860	W	33	N	5.5 5.2	1.1	76	SOUTH SANDWICH ISLANDS REGION
a	05	22	09	36.9	15.467	N	92.582	W	112	D	5.4	1.1	272	MEXICO-GUATEMALA BORDER REGION. Felt in southwestern Guatemala. Felt also at Tuxtla Gutierrez, Mexico.
	05	22	31	49.2&	59.967	N	141.844	W	16				22	SOUTHEASTERN ALASKA. <AGS-P>. ML 4.1 (PMR).
	05	23	24	16.6	33.325	S	70.647	W	89	*		0.4	13	CHILE-ARGENTINA BORDER REGION
	05	23	40	50.9*	32.394	S	177.666	W	33	N	4.7	1.1	12	SOUTH OF KERMADEC ISLANDS
	06	02	17	48.1*	6.353	S	122.825	E	33	N	4.6	0.8	9	FLORES SEA
	06	05	51	07.4*	29.556	S	70.817	W	33	N		1.4	13	CENTRAL CHILE

	06	06	15	51.7?	26.92	S	72.23	W	33	N			1.5	5	OFF COAST OF NORTHERN CHILE
	06	07	34	35.4&	56.176	N	149.990	W	39		4.1			51	GULF OF ALASKA. <AGS-P>.
	06	07	48	42.5	12.965	N	88.486	W	84	•	5.0		1.2	61	OFF COAST OF CENTRAL AMERICA. Felt (IV) at San Salvador, El Salvador.
	06	09	08	42.6•	10.275	S	124.783	E	33	N	4.4		1.5	7	TIMOR
	06	09	29	02.0	40.803	N	28.426	E	5	G			1.4	12	TURKEY
	06	09	45	47.6?	36.75	N	69.70	E	33	N	4.3		0.6	11	HINDU KUSH REGION
	06	10	56	06.7	21.977	S	179.305	W	589		5.1		1.0	66	FIJI ISLANDS REGION
	06	11	38	37.8	3.603	S	144.100	E	35	•	4.6		1.0	14	NEAR N COAST OF PAPUA NEW GUINEA
	06	11	57	38.0&	60.970	N	147.191	W	14					35	SOUTHERN ALASKA. <AGS-P>.
	06	16	34	37.4&	32.490	N	115.240	W	6	G				3	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.1 (PAS).
	06	17	42	59.1•	6.011	S	130.790	E	139	•	4.6		1.0	15	BANDA SEA
a	06	19	24	22.9	34.424	N	80.161	E	9	G	5.8	6.1	1.3	266	TIBET. Felt in northeastern Tibet. Depth from broadband displacement seismograms.
	06	20	15	19.8%	40.891	N	28.327	E	10	G			0.4	5	TURKEY
	06	20	21	55.3?	34.67	N	79.72	E	33	N	4.3		1.6	8	KASHMIR-TIBET BORDER REGION
	06	20	29	36.6?	34.65	N	21.81	E	33	N	3.4		1.1	5	MEDITERRANEAN SEA. ML 4.0 (ATH).
	06	20	30	02.1?	16.93	N	62.26	W	5	G			0.5	6	LEEWARD ISLANDS. ML 3.5 (FDF).
	06	20	39	59.3	34.488	N	80.032	E	33	N	4.5		1.0	20	TIBET
	06	21	40	12.2	4.341	S	143.957	E	122		5.3		1.0	63	PAPUA NEW GUINEA
	06	21	45	24.4	34.458	N	80.108	E	33	N	4.8		0.8	20	TIBET
	06	22	55	51.4•	28.762	S	176.577	W	33	N	4.8	5.0	1.2	17	KERMADEC ISLANDS REGION
	06	23	04	56.3	24.864	N	122.949	E	33	N	5.0		0.9	19	TAIWAN REGION
	07	02	07	51.9?	42.84	N	18.27	E	5	G			0.6	6	YUGOSLAVIA. ML 2.6 (TTG).
	07	02	57	10.3•	30.310	S	178.986	W	258	?	4.3		1.0	22	KERMADEC ISLANDS
	07	03	39	42.2	15.393	N	60.595	W	33	N			0.2	8	LEEWARD ISLANDS. ML 2.9 (FDF).
	07	03	49	16.8&	38.788	N	122.780	W	2					15	NORTHERN CALIFORNIA. <BRK>. ML 3.2 (BRK).
	07	04	45	28.3•	49.942	N	29.323	W	10	G	4.5	3.7	1.2	21	NORTH ATLANTIC RIDGE
	07	05	11	06.5	19.202	N	121.132	E	33	N	4.5		1.0	21	PHILIPPINE ISLANDS REGION. Felt (III RF) at Pasuquin and (I RF) at Santa.
	07	07	12	26.1&	58.794	N	153.281	W	83		4.3			50	KODIAK ISLAND REGION. <AGS-P>.
	07	08	19	13.9•	11.969	N	143.859	E	33	N	4.8		0.7	17	SOUTH OF MARIANA ISLANDS
	07	09	13	22.6&	34.150	N	117.740	W	5					8	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
	07	09	31	39.8	51.375	N	176.022	W	33	N	4.5		1.1	41	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.1 (PMR).
	07	10	30	47.4•	15.133	N	93.061	W	105		4.0		1.0	25	NEAR COAST OF CHIAPAS, MEXICO
	07	10	35	04.1	5.826	S	130.766	E	80	•	4.8		1.2	32	BANDA SEA
	07	11	29	58.3	56.416	N	153.402	W	33	N	4.4		1.1	12	KODIAK ISLAND REGION
	07	11	47	02.6	63.704	N	152.470	W	33	N			1.3	10	CENTRAL ALASKA. ML 3.1 (PMR).
	07	11	53	17.2	43.248	N	111.090	W	5	G			1.0	8	EASTERN IDAHO. ML 3.3 (NEIS).
	07	12	06	51.2•	32.062	N	141.646	E	33	N	4.1		0.5	8	SOUTH OF HONSHU, JAPAN
	07	12	15	37.3?	44.64	N	149.13	E	33	N	4.5		1.1	11	KURIL ISLANDS
	07	12	24	15.0•	13.584	N	122.777	E	33	N	3.8		1.2	11	LUZON, PHILIPPINE ISLANDS
	07	12	36	17.9%	45.104	N	27.038	E	10	G			0.8	8	ROMANIA
	07	13	27	33.2•	29.921	N	139.088	E	412	•	4.2		0.6	12	SOUTH OF HONSHU, JAPAN
	07	13	39	30.1•	5.097	S	150.733	E	243	•	4.2		0.6	9	NEW BRITAIN REGION
	07	14	17	26.0	34.830	N	33.554	E	51		4.5	3.3	1.3	72	CYPRUS. Felt at Nicosia, Larnaca and Limassol. Felt at Haifa and Qiryat Shemona, Israel.
	07	14	25	50.8•	27.149	S	67.791	W	230	?			0.6	7	CATAMARCA PROVINCE, ARGENTINA
	07	14	37	34.2•	39.379	N	25.426	E	10	G			0.8	8	AEGEAN SEA
f	07	16	26	56.6	10.389	N	56.832	E	8	G	6.4	6.2	1.2	346	CARLSBERG RIDGE. Ms 6.1 (BRK). Depth from broadband displacement seismograms.
	07	16	33	06.1	17.331	S	167.740	E	27	•	5.1		1.3	58	VANUATU ISLANDS
	07	17	50	00.7•	44.867	N	3.463	E	10	G			1.4	9	FRANCE. ML 2.8 (LDG).
	07	19	08	36.4	4.927	S	153.419	E	68		5.0		1.2	38	NEW IRELAND REGION
	07	19	33	02.8	51.585	N	16.197	E	17				0.6	31	POLAND. ML 3.9 (VKA).
	07	19	54	06.9?	17.16	N	101.05	W	33	N			1.4	6	NEAR COAST OF GUERRERO, MEXICO
	07	20	24	05.4	30.816	S	117.132	E	10	G			1.0	7	WESTERN AUSTRALIA
	07	20	54	13.6•	0.215	S	126.952	E	69	?	4.4		1.4	10	MOLUCCA SEA
	07	21	08	34.5&	60.038	N	152.991	W	107					34	SOUTHERN ALASKA. <AGS-P>.
	07	21	09	08.9	10.613	N	62.977	W	35		4.3		0.9	38	NEAR COAST OF VENEZUELA
	07	21	22	24.3	5.276	N	77.551	W	21		5.3	4.6	1.2	143	NEAR WEST COAST OF COLOMBIA
	07	22	12	47.3?	37.78	N	26.26	E	33	N			0.5	6	DODECANESE ISLANDS
	07	22	25	09.4•	8.086	S	120.876	E	196	•	4.5		0.6	11	FLORES ISLAND REGION
	07	23	18	42.2?	17.05	N	61.31	W	33	N			0.2	5	LEEWARD ISLANDS. ML 2.8 (FDF).
	07	23	44	43.5?	28.07	S	72.14	W	33	N	4.9		1.3	10	OFF COAST OF CENTRAL CHILE
	07	23	53	20.9	40.859	N	28.366	E	10	G			1.1	15	TURKEY
	08	00	06	02.5	40.830	N	28.337	E	10	G			1.4	16	TURKEY
	08	00	40	22.9&	36.080	N	121.862	W	14		4.4			38	CENTRAL CALIFORNIA. <BRK>. ML 4.4 (BRK), 3.6 (PAS). Mo=3.4•10••22 (BRK). Felt (IV) at Big Sur and (III) at Monterey. Also felt at Santa Cruz.
	08	02	19	42.0•	33.979	S	70.263	W	10	G			0.4	5	CHILE-ARGENTINA BORDER REGION
	08	04	27	34.6	1.997	N	124.305	E	245	D	5.7		1.2	199	MINAHASSA PENINSULA
	08	05	16	32.5&	48.265	N	122.516	W	61					15	WASHINGTON. <SEA-P>. CL 3.5 (SEA). Felt (V) at Lyman; (IV) at Coupeville, Freeland, Hamilton, Mukilteo, Oak Harbor and Silvana; (III) at Burlington, La Conner, Mount Vernon and Shaw Island; (II) at Lake Stevens. Also felt at Alger, Arlington, Concrete, Greenbank, Ledgewood Beach and Marysville, Washington and Victoria, British Columbia.
	08	06	59	55.8	44.106	N	10.113	E	21				0.9	30	NORTHERN ITALY. ML 3.5 (LDG).
	08	08	13	42.0	39.243	N	21.557	E	8		3.5		1.0	20	GREECE. ML 3.4 (ATH).
	08	08	34	35.4	44.112	N	10.027	E	13				1.1	32	NORTHERN ITALY. ML 3.6 (LDG), 3.2 (KBA).
f	08	09	20	44.5&	34.000	N	116.610	W	12		5.8	6.0		300	SOUTHERN CALIFORNIA. <PAS-P>. ML 6.0 (PAS). At least 29 people injured and some damage in the Palm Springs-Marango Volley area. Landslides occurred in the area. The most serious damage (VII) occured at the Devers substation of Southern California Edison Company. Also some residences in the Whitewater Canyon area were badly damaged. Preliminary estimate of damage approximately 4.5 million dollars. Damage (VI) at Angelus Oaks, Desert Hot Springs, North Palm Springs, Palm Desert, Palm Springs and Yucca Valley. Felt throughout much of southern California. Also felt at

														Las Vegas, Nevada, Lake Havasu City, Arizona and in northern Baja California, Mexico. Depth 8.5 km. from broadband displacement seismograms.
	08	09	26	25.8&	33.970	N	116.620	W	6	G			1	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
	08	09	27	10.7&	33.970	N	116.620	W	6	G			1	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
	08	09	27	50.4%	15.760	N	60.757	W	33	N		0.7	10	LEEWARD ISLANDS. ML 3.3 (PAG).
	08	09	30	23.6&	33.980	N	116.620	W	6	G			2	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
	08	09	32	20.8&	33.980	N	116.620	W	6	G			2	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	08	09	34	16.2&	33.970	N	116.620	W	6	G			2	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
	08	09	37	53.6&	34.010	N	116.600	W	2				2	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
	08	09	39	10.3&	33.980	N	116.570	W	13				3	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
	08	09	42	56.6&	33.980	N	116.650	W	6	G			5	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
	08	09	44	18.8&	33.970	N	116.620	W	6	G			2	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
	08	09	46	15.3&	34.030	N	116.640	W	10				11	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
	08	09	49	49.7&	33.990	N	116.560	W	8				16	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
	08	09	51	34.3&	33.980	N	116.580	W	3				3	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
	08	09	53	24.0&	33.980	N	116.560	W	10				3	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
	08	10	04	52.9&	33.960	N	116.580	W	5				15	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
	08	10	07	45.5&	34.030	N	116.670	W	10				6	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
	08	10	09	02.9&	33.970	N	116.580	W	8		4.3		37	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.9 (PAS), 4.2 (BRK).
	08	10	11	00.0&	34.020	N	116.670	W	3				8	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
	08	10	12	33.5&	33.970	N	116.620	W	6	G			1	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	08	10	14	41.8&	34.030	N	116.650	W	11				9	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
	08	10	22	38.0	34.051	N	116.665	W	10	G	4.2	0.8	33	SOUTHERN CALIFORNIA. ML 4.4 (PAS), 4.4 (BRK).
	08	10	27	43.7&	34.030	N	116.680	W	10				2	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
	08	10	34	14.5&	34.020	N	116.680	W	9				16	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
	08	11	24	58.4&	34.020	N	116.620	W	10				14	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
	08	11	44	10.6%	40.864	N	28.312	E	10	G		0.8	5	TURKEY
	08	11	50	41.1&	33.980	N	116.620	W	6	G			4	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
	08	12	03	38.2&	33.970	N	116.570	W	7				11	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
	08	12	32	22.6*	44.499	N	9.689	E	10	G		1.3	18	NORTHERN ITALY. ML 3.0 (LDG), 2.5 (KBA).
	08	13	12	32.7	42.162	N	25.402	E	10	G		1.3	7	BULGARIA
	08	13	55	34.6&	34.030	N	116.630	W	12				10	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	08	14	13	26.2&	33.970	N	116.620	W	6	G			3	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
	08	14	48	32.6&	33.970	N	116.620	W	6	G			7	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
	08	15	42	22.3&	34.010	N	116.610	W	10				13	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
	08	15	55	18.7	34.057	N	116.646	W	10	G		0.7	12	SOUTHERN CALIFORNIA. ML 4.0 (PAS).
	08	16	15	07.3	37.794	N	20.919	E	49		4.4	1.1	63	IONIAN SEA
	08	16	17	56.5	35.149	N	139.029	E	34		4.4	0.7	22	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Ajiro, Tokyo and an Oshima; (I JMA) at Yokohama, Kofu and Tateyama. Also felt at Mishima.
	08	16	34	16.0?	45.65	N	25.86	E	161	?		1.3	10	ROMANIA
	08	16	39	44.1&	34.000	N	116.590	W	12				15	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
	08	16	45	50.2	41.977	N	19.131	E	10			0.8	14	ALBANIA. ML 3.1 (TTG). Felt (IV) at Ulcinj, Yugoslavia.
	08	18	04	14.4&	33.970	N	116.550	W	10				11	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
	08	18	20	07.8&	34.030	N	116.650	W	9				5	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
	08	18	20	40.0*	35.136	S	106.537	W	10	G	4.8	1.0	20	EASTER ISLAND CORDILLERA
	08	18	47	27.3&	59.744	N	153.414	W	128				31	SOUTHERN ALASKA. <AGS-P>.
	08	18	55	56.5&	33.980	N	116.570	W	8				6	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
	08	19	32	20.6%	17.930	N	99.185	W	10	G		1.3	5	GUERRERO, MEXICO
	08	19	33	28.3?	7.83	S	129.10	E	146	?		1.4	9	BANDA SEA
	08	19	35	36.4?	37.28	N	6.70	E	10	G		0.9	8	WESTERN MEDITERRANEAN SEA
	08	19	36	20.1&	34.010	N	116.620	W	11				17	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.9 (PAS).
	08	19	48	29.9*	29.949	S	71.816	W	10	G		1.0	11	NEAR COAST OF CENTRAL CHILE. Felt (II) in the La Serena-Coquimbo area.
	08	20	34	26.3	43.818	N	146.397	E	80		5.0	0.9	123	KURIL ISLANDS. Felt (III) on Shikotan. Felt (II JMA) at Nemuro and Kushira; (I JMA) at Urakawa, Hokkaida.
	08	21	53	03.1&	34.010	N	116.590	W	11				9	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	08	22	25	29.6?	27.48	S	65.25	W	33	N		0.4	5	TUCUMAN PROVINCE, ARGENTINA
	08	23	18	35.5?	3.70	N	125.54	E	33	N	4.5	0.8	9	TALAUD ISLANDS
	08	23	24	05.5	8.030	S	123.059	E	233	*	4.5	0.6	14	FLORES ISLAND REGION
	09	00	12	32.1&	33.990	N	116.570	W	6		4.2		30	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.4 (PAS), 4.1 (BRK).
	09	00	24	35.2*	4.042	S	142.294	E	118	*	4.6	1.3	14	PAPUA NEW GUINEA
	09	03	08	12.6?	24.76	S	179.66	W	536	?	4.7	0.6	11	SOUTH OF FIJI ISLANDS
	09	03	36	11.6?	16.46	S	179.41	W	615	*		0.5	9	FIJI ISLANDS REGION
	09	03	53	39.8	51.400	N	175.152	W	33	N	4.5	1.0	24	ANDREANOF ISLANDS, ALEUTIAN IS. ML 3.8 (PMR).
	09	04	52	47.3%	15.827	N	60.834	W	33	N		0.5	10	LEEWARD ISLANDS. ML 2.8 (FDF).
	09	05	26	00.8	21.906	S	68.899	W	175	*	4.7	1.3	13	CHILE-BOLIVIA BORDER REGION
	09	06	11	10.8?	17.69	N	105.55	W	10	G	4.6	1.3	21	OFF COAST OF JALISCO, MEXICO
	09	07	37	36.8?	8.77	S	122.70	E	136	?	4.1	1.5	6	FLORES ISLAND REGION
	09	09	36	37.0&	33.960	N	116.520	W	6				6	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
	09	09	41	21.0&	33.970	N	116.570	W	10				20	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
	09	09	54	11.0*	6.303	S	146.954	E	113	*	4.8	0.8	13	EAST PAPUA NEW GUINEA REGION
	09	11	03	30.9?	8.81	S	29.64	E	10	G		1.6	5	LAKE TANGANYIKA REGION
	09	11	23	43.4*	4.067	N	126.555	E	82	*	4.8	1.1	12	TALAUD ISLANDS
	09	11	32	21.1&	33.980	N	116.570	W	10				20	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
	09	12	28	09.1&	19.552	N	155.999	W	20		4.2		60	HAWAII. <HVO-P>. ML 4.6 (HVO). Felt (IV) at Captain Cook, Kealakekua and Napoopoo. Felt (III) at Seaview and (II) at Pahala.
	09	12	53	59.7&	37.565	N	118.435	W	4				10	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.4 (REN). Felt at Chalfant, California.
	09	13	28	31.4?	59.36	N	6.54	E	5	G		1.1	5	SOUTHERN NORWAY. MD 2.2 (BER).
	09	13	58	57.8	56.010	S	27.525	W	134	D	5.1	0.7	20	SOUTH SANDWICH ISLANDS REGION
a	09	17	10	22.8	51.907	N	176.239	W	50	D	5.2 4.9	1.0	190	ANDREANOF ISLANDS, ALEUTIAN IS. Ms 4.9 (BRK). Felt (IV) on Adak and Atka.
	09	17	15	13.3*	21.118	S	67.731	W	33	N		1.8	7	CHILE-BOLIVIA BORDER REGION
	09	18	41	38.5%	40.837	N	28.313	E	10	G		0.2	6	TURKEY
	09	19	17	02.5?	40.26	N	30.71	E	10	G		1.4	6	TURKEY
	09	19	24	07.2	27.660	S	67.728	W	147		4.4	1.2	30	CATAMARCA PROVINCE, ARGENTINA
	09	20	09	38.3*	14.002	S	167.129	E	33	N	4.7	1.3	29	VANUATU ISLANDS
a	09	20	24	51.9	51.683	N	176.868	W	57		4.9	0.7	98	ANDREANOF ISLANDS, ALEUTIAN IS. Felt on Adak and Atka.
	09	22	19	52.2*	17.205	N	97.853	W	69		4.3	1.1	23	OAXACA, MEXICO
	09	22	46	06.3	47.638	N	5.521	E	11			1.0	23	FRANCE. ML 3.2 (LDG).

f	09	23	10	53.1	1.904	N	126.525	E	28	G	6.2	6.5	1.1	352	MOLUCCA PASSAGE. Ms 6.4 (BRK). Felt (IV) at Manado, Sulawesi. Depth from broadband displacement seismograms.
	10	00	52	42.6	39.410	N	28.393	E	10	G			0.8	13	TURKEY
	10	01	03	52.1•	1.725	N	126.332	E	33	N	4.4		1.5	10	MOLUCCA PASSAGE
	10	01	15	29.9	27.580	N	101.498	E	33	N	4.8		1.1	48	SICHUAN PROVINCE, CHINA
	10	01	29	35.8	1.792	N	126.387	E	33	N	5.6	5.9	1.3	182	MOLUCCA PASSAGE
	10	02	10	45.0	36.233	N	140.509	E	84		4.5		1.1	50	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Onahama and Mito; (II JMA) at Utsunomiya and on Oshima; (I JMA) in the Ajiro-Chashi-Sendai area.
	10	02	43	53.4•	38.356	N	25.174	E	10	G			0.6	6	AEGEAN SEA. ML 3.0 (ATH).
	10	02	53	18.5	1.809	N	126.478	E	33	N	5.0		1.2	48	MOLUCCA PASSAGE
	10	03	37	13.7	1.825	N	126.548	E	33	N	4.9		1.1	33	MOLUCCA PASSAGE
	10	04	01	28.8	36.827	N	121.598	W	5	G			0.6	12	CENTRAL CALIFORNIA. ML 2.9 (BRK).
	10	04	24	42.7&	40.688	N	124.752	W	5	G				4	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.1 (BRK).
	10	05	02	20.4•	5.515	S	29.019	E	10	G	5.0		1.5	6	LAKE TANGANYIKA REGION
	10	05	07	17.3•	5.453	N	74.154	W	5	G			0.9	5	COLOMBIA
	10	05	43	16.6	8.954	S	124.295	E	33	N	4.9		1.3	28	TIMOR
a	10	06	53	04.3	4.275	N	32.618	W	10	G	5.4	5.0	0.8	128	CENTRAL MID-ATLANTIC RIDGE
	10	07	10	44.3	1.876	N	126.560	E	33	N	5.0		1.5	26	MOLUCCA PASSAGE
	10	07	14	42.5•	58.883	S	25.344	W	33	N	4.8		1.1	14	SOUTH SANDWICH ISLANDS REGION
	10	07	49	25.4•	67.284	N	160.731	W	33	N			1.0	6	ALASKA. ML 3.1 (PMR).
	10	08	53	53.1%	40.101	N	29.305	E	10	G			0.3	7	TURKEY
	10	09	42	10.7&	33.980	N	116.630	W	2					8	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	10	09	43	16.3•	67.269	N	160.733	W	33	N			1.1	6	ALASKA. ML 3.0 (PMR).
	10	09	50	58.1?	3.95	N	32.77	W	10	G	4.5		1.0	8	CENTRAL MID-ATLANTIC RIDGE
	10	12	02	50.9&	33.960	N	116.600	W	11					17	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS). Felt (V) at North Palm Springs, Palm Desert, Palm Springs and Whitewater.
	10	16	00	00.5&	49.610	N	122.450	W	8					24	BRITISH COLUMBIA. <PGC-P>. ML 3.3 (PGC), 3.8 (NEIS). Felt at Burnaby, Port Coquitlam, North Vancouver and Vancouver.
	10	16	13	19.3•	28.201	N	140.649	E	33	N	5.0	4.8	1.3	24	BONIN ISLANDS REGION
a	10	18	35	04.9	19.895	S	175.776	W	233	D	5.3		1.1	117	TONGA ISLANDS
	10	18	43	53.8	43.739	N	18.152	E	10	G			1.3	10	YUGOSLAVIA. ML 2.9 (TTG).
	10	18	57	17.2	38.376	N	45.114	E	33	N	4.7	3.7	1.5	24	N.W. IRAN-USSR BORDER REGION
	10	19	22	58.2•	41.935	N	22.964	E	10	G			1.4	5	YUGOSLAVIA
	10	19	44	21.1	1.057	S	126.869	E	33	N	5.1		1.2	35	MOLUCCA SEA
	10	20	36	23.5•	36.948	S	177.122	E	253	•	5.0		1.2	32	OFF E. COAST OF N. ISLAND, N.Z.
	10	20	52	43.4&	40.483	N	124.703	W	14					9	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.4 (BRK).
	10	21	20	26.5%	39.422	N	28.367	E	10	G			0.8	8	TURKEY
	10	22	10	13.6	26.294	S	132.600	E	10	G			1.2	11	SOUTH AUSTRALIA
	10	23	47	22.1&	33.970	N	116.660	W	9					5	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	10	23	56	04.1?	43.73	N	146.18	E	92	•	4.2		0.5	6	KURIL ISLANDS. Felt (I JMA) at Nemuro, Hokkaido.
	11	00	13	07.8	32.110	N	141.712	E	33	N	4.8	4.6	0.9	30	SOUTH OF HONSHU, JAPAN
	11	00	22	44.4?	36.41	N	70.32	E	33	N	4.4		1.2	6	HINDU KUSH REGION
	11	00	23	26.4•	1.634	N	126.618	E	33	N	4.5		1.4	11	MOLUCCA PASSAGE
	11	01	28	53.5&	62.322	N	150.254	W	68					33	CENTRAL ALASKA. <AGS-P>.
	11	02	11	22.8	81.120	N	120.882	E	10	G	4.5		0.9	24	EAST OF SEVERNAYA ZEMLYA
	11	02	39	55.7•	5.048	S	81.809	W	81	D	4.6		1.4	17	NEAR COAST OF NORTHERN PERU
	11	02	40	34.1•	1.883	N	126.691	E	33	N	4.7		1.2	8	MOLUCCA PASSAGE
	11	03	07	20.9•	4.665	S	144.127	E	124	•	4.5		1.2	18	NEAR N COAST OF PAPUA NEW GUINEA
a	11	07	17	59.0	26.079	S	132.736	E	10	G	5.6	5.3	1.0	100	SOUTH AUSTRALIA
	11	07	48	14.0&	34.000	N	116.570	W	11					5	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
	11	08	00	28.6	10.569	N	63.262	W	33	N	4.8		1.3	50	NEAR COAST OF VENEZUELA. Felt at Guiria, Irapa and El Pilar.
a	11	08	27	46.4	45.987	S	166.334	E	32	•	5.4	5.6	1.3	89	OFF W. COAST OF S. ISLAND, N.Z. Felt at Christchurch and Invercargill.
	11	08	51	28.7&	33.970	N	116.580	W	5					13	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	11	09	16	51.2•	4.283	S	127.035	E	284	?	4.7		1.2	16	BANDA SEA
	11	11	13	02.6•	38.749	N	21.348	E	10	G			1.7	6	GREECE
	11	12	00	04.0?	43.42	N	20.83	E	10	G			1.7	7	YUGOSLAVIA. ML 2.3 (TTG).
	11	13	22	18.1%	40.116	N	29.265	E	10	G			1.3	6	TURKEY
	11	13	24	54.6%	40.108	N	29.256	E	10	G			1.1	5	TURKEY
	11	14	26	14.4	34.946	N	84.971	W	5	G	3.7		0.8	30	GEORGIA. mbLg 3.8 (NEIS). Slight damage (VI) at Cohutta, Georgia. Felt (V) at Chattanooga, Tennessee and Tunnel Hill, Georgia. Felt (IV) at Apison, Bentan, Charleston, Collegedale, East Ridge, Ocoee and Ooltewah, Tennessee. Also felt (IV) at Blue Ridge, Cisco, Crandall, Fort Oglethorpe, Ringgald, Rocky Face and Varnell, Georgia. Felt in southeastern Tennessee and northwestern Georgia.
	11	15	11	20.5•	2.169	S	139.136	E	33	N	4.7		1.2	11	NEAR N. COAST OF WEST IRIAN
	11	15	13	30.6&	34.030	N	116.660	W	10					17	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
	11	15	20	50.9•	2.167	S	139.112	E	33	N	4.7		1.5	17	NEAR N. COAST OF WEST IRIAN
	11	15	33	20.5•	2.070	S	139.121	E	33	N	4.4		0.5	6	NEAR N. COAST OF WEST IRIAN
	11	15	59	51.9&	34.020	N	116.620	W	10					6	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	11	16	56	41.2•	44.315	S	167.400	E	33	N	4.2		0.9	5	SOUTH ISLAND, NEW ZEALAND
a	11	17	02	03.9	24.329	N	126.899	E	33	N	5.3	5.1	1.0	87	RYUKYU ISLANDS
	11	17	32	45.9•	34.471	S	72.258	W	33	N	4.4		1.4	13	NEAR COAST OF CENTRAL CHILE
	11	18	12	31.5&	34.020	N	116.670	W	11					5	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
	11	18	24	01.0&	60.975	N	151.594	W	77					23	KENAI PENINSULA, ALASKA. <AGS-P>.
	11	19	54	15.3%	46.517	N	2.402	E	10	G			0.2	11	FRANCE. ML 2.7 (LDG).
	11	20	02	52.8	38.808	N	122.728	W	5	G			0.8	8	NORTHERN CALIFORNIA. ML 2.8 (BRK).
	11	20	12	31.2•	7.566	N	78.184	W	33	N			1.5	8	PANAMA. MG 3.8 (UPA).
	11	20	22	38.4•	2.279	S	138.931	E	33	N			0.5	10	WEST IRIAN
	11	20	42	27.6•	46.793	N	143.488	E	215	?	4.2		0.5	29	SAKHALIN ISLAND
	11	20	48	03.9•	18.724	N	120.853	E	33	N	4.0		1.2	12	LUZON, PHILIPPINE ISLANDS. Felt (II RF) at Pasuquin.
	11	21	02	32.7•	47.987	N	26.718	E	10	G			1.5	12	ROMANIA
	11	21	28	50.9	34.292	N	118.284	W	5	G			0.4	8	SOUTHERN CALIFORNIA. ML 3.0 (PAS). Felt (IV) at Pacoima and Sierra Madre. Also felt at Burbank, Canyan Country and Glendale.
	11	22	17	45.2•	33.431	S	71.704	W	10	G			0.8	9	NEAR COAST OF CENTRAL CHILE

	11	23	03	33.0	43.182	S	172.258	E	33	N	4.6	1.4	21	SOUTH ISLAND, NEW ZEALAND. Felt at Christchurch.
	12	00	29	54.8?	35.96	N	71.09	E	33	N		0.2	5	PAKISTAN
	12	00	32	20.0	38.749	N	24.884	E	10	G		1.1	19	AEGEAN SEA. ML 3.2 (ATH).
	12	01	15	50.8&	62.184	N	151.107	W	72				29	CENTRAL ALASKA. <AGS-P>.
	12	04	30	15.1	9.283	N	124.112	E	543		4.9	0.9	30	MINDANAO, PHILIPPINE ISLANDS
	12	05	25	27.5?	35.42	N	3.46	W	10	G		0.8	8	STRAIT OF GIBRALTAR
	12	05	45	27.5&	33.990	N	116.650	W	6				28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.9 (PAS).
	12	06	17	53.7•	37.540	N	20.273	E	27	•	3.7	1.3	21	IONIAN SEA. ML 4.2 (ATH).
a	12	07	54	26.8	29.962	N	51.582	E	10	G	5.7 5.6	1.2	272	SOUTHERN IRAN. One person killed, four injured and about 300 homes damaged in the Mamasani area. Felt at Shiraz.
	12	08	04	45.6	37.520	N	121.660	W	5	G		0.6	10	CENTRAL CALIFORNIA. ML 2.6 (BRK).
	12	08	12	21.4•	2.147	S	139.118	E	57	?	4.6	0.7	15	NEAR N. COAST OF WEST IRIAN
	12	08	19	37.9	40.537	N	84.371	W	10	G	4.5	0.8	43	OHIO. Slight damage (VI) at Anna, Lima, Minster, New Bremen and St. Marys. Felt in much of Ohio and in parts of Michigan, Indiana, Kentucky and West Virginia.
	12	09	06	56.1	1.858	N	127.414	E	109	•	5.1	1.1	37	HALMAHERA
a	12	10	17	25.5	5.575	N	125.406	E	88		5.3	1.3	112	MINDANAO, PHILIPPINE ISLANDS
	12	10	29	32.8	32.461	N	30.507	E	21	•	4.0	1.2	15	EASTERN MEDITERRANEAN SEA. ML 4.0 (JER). Felt in northern Israel.
	12	12	19	37.5•	46.414	N	12.733	E	10	G		0.5	5	NORTHERN ITALY
	12	12	24	43.9%	42.809	N	19.150	E	10	G		0.8	7	YUGOSLAVIA. ML 2.3 (TTG).
	12	13	36	02.4•	26.406	S	175.628	W	33	N	4.8	1.1	10	SOUTH OF TONGA ISLANDS
	12	15	06	30.5•	17.994	N	99.562	W	10	G		0.9	8	GUERRERO, MEXICO
a	12	16	05	14.2	1.845	N	126.404	E	40	•	5.3 5.4	1.3	133	MOLUCCA PASSAGE
	12	16	56	02.3&	34.080	N	116.530	W	4				6	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
	12	17	00	53.1	38.438	N	45.164	E	36	•	4.8	1.0	60	N.W. IRAN-USSR BORDER REGION
	12	17	28	30.7&	34.030	N	116.680	W	9				19	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
	12	17	31	40.7•	29.926	N	51.658	E	33	N	4.5	1.1	20	SOUTHERN IRAN
	12	18	47	10.2•	36.124	N	121.877	W	10	G		0.8	10	CENTRAL CALIFORNIA. ML 2.5 (BRK).
	12	20	11	21.7?	42.94	N	18.15	E	10	G		1.1	8	YUGOSLAVIA. ML 2.5 (TTG).
	12	20	54	26.0•	4.913	N	127.429	E	136	?	4.3	1.1	12	TALAUD ISLANDS
	12	22	43	17.3?	20.34	S	71.43	W	33	N		1.3	6	OFF COAST OF NORTHERN CHILE
	12	23	00	42.4•	41.500	N	5.564	W	10	G		1.5	10	SPAIN. MG 3.2 (MDD). Felt (IV) in the Zamora area.
	12	23	22	47.5•	2.400	N	128.306	E	33	N	4.7	0.7	11	HALMAHERA
	13	00	04	08.1	43.325	N	20.884	E	10	G		1.2	9	YUGOSLAVIA. MG 3.3 (SKO).
	13	00	48	45.5	29.986	N	51.520	E	10	G	4.9 4.6	1.1	145	SOUTHERN IRAN. Additional damage to homes in the Mamasani area.
	13	01	13	14.9•	65.721	N	152.274	W	33	N		0.3	5	ALASKA. ML 3.0 (PMR).
	13	01	14	22.4	40.727	N	23.314	E	10	G		0.3	7	GREECE
	13	01	41	38.2&	33.950	N	116.620	W	11				21	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
	13	03	54	40.5&	62.254	N	150.228	W	11				39	CENTRAL ALASKA. <AGS-P>. ML 3.9 (PMR). Felt at Big Lake, Palmer and Talkeetna.
	13	03	58	02.5?	62.22	N	150.29	W	10	G		0.6	4	CENTRAL ALASKA. ML 3.0 (PMR). Felt at Talkeetna.
	13	07	25	57.6%	40.114	N	29.282	E	10	G		0.6	7	TURKEY
f	13	09	12	10.7	16.061	N	93.901	W	80	G	5.9	1.3	302	CHIAPAS, MEXICO. Depth from broadband displacement seismograms.
	13	09	18	04.7•	14.584	N	93.974	W	33	N	4.7	0.7	19	NEAR COAST OF CHIAPAS, MEXICO
	13	09	45	30.2•	24.896	S	179.628	E	470	•	4.4	0.8	26	SOUTH OF FIJI ISLANDS
	13	10	14	38.1	28.177	S	71.064	W	60		5.4	1.1	100	NEAR COAST OF CENTRAL CHILE
	13	10	26	07.1	0.607	S	77.957	W	5	G	4.9	1.1	36	ECUADOR. Felt (III) at Quito and Cotacachi.
	13	11	25	34.9&	32.650	N	117.140	W	10	G			5	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.0 (PAS).
a	13	13	47	08.2&	32.970	N	117.870	W	10		5.6 5.8		268	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 5.3 (PAS). Twenty nine people injured, one critically and at least 50 buildings damaged in the Newport Beach-San Diego area. Preliminary estimate of damage 720 thousand dollars. Also some damage reported in the Tijuana area, Mexico. A small landslide occurred near Lakeside in eastern San Diego County. Felt throughout the coastal area of southern California, from Santa Barbara to San Diego, east to Palm Springs and as far as Yuma, Arizona.
	13	13	53	27.9&	32.970	N	117.820	W	6	G			7	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.9 (PAS).
	13	13	58	52.5&	33.070	N	117.710	W	6	G			6	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
	13	14	01	33.0&	32.990	N	117.850	W	12		4.8		39	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 4.6 (PAS).
	13	14	02	52.0&	33.010	N	117.840	W	12				1	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	13	14	11	01.0&	32.970	N	117.790	W	10				18	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.7 (PAS).
	13	14	11	54.6&	32.970	N	117.780	W	10				1	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.1 (PAS).
	13	14	26	01.5&	32.960	N	117.780	W	12				14	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.6 (PAS).
	13	14	34	25.4	44.563	N	9.665	E	10	G		0.7	24	NORTHERN ITALY. ML 3.1 (LDG).
	13	14	44	41.7&	32.980	N	117.780	W	10				7	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.1 (PAS).
	13	15	27	08.0&	32.960	N	117.730	W	12				16	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.3 (PAS).
	13	15	50	05.2&	32.880	N	117.740	W	12				16	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.7 (PAS).
	13	15	52	09.9&	32.990	N	117.770	W	10				7	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.1 (PAS).
	13	16	10	18.1&	32.960	N	117.790	W	12				9	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.2 (PAS).
	13	16	18	33.1	44.567	N	9.627	E	10	G		0.8	24	NORTHERN ITALY. ML 3.0 (LDG).
	13	16	37	01.5&	32.960	N	117.780	W	12				8	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.1 (PAS).
	13	18	11	14.1•	8.625	S	127.613	E	33	N	4.9	1.3	10	TIMOR
	13	18	56	04.1•	26.829	S	177.616	W	106	?	4.8	1.4	12	SOUTH OF FIJI ISLANDS
	13	19	02	41.6	3.114	S	77.603	W	118	•	4.6	1.1	43	PERU-ECUADOR BORDER REGION
	13	19	13	08.0?	30.75	S	69.60	W	33	N		0.6	6	CHILE-ARGENTINA BORDER REGION
	13	19	42	46.2	30.100	N	51.727	E	10	G	4.5	1.3	43	IRAN
	13	20	10	33.7%	40.572	N	30.038	E	10	G		0.8	9	TURKEY
	13	20	42	44.4?	12.91	S	34.33	E	10	G		1.7	5	MALAWI. MG 3.3 (BUL).
	13	21	03	54.8?	7.33	S	128.75	E	119	?	4.6	0.8	7	BANDA SEA
	13	21	36	30.5%	40.620	N	30.086	E	10	G		1.3	10	TURKEY
	13	23	25	13.5&	32.960	N	117.750	W	12				15	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.4 (PAS).
	13	23	53	42.9&	32.960	N	117.770	W	6				19	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.6 (PAS).
	14	00	32	46.2&	32.970	N	117.800	W	10		4.0		28	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 4.0 (PAS).
	14	01	11	10.3&	32.950	N	117.840	W	10				18	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.7 (PAS).
	14	01	30	16.1?	28.74	S	70.26	W	33	N		0.4	6	CENTRAL CHILE
	14	01	43	30.6&	34.000	N	116.590	W	10				6	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
	14	02	24	48.5	42.382	N	19.888	E	10	G		0.5	9	YUGOSLAVIA. ML 2.7 (TTG).

	14	02	25	34.1*	42.317	N	19.986	E	10	G		0.5	8	YUGOSLAVIA. ML 2.9 (TTG).
	14	03	18	31.2	10.641	N	63.215	W	33	N		1.5	14	NEAR COAST OF VENEZUELA. ML 4.6 (FDF). Felt at Irapa, El Pilar, Yuguaraparo and Tunapuy.
	14	03	20	43.5	10.758	N	63.228	W	33	N	4.6	0.9	26	NEAR COAST OF VENEZUELA. ML 4.8 (FDF).
	14	03	39	32.6*	39.481	N	25.179	E	10	G		1.1	7	AEGEAN SEA
	14	04	10	37.6?	16.29	N	98.71	W	33	N		0.9	7	NEAR COAST OF GUERRERO, MEXICO
	14	04	29	09.1&	60.633	N	151.879	W	69				32	KENAI PENINSULA, ALASKA. <AGS-P>.
	14	04	32	52.0	7.503	S	128.347	E	180		5.0	1.1	59	BANDA SEA
	14	05	36	44.9&	32.960	N	117.830	W	6				12	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.4 (PAS).
	14	06	34	44.5	9.656	S	72.433	W	33	N	4.9	1.2	23	PERU-BRAZIL BORDER REGION
	14	06	35	42.5*	17.543	N	105.566	W	33	N	4.5	1.1	39	OFF COAST OF JALISCO, MEXICO
	14	06	37	15.8&	59.872	N	152.661	W	77				28	SOUTHERN ALASKA. <AGS-P>.
	14	07	17	35.4&	32.960	N	117.810	W	10				21	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.6 (PAS).
	14	07	52	17.5	4.812	S	144.625	E	93		4.8	1.1	16	NEAR N COAST OF PAPUA NEW GUINEA
	14	08	21	57.1	44.575	N	7.150	E	10	G		0.4	7	NORTHERN ITALY. ML 2.5 (LDG).
	14	09	07	54.0&	32.960	N	117.820	W	10				18	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.6 (PAS).
	14	09	07	58.5*	6.633	N	94.428	E	33	N	4.1	1.3	9	NICOBAR ISLANDS REGION
	14	10	36	40.1	35.990	S	144.238	E	10	G		0.1	6	NEW SOUTH WALES, AUSTRALIA. ML 3.3 (STK).
	14	12	02	30.9	2.142	S	138.926	E	39	*	5.0	1.1	33	WEST IRIAN
	14	13	50	31.5	58.365	N	13.818	E	10	G		1.2	41	SWEDEN. ML 4.8 (NAO), 4.1 (UPP). MD 3.9 (BER). Felt in the Huskvarna-Mariestad area.
	14	14	44	08.7&	32.970	N	117.820	W	10				15	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.7 (PAS).
	14	14	45	27.3*	58.282	N	13.878	E	10	G		1.2	9	SWEDEN. ML 3.4 (NAO), 3.0 (UPP). MD 3.1 (BER). Felt in the Huskvarna-Mariestad area.
	14	16	20	09.9&	33.000	N	117.840	W	10				12	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
	14	17	14	43.1&	32.980	N	117.770	W	10				13	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.4 (PAS).
	14	18	26	55.0*	12.230	N	144.245	E	45	*	4.1	0.9	10	SOUTH OF MARIANA ISLANDS
	14	19	41	06.3?	41.33	S	88.09	W	10	G	4.8 4.8	1.3	16	WEST CHILE RISE
a	14	20	14	50.3	12.293	N	143.931	E	27		5.3 5.0	1.3	91	SOUTH OF MARIANA ISLANDS
	14	21	05	34.4*	33.224	S	70.300	W	117	?		0.3	11	CHILE-ARGENTINA BORDER REGION
	14	21	23	09.8&	32.950	N	117.770	W	10				7	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.1 (PAS).
	14	22	58	50.2&	32.960	N	117.800	W	10				7	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.0 (PAS).
	14	23	28	19.2	40.286	N	26.112	E	10	G		0.8	7	TURKEY
	14	23	35	45.7?	28.18	N	140.68	E	33	N		0.9	8	BONIN ISLANDS REGION
	15	02	23	26.8?	12.78	N	57.85	E	10	G	4.5	0.7	18	ARABIAN SEA
	15	02	53	37.7?	23.77	S	175.56	W	33	N	4.6	1.5	9	TONGA ISLANDS REGION
	15	03	15	40.0%	39.157	N	28.761	E	10	G		0.1	5	TURKEY
	15	03	17	40.3&	34.000	N	116.900	W	11				5	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	15	03	48	35.3	37.539	N	118.609	W	5	G		0.5	21	CALIFORNIA-NEVADA BORDER REGION. ML 3.0 (BRK), 3.4 (PAS).
	15	05	46	51.5?	32.51	S	71.57	W	33	N		1.2	15	NEAR COAST OF CENTRAL CHILE
	15	06	00	25.3	37.850	S	74.675	W	33	N	5.1	1.2	62	OFF COAST OF CENTRAL CHILE
	15	09	16	33.6*	60.357	S	52.778	W	10	G	5.0	1.3	19	SOUTH SHETLAND ISLANDS
	15	09	32	35.3	38.762	N	75.010	E	33	N	4.7	0.9	24	SOUTHERN XINJIANG, CHINA
	15	10	15	01.4*	14.427	S	167.330	E	33	N	4.3	1.2	25	VANUATU ISLANDS
	15	11	39	38.4?	54.25	N	155.43	E	33	N	4.7	1.1	21	KAMCHATKA
	15	11	51	05.5*	31.807	S	68.185	W	33	N		1.6	6	SAN JUAN PROVINCE, ARGENTINA
	15	14	28	13.0	28.036	S	66.714	W	173		5.0	1.3	31	CATAMARCA PROVINCE, ARGENTINA
	15	14	39	35.2	1.954	N	126.499	E	43	*	4.8	1.1	36	MOLUCCA PASSAGE
	15	15	02	45.3&	32.950	N	117.760	W	10				7	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.1 (PAS).
	15	15	03	03.6*	12.073	S	40.774	E	10	G	4.8	1.2	12	MOZAMBIQUE
	15	15	15	52.0	36.606	N	22.993	E	104	*	3.9	1.0	34	SOUTHERN GREECE
	15	18	32	14.5&	33.980	N	116.640	W	6				8	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
	15	18	45	35.3*	66.824	N	13.174	E	10	G		0.7	8	NORTHERN NORWAY. ML 3.4 (NAO), MD 3.4 (BER). Felt.
	15	19	20	18.5?	11.54	N	85.75	W	169	*	4.0	0.6	11	NICARAGUA
	15	19	20	56.1	17.752	S	73.898	W	33	N		1.4	20	OFF COAST OF PERU
	15	23	12	58.3	44.484	N	6.965	E	10	G		0.8	7	FRANCE. ML 2.3 (LDG).
	15	23	35	17.8*	31.556	N	137.955	E	374	*	4.3	0.9	21	SOUTH OF HONSHU, JAPAN
	15	23	46	52.3	38.379	N	25.076	E	10	G		1.2	17	AEGEAN SEA. ML 3.2 (ATH).
	15	23	57	07.6*	34.921	N	26.826	E	33	N	3.9	1.4	15	CRETE
	16	00	38	16.6&	60.062	N	153.127	W	106				17	SOUTHERN ALASKA. <AGS-P>.
	16	02	19	49.6*	8.002	S	105.988	E	33	N	4.6	1.5	15	SOUTH OF JAVA
	16	03	40	19.2*	27.686	S	70.966	W	33	N		1.4	15	NEAR COAST OF NORTHERN CHILE
	16	03	49	16.5?	44.23	N	10.15	E	10	G		0.7	5	NORTHERN ITALY
	16	05	20	51.2&	32.980	N	117.770	W	10				8	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.2 (PAS).
	16	06	59	00.1	37.266	N	32.053	W	10	G	4.6 4.5	0.7	31	AZORES ISLANDS REGION
	16	07	00	11.8%	35.074	N	137.252	E	33	N		0.4	5	HONSHU, JAPAN. Felt (I JMA) at Iida, Gifu and Nagoya.
	16	07	08	57.6&	31.950	N	115.620	W	6	G			8	BAJA CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	16	09	33	42.8?	44.26	N	7.65	E	10	G		0.3	5	NORTHERN ITALY. ML 2.6 (LDG).
f	16	12	41	28.3	19.511	S	169.165	E	111	G	6.2	1.2	390	VANUATU ISLANDS. Depth from broadband displacement seismograms.
	16	12	47	01.5&	32.950	N	117.820	W	10				16	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.7 (PAS). Felt (V) at Bonsall, El Cajon, Escondido, Laguna Hills, Poway, San Diego, San Marcos and Spring Valley.
	16	14	06	03.7	38.893	N	27.551	E	10	G		0.7	6	TURKEY
	16	14	38	51.1*	36.429	N	31.662	E	10	G		1.4	12	TURKEY
	16	14	46	57.5%	60.227	N	5.236	E	10	G		0.3	5	SOUTHERN NORWAY. MD 2.0 (BER).
	16	16	27	49.9&	37.747	N	121.972	W	4				11	CENTRAL CALIFORNIA. <BRK>. ML 2.2 (BRK). Felt at San Ramon.
	16	16	46	03.2%	44.904	N	26.179	E	33	N		1.3	6	ROMANIA
	16	17	02	53.1?	50.09	N	19.77	E	10	G		1.5	6	POLAND
	16	17	38	51.1*	38.356	N	25.079	E	10	G		0.6	5	AEGEAN SEA. ML 3.3 (ATH).
	16	17	49	24.8?	59.23	N	7.23	E	10	G		0.4	5	SOUTHERN NORWAY. MD 2.6 (BER).
	16	19	13	11.1*	23.424	S	68.824	W	33	N		1.5	6	NORTHERN CHILE
	16	19	15	39.2	41.141	N	14.549	E	10	G		0.9	23	SOUTHERN ITALY. MG 3.7 (LJU).
	16	20	46	42.6	42.367	N	19.913	E	10	G		1.0	9	YUGOSLAVIA. ML 2.6 (TTG).
	16	20	59	03.8&	37.297	N	121.662	W	6				13	CENTRAL CALIFORNIA. <BRK>. ML 3.0 (BRK). Felt in the eastern part of San Jose.
	16	21	25	44.0?	25.47	S	179.52	E	500	?	4.6	1.2	15	SOUTH OF FIJI ISLANDS
a	16	22	03	10.7	31.049	N	77.997	E	33	N	5.6 5.2	1.0	257	NORTHERN INDIA. Felt at Chandigarh and in Haryana, Punjab and Himachal Pradesh. Also felt at Dehra Dun and Delhi.
	16	22	14	01.8	46.314	N	112.070	W	5	G		0.5	11	MONTANA. ML 3.6 (NEIS).

	16	22 29 37.9*	15.994	N	61.530	W	117	?			0.4	10	LEEWARD ISLANDS
	16	22 37 11.1	46.309	N	112.060	W	5	G			0.5	11	MONTANA. ML 3.6 (NEIS).
	16	23 12 05.0?	80.46	N	1.64	W	10	G	4.3		1.6	8	NORTH OF SVALBARD
	17	00 12 01.4*	38.444	N	45.397	E	33	N	4.5		1.4	12	N.W. IRAN-USSR BORDER REGION
	17	00 24 00.1	56.094	N	162.968	E	33	N	4.9	4.1	0.8	55	NEAR EAST COAST OF KAMCHATKA
	17	01 00 41.2&	60.052	N	153.448	W	135					24	SOUTHERN ALASKA. <AGS-P>.
	17	02 34 34.3	46.109	N	7.634	E	10	G			1.1	9	SWITZERLAND. ML 2.8 (LDG).
	17	02 47 04.5*	23.500	S	179.959	E	542	*	4.7		1.1	40	SOUTH OF FIJI ISLANDS
	17	03 22 45.3&	34.000	N	116.630	W	8					13	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	17	04 50 55.4	22.934	S	66.712	W	220		4.4		1.0	37	JUJUY PROVINCE, ARGENTINA
	17	05 01 54.4	9.970	N	57.069	E	10	G	4.8		0.8	26	CARLSBERG RIDGE
	17	05 12 11.0&	58.173	N	151.281	W	45					20	KODIAK ISLAND REGION. <AGS-P>.
	17	06 53 43.0*	1.002	N	28.531	W	10	G	4.8	4.1	1.4	14	CENTRAL MID-ATLANTIC RIDGE
	17	06 55 30.8	10.231	S	160.986	E	91		5.0		1.0	29	SOLOMON ISLANDS
	17	07 35 34.3	44.527	N	7.293	E	10	G			0.2	7	NORTHERN ITALY. ML 3.1 (LDG).
	17	08 15 35.6*	43.322	N	77.857	E	33	N	4.5		1.2	13	ALMA-ATA REGION. Felt (III) at Alma-Ata.
	17	09 58 14.5	10.027	S	119.552	E	33	N	4.4		1.3	17	SUMBA ISLAND REGION
	17	10 06 59.1*	50.616	N	5.302	E	10	G			0.3	5	BELGIUM
	17	10 20 52.8	38.432	N	25.017	E	10	G			1.0	16	AEGEAN SEA. ML 3.4 (ATH).
	17	10 42 23.4*	44.277	N	27.066	E	33	N			1.3	7	ROMANIA
	17	10 54 30.4*	6.851	S	130.538	E	88	*	4.9		1.5	20	BANDA SEA
	17	11 06 14.5?	33.99	S	72.12	W	33	N			0.3	7	OFF COAST OF CENTRAL CHILE
	17	12 16 27.7%	47.578	N	5.650	E	10	G			1.1	8	FRANCE. ML 2.6 (LDG).
	17	12 27 28.7%	38.613	N	4.125	W	0	G			0.7	5	SPAIN. Probable explosion.
	17	12 59 49.5	9.541	S	152.220	E	13		5.0		1.3	21	DENTRECASTEAUX ISLANDS REGION
	17	13 42 08.1%	46.390	N	0.319	E	10	G			1.2	11	FRANCE. ML 2.8 (LDG).
a	17	14 32 16.7	21.771	S	179.515	W	597		4.8		1.0	65	FIJI ISLANDS REGION
	17	14 34 02.7?	14.93	N	60.26	W	10	G			0.5	8	WINDWARD ISLANDS. ML 2.9 (FDF).
	17	14 58 05.0*	39.691	N	62.789	E	33	N	4.4		1.1	13	TURKMEN SSR
a	17	15 46 37.0	36.668	N	71.247	E	47	*	5.3	5.3	1.3	202	AFGHANISTAN-USSR BORDER REGION. Felt (V) at Khorog; (III) at Dzhirgatol, Dushanbe, Garm and Namangan; (II) at Andizhan and Tashkent, USSR.
	17	15 57 05.8	37.089	N	4.200	W	10	G			0.8	11	SPAIN. MG 3.5 (MDD). Felt (III) at Loja, Salar, Zagra and Santa Cruz de Alhama.
	17	16 40 10.8&	59.058	N	152.689	W	81					30	SOUTHERN ALASKA. <AGS-P>.
	17	16 56 15.4%	60.743	N	5.503	E	10	G			0.2	5	SOUTHERN NORWAY. MD 2.1 (BER).
	17	17 22 45.2	41.148	N	24.336	E	9				1.1	13	GREECE-BULGARIA BORDER REGION
	17	17 56 51.0?	59.31	N	6.86	E	10	G			1.0	5	SOUTHERN NORWAY. MD 2.2 (BER).
	17	18 11 22.9*	9.159	S	79.935	W	33	N	4.9		1.5	16	OFF COAST OF NORTHERN PERU
	17	18 37 20.6	51.439	N	174.583	W	33	N	4.8		1.0	54	ANDREANOF ISLANDS, ALEUTIAN IS. Felt on Adak.
	17	18 51 28.3*	16.327	N	98.668	W	16		4.3		1.1	15	NEAR COAST OF GUERRERO, MEXICO
	17	19 01 37.9	39.055	N	28.660	E	10	G			1.0	9	TURKEY
	17	19 04 27.2*	51.118	N	15.914	E	10	G			1.0	7	POLAND
	17	19 55 52.6	44.003	N	7.912	E	10	G			0.4	7	NORTHERN ITALY. ML 2.8 (LDG).
	17	20 35 15.0&	33.990	N	116.650	W	6		4.4			45	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.0 (PAS). Felt (V) at Coachella and (IV) at Angelus Oaks, Desert Hot Springs, Forest Falls, Indio, Morongo Valley, Palm Springs and Whitewater. Felt in Riverside, San Bernardina, Orange, Los Angeles, Imperial and San Diego Counties.
	17	21 00 00.0&	37.279	N	116.356	W	0		5.7			243	SOUTHERN NEVADA. <DOE>. ML 5.5 (BRK), 37° 16' 43.22" N., 116° 21' 20.19" W., Surface Elev. 2044 m., Depth of Burial 600 m., Shot Time 210000.055, "CYBAR", Nevada Test Site (Dept. of Energy).
	17	21 13 49.6*	34.702	N	111.149	W	5	G			1.3	7	EASTERN ARIZONA. ML 2.6 (NEIS).
	17	21 15 15.1	10.304	S	123.609	E	33	N	5.0	3.9	1.5	47	TIMOR
	17	21 54 45.1&	33.990	N	116.650	W	7		4.1			34	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.4 (PAS). Felt (IV) at Yucaipa.
	17	22 55 37.6*	10.905	N	56.686	E	10	G	4.7		0.5	23	CARLSBERG RIDGE
	17	23 51 11.4&	33.990	N	116.650	W	7					12	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	18	00 21 40.0*	19.748	S	126.046	W	10	G	5.0	4.6	1.1	29	SOUTH PACIFIC OCEAN
	18	00 21 40.4*	39.045	N	28.599	E	10	G			1.3	5	TURKEY
	18	01 26 44.1	43.297	N	26.098	E	10	G			1.4	11	BULGARIA
	18	02 44 48.6&	62.081	N	149.840	W	52					34	CENTRAL ALASKA. <AGS-P>.
	18	05 45 40.5	0.170	S	17.997	W	10	G	4.9	4.0	0.9	54	NORTH OF ASCENSION ISLAND
	18	06 04 05.6?	31.21	S	68.96	W	111	?			0.8	5	SAN JUAN PROVINCE, ARGENTINA
	18	06 27 28.0	15.398	N	120.886	E	194		4.8		0.9	35	LUZON, PHILIPPINE ISLANDS
	18	07 18 05.4	37.575	N	118.827	W	5	G			0.8	15	CALIFORNIA-NEVADA BORDER REGION. ML 3.0 (BRK), 3.0 (PAS).
	18	12 48 35.7*	45.764	N	26.521	E	96	?			0.7	10	ROMANIA
	18	13 43 24.0*	32.620	S	68.056	W	127	?			0.8	8	MENDOZA PROVINCE, ARGENTINA
	18	14 25 26.6*	7.231	S	122.781	E	612	?	4.6		0.4	10	FLORES SEA
a	18	15 07 51.7	16.356	S	28.502	E	17		5.5	4.6	1.0	184	ZAMBIA. Felt at Kariba, Karoi, Harare and Marondera, Zimbabwe.
	18	15 33 01.1	37.176	N	71.943	E	114	*	4.7		0.9	40	AFGHANISTAN-USSR BORDER REGION
	18	15 58 33.8&	37.573	N	118.447	W	5					12	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.4 (REN), ML 3.0 (PAS). Felt in the Chalfant Valley, California.
	18	16 00 08.3&	37.573	N	118.445	W	5					20	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. ML 3.9 (BRK), 3.6 (PAS). Felt in the Chalfant Valley, California.
	18	16 05 24.7	16.943	S	174.661	W	145	*	4.8		1.1	38	TONGA ISLANDS
	18	17 00 36.8&	36.090	N	117.850	W	1					27	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.7 (PAS), 3.8 (BRK). Felt (V) at Camp Nelson, (IV) at Keeler and Trona and (III) at China Lake, California.
	18	17 02 50.6&	36.100	N	117.850	W	3					5	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.4 (PAS).
	18	17 06 35.9*	19.878	N	121.409	E	30	*	4.4		1.4	10	PHILIPPINE ISLANDS REGION
f	18	17 22 38.2	10.770	N	69.428	W	7	G	5.9	4.9	1.0	307	VENEZUELA. One person died from a heart attack and about 30 homes damaged in the Churuguara area. Felt in Falcon, Lara, Carabobo, Zulia, Aragua and Miranda. Depth from broadband displacement seismograms.
	18	17 25 47.4&	37.670	N	118.430	W	6	G				3	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.2 (PAS).
	18	18 55 43.0&	36.090	N	117.850	W	2					7	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.1 (PAS).
	18	19 26 36.4*	38.884	N	27.500	E	10	G			0.6	5	TURKEY
	18	19 58 01.8&	33.970	N	116.570	W	6					15	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS). Felt (V) at Angelus Oaks and Forest Falls. Felt (IV) at Calimesa,

														Colton, India, Palm Springs and Whitewater.
	18	20	24	30.7?	7.12	S	129.81	E	116	?			1.3	9	BANDA SEA
	18	20	35	49.2?	21.16	S	69.07	W	33	N			0.5	5	NORTHERN CHILE
	18	20	42	39.7?	44.21	N	128.24	W	10	G	4.0		1.9	5	OFF COAST OF OREGON
	18	22	07	05.8*	56.160	N	152.762	W	33	N	4.2		1.4	5	KODIAK ISLAND REGION. ML 3.3 (PMR).
	18	22	09	05.4*	10.410	S	123.968	E	33	N	4.6		1.5	9	TIMOR
	18	22	24	38.2*	36.311	N	9.137	W	10	G			1.3	28	WEST OF GIBRALTAR. MG 3.9 (MDD).
	19	00	21	31.7	10.917	N	69.394	W	10	G	4.9	4.0	0.9	76	VENEZUELA
	19	01	23	13.9*	0.575	N	29.834	W	10	G	4.7		1.4	11	CENTRAL MID-ATLANTIC RIDGE
	19	01	49	19.3*	53.603	N	167.273	W	33	N	4.6		1.2	30	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.6 (PMR).
	19	02	20	56.4*	53.602	N	167.291	W	33	N	4.4		1.0	16	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.4 (PMR).
	19	02	24	43.9&	36.310	N	120.360	W	14					5	CENTRAL CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	19	04	11	02.6	42.308	N	19.984	E	3				0.7	21	YUGOSLAVIA. ML 3.1 (TTG).
a	19	04	31	55.9	53.352	N	165.882	W	33	N	5.5	5.1	1.1	265	FOX ISLANDS, ALEUTIAN ISLANDS. ML 5.9 (PMR), Ms 4.9 (BRK). Felt (IV) at Unalaska. Also felt on Akutan.
	19	04	35	51.3*	5.938	N	126.004	E	145	*	5.0		0.9	18	MINDANAO, PHILIPPINE ISLANDS
a	19	05	04	08.2	53.339	N	165.859	W	33	N	5.1	4.5	1.0	132	FOX ISLANDS, ALEUTIAN ISLANDS. ML 5.6 (PMR). Felt (III) at Unalaska. Also felt on Akutan.
	19	05	18	33.3&	60.136	N	152.552	W	87					24	SOUTHERN ALASKA. <AGS-P>.
f	19	05	59	36.2	47.264	N	151.127	E	141	G	5.9		0.9	426	KURIL ISLANDS. Felt (I JMA) at Nemuro, Obihiro and Urakawa, Hokkaido. Depth from broadband displacement seismograms.
a	19	06	53	17.8	53.600	N	167.171	W	33	N	5.5	5.7	1.1	205	FOX ISLANDS, ALEUTIAN ISLANDS. ML 5.8 (PMR), Ms 5.6 (BRK). Felt strongly on Unalaska. Also felt on Akutan.
	19	07	16	10.6*	53.403	N	167.087	W	33	N	4.5		1.2	23	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.6 (PMR).
	19	07	49	42.1	24.718	S	179.947	E	498		5.1		1.1	61	SOUTH OF FIJI ISLANDS
	19	07	57	28.0*	53.507	N	167.242	W	33	N	4.8		1.2	21	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.4 (PMR).
	19	08	20	24.4*	53.527	N	167.170	W	33	N	4.2		1.2	25	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.7 (PMR).
	19	08	25	57.3	13.704	N	120.778	E	117		4.9		1.0	46	MINDORO, PHILIPPINE ISLANDS
	19	08	27	52.7&	35.920	N	117.720	W	6	G				5	CENTRAL CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
	19	09	12	23.3	28.362	N	56.864	E	66	*	4.8		1.0	82	SOUTHERN IRAN .
	19	09	25	48.5?	42.56	N	127.36	W	10	G	4.1		1.6	11	OFF COAST OF OREGON
	19	09	43	06.4	1.992	N	126.503	E	79	*	5.1		1.3	63	MOLUCCA PASSAGE
	19	10	02	14.2&	37.640	N	118.450	W	6	G				4	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.1 (PAS).
	19	10	15	52.3%	46.671	N	2.089	E	10	G			1.4	16	FRANCE. ML 2.8 (LDG).
	19	10	23	38.9&	32.940	N	117.840	W	10					7	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.1 (PAS).
	19	10	47	03.3*	34.126	N	79.659	E	33	N	4.6		1.2	14	KASHMIR-TIBET BORDER REGION
	19	11	31	07.5	53.617	N	167.408	W	33	N	5.0	4.6	0.9	107	FOX ISLANDS, ALEUTIAN ISLANDS. ML 5.1 (PMR). Felt on Akutan and Unalaska.
	19	13	07	54.6*	34.199	N	133.242	E	33	N			1.3	7	NEAR S. COAST OF SOUTHERN HONSHU
	19	13	21	00.5&	36.090	N	117.850	W	3					8	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.2 (PAS).
	19	13	42	55.5?	51.50	N	175.16	W	33	N	4.0		1.3	9	ANDREANOF ISLANDS, ALEUTIAN IS.
	19	13	45	26.5&	32.950	N	117.830	W	10					9	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.2 (PAS).
	19	14	09	13.2%	40.555	N	29.193	E	10	G			0.3	7	TURKEY
	19	14	35	22.8	30.747	S	68.991	W	46	*	5.0		1.5	25	SAN JUAN PROVINCE, ARGENTINA
	19	14	35	59.2&	62.114	N	148.884	W	40					40	CENTRAL ALASKA. <AGS-P>.
	19	15	18	47.1	40.391	N	25.797	E	10	G			0.9	15	AEGEAN SEA
	19	15	24	34.5	40.402	N	25.880	E	10	G			1.2	22	AEGEAN SEA
	19	17	32	17.7?	53.50	N	167.25	W	33	N	4.4		1.2	10	FOX ISLANDS, ALEUTIAN ISLANDS
	19	17	33	19.9*	44.607	N	6.961	E	10	G			0.4	6	FRANCE. ML 2.2 (LDG).
	19	19	18	19.0&	36.090	N	117.850	W	2					14	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.3 (PAS).
a	19	20	12	55.2	31.260	N	86.910	E	33	N	5.1	4.6	1.2	113	TIBET
	19	20	52	09.6	53.662	N	167.184	W	33	N	4.9		1.0	49	FOX ISLANDS, ALEUTIAN ISLANDS
	19	21	19	32.6?	4.72	S	13.74	W	10	G	4.9		1.5	14	NORTH OF ASCENSION ISLAND
	19	22	09	16.8&	61.672	N	152.019	W	114					28	SOUTHERN ALASKA. <AGS-P>.
a	19	22	32	36.0	53.521	N	167.301	W	33	N	5.6	5.6	1.0	277	FOX ISLANDS, ALEUTIAN ISLANDS. Ms 5.6 (BRK). Slight damage (V) at Dutch Harbor Airport and Unalaska. Also felt on Akutan.
	19	23	37	59.5?	15.07	S	168.46	E	109	?	4.7		1.2	14	VANUATU ISLANDS
	19	23	46	45.0*	35.696	N	141.145	E	33	N	4.0		1.1	12	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Choshi.
	20	00	25	08.6*	31.231	S	68.373	W	112	*			1.1	14	SAN JUAN PROVINCE, ARGENTINA
a	20	01	59	08.2	53.530	N	167.344	W	33	N	4.9	4.5	1.1	70	FOX ISLANDS, ALEUTIAN ISLANDS. ML 5.2 (PMR). Felt (III) at Cold Bay. Also felt on Unalaska.
	20	02	16	56.8?	15.23	N	60.32	W	10	G			0.3	5	LEEWARD ISLANDS. ML 2.8 (FDF).
	20	02	29	20.3	44.415	N	116.002	W	5	G			0.8	13	WESTERN IDAHO. ML 3.2 (NEIS).
	20	02	29	41.8	32.874	S	69.131	W	21				0.6	17	MENDOZA PROVINCE, ARGENTINA
	20	02	48	55.1*	10.465	S	123.899	E	33	N	4.7		1.4	11	TIMOR
	20	03	42	50.1*	29.754	S	71.741	W	33	N			1.3	15	NEAR COAST OF CENTRAL CHILE
	20	03	47	14.0?	29.56	S	71.76	W	33	N			1.1	10	NEAR COAST OF CENTRAL CHILE
	20	04	01	18.5*	37.839	N	35.905	E	10	G	4.2		1.4	20	TURKEY
	20	05	07	18.1?	39.51	N	32.28	E	10	G			1.4	7	TURKEY
	20	05	09	20.6*	53.434	N	167.155	W	33	N	4.4		0.9	12	FOX ISLANDS, ALEUTIAN ISLANDS
	20	05	35	09.8?	53.66	N	169.37	W	33	N	4.5		1.5	11	FOX ISLANDS, ALEUTIAN ISLANDS
	20	05	52	16.2*	15.914	S	75.272	W	33	N	4.6		1.4	33	NEAR COAST OF PERU
	20	08	01	36.2%	39.092	N	28.511	E	10	G			1.0	10	TURKEY
	20	08	02	46.6&	61.663	N	150.333	W	67					39	SOUTHERN ALASKA. <AGS-P>.
	20	08	48	24.2?	53.49	N	166.95	W	33	N	4.3		1.3	12	FOX ISLANDS, ALEUTIAN ISLANDS
	20	09	00	29.4	39.249	N	27.737	E	10	G			0.6	8	TURKEY
	20	11	54	08.7?	38.13	N	19.96	E	10	G			1.2	12	IONIAN SEA
	20	13	02	23.2&	32.930	N	117.780	W	10					11	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.3 (PAS).
a	20	14	29	45.5&	37.580	N	118.450	W	8		5.6	5.6		253	CALIFORNIA-NEVADA BORDER REGION. <GS>. ML 5.9 (BRK), 5.9 (PAS). Felt (V) at Bishop, Benton and Big Pine, California. Also felt (V) at Dyer, Nevada. Felt at Fresno and Bakersfield, California and in parts of southwestern Nevada.
	20	14	42	31.6	36.868	N	121.293	W	5	G			0.9	13	CENTRAL CALIFORNIA. ML 2.8 (BRK).
	20	14	46	08.5&	37.597	N	118.423	W	10	G				22	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 4.1 (BRK).
	20	14	55	02.6&	37.580	N	118.450	W	6	G				3	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.1 (PAS).
	20	15	20	40.0*	6.137	S	123.046	E	33	N	4.8		1.3	17	BANDA SEA
	20	15	26	43.2&	37.535	N	118.432	W	7	G				18	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.2 (BRK), 3.3 (PAS).
	20	15	29	29.0&	37.577	N	118.477	W	8	G				15	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.5 (BRK),

													3.4 (PAS).
	20	15	34	35.1&	37.590	N	118.480	W	6	G		4	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.2 (PAS).
	20	15	37	39.9*	45.137	N	7.151	E	10	G	0.9	6	NORTHERN ITALY. ML 2.8 (LDG).
	20	15	40	23.6&	58.752	N	152.721	W	80			13	KODIAK ISLAND REGION. <AGS-P>.
	20	15	56	23.1	29.988	N	51.694	E	10	G	4.6 1.1	52	SOUTHERN IRAN
	20	16	02	50.2	44.319	N	6.704	E	10	G	0.5	6	FRANCE. ML 2.6 (LDG).
	20	16	19	46.8?	52.02	N	174.57	W	33	N	4.6 1.1	19	ANDREANOF ISLANDS, ALEUTIAN IS.
	20	16	23	02.5&	37.563	N	118.505	W	5			18	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.5 (BRK), 3.3 (PAS).
	20	16	27	52.6&	58.862	N	154.614	W	141			37	ALASKA PENINSULA. <AGS-P>.
	20	16	32	35.1&	37.575	N	118.467	W	8	G		21	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.9 (BRK), 3.5 (PAS).
	20	16	37	25.5&	37.567	N	118.485	W	8	G		18	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.7 (BRK), 3.2 (PAS).
	20	16	43	02.6	37.592	N	118.351	W	10	G	0.8	16	CALIFORNIA-NEVADA BORDER REGION. ML 3.4 (PAS).
	20	17	29	04.2*	25.942	S	178.602	E	660	?	4.8 0.5	13	SOUTH OF FIJI ISLANDS
	20	17	41	56.2&	37.542	N	118.473	W	10	G		23	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.5 (BRK), 3.5 (PAS).
	20	17	45	43.8&	37.570	N	118.470	W	6	G		4	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.2 (PAS).
	20	18	03	46.8	10.484	S	74.029	W	132		4.9 1.1	110	PERU. Felt at Chanchamayo, Oxapampa and Satipa.
a	20	18	09	06.8	56.739	S	3.577	W	10	G	5.8 5.0 0.9	67	SOUTH ATLANTIC RIDGE
	20	18	36	54.0&	37.525	N	118.483	W	1	G		26	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.8 (BRK), 3.4 (PAS). Felt (V) at Bishop, California.
	20	18	38	53.3&	37.558	N	118.468	W	5	G	3.9	41	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 4.7 (BRK), 4.8 (PAS). Felt (V) at Bishop, California and (III) at Dyer, Nevada.
	20	18	40	50.9&	37.580	N	118.420	W	6	G		2	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.2 (PAS), 3.8 (BRK).
	20	18	49	40.1&	37.600	N	118.500	W	6	G		3	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.2 (PAS).
	20	18	53	20.2&	37.570	N	118.470	W	6	G		4	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.3 (PAS).
	20	18	59	36.4	37.617	N	118.408	W	10	G	1.1	6	CALIFORNIA-NEVADA BORDER REGION. ML 3.0 (PAS).
	20	19	05	32.6	44.455	N	116.033	W	5	G	0.7	11	WESTERN IDAHO. ML 3.6 (NEIS).
	20	19	25	53.2&	37.570	N	118.500	W	6	G		3	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.1 (PAS).
	20	19	27	40.0&	37.560	N	118.470	W	6	G		3	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.2 (PAS).
	20	19	37	47.4&	61.996	N	151.033	W	71			22	SOUTHERN ALASKA. <AGS-P>.
	20	19	44	29.7&	57.042	N	154.533	W	92		4.6	56	KODIAK ISLAND REGION. <AGS-P>.
	20	20	05	05.3*	1.077	N	29.896	E	10	G	4.4 1.3	7	ZAIRE REPUBLIC
	20	20	35	51.3*	15.939	N	119.822	E	66	*	4.4 1.2	16	LUZON, PHILIPPINE ISLANDS
	20	21	18	13.1&	37.600	N	118.420	W	6	G		5	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.2 (PAS).
	20	21	27	23.7*	55.802	N	157.203	W	33	N	4.7 0.8	37	ALASKA PENINSULA. ML 4.7 (PMR).
	20	21	29	57.4%	43.148	N	18.505	E	10	G	0.6	6	YUGOSLAVIA. ML 2.4 (TTG).
	20	22	46	50.2*	31.505	S	68.048	W	10	G	1.3	8	SAN JUAN PROVINCE, ARGENTINA
	20	23	19	41.4%	11.606	S	76.474	W	33	N	1.5	7	PERU. Felt (II) at Lima.
	21	00	08	12.4	37.588	N	118.339	W	10	G	0.6	15	CALIFORNIA-NEVADA BORDER REGION. ML 3.3 (PAS).
	21	00	27	47.8&	61.336	N	151.518	W	70			29	SOUTHERN ALASKA. <AGS-P>.
	21	00	36	59.2&	37.560	N	118.460	W	6	G		3	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.2 (PAS).
	21	00	40	46.8*	14.112	S	76.206	W	43	?	4.5 1.1	11	NEAR COAST OF PERU. Felt (III) at Ica.
	21	01	01	53.7	15.635	S	172.400	W	33	N	4.9 0.8	43	SAMOA ISLANDS REGION
	21	01	08	51.9&	37.550	N	118.430	W	6	G		2	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.0 (PAS).
	21	01	32	22.1	37.350	N	122.228	W	5	G	0.7	9	CENTRAL CALIFORNIA. ML 2.9 (BRK).
	21	01	37	37.8&	37.500	N	118.530	W	6	G		4	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.3 (PAS).
	21	01	54	26.1&	37.610	N	118.460	W	6	G		3	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.1 (PAS).
	21	02	06	33.6	40.378	N	33.348	E	10	G	0.4	9	TURKEY
	21	02	27	54.3	37.564	N	118.351	W	10	G	0.5	18	CALIFORNIA-NEVADA BORDER REGION. ML 3.7 (BRK), 3.3 (PAS).
	21	03	05	15.3%	39.517	N	28.352	E	10	G	0.8	13	TURKEY
	21	03	12	11.3	37.546	N	118.433	W	10	G	0.7	30	CALIFORNIA-NEVADA BORDER REGION. ML 4.4 (BRK), 4.4 (PAS). Mo=1.6*10**22 (BRK).
	21	03	23	02.2?	52.22	N	36.25	W	10	G	4.3 1.4	7	NORTH ATLANTIC OCEAN
	21	03	23	34.3	39.466	N	28.344	E	10	G	0.9	12	TURKEY
	21	03	31	16.6	39.471	N	28.333	E	11		0.6	12	TURKEY
	21	03	48	38.7*	4.369	N	94.907	E	33	N	4.6 1.4	9	OFF W COAST OF NORTHERN SUMATERA
	21	04	33	34.6&	32.970	N	117.770	W	10			5	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.0 (PAS).
	21	04	34	49.2&	32.950	N	117.780	W	10			5	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.2 (PAS).
	21	05	39	21.8&	37.570	N	118.420	W	6			3	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.0 (PAS).
	21	06	50	42.2&	37.620	N	118.410	W	6			3	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.2 (PAS).
	21	07	39	26.0	32.298	S	69.271	W	125	*	4.1 1.1	17	MENDOZA PROVINCE, ARGENTINA
	21	08	10	31.3	37.548	N	118.384	W	10	G	0.6	25	CALIFORNIA-NEVADA BORDER REGION. ML 4.1 (BRK), 3.6 (PAS). Mo=8.8*10**21 (BRK).
	21	08	20	44.4	37.615	N	118.376	W	10	G	0.5	18	CALIFORNIA-NEVADA BORDER REGION. ML 3.6 (BRK), 3.1 (PAS).
	21	08	32	32.0&	62.888	N	149.622	W	82			27	CENTRAL ALASKA. <AGS-P>.
	21	09	35	29.2	21.951	S	67.634	W	33	N	0.9	6	CHILE-BOLIVIA BORDER REGION
	21	09	58	31.8?	23.70	S	69.11	W	33	N	0.7	5	NORTHERN CHILE
	21	10	18	27.6?	5.36	S	134.01	E	33	N	4.3 1.0	8	AROE ISLANDS REGION
	21	11	15	22.0&	37.572	N	118.482	W	10			33	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 4.3 (BRK), 4.6 (PAS). Mo=2.6*10*22 (BRK).
a	21	12	11	15.8	20.572	S	174.283	W	37	D	5.5 5.0 1.0	169	TONGA ISLANDS
	21	13	28	49.3	37.616	N	118.357	W	10	G	0.7	19	CALIFORNIA-NEVADA BORDER REGION. ML 3.4 (BRK), 3.3 (PAS).
	21	13	47	08.2%	40.626	N	29.191	E	10	G	1.2	9	TURKEY
	21	13	59	30.1*	5.624	S	154.243	E	95	*	4.2 0.6	8	SOLOMON ISLANDS
	21	14	25	23.9	43.682	N	127.411	W	10	G	4.1 0.9	23	OFF COAST OF OREGON
f	21	14	42	26.6&	37.537	N	118.447	W	9		6.0 6.2	311	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 6.5 (BRK), 6.0 (PAS). Mo=3.5*10**24 (BRK). About 20 mobile homes were damaged and a number of others shaken off their foundations in the Chalfant Valley, California. Several buildings were damaged (VI) at Bishop, California. Landslides occurred in the area. Fault rupture, maximum of 5 cm. of right-lateral slip, occurred along faults in the Volcanic Tableland west of Chalfant Valley and the White Mountains fault zone. The earthquake was felt throughout a large area of California and Nevada from

													San Francisco to Reno and south to Los Angeles and Las Vegas. Felt in high-rise buildings as far away as Salt Lake City, Utah. Depth 8.9 km. from broadband displacement seismograms.
	21	14 45 21.0&	37.580	N	118.420	W	6	G			1		CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 4.6 (PAS).
	21	14 51 11.0&	37.520	N	118.412	W	10	G	5.1		87		CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 5.7 (BRK), 5.4 (PAS). Mo=4.5*10**23 (BRK). Felt (V) at Benton and Big Pine, California.
	21	14 53 58.1&	37.580	N	118.420	W	6	G			1		CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 4.9 (PAS).
	21	14 57 49.4	37.531	N	118.326	W	10	G	4.7	0.5	30		CALIFORNIA-NEVADA BORDER REGION. ML 4.8 (BRK), 4.7 (PAS). Mo=6.5*10**22 (BRK).
	21	15 00 46.6&	37.580	N	118.420	W	6	G			6		CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.7 (PAS).
	21	15 05 41.0*	37.560	N	118.384	W	10	G		0.9	10		CALIFORNIA-NEVADA BORDER REGION. ML 3.9 (BRK), 4.1 (PAS).
	21	15 10 15.0&	37.550	N	118.430	W	6	G			10		CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.1 (BRK), 3.8 (PAS).
	21	15 10 30.2*	37.682	N	118.405	W	10	G		0.6	7		CALIFORNIA-NEVADA BORDER REGION. ML 3.7 (BRK).
	21	15 11 30.7&	37.600	N	118.490	W	6	G			4		CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 4.7 (PAS).
	21	15 11 32.4*	37.781	N	31.089	E	10	G		1.1	7		TURKEY
	21	15 15 29.4*	37.628	N	118.349	W	10	G		0.6	12		CALIFORNIA-NEVADA BORDER REGION. ML 3.7 (BRK).
	21	15 19 35.4&	37.513	N	118.425	W	10	G			22		CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 4.7 (BRK), 4.5 (PAS). Mo=4.3*10**22 (BRK).
	21	15 24 45.9	56.592	N	153.361	W	33	N	5.0	0.7	72		KODIAK ISLAND REGION. ML 5.1 (PMR).
	21	15 26 49.3&	37.547	N	118.503	W	10	G			17		CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 4.6 (BRK), 4.3 (PAS). Mo=2.2*10**22 (BRK).
	21	15 29 10.8	37.621	N	118.369	W	10	G		0.9	9		CALIFORNIA-NEVADA BORDER REGION. ML 3.6 (BRK), 3.4 (PAS).
	21	15 31 05.5	37.663	N	118.414	W	10	G		0.5	11		CALIFORNIA-NEVADA BORDER REGION. ML 3.6 (BRK), 3.4 (PAS).
	21	15 36 50.1	37.599	N	118.368	W	10	G		0.5	16		CALIFORNIA-NEVADA BORDER REGION. ML 3.7 (BRK), 4.1 (PAS).
	21	15 41 22.1	37.574	N	118.304	W	10	G		0.6	21		CALIFORNIA-NEVADA BORDER REGION. ML 3.8 (BRK), 3.9 (PAS).
	21	15 46 24.8&	37.665	N	118.487	W	10	G			23		CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 4.5 (BRK). Mo=1.8*10**22 (BRK).
	21	15 47 03.3	48.818	N	150.725	E	319	?	4.6	0.9	36		NORTHWEST OF KURIL ISLANDS
	21	15 50 22.3*	37.677	N	118.435	W	10	G		0.8	6		CALIFORNIA-NEVADA BORDER REGION. ML 3.5 (BRK), 3.1 (PAS).
	21	15 54 43.9*	33.757	S	72.003	W	46	*	5.1	1.0	28		OFF COAST OF CENTRAL CHILE
	21	15 58 17.1?	33.86	S	71.81	W	33	N		0.6	7		NEAR COAST OF CENTRAL CHILE
	21	16 19 04.5&	37.580	N	118.420	W	6	G			5		CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.4 (PAS).
	21	16 26 44.3	37.514	N	118.307	W	5	G		0.6	21		CALIFORNIA-NEVADA BORDER REGION. ML 4.6 (BRK), 4.3 (PAS). Mo=2.1*10*22 (BRK).
	21	16 36 43.6	37.540	N	118.385	W	10	G		0.5	17		CALIFORNIA-NEVADA BORDER REGION. ML 3.8 (PAS).
	21	17 05 33.4	37.530	N	118.463	W	10	G	3.6	0.7	26		CALIFORNIA-NEVADA BORDER REGION. ML 4.4 (BRK), 4.6 (PAS). Mo=2.1*10**22 (BRK).
	21	17 08 33.7*	37.622	N	118.390	W	10	G		0.6	6		CALIFORNIA-NEVADA BORDER REGION. ML 3.4 (BRK).
	21	17 18 55.3	23.904	S	66.609	W	213		4.6	1.3	20		JUJUY PROVINCE, ARGENTINA
	21	17 20 00.4	37.470	N	118.321	W	10	G		0.9	12		CALIFORNIA-NEVADA BORDER REGION. ML 3.5 (NEIS), 3.9 (PAS).
	21	17 30 30.5	37.614	N	118.318	W	10	G		0.6	12		CALIFORNIA-NEVADA BORDER REGION. ML 3.9 (BRK), 3.4 (PAS).
	21	17 48 55.9	37.597	N	118.354	W	10	G		0.8	23		CALIFORNIA-NEVADA BORDER REGION. ML 4.3 (BRK), 4.2 (PAS). Mo=1.9*10*22 (BRK).
	21	17 53 03.1	37.634	N	118.397	W	10	G		0.7	13		CALIFORNIA-NEVADA BORDER REGION. ML 3.5 (BRK).
	21	18 13 57.5*	37.664	N	118.487	W	10	G		1.3	7		CALIFORNIA-NEVADA BORDER REGION. ML 4.1 (BRK), 3.5 (PAS).
	21	18 17 20.2&	32.980	N	117.770	W	10				2		CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.0 (PAS).
	21	18 18 33.9&	37.580	N	118.420	W	6	G			8		CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.7 (BRK), 3.4 (PAS).
	21	18 20 08.4&	37.580	N	118.420	W	6	G			3		CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.1 (PAS).
	21	18 29 30.9&	33.010	N	117.810	W	10				12		SOUTHERN CALIFORNIA. <PAS-P>. ML 3.8 (PAS).
	21	19 46 08.8	0.356	N	125.943	E	74	?	4.6	1.2	23		MOLUCCA PASSAGE
	21	20 27 16.1*	36.880	S	70.658	W	172	*	4.1	0.9	20		CHILE-ARGENTINA BORDER REGION
	21	20 36 05.4	37.565	N	118.368	W	10	G		0.5	12		CALIFORNIA-NEVADA BORDER REGION. ML 4.0 (BRK), 3.8 (PAS).
	21	20 40 25.2	37.483	N	118.282	W	10	G		0.6	9		CALIFORNIA-NEVADA BORDER REGION. ML 3.6 (BRK).
	21	20 46 52.9*	17.609	S	179.078	W	546		4.6	1.0	50		FIJI ISLANDS REGION
	21	21 08 41.8	37.591	N	118.385	W	10	G		0.4	16		CALIFORNIA-NEVADA BORDER REGION. ML 3.6 (BRK), 3.9 (PAS).
	21	21 51 44.7	37.626	N	118.377	W	10	G		0.7	11		CALIFORNIA-NEVADA BOROER REGION. ML 3.7 (BRK), 4.0 (PAS).
	21	21 56 30.5?	23.99	S	68.29	W	33	N		0.5	5		NORTHERN CHILE
	21	22 03 01.7*	48.007	N	146.032	E	478	?	4.3	0.6	13		SEA OF OKHOTSK
	21	22 07 01.4&	37.490	N	118.390	W	5	G			16		CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.1 (BRK).
a	21	22 07 18.0&	37.498	N	118.397	W	9	G	5.5	5.0	185		CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 5.6 (BRK), 5.4 (PAS). Mo=4.1*10**23 (BRK).
	21	22 28 31.7&	37.580	N	118.420	W	6	G			3		CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.0 (PAS).
	21	22 39 18.3&	37.580	N	118.420	W	6	G			4		CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.2 (PAS).
	21	22 41 56.6*	44.665	N	79.501	E	33	N	4.6	0.7	45		EASTERN KAZAKH SSR
	21	23 43 04.8*	37.519	N	118.257	W	10	G		1.5	9		CALIFORNIA-NEVADA BORDER REGION. ML 4.1 (BRK), 4.1 (PAS).
	22	00 09 53.6	37.606	N	118.409	W	5	G	4.0	0.7	30		CALIFORNIA-NEVADA BORDER REGION. ML 4.5 (BRK), 4.6 (PAS).
	22	00 11 07.6&	59.874	N	153.386	W	126				29		SOUTHERN ALASKA. <AGS-P>.
	22	00 21 34.7	39.592	N	23.461	E	10	G		0.4	9		AEGEAN SEA. ML 3.0 (ATH).
	22	00 25 19.1&	36.080	N	117.850	W	6	G			7		CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.3 (PAS).
	22	00 27 23.7?	36.25	N	27.60	E	33	N		1.2	5		DODECANESE ISLANDS
	22	00 55 29.7	34.738	N	17.963	W	10	G	4.3	1.2	76		MADEIRA ISLANDS REGION. Felt (III) on Madeira.
	22	01 45 45.2	16.813	N	93.115	W	33	N	4.0	1.1	22		CHIAPAS, MEXICO
	22	02 00 06.9*	51.445	N	175.712	W	33	N	4.8	1.6	32		ANDREANOF ISLANDS, ALEUTIAN IS.
a	22	02 12 46.4	33.571	S	178.350	W	33	N	5.4	5.2	82		SOUTH OF KERMADEC ISLANDS
	22	02 17 05.9	37.618	N	118.346	W	10	G		0.5	14		CALIFORNIA-NEVADA BORDER REGION. ML 3.4 (BRK).

	22	02 21 31.5	37.640	N	118.417	W	10	G			0.6	21	CALIFORNIA-NEVADA BORDER REGION. ML 3.6 (BRK), 3.8 (PAS).
	22	02 23 31.9	38.929	N	24.954	E	13				1.1	29	AEGEAN SEA. ML 3.6 (ATH).
	22	03 02 10.6	37.604	N	118.403	W	10	G			0.5	20	CALIFORNIA-NEVADA BORDER REGION. ML 3.8 (BRK), 3.8 (PAS).
	22	03 08 41.7&	37.580	N	118.420	W	6	G				4	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.3 (PAS).
	22	03 18 48.3	37.553	N	118.361	W	10	G			0.7	13	CALIFORNIA-NEVADA BORDER REGION. ML 3.9 (BRK).
	22	04 09 22.4*	53.203	N	167.650	W	33	N	4.5		1.1	17	FOX ISLANDS, ALEUTIAN ISLANDS
	22	04 31 58.6	39.422	N	28.384	E	10	G			0.9	14	TURKEY
	22	04 56 44.5?	18.02	S	178.34	W	626	*	4.5		1.0	16	FIJI ISLANDS REGION
	22	05 05 23.3&	37.580	N	118.420	W	6	G				5	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.1 (PAS).
	22	05 16 58.7?	15.04	N	62.13	W	30	*			1.4	7	LEEWARD ISLANDS. ML 2.6 (FDF).
	22	05 24 08.1	37.594	N	118.337	W	10	G			0.5	15	CALIFORNIA-NEVADA BORDER REGION. ML 3.6 (BRK), 3.2 (PAS).
	22	05 40 45.3	37.594	N	118.386	W	10	G			0.5	25	CALIFORNIA-NEVADA BORDER REGION. ML 4.1 (BRK), 3.9 (PAS).
	22	06 12 27.1	38.471	N	141.910	E	102		4.4		0.9	21	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Ofunato, (II JMA) at Miyako and (I JMA) at Ishinomoki and Morioka.
	22	06 21 52.5	37.452	N	118.348	W	10	G			0.7	28	CALIFORNIA-NEVADA BORDER REGION. ML 4.2 (BRK), 4.1 (PAS).
	22	06 33 39.3	37.549	N	118.351	W	10	G			0.5	15	CALIFORNIA-NEVADA BORDER REGION. ML 3.5 (BRK).
	22	06 58 11.2	37.604	N	118.391	W	10	G			1.3	13	CALIFORNIA-NEVADA BORDER REGION. ML 3.6 (BRK), 3.1 (PAS).
	22	07 14 04.4*	45.844	N	16.239	E	10	G			1.3	5	YUGOSLAVIA
	22	08 29 16.7	37.579	N	118.396	W	10	G			1.0	25	CALIFORNIA-NEVADA BORDER REGION. ML 4.0 (BRK), 3.6 (PAS).
	22	08 30 55.5&	32.860	N	117.810	W	10					3	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.0 (PAS).
	22	09 34 16.3	37.464	N	118.288	W	10	G			0.5	18	CALIFORNIA-NEVADA BORDER REGION. ML 3.5 (BRK), 3.1 (PAS).
	22	10 02 24.7?	31.47	S	69.20	W	110	?			0.7	5	SAN JUAN PROVINCE, ARGENTINA
	22	10 09 41.9&	37.580	N	118.420	W	6	G				3	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.2 (PAS).
	22	10 14 24.9	6.513	S	154.909	E	56		5.0		1.0	37	SOLOMON ISLANDS. Felt (IV) at Ponguna, Bougainville.
	22	10 21 40.8	36.936	N	121.454	W	5	G			0.6	9	CENTRAL CALIFORNIA. ML 2.7 (BRK).
	22	10 25 52.5&	37.580	N	118.420	W	6	G				3	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.0 (PAS).
a	22	11 28 33.2	0.790	S	134.444	E	27	D	5.2	4.9	1.2	49	WEST IRIAN REGION
	22	11 58 59.1	38.175	N	28.821	E	10	G			1.2	7	TURKEY
	22	12 24 49.7	37.526	N	118.443	W	10	G	3.7		0.5	23	CALIFORNIA-NEVADA BORDER REGION. ML 4.4 (BRK), 4.6 (PAS). Mo=2.4*10**22 (BRK).
	22	12 33 28.9&	37.580	N	118.420	W	6	G				3	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.2 (PAS).
	22	12 36 44.5&	32.940	N	117.760	W	10					6	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.1 (PAS).
	22	13 33 59.5	37.526	N	118.429	W	10	G	4.2		0.8	28	CALIFORNIA-NEVADA BORDER REGION. ML 4.7 (BRK), 5.0 (PAS). Mo=4.8*10**22 (BRK).
	22	13 44 04.8&	37.550	N	118.490	W	6					4	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.1 (PAS).
	22	13 48 59.6	37.510	N	118.474	W	10	G	4.5		1.2	38	CALIFORNIA-NEVADA BORDER REGION. ML 5.1 (BRK), 5.2 (PAS).
	22	13 57 34.6	37.559	N	118.424	W	10	G			0.3	15	CALIFORNIA-NEVADA BORDER REGION. ML 3.6 (BRK), 3.4 (PAS).
	22	14 40 45.6	37.616	N	118.378	W	10	G			0.7	10	CALIFORNIA-NEVADA BORDER REGION. ML 3.0 (NEIS).
	22	15 24 23.8*	28.485	S	68.499	W	10	G			0.8	10	LA RIOJA PROVINCE, ARGENTINA
	22	15 44 16.8*	31.257	S	68.327	W	109	?			0.5	6	SAN JUAN PROVINCE, ARGENTINA
	22	15 50 08.8*	33.657	S	178.488	W	33	N	5.0		1.4	15	SOUTH OF KERMADEC ISLANDS
	22	16 28 38.7	37.522	N	118.276	W	10	G			0.8	13	CALIFORNIA-NEVADA BORDER REGION. ML 3.0 (NEIS).
	22	17 12 01.5	37.528	N	118.385	W	10	G			0.5	20	CALIFORNIA-NEVADA BORDER REGION. ML 3.3 (BRK).
	22	17 17 21.3	37.545	N	118.365	W	10	G			0.5	23	CALIFORNIA-NEVADA BORDER REGION. ML 3.7 (BRK), 3.4 (PAS).
	22	17 24 46.1*	31.594	S	68.878	W	109	?			1.0	8	SAN JUAN PROVINCE, ARGENTINA
	22	17 39 18.3	37.583	N	118.404	W	10	G			0.6	21	CALIFORNIA-NEVADA BORDER REGION. ML 3.6 (BRK), 3.9 (PAS).
	22	18 16 53.0	37.590	N	118.390	W	10	G			0.8	17	CALIFORNIA-NEVADA BORDER REGION. ML 3.5 (BRK), 3.8 (PAS).
	22	18 19 36.3	37.494	N	118.290	W	10	G			0.6	20	CALIFORNIA-NEVADA BORDER REGION. ML 4.2 (BRK), 4.2 (PAS).
	22	18 29 44.0	37.473	N	118.314	W	10	G	3.7		0.7	30	CALIFORNIA-NEVADA BORDER REGION. ML 4.7 (BRK), 4.4 (PAS).
	22	19 13 26.7%	39.643	N	27.690	E	10	G			0.6	5	TURKEY
	22	19 38 00.1?	51.63	N	16.36	E	10	G			0.4	8	POLAND. MG 2.6 (KRA).
	22	19 53 52.5*	4.365	N	75.919	W	170	*	4.7		1.0	11	COLOMBIA
	22	20 11 33.8	37.629	N	118.411	W	10	G			0.4	15	CALIFORNIA-NEVADA BORDER REGION. ML 3.3 (BRK), 3.1 (PAS).
	22	20 17 00.1	37.554	N	118.359	W	10	G	3.7		0.8	28	CALIFORNIA-NEVADA BORDER REGION. ML 4.2 (BRK), 4.4 (PAS).
	22	20 22 26.4	37.614	N	118.409	W	10	G			0.6	22	CALIFORNIA-NEVADA BORDER REGION. ML 4.3 (BRK), 4.2 (PAS).
	22	20 49 15.1	37.514	N	118.279	W	10	G			0.5	19	CALIFORNIA-NEVADA BORDER REGION. ML 3.5 (BRK), 3.5 (PAS).
	22	21 26 38.2?	5.86	S	132.46	E	33	N	4.4		1.4	6	AROE ISLANDS REGION
	22	22 06 41.8	37.513	N	118.294	W	10	G			0.5	18	CALIFORNIA-NEVADA BORDER REGION. ML 4.2 (BRK).
	22	22 49 00.5&	32.931	N	80.168	W	6					5	SOUTH CAROLINA. <GLD>. MD 1.8 (GLD).
	22	23 38 16.6	37.502	N	118.314	W	10	G			0.6	9	CALIFORNIA-NEVADA BORDER REGION. ML 3.3 (NEIS).
	22	23 40 55.4	37.843	N	20.185	E	29		4.3		1.1	37	IONIAN SEA. ML 4.0 (ATH).
	23	00 08 41.4	51.438	N	176.194	W	33	N	5.2		0.8	32	ANDREANOF ISLANDS, ALEUTIAN IS.
	23	00 52 31.0*	2.462	S	102.470	E	58		4.5		0.6	12	SOUTHERN SUMATERA
	23	02 12 13.6	37.518	N	118.429	W	10	G			0.6	15	CALIFORNIA-NEVADA BORDER REGION. ML 3.6 (BRK), 3.5 (PAS).
	23	02 27 40.0	32.419	S	72.086	W	33	N			0.9	17	OFF COAST OF CENTRAL CHILE
	23	02 36 21.4*	1.195	S	127.667	E	33	N	4.8		1.1	11	HALMAHERA
	23	02 57 58.5&	32.960	N	117.810	W	10					13	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.5 (PAS).
	23	02 58 20.4	37.556	N	118.358	W	10	G			0.6	16	CALIFORNIA-NEVADA BORDER REGION. ML 3.8 (BRK), 3.4 (PAS).
	23	03 01 02.4	37.626	N	118.410	W	10	G			0.7	15	CALIFORNIA-NEVADA BORDER REGION. ML 3.7 (BRK), 3.2 (PAS).
	23	03 47 40.3	51.191	N	176.152	W	33	N	4.9	4.3	1.0	67	ANDREANOF ISLANDS, ALEUTIAN IS.

	23	03	53	34.7	43.279	N	20.945	E	10	G	3.1	1.2	43	YUGOSLAVIA. ML 3.6 (TTG). Some houses destroyed and roods damaged in the Brzece-Knezevo area.
	23	05	18	33.9?	26.87	N	95.04	E	33	N	5.4	1.5	7	BURMA-INDIA BORDER REGION
	23	06	17	53.6	37.535	N	118.320	W	10	G		0.7	10	CALIFORNIA-NEVADA BORDER REGION. ML 3.5 (NEIS).
a	23	07	35	27.3	61.934	S	154.774	E	10	G	5.4 5.7	1.0	74	BALLENY ISLANDS REGION
	23	07	39	09.8	38.653	N	119.539	W	5	G		0.7	19	CALIFORNIA-NEVADA BORDER REGION. ML 4.3 (BRK).
	23	07	41	43.3?	43.49	N	5.61	E	10	G		1.6	5	NEAR SOUTH COAST OF FRANCE. ML 2.6 (LDG).
	23	08	19	50.1	40.678	N	15.657	E	15		4.5	1.1	68	SOUTHERN ITALY. ML 4.6 (TRI), MD 4.5 (TTG). Slight damage at Potenza.
	23	08	56	27.7	37.504	N	118.300	W	10	G		0.8	9	CALIFORNIA-NEVADA BORDER REGION. ML 3.2 (NEIS).
	23	09	05	41.5%	40.124	N	29.289	E	10	G		0.5	10	TURKEY
	23	09	26	37.6	37.607	N	118.381	W	10	G		0.5	11	CALIFORNIA-NEVADA BORDER REGION. ML 3.3 (NEIS).
	23	10	25	46.4	39.515	N	28.378	E	10	G		1.2	7	TURKEY
	23	10	26	38.0	20.527	S	177.770	W	557		5.0	1.1	44	FIJI ISLANDS REGION
	23	10	29	01.9&	33.010	N	117.830	W	10				11	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
	23	11	03	09.9*	31.639	S	67.891	W	33	N		0.9	5	SAN JUAN PROVINCE, ARGENTINA
	23	11	06	55.7	21.292	S	68.048	W	147	*	4.3	0.8	10	CHILE-BOLIVIA BORDER REGION
	23	11	34	16.7*	23.305	S	66.530	W	228	*	4.1	1.5	13	JUJUY PROVINCE, ARGENTINA
	23	12	11	42.5	40.710	N	29.826	E	10	G		0.8	11	TURKEY
	23	12	32	53.9*	36.683	N	71.347	E	175	?	4.4	0.9	11	AFGHANISTAN-USSR BORDER REGION
	23	12	55	46.1*	8.711	S	105.253	E	33	N	4.7	1.2	20	SOUTH OF JAVA
	23	12	59	32.7&	60.344	N	152.283	W	75				22	SOUTHERN ALASKA. <AGS-P>.
	23	15	39	11.6	37.517	N	118.409	W	10	G	4.1	1.1	29	CALIFORNIA-NEVADA BORDER REGION. ML 4.7 (BRK), 4.9 (PAS).
	23	15	57	26.3*	14.604	N	119.374	E	33	N	4.0	1.1	6	LUZON, PHILIPPINE ISLANDS
	23	16	26	34.7	1.812	N	126.321	E	63	*	4.7	1.1	45	MOLUCCA PASSAGE
	23	16	27	41.0	37.597	N	118.426	W	10	G		0.5	18	CALIFORNIA-NEVADA BORDER REGION. ML 3.5 (BRK).
	23	17	20	14.7	38.934	N	21.971	E	10	G		1.1	9	GREECE
	23	17	22	16.8&	32.990	N	117.760	W	10				10	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.3 (PAS).
	23	18	20	59.8?	31.01	S	68.89	W	33	N		0.9	6	SAN JUAN PROVINCE, ARGENTINA
	23	20	16	07.7	18.840	S	69.410	W	151		4.6	1.1	24	NORTHERN CHILE
	23	20	47	10.9%	59.428	N	6.599	E	10	G		0.8	6	SOUTHERN NORWAY. MD 2.4 (BER).
	23	22	01	40.7	37.504	N	118.306	W	10	G		0.4	14	CALIFORNIA-NEVADA BORDER REGION. ML 3.2 (PAS).
	23	22	34	33.5	37.496	N	118.382	W	10	G		0.5	13	CALIFORNIA-NEVADA BORDER REGION. ML 3.4 (NEIS).
	24	00	00	23.8?	18.16	S	178.71	W	615	?	4.5	1.5	14	FIJI ISLANDS REGION
	24	00	33	17.3*	32.794	S	68.741	W	33	N		0.4	5	MENDOZA PROVINCE, ARGENTINA
	24	00	38	34.7&	34.010	N	116.650	W	6				5	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
	24	00	42	01.3*	51.401	N	176.693	W	33	N	4.9 4.5	1.0	31	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.3 (PMR). Felt on Adak and Atka.
	24	01	17	09.8	37.596	N	118.393	W	10	G		0.6	22	CALIFORNIA-NEVADA BORDER REGION. ML 3.5 (BRK).
	24	01	58	23.1&	33.970	N	116.560	W	9				12	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
	24	02	35	54.5*	7.079	S	129.403	E	112	*	5.0	1.5	18	BANDA SEA
	24	02	43	11.2	37.583	N	118.417	W	10	G		0.8	28	CALIFORNIA-NEVADA BORDER REGION. ML 4.1 (BRK), 4.2 (PAS).
	24	03	05	32.1?	56.49	N	153.07	W	33	N	4.3	1.3	17	KODIAK ISLAND REGION. ML 3.6 (PMR).
	24	03	08	53.8*	6.684	S	155.082	E	48	*	4.5	0.2	6	SOLOMON ISLANDS
	24	03	26	01.5	37.514	N	118.307	W	10	G		0.5	9	CALIFORNIA-NEVADA BORDER REGION. ML 3.2 (NEIS).
	24	04	15	49.7?	7.53	S	122.38	E	253	?	4.4	1.1	8	FLORES SEA
	24	04	16	51.3	14.203	N	93.128	W	33	N	4.5	1.1	40	NEAR COAST OF CHIAPAS, MEXICO
	24	04	39	53.7*	38.153	N	72.396	E	33	N	4.6	0.4	8	TAJIK SSR
	24	05	02	41.1?	43.79	N	87.25	E	33	N	4.5	0.5	6	NORTHERN XINJIANG, CHINA
	24	05	13	54.6&	59.896	N	153.277	W	115				27	SOUTHERN ALASKA. <AGS-P>.
	24	06	05	46.9?	25.26	N	109.62	W	10	G	4.4	1.3	17	GULF OF CALIFORNIA
	24	06	10	05.1	37.479	N	118.316	W	10	G		0.4	21	CALIFORNIA-NEVADA BORDER REGION. ML 4.2 (BRK), 3.8 (PAS).
	24	06	14	04.6	15.482	S	167.692	E	139	*	5.0	1.2	54	VANUATU ISLANDS
	24	06	24	58.6%	46.284	N	2.832	E	10	G		0.3	11	FRANCE. ML 2.5 (LDG).
	24	06	36	38.9%	42.377	N	19.945	E	10	G		0.6	7	YUGOSLAVIA. ML 2.6 (TTG).
	24	07	28	12.4*	21.539	S	66.672	W	256	*	4.6	1.1	10	SOUTHERN BOLIVIA
	24	07	52	26.6	37.359	N	121.722	W	5	G		1.0	10	CENTRAL CALIFORNIA. ML 2.7 (BRK).
	24	09	22	30.8	37.568	N	118.307	W	10	G		0.6	17	CALIFORNIA-NEVADA BORDER REGION. ML 3.6 (BRK).
	24	10	00	08.9	37.638	N	118.391	W	5	G		0.5	11	CALIFORNIA-NEVADA BORDER REGION. ML 3.5 (NEIS).
	24	10	35	05.0*	18.137	S	66.036	W	33	N		0.2	5	BOLIVIA
	24	10	53	24.3	6.747	S	129.559	E	212	*	4.4	1.0	13	BANDA SEA
	24	11	11	42.2	23.412	S	179.856	E	556		4.9	0.9	51	SOUTH OF FIJI ISLANDS
	24	11	16	09.0?	53.33	N	167.73	W	33	N	4.3	1.0	12	FOX ISLANDS, ALEUTIAN ISLANDS
	24	11	34	51.5	37.530	N	118.367	W	10	G		0.9	11	CALIFORNIA-NEVADA BORDER REGION. ML 3.3 (NEIS).
	24	14	03	26.8	51.669	N	175.254	W	33	N	4.9 4.5	1.2	71	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.3 (PMR). Felt on Adak and Atka.
	24	14	16	34.6*	14.344	N	92.945	W	33	N	4.4	1.3	28	NEAR COAST OF CHIAPAS, MEXICO
	24	14	58	45.2	37.514	N	118.289	W	10	G		0.7	16	CALIFORNIA-NEVADA BORDER REGION. ML 3.7 (BRK), 3.5 (PAS).
	24	15	05	00.0&	37.143	N	116.071	W	0		4.4		47	SOUTHERN NEVADA. <DOE>. ML 4.4 (BRK). 37' 08' 33.89" N., 116' 04' 16.02" W., Surface Elev. 1314 m., Depth of Burial 400 m., Shot Time 150500.086, "CORNUCOPIA", Nevada Test Site (Dept. of Energy).
	24	15	28	55.5&	62.480	N	149.265	W	66				37	CENTRAL ALASKA. <AGS-P>.
	24	16	10	42.6	28.434	N	139.166	E	505	*	4.8	0.9	29	BONIN ISLANDS REGION
	24	16	37	42.2&	62.450	N	148.196	W	43				29	CENTRAL ALASKA. <AGS-P>.
	24	16	44	40.7	37.529	N	118.398	W	10	G		0.5	17	CALIFORNIA-NEVADA BORDER REGION. ML 3.5 (BRK).
	24	17	44	30.1	37.672	N	20.851	E	33	N	4.1	1.3	61	IONIAN SEA. ML 4.8 (ATH).
	24	17	54	54.9	37.509	N	118.305	W	10	G		1.1	6	CALIFORNIA-NEVADA BORDER REGION. ML 3.2 (NEIS).
	24	19	03	25.9	37.467	N	118.297	W	10	G		0.7	18	CALIFORNIA-NEVADA BORDER REGION. ML 4.3 (BRK), 4.0 (PAS).
	24	19	50	51.0	37.485	N	118.315	W	10	G		0.8	7	CALIFORNIA-NEVADA BORDER REGION. ML 3.0 (NEIS).
	24	20	22	11.3&	32.980	N	117.770	W	10				7	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.1 (PAS).
	24	20	36	09.6	37.577	N	118.402	W	10	G		0.6	14	CALIFORNIA-NEVADA BORDER REGION. ML 3.4 (BRK).
	24	21	30	15.3&	58.425	N	152.128	W	55				21	KODIAK ISLAND REGION. <AGS-P>.
	24	21	42	23.9	37.598	N	118.366	W	10	G		0.6	6	CALIFORNIA-NEVADA BORDER REGION. ML 3.0 (NEIS).
	24	22	57	55.1	37.516	N	118.370	W	10	G		0.5	9	CALIFORNIA-NEVADA BORDER REGION. ML 3.2 (NEIS).
	24	23	23	26.6*	46.120	N	12.394	E	10	G		1.2	6	NORTHERN ITALY. ML 2.5 (KBA).
	24	23	24	14.0?	6.30	N	123.89	E	536	?	4.8	0.6	11	MINDANAO, PHILIPPINE ISLANDS
	25	00	31	31.5&	33.000	N	117.790	W	10				7	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).

	25	01	52	27.8?	36.03	N	139.65	E	33	N			1.2	4	HONSHU, JAPAN. Felt (I JMA) at Mita.
	25	02	24	02.3	42.857	N	18.622	E	10	G			0.9	8	YUGOSLAVIA. ML 2.5 (TTG).
	25	02	52	35.4?	40.26	N	15.00	E	10	G			0.8	5	SOUTHERN ITALY
	25	03	50	08.8&	32.940	N	117.800	W	10					7	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.2 (PAS).
	25	05	44	03.5&	34.440	N	118.420	W	6					12	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS). Felt (III) at Canyon Country and (II) at Leona Valley.
	25	06	10	31.2	37.504	N	118.416	W	10	G			0.7	11	CALIFORNIA-NEVADA BORDER REGION. ML 3.1 (PAS).
a	25	09	01	32.4	51.247	N	176.173	W	33	N	5.3	5.6	1.0	193	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.3 (PMR), Ms 5.5 (BRK). Felt (IV) on Adak.
	25	09	04	16.5	51.223	N	176.035	W	33	N	5.4	5.6	0.9	95	ANDREANOF ISLANDS, ALEUTIAN IS. Felt on Adak.
	25	09	22	30.0	7.097	S	145.654	E	65	•	4.8		1.2	15	NEAR S COAST OF PAPUA NEW GUINEA
	25	09	31	38.7	37.554	N	118.397	W	10	G			0.2	6	CALIFORNIA-NEVADA BORDER REGION. ML 3.5 (NEIS).
	25	10	06	33.0•	51.754	N	175.648	W	33	N	4.6		1.1	14	ANDREANOF ISLANDS, ALEUTIAN IS.
	25	10	08	05.7	28.085	N	57.287	E	34	D	5.2		1.0	135	SOUTHERN IRAN
	25	10	11	04.4	37.600	N	118.427	W	10	G			0.8	21	CALIFORNIA-NEVADA BORDER REGION. ML 3.6 (BRK), 3.2 (PAS).
	25	10	17	26.2%	46.002	N	3.273	E	10	G			0.3	10	FRANCE. ML 1.9 (LDG).
	25	10	17	53.4•	31.225	S	68.009	W	10	G			0.7	7	SAN JUAN PROVINCE, ARGENTINA
	25	10	35	49.5?	33.57	S	178.79	W	33	N	4.6		0.8	7	SOUTH OF KERMADEC ISLANDS
	25	10	47	41.2%	46.471	N	2.973	E	10	G			0.3	11	FRANCE. ML 3.0 (LDG).
	25	11	02	05.9	37.604	N	118.423	W	10	G			0.5	7	CALIFORNIA-NEVADA BORDER REGION. ML 3.4 (NEIS).
	25	11	29	35.3&	34.140	N	117.460	W	6	G				9	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	25	11	39	09.4&	34.040	N	116.580	W	6	G				6	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	25	14	30	03.8•	26.548	N	126.199	E	33	N	4.1		1.4	6	RYUKYU ISLANDS
	25	15	27	32.3?	13.84	N	93.02	W	33	N	3.4		1.1	13	OFF COAST OF CHIAPAS, MEXICO
	25	15	33	05.5%	46.477	N	2.957	E	10	G			0.5	7	FRANCE. ML 2.1 (LDG).
	25	17	17	02.0?	4.73	N	95.11	E	87	?	4.3		1.3	13	NORTHERN SUMATERA
	25	17	21	18.5	63.121	N	151.123	W	33	N			0.7	7	CENTRAL ALASKA. ML 3.3 (PMR).
	25	20	05	22.2?	19.41	S	175.88	W	237	?	4.9		1.2	16	TONGA ISLANDS
	25	20	43	58.6?	45.27	N	15.42	E	10	G			1.0	6	YUGOSLAVIA. ML 2.8 (KBA).
	25	20	58	53.8?	4.90	S	150.62	E	55	?	3.7		1.0	8	NEW BRITAIN REGION
	25	21	15	32.2•	49.795	N	18.552	E	10	G			1.1	7	CZECHOSLOVAKIA. ML 2.8 (VKA), 2.6 (KBA).
	25	21	33	23.5•	2.494	S	139.166	E	33	N	4.6		1.1	15	NEAR N. COAST OF WEST IRIAN
	25	21	35	35.0?	15.92	N	60.39	W	33	N			0.2	5	LEEWARD ISLANDS. ML 2.6 (FDF).
	25	21	51	58.0&	32.950	N	117.700	W	10					5	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.1 (PAS).
	25	21	52	21.8	31.942	S	178.164	W	33	N	5.0	4.8	1.1	26	KERMADEC ISLANDS REGION
	25	22	17	32.7	48.922	N	0.062	E	10	G			1.1	15	FRANCE. ML 3.0 (LDG).
	25	22	50	35.1	31.185	S	68.453	W	108	•			0.9	16	SAN JUAN PROVINCE, ARGENTINA
	25	23	25	03.1•	11.501	N	142.011	E	33	N	4.1		1.2	9	SOUTH OF MARIANA ISLANDS
	25	23	27	22.2	51.161	N	175.919	W	33	N	4.7		0.8	36	ANDREANOF ISLANDS, ALEUTIAN IS.
a	25	23	41	08.6	26.384	N	125.917	E	22		5.6	6.2	1.2	185	NORTHEAST OF TAIWAN
	26	00	08	40.0?	36.41	N	64.68	E	33	N	3.9		1.1	7	TURKMEN-AFGHANISTAN BORDER REG.
	26	01	11	49.9&	32.980	N	117.820	W	10					7	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.2 (PAS).
	26	01	19	49.2?	30.84	S	177.71	W	33	N	4.9		1.4	14	KERMADEC ISLANDS
	26	01	28	37.5?	30.06	S	178.14	W	33	N	4.6		1.2	9	KERMADEC ISLANDS
	26	01	28	50.7•	30.471	S	177.432	W	33	N	5.3		1.6	19	KERMADEC ISLANDS
	26	01	51	35.1?	31.20	S	177.04	W	33	N	4.8		0.6	6	KERMADEC ISLANDS REGION
	26	02	00	10.8	0.284	S	123.000	E	194	•	4.9		1.0	20	MINAHASSA PENINSULA
	26	02	43	37.6&	34.010	N	116.650	W	6	G				6	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	26	03	22	54.1&	61.843	N	150.671	W	53					30	SOUTHERN ALASKA. <AGS-P>.
	26	03	26	09.2•	26.667	N	126.120	E	33	N	4.2		1.2	7	RYUKYU ISLANDS
	26	03	32	23.7•	3.137	S	143.303	E	10	G	4.0		1.0	9	NEAR N COAST OF PAPUA NEW GUINEA
	26	04	17	23.8&	34.591	N	96.620	W	5	G				9	OKLAHOMA. <TUL>. mbLg 2.3 (TUL).
	26	04	33	06.5?	30.07	S	177.13	W	33	N	4.9		0.7	6	KERMADEC ISLANDS
	26	05	40	31.4&	34.010	N	116.560	W	6	G				5	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
	26	06	03	57.5•	30.910	S	177.934	W	33	N	4.9		1.2	11	KERMADEC ISLANDS
	26	06	15	37.1&	60.004	N	152.823	W	92					41	SOUTHERN ALASKA. <AGS-P>.
	26	06	54	15.9?	7.75	S	127.70	E	187	?			1.1	6	BANDA SEA
	26	07	12	15.9	37.529	N	121.645	W	5	G			0.8	13	CENTRAL CALIFORNIA. ML 3.1 (BRK).
	26	07	46	41.0?	37.06	N	21.30	E	33	N	3.3		1.1	8	SOUTHERN GREECE. ML 3.6 (ATH).
	26	07	46	46.8?	17.91	N	65.40	W	33	N			0.6	7	PUERTO RICO REGION
	26	08	02	33.0?	31.29	S	177.82	W	33	N	4.6		0.9	7	KERMADEC ISLANDS REGION
	26	08	04	03.6	46.216	N	8.548	E	10	G			1.2	5	SWITZERLAND
	26	08	41	14.7	31.710	S	117.062	E	10	G			0.2	6	WESTERN AUSTRALIA
	26	08	43	17.6•	5.105	S	153.328	E	103	•	4.4		1.2	9	NEW IRELAND REGION
	26	08	43	56.2?	30.22	S	177.97	W	33	N	4.4		1.4	6	KERMADEC ISLANDS
	26	09	15	25.4&	60.424	N	151.724	W	61					32	KENAI PENINSULA, ALASKA. <AGS-P>.
	26	09	18	48.4	37.248	N	21.455	E	58	•	3.6		1.2	19	SOUTHERN GREECE
	26	10	27	48.7•	31.758	S	67.815	W	10				1.5	9	SAN JUAN PROVINCE, ARGENTINA
	26	11	05	15.4	44.210	N	10.322	E	10	G			1.2	20	NORTHERN ITALY. ML 3.3 (LDG).
	26	11	43	11.3	30.475	S	177.743	W	33	N	5.1	4.6	1.2	48	KERMADEC ISLANDS
	26	12	32	58.7?	29.78	S	177.71	W	33	N	4.4		0.5	5	KERMADEC ISLANDS
	26	12	53	36.4?	0.49	S	122.16	E	33	N	4.4		0.9	5	MINAHASSA PENINSULA
	26	13	42	53.4	41.147	N	7.141	W	10	G			0.4	6	PORTUGAL. MG 3.2 (MDD).
	26	13	45	56.1•	42.367	N	19.936	E	10	G			0.3	5	YUGOSLAVIA. ML 2.6 (TTG).
	26	13	55	13.3?	28.93	S	72.62	W	33	N			1.2	13	OFF COAST OF CENTRAL CHILE
	26	14	21	38.7	39.398	N	28.309	E	10	G			1.1	17	TURKEY
	26	14	39	40.7	37.526	N	118.407	W	10	G			0.8	24	CALIFORNIA-NEVADA BORDER REGION. ML 4.2 (BRK), 4.2 (PAS).
	26	14	40	22.6•	7.486	S	129.957	E	113	•	4.8		1.2	13	BANDA SEA
	26	14	46	18.9	45.422	N	137.070	E	310	•	5.3		0.8	145	NEAR E. COAST OF EASTERN USSR
	26	14	49	38.3•	30.451	S	177.725	W	33	N	5.4	4.8	1.4	39	KERMADEC ISLANDS
	26	18	07	46.7?	30.39	S	177.95	W	33	N	4.6		1.4	7	KERMADEC ISLANDS
	26	18	38	10.7•	60.446	N	148.846	W	33	N			1.1	7	KENAI PENINSULA, ALASKA. ML 3.5 (PMR).
	26	18	52	44.8	53.280	N	167.191	W	33	N	4.7	4.4	0.9	68	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.8 (PMR).
	26	19	22	27.0?	17.04	N	62.07	W	33	N			0.2	5	LEEWARD ISLANDS. ML 3.7 (FDF).
	26	19	52	51.3%	46.343	N	1.431	E	10	G			0.9	13	FRANCE. ML 2.9 (LDG).
a	26	20	07	02.6	18.066	S	173.202	W	33	N	5.2		1.3	103	TONGA ISLANDS
a	26	20	24	47.8	23.753	N	94.177	E	27		5.2	5.1	1.0	147	BURMA-INDIA BORDER REGION
	26	21	58	47.4	37.615	N	118.393	W	10	G			0.7	22	CALIFORNIA-NEVADA BORDER REGION. ML 3.6 (BRK), 3.1 (PAS).
	26	22	13	04.8&	59.159	N	136.084	W	30					5	SOUTHEASTERN ALASKA. <AGS-P>.
	26	22	55	02.5	46.411	N	13.700	E	10	G			0.7	7	AUSTRIA. ML 3.0 (VKA), 2.7 (KBA), 2.6 (FUR). Felt at

													Kranjska Gora and Ratece, Yugoslavia.
	27	00	01	55.3&	59.826	N	152.946	W	113			35	SOUTHERN ALASKA. <AGS-P>.
	27	01	21	56.6?	18.70	S	172.63	W	33	N	5.0	1.4	19	TONGA ISLANDS REGION
	27	01	55	25.3	37.542	N	118.445	W	10	G		1.0	21	CALIFORNIA-NEVADA BORDER REGION. ML 3.3 (BRK), 3.4 (PAS).
	27	01	59	43.2	18.282	S	172.807	W	33	N	5.0	1.4	24	TONGA ISLANDS REGION
	27	02	30	18.3*	23.277	S	66.671	W	225		4.2	1.0	11	JUJUY PROVINCE, ARGENTINA
	27	02	44	27.8	42.347	N	20.003	E	10	G		0.5	10	YUGOSLAVIA. ML 2.8 (TTG).
	27	02	54	34.4*	10.054	S	76.356	W	33	N	4.7	0.9	8	PERU
	27	03	18	14.9*	51.054	N	176.132	W	33	N	4.4	0.9	14	ANDREANOF ISLANDS, ALEUTIAN IS.
	27	03	35	15.7?	16.96	S	72.51	W	33	N		0.5	6	NEAR COAST OF PERU. Felt (II) at Arequipa.
	27	03	49	40.5	37.367	N	118.217	W	10	G		0.6	24	CALIFORNIA-NEVADA BORDER REGION. ML 4.2 (BRK).
	27	04	16	15.5?	31.83	S	67.90	W	10	G	4.6	0.9	5	SAN JUAN PROVINCE, ARGENTINA
	27	04	22	18.6&	32.960	N	117.820	W	10				6	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.1 (PAS).
	27	04	26	59.6	31.218	S	68.663	W	116	*		0.9	18	SAN JUAN PROVINCE, ARGENTINA
	27	04	30	36.8	30.264	S	177.432	W	33	N	5.2	1.1	14	KERMADEC ISLANDS
	27	04	55	30.7?	52.78	N	169.73	W	33	N	4.4	1.4	10	FOX ISLANDS, ALEUTIAN ISLANDS
	27	06	13	47.9	35.823	N	139.887	E	130		4.3	0.5	14	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Mito and Utsunamiyo.
	27	06	30	11.3?	33.36	S	178.83	W	33	N	4.8	1.2	9	SOUTH OF KERMADEC ISLANDS
	27	06	30	25.8*	5.250	N	73.176	W	33	N		1.3	6	COLOMBIA
	27	07	18	49.6	37.503	N	118.317	W	10	G		0.6	10	CALIFORNIA-NEVADA BORDER REGION. ML 3.2 (NEIS).
	27	07	31	07.2&	60.581	N	153.034	W	139				24	SOUTHERN ALASKA. <AGS-P>.
	27	08	47	29.9	37.574	N	118.347	W	10	G		0.4	9	CALIFORNIA-NEVADA BORDER REGION. ML 3.2 (NEIS).
	27	10	04	42.7&	61.987	N	149.680	W	44				30	SOUTHERN ALASKA. <AGS-P>.
	27	10	08	02.3	37.537	N	118.314	W	10	G		0.8	24	CALIFORNIA-NEVADA BORDER REGION. ML 3.9 (BRK), 4.0 (PAS).
a	27	10	43	26.0	25.848	S	177.490	W	147	G	5.8	1.1	217	SOUTH OF FIJI ISLANDS. Depth from broadband displacement seismograms.
	27	10	47	45.2?	15.99	S	178.07	E	33	N		0.5	7	FIJI ISLANDS
	27	12	36	04.1*	17.437	S	71.834	W	85	*		0.4	8	NEAR COAST OF PERU
	27	12	43	47.5	39.466	N	28.262	E	10	G		1.1	11	TURKEY
a	27	12	58	17.6	33.119	S	178.594	W	33	N	5.1 4.7	1.2	36	SOUTH OF KERMADEC ISLANDS
	27	15	35	59.3	17.708	N	69.918	W	47		4.9	0.6	88	DOMINICAN REPUBLIC REGION. Felt in the Santo Domingo area.
	27	16	48	00.8*	23.930	N	122.620	E	33	N	4.2	0.4	7	TAIWAN REGION
	27	17	39	02.5*	34.580	N	80.156	E	33	N	4.7	1.1	13	TIBET
	27	17	48	22.5?	16.59	N	99.35	W	33	N	4.4	1.0	19	NEAR COAST OF GUERRERO, MEXICO
	27	17	50	31.2&	60.411	N	152.973	W	118				22	SOUTHERN ALASKA. <AGS-P>.
	27	18	09	11.3?	18.87	S	172.62	W	33	N	4.2	1.2	8	TONGA ISLANDS REGION
	27	18	09	21.7*	18.455	S	172.732	W	33	N	4.5 4.6	1.1	20	TONGA ISLANDS REGION
	27	18	50	27.8?	18.15	S	172.91	W	33	N	4.9	1.3	14	TONGA ISLANDS REGION
	27	20	17	55.3*	40.905	N	28.344	E	10	G		0.4	5	TURKEY
	27	22	37	30.3	38.229	N	22.760	E	10	G		0.6	8	GREECE. ML 3.1 (ATH).
	27	22	58	39.1	37.523	N	121.680	W	10	G		0.5	12	CENTRAL CALIFORNIA. ML 2.6 (BRK).
	27	23	37	41.6*	20.822	S	178.801	W	596		4.7	0.8	34	FIJI ISLANDS REGION
	27	23	47	33.1*	33.308	S	178.476	W	33	N	4.9 5.0	1.3	21	SOUTH OF KERMADEC ISLANDS
	28	00	23	16.9&	62.790	N	151.286	W	46				18	CENTRAL ALASKA. <AGS-P>.
	28	00	31	19.7	44.714	N	10.333	E	10	G		1.4	23	NORTHERN ITALY. ML 3.3 (LDG), 3.1 (KBA).
	28	00	43	36.3	32.480	N	130.524	E	14		4.5	1.0	19	KYUSHU, JAPAN. Felt (III JMA) at Kumamoto, (II JMA) at Asosan, Fukuoka, Nobeoka, Saga and Unzendake, and (I JMA) at Nagasaki.
	28	00	47	35.1*	6.527	S	130.658	E	58	?	4.5	1.5	11	BANDA SEA
	28	01	04	32.6?	28.30	N	52.00	E	33	N	3.5	1.3	5	SOUTHERN IRAN
	28	01	19	14.2	33.545	N	87.860	E	33	N	4.8	0.8	69	TIBET
	28	02	04	50.9?	29.10	S	176.36	W	33	N	4.7 4.4	1.6	8	KERMADEC ISLANDS REGION
	28	02	54	45.9&	32.940	N	117.820	W	10				20	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.6 (PAS).
	28	03	03	24.4?	33.31	S	71.86	W	33	N		1.2	10	NEAR COAST OF CENTRAL CHILE
	28	03	29	56.0	33.276	S	72.045	W	41	*	4.7 4.7	1.1	42	OFF COAST OF CENTRAL CHILE. Felt (III) at Santiago.
	28	03	54	19.2?	33.47	S	72.60	W	33	N		0.4	8	OFF COAST OF CENTRAL CHILE
	28	03	56	08.7?	33.45	S	72.63	W	33	N		0.5	8	OFF COAST OF CENTRAL CHILE
a	28	04	06	50.2	51.599	N	174.096	W	33	N	5.4 4.8	0.9	196	ANDREANOF ISLANDS, ALEUTIAN IS. Ms 4.6 (BRK), ML 4.5 (PMR). Felt (II) an Adak.
	28	04	54	15.8*	51.871	N	175.992	W	33	N	4.8 4.6	1.1	30	ANDREANOF ISLANDS, ALEUTIAN IS.
	28	05	01	59.6	52.862	N	166.590	W	33	N	5.0 4.6	0.9	95	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.7 (PMR). Felt at Unalaska.
	28	05	49	19.0?	33.48	S	72.48	W	33	N		0.5	7	OFF COAST OF CENTRAL CHILE
	28	05	53	30.2*	45.496	N	26.530	E	33	N		0.8	5	ROMANIA
	28	07	02	37.8*	28.417	S	69.501	W	138	?		1.3	11	CHILE-ARGENTINA BORDER REGION
	28	08	28	20.8&	62.135	N	149.778	W	50				33	CENTRAL ALASKA. <AGS-P>.
	28	09	04	42.5*	2.404	S	128.118	E	33	N	4.3	1.2	12	CERAM SEA
	28	09	26	03.8%	39.130	N	29.610	E	10	G		0.8	11	TURKEY
	28	09	30	58.0?	6.39	S	150.37	E	33	N	3.8	1.4	6	NEW BRITAIN REGION
	28	10	16	09.8?	45.53	N	26.52	E	145	?		0.4	8	ROMANIA
	28	10	33	09.3&	32.900	N	117.850	W	10				7	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.4 (PAS).
	28	10	48	52.1	34.257	N	9.474	E	10	G	4.4	1.1	34	TUNISIA
	28	11	03	19.6*	2.373	S	128.191	E	33	N	4.5	1.3	18	CERAM SEA
	28	11	48	33.1	39.140	S	174.796	E	137	*	4.5	1.3	17	NORTH ISLAND, NEW ZEALAND. Felt in the southern part of North Island.
	28	13	39	07.7*	36.465	N	134.175	E	33	N		1.2	6	SEA OF JAPAN. Felt (II JMA) at Tottari and (I JMA) at Saigo.
	28	13	58	55.3&	59.848	N	153.400	W	124				39	SOUTHERN ALASKA. <AGS-P>.
	28	14	00	57.4&	32.950	N	117.720	W	10				6	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.0 (PAS).
	28	14	24	01.8?	33.54	S	72.34	W	33	N		1.0	8	OFF COAST OF CENTRAL CHILE
	28	14	31	14.1&	60.577	N	150.386	W	47		4.4		56	KENAI PENINSULA, ALASKA. <AGS-P>. Felt (IV) at Anchorage. Also felt at Hamer, Kenai, Palmer and Seward.
	28	16	57	53.2	24.072	S	67.099	W	200	*		0.5	7	CHILE-ARGENTINA BORDER REGION
	28	17	20	02.3	32.910	S	72.517	W	33	N	4.1	0.7	14	OFF COAST OF CENTRAL CHILE
	28	18	46	49.3	42.375	N	19.913	E	10	G		0.5	9	YUGOSLAVIA. ML 2.5 (TTG).
a	28	20	29	02.7	33.282	S	71.934	W	41	*	5.1 5.3	1.3	86	NEAR COAST OF CENTRAL CHILE. Felt (IV) at Santa Dominga, Quillata, Vina del Mar and San Antonio, and (III) at Santiago and Valparaiso.

	28	20	39	06.3*	33.488	S	72.079	W	33	N		0.7	9	OFF COAST OF CENTRAL CHILE
	28	20	43	50.5?	33.50	S	72.70	W	33	N		0.3	8	OFF COAST OF CENTRAL CHILE
	28	20	44	48.4%	39.586	N	28.390	E	10	G		0.5	5	TURKEY
	28	20	54	53.7	70.915	N	7.219	W	10	G	4.3 4.6	0.9	37	JAN MAYEN ISLAND REGION
	28	21	11	19.0	33.314	S	72.031	W	45	*	5.0 5.1	1.2	55	OFF COAST OF CENTRAL CHILE. Felt.
	28	21	30	30.1*	33.612	S	72.129	W	33	N	4.3	1.0	13	OFF COAST OF CENTRAL CHILE. Felt.
a	28	21	57	13.0	51.776	N	175.301	W	33	N	5.4 4.9	0.9	167	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.9 (PMR). Felt on Adak.
	28	21	59	08.7?	33.51	S	72.23	W	33	N		0.8	9	OFF COAST OF CENTRAL CHILE
	28	22	38	00.6?	33.49	S	72.40	W	33	N		0.6	9	OFF COAST OF CENTRAL CHILE
	28	22	50	35.7	21.008	S	68.671	W	134		4.7	1.2	35	CHILE-BOLIVIA BORDER REGION
	28	23	21	22.6	51.001	N	5.519	E	10	G		0.8	6	NETHERLANDS
	28	23	29	18.1	51.748	N	175.203	W	33	N	4.7 4.3	1.1	63	ANDREANOF ISLANDS, ALEUTIAN IS.
	28	23	38	51.5	39.447	N	28.291	E	10	G		1.3	11	TURKEY
	29	02	55	36.0*	33.510	S	72.538	W	33	N		0.7	12	OFF COAST OF CENTRAL CHILE
	29	03	16	55.1*	51.905	N	175.097	W	33	N	4.4	0.4	7	ANDREANOF ISLANDS, ALEUTIAN IS.
	29	03	17	36.5	36.420	N	45.436	E	17		4.6	1.2	14	IRAN-IRAQ BORDER REGION
	29	03	20	26.1?	23.63	S	70.78	W	10	G		1.7	5	NEAR COAST OF NORTHERN CHILE. Felt (III) at Antofagosta.
	29	03	36	26.0*	37.931	N	28.893	E	10	G		0.2	5	TURKEY
	29	06	43	50.2&	33.970	N	116.590	W	7				11	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
	29	07	09	21.3*	7.336	S	129.872	E	95	?	4.6	0.8	7	BANDA SEA
	29	07	11	58.6	37.540	N	118.367	W	10	G		0.7	26	CALIFORNIA-NEVADA BORDER REGION. ML 4.2 (BRK), 4.3 (PAS).
	29	07	54	20.1	34.937	N	26.221	E	51	*	4.0	0.8	26	CRETE
	29	08	07	23.1	33.427	S	72.413	W	33	N	4.3	1.0	17	OFF COAST OF CENTRAL CHILE
	29	08	13	02.7?	33.54	S	72.20	W	33	N		0.7	9	OFF COAST OF CENTRAL CHILE
a	29	08	14	59.5	21.264	S	175.544	W	110	D	5.4	1.0	92	TONGA ISLANDS
	29	08	17	41.6&	32.930	N	117.840	W	10		3.9		42	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 4.3 (PAS). Felt (V) at Oceanside, San Diego and Poway. Felt (IV) at Capistrano Beach, Escondido, San Marcos, Santee and Vista.
	29	08	50	40.8?	31.66	S	68.27	W	129	*		0.3	7	SAN JUAN PROVINCE, ARGENTINA
	29	09	24	53.7	20.500	S	68.822	W	132	*	4.3	1.5	30	CHILE-BOLIVIA BORDER REGION
	29	09	52	52.9&	32.940	N	117.810	W	10				6	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.1 (PAS).
	29	09	56	24.5?	2.26	S	77.91	W	190	?	4.4	1.2	13	PERU-ECUADOR BORDER REGION
	29	09	57	57.0	37.593	N	118.447	W	10	G	3.7	0.7	38	CALIFORNIA-NEVADA BORDER REGION. ML 4.6 (BRK), 4.6 (PAS). Felt (IV) at Bishop, California.
	29	09	58	32.1*	49.400	S	121.454	E	10	G	4.3	1.5	15	SOUTH OF AUSTRALIA
	29	10	22	58.4*	13.968	N	144.420	E	149		4.7	0.6	13	MARIANA ISLANDS
	29	11	22	22.5&	32.930	N	117.830	W	10				13	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.5 (PAS).
a	29	11	57	47.5	17.622	S	178.517	W	560		5.1	0.9	110	FIJI ISLANDS REGION
	29	12	03	19.4&	34.000	N	116.570	W	6	G			5	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
	29	13	13	40.8?	59.41	N	6.76	E	10	G		1.4	5	SOUTHERN NORWAY. MD 2.3 (BER).
	29	13	32	05.9&	32.970	N	117.810	W	10	G			6	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.2 (PAS).
	29	15	14	25.2	37.447	N	118.304	W	10	G		0.6	23	CALIFORNIA-NEVADA BORDER REGION. ML 4.2 (BRK), 3.5 (PAS).
	29	15	21	33.5	42.381	N	19.951	E	10	G		0.4	7	YUGOSLAVIA. ML 2.5 (TTG).
	29	17	40	50.0	36.664	N	27.849	E	100		4.0	1.1	47	DODECANESE ISLANDS
	29	17	50	39.3*	33.504	S	72.351	W	12		4.1	1.0	14	OFF COAST OF CENTRAL CHILE
	29	18	25	49.0	43.927	N	147.126	E	73	D	4.8	0.9	63	KURIL ISLANDS. Felt (I JMA) at Kushiro and Nemuro, Hokkaido.
	29	19	04	18.9	44.247	N	114.136	W	5	G		0.9	10	WESTERN IDAHO. ML 3.5 (NEIS).
	29	21	34	18.4?	12.30	S	77.96	W	33	N		0.5	6	NEAR COAST OF PERU. Felt (IV) at Lima.
	29	22	46	03.6	42.348	N	19.991	E	10	G		0.8	9	YUGOSLAVIA. ML 2.6 (TTG).
	29	23	50	38.0&	32.960	N	117.800	W	10				5	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.2 (PAS).
	30	00	26	30.3&	32.950	N	117.830	W	10				17	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.4 (PAS).
	30	00	29	50.8&	62.549	N	151.412	W	95				17	CENTRAL ALASKA. <AGS-P>.
	30	00	46	50.1	37.561	N	118.455	W	10	G		0.7	22	CALIFORNIA-NEVADA BORDER REGION. ML 3.6 (BRK), 3.3 (PAS).
	30	02	12	58.7	34.680	N	32.343	E	36		4.8	1.1	142	CYPRUS. ML 4.8 (JER), 4.4 (BHL). Felt at Paphos and Limassol.
	30	02	40	24.4%	42.410	N	18.630	E	10	G		0.5	5	YUGOSLAVIA. ML 2.0 (TTG).
	30	03	03	20.9	7.214	S	129.422	E	152		5.3	1.1	73	BANDA SEA
a	30	04	02	53.4	18.048	S	174.864	W	174		5.0	0.8	71	TONGA ISLANDS
	30	04	03	24.8	33.160	N	75.793	E	33	N	4.6	0.6	18	EASTERN KASHMIR
	30	04	14	02.5*	44.578	N	5.862	E	10	G		0.3	6	FRANCE. ML 2.5 (LDG).
	30	04	38	22.0*	24.752	N	94.156	E	67	?		1.3	8	BURMA-INDIA BORDER REGION
	30	04	57	03.4?	5.32	N	94.77	E	99	?	4.3	0.4	5	NORTHERN SUMATERA
	30	05	55	14.4	15.229	N	146.371	E	82	*	4.7	0.8	33	MARIANA ISLANDS
	30	06	03	32.1	37.633	N	118.403	W	10	G		0.5	27	CALIFORNIA-NEVADA BORDER REGION. ML 4.0 (BRK), 3.8 (PAS).
	30	06	09	16.6?	30.19	S	75.71	W	33	N		0.9	11	OFF COAST OF CENTRAL CHILE
	30	06	41	52.7	37.562	N	118.424	W	10	G	4.1	0.9	44	CALIFORNIA-NEVADA BORDER REGION. ML 4.8 (BRK), 4.8 (PAS). Felt (V) at Benton, California and (IV) at Bishop, California.
	30	07	58	37.5*	38.118	N	72.293	E	33	N	4.3	0.7	5	TAJIK SSR
	30	08	19	06.5	42.481	N	111.223	W	5	G		0.6	9	EASTERN IDAHO. ML 3.5 (NEIS).
	30	09	12	26.8*	4.657	N	94.943	E	55	*	4.4	0.7	10	OFF W COAST OF NORTHERN SUMATERA
	30	11	10	06.6*	15.797	S	167.980	E	169	?	4.5	1.3	26	VANUATU ISLANDS
a	30	11	31	50.1	24.611	N	121.782	E	33	N	5.6 5.6	1.1	209	TAIWAN. Felt on eastern Taiwan.
	30	13	26	20.9	63.072	N	151.021	W	112	?		0.9	8	CENTRAL ALASKA
	30	14	03	53.6&	62.439	N	148.182	W	42				32	CENTRAL ALASKA. <AGS-P>.
	30	14	20	58.5	42.371	N	19.979	E	10	G		0.6	8	YUGOSLAVIA. ML 2.4 (TTG).
	30	14	33	03.5*	39.098	N	27.709	E	10	G		0.6	5	TURKEY
	30	14	36	54.7*	20.746	S	169.318	E	61	*	4.5	1.2	31	VANUATU ISLANDS
	30	15	18	41.9*	10.991	S	166.359	E	33	N	4.4	1.2	23	SANTA CRUZ ISLANDS
	30	15	25	15.2*	5.983	S	146.750	E	81	?		1.0	6	EAST PAPUA NEW GUINEA REGION
	30	16	45	44.3	39.423	N	28.345	E	10	G		1.1	8	TURKEY
	30	17	01	17.5%	42.369	N	19.963	E	10	G		0.7	6	YUGOSLAVIA. ML 2.6 (TTG).
	30	17	59	39.7?	59.40	N	6.71	E	10	G		0.8	6	SOUTHERN NORWAY. MD 2.4 (BER).
	30	18	26	56.4*	6.145	S	122.984	E	33	N	4.5	1.2	13	FLORES SEA
	30	18	35	54.3&	60.314	N	153.466	W	174				30	SOUTHERN ALASKA. <AGS-P>.

	30	18	39	49.7*	38.977	N	30.019	E	10	G		1.7	5	TURKEY
	30	18	59	30.1?	36.39	N	28.50	E	33	N		0.3	5	DODECANESE ISLANDS
	30	19	22	07.0	11.089	N	86.031	W	33	N	5.0 4.6	1.0	70	NEAR COAST OF NICARAGUA
	30	19	33	07.3*	37.933	N	20.900	E	10	G		0.8	8	IONIAN SEA. ML 3.7 (ATH).
	30	20	24	38.6	8.243	S	159.305	E	83		4.6	1.1	24	SOLOMON ISLANDS. Felt (I) at Honiara.
a	30	21	25	35.4*	52.441	S	18.180	E	10	G	5.4 4.7	1.2	33	SOUTHWEST OF AFRICA
	30	22	17	41.3*	52.559	S	18.447	E	10	G	4.9 4.9	0.8	13	SOUTHWEST OF AFRICA
	30	22	51	13.0&	32.990	N	117.800	W	10				23	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.9 (PAS).
a	30	22	58	40.4*	52.556	S	17.927	E	10	G	5.1 5.3	1.1	28	SOUTHWEST OF AFRICA
	30	23	02	32.1	18.852	N	69.814	W	90	D	4.7	0.8	83	DOMINICAN REPUBLIC REGION
	30	23	35	45.0?	37.26	N	19.84	E	10	G		0.6	5	IONIAN SEA. ML 3.6 (ATH).
	30	23	35	53.5*	52.436	S	18.337	E	10	G	5.0 4.8	1.1	22	SOUTHWEST OF AFRICA
a	31	00	12	42.5*	52.512	S	18.494	E	10	G	5.2 5.0	1.1	33	SOUTHWEST OF AFRICA
	31	00	18	07.0?	52.38	S	18.53	E	10	G	4.8	1.0	6	SOUTHWEST OF AFRICA
	31	00	45	53.5?	45.65	N	4.86	E	10	G		1.2	7	FRANCE. ML 2.9 (LDG).
	31	01	17	26.4&	62.346	N	151.030	W	76				32	CENTRAL ALASKA. <AGS-P>.
	31	02	53	58.8?	52.55	S	18.01	E	10	G	5.0	1.5	11	SOUTHWEST OF AFRICA
	31	03	25	29.9?	33.58	S	72.72	W	33	N		0.8	12	OFF COAST OF CENTRAL CHILE
	31	03	53	50.2	42.358	N	19.991	E	10	G		0.4	7	YUGOSLAVIA. ML 2.4 (TTG).
a	31	04	00	20.3*	52.515	S	18.608	E	10	G	5.4 4.9	1.3	22	SOUTHWEST OF AFRICA
	31	04	50	14.2&	34.010	N	116.630	W	10				5	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	31	05	36	26.2	42.356	N	20.014	E	10	G		0.6	6	YUGOSLAVIA. ML 2.4 (TTG).
	31	05	58	25.6?	33.56	S	72.12	W	33	N		1.0	11	OFF COAST OF CENTRAL CHILE
a	31	07	22	40.2	37.463	N	118.374	W	5	G	5.5 5.2	1.0	187	CALIFORNIA-NEVADA BORDER REGION. ML 5.8 (BRK), 5.9 (PAS). Felt strongly in the Bishop-Chalfant Valley area, California. Felt (V) at Big Pine, Camp Nelson, Sonora and Sequoia National Park, California. Also felt (V) at Dyer, Nevada.
	31	07	28	03.8&	37.530	N	118.420	W	6	G			12	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 4.5 (BRK), 4.4 (PAS).
	31	07	36	02.4&	37.472	N	118.397	W	4				17	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 4.0 (BRK), 3.8 (PAS).
	31	07	50	46.0	37.506	N	118.311	W	5	G		0.9	15	CALIFORNIA-NEVADA BORDER REGION. ML 3.8 (BRK), 3.7 (PAS).
	31	07	51	42.9&	33.970	N	116.570	W	7				9	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
	31	08	10	42.7	37.458	N	118.294	W	10	G		0.6	25	CALIFORNIA-NEVADA BORDER REGION. ML 3.8 (BRK), 3.5 (PAS).
	31	08	15	39.4	37.516	N	118.307	W	10	G		0.7	19	CALIFORNIA-NEVADA BORDER REGION. ML 4.0 (BRK), 3.4 (PAS).
	31	09	16	32.4&	60.717	N	151.044	W	50				32	KENAI PENINSULA, ALASKA. <AGS-P>.
	31	09	33	14.3&	61.767	N	149.567	W	41				38	SOUTHERN ALASKA. <AGS-P>. ML 3.2 (PMR). Felt at Anchorage, Palmer and Willow.
a	31	09	37	24.0*	52.566	S	18.430	E	10	G	5.1 5.5	1.4	27	SOUTHWEST OF AFRICA
	31	10	06	38.8*	31.291	S	67.470	W	33	N		1.1	6	SAN JUAN PROVINCE, ARGENTINA
	31	10	57	09.3	5.761	S	150.556	E	90		4.7	1.2	31	NEW BRITAIN REGION
	31	11	14	01.1?	52.55	S	18.61	E	10	G	5.0 4.0	0.7	7	SOUTHWEST OF AFRICA
	31	11	25	49.8	37.572	N	118.411	W	10	G		0.4	9	CALIFORNIA-NEVADA BORDER REGION. ML 3.1 (NEIS).
a	31	11	36	35.4	24.829	N	122.761	E	33	N	5.1 5.2	1.2	44	TAIWAN REGION
	31	12	26	10.7	42.765	N	17.964	E	10	G		1.4	22	ADRIATIC SEA. ML 4.2 (TRI). Felt at Popovo Polje, Yugoslovia.
	31	13	12	14.5%	58.314	N	6.214	E	10	G		0.7	6	SOUTHERN NORWAY. MD 2.2 (BER).
	31	13	30	43.2*	19.936	S	173.853	W	33	N	4.6	1.0	15	TONGA ISLANDS
	31	14	04	34.5&	60.797	N	149.614	W	45				39	KENAI PENINSULA, ALASKA. <AGS-P>. ML 3.7 (PMR). Felt at Anchoroge and Girdwood.
	31	14	05	23.5*	10.191	S	114.116	E	33	N	4.4	1.5	9	SOUTH OF BALI ISLAND
	31	14	17	23.3*	14.196	N	92.769	W	33	N		1.0	14	NEAR COAST OF CHIAPAS, MEXICO. Felt (I) in the Tacana Volcano area.
	31	14	50	55.5*	10.565	S	113.644	E	33	N	4.2	0.6	7	SOUTH OF JAVA
	31	15	19	28.0&	40.268	N	124.407	W	5	G			7	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.2 (BRK).
	31	15	58	21.2*	24.586	S	70.544	W	99	*		1.3	12	NEAR COAST OF NORTHERN CHILE
	31	16	06	27.6*	45.551	N	25.467	E	10	G		1.1	5	ROMANIA
	31	17	21	01.2&	60.04B	N	140.718	W	7				17	SOUTHEASTERN ALASKA. <AGS-P>.
	31	18	13	40.0&	32.950	N	117.820	W	6	G			6	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.2 (PAS).
	31	18	30	35.9?	52.35	S	18.51	E	10	G	4.9	1.4	15	SOUTHWEST OF AFRICA
	31	18	31	03.7*	1.768	S	128.701	E	33	N	4.0	0.8	7	HALMAHERA
	31	18	43	15.2?	9.51	S	121.00	E	194	?		0.5	5	SUMBA ISLAND REGION
	31	18	43	21.9?	38.21	N	20.09	E	10	G		1.5	11	GREECE. ML 3.8 (ATH).
	31	19	13	31.1*	53.443	N	167.171	W	33	N	4.7	1.2	14	FOX ISLANDS, ALEUTIAN ISLANDS
a	31	19	33	58.4*	52.421	S	18.099	E	10	G	5.1 4.7	1.1	35	SOUTHWEST OF AFRICA
	31	20	26	08.8*	38.001	N	30.648	E	10	G		1.3	8	TURKEY
	31	20	38	11.7*	27.802	N	142.595	E	51	*	4.7	0.9	13	BONIN ISLANDS REGION

ADDITIONAL SOURCE PARAMETERS

01 00 49 07.18 15.564S 172.452W 33km
5.4mb (38 obs.) 5.7Msz (18 obs.)
SAMOA ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 40C
Centroid Location:
Origin Time 00:49:15.5 0.3
Lat 15.92S 0.03 Lon 172.69W 0.03
Dep 15.0 BDY Half-duration 3.4
Principal Axes:
Scale 10**25 D-CM

	Val=	Plg=	Azm=
T	1.34	59	244
N	0.22	16	2
P	-1.57	26	100

Best Double Couple:Mo=1.5*10**25
NP1:Strike=222 Dip=24 Slip= 132
NP2: 357 72 73

01 06 03 09.55 4.758S 127.989E 33km
5.6mb (40 obs.) 5.5Msz (11 obs.)
BANDA SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 25C
Centroid Location:
Origin Time 06:03: 9.3 0.6
Lat 5.53S 0.07 Lon 128.13E 0.03
Dep 36.9 3.8 Half-duration 3.2
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	7.38	2	257
N	1.21	62	163
P	-8.59	28	348

Best Double Couple:Mo=8.0*10**24
NP1:Strike= 29 Dip=69 Slip= -19
NP2: 126 72 -158

01 07 32 54.08 3.236S 148.498E 10km
5.3mb (22 obs.) 5.6Msz (8 obs.)
BISMARCK SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 30C
Centroid Location:
Origin Time 07:33: 0.2 0.4
Lat 3.36S 0.04 Lon 148.81E 0.04
Dep 15.0 BDY Half-duration 3.3
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	7.69	12	333
N	0.51	77	134
P	-8.19	4	242

Best Double Couple:Mo=7.9*10**24
NP1:Strike= 17 Dip=79 Slip= 174
NP2: 108 84 11

01 08 40 01.12 3.213S 148.527E 10km
5.4mb (17 obs.) 5.5Msz (3 obs.)
BISMARCK SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 29C
Centroid Location:
Origin Time 08:40: 5.3 0.6
Lat 3.42S 0.06 Lon 148.59E 0.06
Dep 15.0 BDY Half-duration 2.9
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	4.47	1	153
N	1.47	69	247
P	-5.93	21	63

Best Double Couple:Mo=5.2*10**24
NP1:Strike=200 Dip=74 Slip=-166
NP2: 106 76 -16

02 01 37 33.65 0.679S 99.966E 90km
5.3mb (33 obs.)
SOUTHERN SUMATERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 22C
Centroid Location:
Origin Time 01:37:37.2 1.1
Lat 0.68S 0.09 Lon 99.70E 0.14
Dep 83.9 9.8 Half-duration 1.3
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	3.63	17	59
N	1.17	17	155
P	-4.81	65	287

Best Double Couple:Mo=4.2*10**23
NP1:Strike=124 Dip=31 Slip=-125
NP2: 343 65 -71

02 04 16 57.74 22.038S 179.534W 598km
5.6mb (49 obs.)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 27C
Centroid Location:
Origin Time 04:17: 3.7 0.3
Lat 22.04S 0.04 Lon 179.49W 0.03
Dep 598.3 1.8 Half-duration 2.8
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	4.70	38	96
N	0.75	17	200
P	-5.45	47	309

Best Double Couple:Mo=5.1*10**24
NP1:Strike=125 Dip=18 Slip=-166
NP2: 21 86 -73

02 10 20 25.38 7.807S 150.640E 29km
5.5mb (38 obs.) 4.6Msz (1 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 22C
Centroid Location:
Origin Time 10:20:31.2 2.0
Lat 7.93S 0.13 Lon 150.85E 0.14
Dep 15.0 BDY Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	2.35	0	138
N	0.97	0	48
P	-3.32	90	180

Best Double Couple:Mo=2.8*10**23
NP1:Strike=228 Dip=45 Slip= -90
NP2: 48 45 -90

02 12 53 08.14 59.550S 26.164W 53km
5.6mb (14 obs.)
SOUTH SANDWICH ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 30C
Centroid Location:
Origin Time 12:53:13.6 0.3
Lat 60.02S 0.05 Lon 26.36W 0.10
Dep 20.9 2.7 Half-duration 2.2
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	2.23	57	237
N	-0.07	23	9
P	-2.16	21	109

Best Double Couple:Mo=2.2*10**24
NP1:Strike=234 Dip=31 Slip= 139
NP2: 0 70 65

02 20 45 50.53 26.775S 114.283W 10km
5.6mb (33 obs.) 5.5Msz (12 obs.)
EASTER ISLAND REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 37C
Centroid Location:
Origin Time 20:45:56.1 0.2
Lat 26.97S 0.04 Lon 114.28W 0.03
Dep 15.0 FIX Half-duration 2.5
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	4.42	14	57
N	-1.29	19	152
P	-3.13	66	294

Best Double Couple:Mo=3.8*10**24
NP1:Strike=123 Dip=35 Slip=-124
NP2: 343 61 -68

03 00 12 14.02 59.264S 26.934W 33km
5.4mb (11 obs.) 4.9Msz (2 obs.)
SOUTH SANDWICH ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 27C
Centroid Location:
Origin Time 00:12:17.7 0.8
Lat 59.17S 0.09 Lon 27.09W 0.22
Dep 19.2 5.5 Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	7.76	65	355
N	-0.96	5	96
P	-6.81	24	189

Best Double Couple:Mo=7.3*10**23
NP1:Strike=290 Dip=22 Slip= 105
NP2: 94 69 84

05 03 01 32.60 51.248N 179.746W 33km
5.6mb (88 obs.) 5.2Msz (19 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 33C
Centroid Location:
Origin Time 03:01:36.6 0.4
Lat 51.44N 0.04 Lon 179.87E 0.07
Dep 15.0 BDY Half-duration 2.4
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	3.48	64	319
N	0.11	5	59
P	-3.58	26	151

Best Double Couple:Mo=3.5*10**24
NP1:Strike=252 Dip=20 Slip= 104
NP2: 57 71 85

05 14 11 17.79 12.183N 140.933E 38km
5.4mb (40 obs.) 5.1Msz (1 obs.)
WEST CAROLINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 28C
Centroid Location:
Origin Time 14:11:17.9 0.5
Lat 12.14N 0.04 Lon 141.21E 0.05
Dep 15.0 BDY Half-duration 2.0
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	1.86	14	324
N	0.40	21	229
P	-2.26	65	87

Best Double Couple:Mo=2.1*10**24
NP1:Strike= 81 Dip=36 Slip= -53
NP2: 218 62 -113

05 19 57 38.62 60.721S 153.771E 10km
5.5mb (17 obs.) 5.6Msz (9 obs.)
WEST OF MACQUARIE ISLAND
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 37C
Centroid Location:
Origin Time 19:57:52.4 0.1
Lat 60.05S 0.02 Lon 152.98E 0.04
Dep 15.0 FIX Half-duration 3.7
Principal Axes:
Scale 10**25 D-CM

	Val=	Plg=	Azm=
T	1.49	2	22
N	-0.08	71	285
P	-1.40	19	113

Best Double Couple:Mo=1.4*10**25
NP1:Strike=156 Dip=75 Slip= -12
NP2: 249 79 -165

05 22 09 36.95 15.467N 92.582W 112km
5.4mb (92 obs.)
MEXICO-GUATEMALA BORDER REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 30C
Centroid Location:
Origin Time 22:09:35.8 0.3
Lat 15.31N 0.04 Lon 92.68W 0.03
Dep 72.4 2.5 Half-duration 3.7
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	14.03	23	45
N	-3.73	2	314
P	-10.30	66	218

Best Double Couple:Mo=1.2*10**25
NP1:Strike=139 Dip=22 Slip= -84
NP2: 313 69 -92

06 19 24 22.99 34.424N 80.161E 9km
5.8mb (86 obs.) 6.1Msz (17 obs.)
TIBET
FAULT PLANE SOLUTION: P-Woves

NP1:Strike=270 Dip=68 Slip= -12
NP2: 5 79 -158
Principal Axes:
T Plg= 7 Azm=136
P 24 229
Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting with a moderate normal component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 8 No. of sta: 10
Principal Axes:
Scale 10**24 d-cm
T Val= 4.49 Plg=14 Azm=157
N -0.37 44 53
P -4.13 43 260
Best Double Couple:Mo=4.3*10**24
NP1:Strike=288 Dip=50 Slip= -24
NP2: 35 72 -137
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 33C
Centroid Location:
Origin Time 19:24:29.5 0.2
Lat 34.24N 0.03 Lon 80.15E 0.04
Dep 15.0 BDY Half-duration 3.8
Principal Axes:
Scale 10**24 D-CM
T Val= 11.22 Plg= 1 Azm=129
N -2.36 69 37
P -8.85 21 220
Best Double Couple:Mo=1.0*10**25
NP1:Strike=263 Dip=74 Slip= -15
NP2: 357 76 -164

07 16 26 56.61 10.389N 56.832E 8km
6.4mb (68 obs.) 6.2Msz (30 obs.)
CARLSBERG RIDGE
MOMENT TENSOR SOLUTION
Dep 2 No. of sta: 8
Principal Axes:
Scale 10**25 d-cm
T Val= 6.16 Plg=58 Azm=356
N 0.37 6 256
P -6.53 31 162
Best Double Couple:Mo=6.3*10**25
NP1:Strike=233 Dip=15 Slip= 66
NP2: 78 76 96
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 43C M.W.: 9S, 22C
Centroid Location:
Origin Time 16:27: 7.7 0.2
Lat 11.29N 0.02 Lon 57.33E 0.02
Dep 15.0 BDY Half-duration 5.9
Principal Axes:
Scale 10**25 D-CM
T Val= 4.17 Plg=84 Azm=267
N -0.38 5 56
P -3.78 3 147
Best Double Couple:Mo=4.0*10**25
NP1:Strike=242 Dip=42 Slip= 98
NP2: 52 48 83

08 09 20 44.50 34.000N 116.610W 12km
5.8mb (87 obs.) 6.0Msz (14 obs.)
SOUTHERN CALIFORNIA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 49 Dip=80 Slip= 35
NP2: 312 56 168
Principal Axes:
T Plg=31 Azm=276
P 16 176
Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting with o large reverse component. The preferred foult plone is not determined.
MOMENT TENSOR SOLUTION
Dep 5 No. of sta: 10
Principal Axes:
Scale 10**25 d-cm
T Val= 2.24 Plg=43 Azm=291
N 0.13 40 74
P -2.37 20 181
Best Double Couple:Mo=2.3*10**25
NP1:Strike=316 Dip=44 Slip= 159
NP2: 61 76 48
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 26C
Centroid Location:
Origin Time 09:20:47.7 0.6
Lat 33.63N 0.06 Lon 116.57W 0.03
Dep 15.0 BDY Half-duration 3.6
Principal Axes:
Scale 10**24 D-CM
T Val= 13.43 Plg=47 Azm=277
N -0.04 34 53
P -13.39 23 160
Best Double Couple:Mo=1.3*10**25
NP1:Strike=294 Dip=37 Slip= 156
NP2: 44 76 55

09 17 10 22.87 51.907N 176.239W 50km
5.2mb (67 obs.) 4.9Msz (10 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 31C
Centroid Location:
Origin Time 17:10:26.4 0.5
Lat 51.97N 0.04 Lon 176.30W 0.07
Dep 63.0 2.3 Half-duration 2.1
Principal Axes:
Scale 10**24 D-CM
T Val= 2.00 Plg=76 Azm=289
N 0.15 9 58
P -2.15 11 150
Best Double Couple:Mo=2.1*10**24
NP1:Strike=251 Dip=35 Slip= 106
NP2: 52 57 79

09 20 24 51.97 51.683N 176.868W 57km
4.9mb (29 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 20C
Centroid Location:
Origin Time 20:24:55.8 1.9
Lat 51.81N 0.17 Lon 177.49W 0.30
Dep 62.0 9.9 Half-duration 1.3
Principal Axes:
Scale 10**23 D-CM
T Val= 3.91 Plg=47 Azm=239
N -0.37 41 38
P -3.54 10 137
Best Double Couple:Mo=3.7*10**23
NP1:Strike=265 Dip=49 Slip= 149
NP2: 17 67 45

09 23 10 53.10 1.904N 126.525E 28km
6.2mb (68 obs.) 6.5Msz (24 obs.)
MOLUCCA PASSAGE
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=182 Dip=48 Slip= 75
NP2: 24 44 106
Principal Axes:
T Plg=79 Azm= 23
P 2 283
Comment: The focal mechanism is moderately well controlled and corresponds to reverse faulting with a small strike-slip component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 26 No. of sta: 8
Principal Axes:
Scale 10**26 d-cm
T Val= 1.73 Plg=76 Azm=103
N 0.02 5 351
P -1.75 13 260
Best Double Couple:Mo=1.7*10**26
NP1:Strike=343 Dip=32 Slip= 80
NP2: 174 58 96
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 37C M.W.: 8S, 21C
Centroid Location:
Origin Time 23:11: 2.6 0.2
Lat 1.99N 0.02 Lon 126.64E 0.02
Dep 34.9 0.8 Half-duration 9.2
Principal Axes:
Scale 10**26 D-CM
T Val= 1.65 Plg=76 Azm=173
N -0.14 12 24
P -1.50 7 293
Best Double Couple:Mo=1.6*10**26
NP1:Strike= 9 Dip=39 Slip= 71
NP2: 213 53 105

10 06 53 04.32 4.275N 32.618W 10km
5.4mb (46 obs.) 5.0Msz (11 obs.)
CENTRAL MID-ATLANTIC RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 29C
Centroid Location:
Origin Time 06:53:12.4 0.6
Lat 4.31N 0.08 Lon 32.49W 0.07
Dep 15.0 FIX Half-duration 1.8
Principal Axes:
Scale 10**24 D-CM
T Val= 1.30 Plg= 4 Azm=273
N 0.11 16 4
P -1.42 73 171
Best Double Couple:Mo=1.4*10**24
NP1:Strike=347 Dip=44 Slip=-114
NP2: 198 51 -69

10 18 35 04.92 19.895S 175.776W 233km
5.3mb (40 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 22C
Centroid Location:
Origin Time 18:35:10.6 0.6
Lat 19.58S 0.10 Lon 175.69W 0.09
Dep 226.2 3.6 Half-duration 1.8
Principal Axes:
Scale 10**24 D-CM
T Val= 1.42 Plg=46 Azm=139
N -0.12 19 28
P -1.30 38 283
Best Double Couple:Mo=1.4*10**24
NP1:Strike=312 Dip=20 Slip= 13
NP2: 210 86 109

11 07 17 59.07 26.079S 132.736E 10km
5.6mb (22 obs.) 5.3Msz (4 obs.)
SOUTH AUSTRALIA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 26C
Centroid Location:
Origin Time 07:18: 8.7 0.8
Lat 25.52S 0.10 Lon 132.64E 0.06
Dep 15.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**24 D-CM
T Val= 0.91 Plg=39 Azm=175
N 0.53 50 339
P -1.44 8 78
Best Double Couple:Mo=1.2*10**24
NP1:Strike=209 Dip=57 Slip= 156
NP2: 313 70 36

11 08 27 46.48 45.987S 166.334E 32km
5.4mb (16 obs.) 5.6Msz (5 obs.)
OFF W. COAST OF S. ISLAND, N.Z.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 36C
Centroid Location:
Origin Time 08:27:50.8 0.3
Lat 46.06S 0.07 Lon 166.09E 0.07
Dep 15.0 FIX Half-durotion 2.2
Principal Axes:
Scale 10**24 D-CM
T Val= 2.71 Plg=59 Azm= 44
N 0.10 6 144
P -2.81 31 238
Best Double Couple:Mo=2.8*10**24
NP1:Strike=346 Dip=15 Slip= 113
NP2: 143 76 84

11 17 02 03.94 24.329N 126.899E 33km
5.3mb (38 obs.) 5.1Msz (3 obs.)
RYUKYU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 24C
Centroid Location:
Origin Time 17:02: 4.2 0.6
Lat 24.48N 0.07 Lon 126.20E 0.10
Dep 15.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**23 D-CM
T Val= 14.98 Plg=40 Azm=164
N -3.02 48 323
P -11.97 11 65
Best Double Couple:Mo=1.3*10**24
NP1:Strike=196 Dip=54 Slip= 157

NP2: 300 71 38

12 07 54 26.88 29.962N 51.582E 10km
5.7mb (65 obs.) 5.6Msz (14 obs.)
SOUTHERN IRAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 22C
Centroid Location:
Origin Time 07:54:31.1 0.4
Lat 29.79N 0.04 Lon 51.36E 0.04
Dep 33.0 FIX Half-duration 2.6
Principal Axes:
Scale 10**24 D-CM
T Val= 4.33 Plg=12 Azm=134
N -0.42 78 307
P -3.90 1 43
Best Double Couple:Mo=4.1*10**24
NP1:Strike=178 Dip=81 Slip= 172
NP2: 269 82 10

12 10 17 25.56 5.575N 125.406E 88km
5.3mb (28 obs.)
MINDANAO, PHILIPPINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 22C
Centroid Location:
Origin Time 10:17:23.7 0.5
Lat 5.73N 0.06 Lon 125.63E 0.06
Dep 40.1 5.6 Half-duration 1.8
Principal Axes:
Scale 10**24 D-CM
T Val= 1.68 Plg=65 Azm=295
N 0.56 12 178
P -2.24 21 83
Best Double Couple:Mo=2.0*10**24
NP1:Strike=153 Dip=26 Slip= 62
NP2: 3 67 103

12 16 05 14.23 1.845N 126.404E 40km
5.3mb (25 obs.) 5.4Msz (9 obs.)
MOLUCCA PASSAGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 32C
Centroid Location:
Origin Time 16:05:17.9 0.5
Lat 1.51N 0.04 Lon 126.61E 0.04
Dep 36.2 1.6 Half-duration 3.2
Principal Axes:
Scale 10**24 D-CM
T Val= 7.66 Plg=85 Azm=109
N 1.27 1 210
P -8.93 5 300
Best Double Couple:Mo=8.3*10**24
NP1:Strike= 31 Dip=40 Slip= 91
NP2: 209 50 89

13 09 12 10.71 16.061N 93.901W 80km
5.9mb (72 obs.)
CHIAPAS, MEXICO
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=120 Dip=83 Slip= 90
NP2: 300 7 90
Principal Axes:
T Plg=52 Azm= 30
P 38 210
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 87 No. of sta: 12
Principal Axes:
Scale 10**24 d-cm
T Val= 8.28 Plg=44 Azm= 46
N -1.25 14 302
P -7.03 43 199
Best Double Couple:Mo=7.7*10**24
NP1:Strike=214 Dip=14 Slip= 1
NP2: 122 90 104
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 22C
Centroid Location:
Origin Time 09:12:11.8 0.2
Lat 15.92N 0.05 Lon 93.96W 0.04
Dep 65.8 3.8 Half-duration 3.3
Principal Axes:
Scale 10**24 D-CM
T Val= 8.99 Plg=33 Azm= 41
N -2.18 18 298
P -6.82 51 185
Best Double Couple:Mo=7.9*10**24
NP1:Strike=179 Dip=20 Slip= -28
NP2: 295 81 -108

13 13 47 08.20 32.970N 117.870W 10km
5.6mb (73 obs.) 5.8Msz (15 obs.)
CALIFORNIA-MEXICO BORDER REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 6S, 17C
Centroid Location:
Origin Time 13:47:10.4 0.4
Lat 32.74N 0.11 Lon 117.44W 0.05
Dep 15.0 FIX Half-duration 3.1
Principal Axes:
Scale 10**24 D-CM
T Val= 5.81 Plg=77 Azm=157
N 1.46 9 293
P -7.27 9 25
Best Double Couple:Mo=6.5*10**24
NP1:Strike=126 Dip=37 Slip= 106
NP2: 287 55 78

14 20 14 50.39 12.293N 143.931E 27km
5.3mb (22 obs.) 5.0Msz (3 obs.)
SOUTH OF MARIANA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 21C
Centroid Location:
Origin Time 20:14:54.7 1.3
Lat 12.22N 0.10 Lon 144.17E 0.10
Dep 21.6 8.2 Half-duration 1.6
Principal Axes:
Scale 10**23 D-CM
T Val= 9.23 Plg=62 Azm= 0
N 1.33 15 241
P -10.56 24 144
Best Double Couple:Mo=9.9*10**23
NP1:Strike=207 Dip=25 Slip= 53
NP2: 66 70 106

16 12 41 28.32 19.511S 169.165E 111km
6.2mb (63 obs.)
VANUATU ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 78 Dip=72 Slip= -90
NP2: 258 18 -90
Principal Axes:
T Plg=27 Azm=168
P 63 348
Comment: The focal mechanism is moderately well controlled and corresponds to normal faulting. The preferred fault plane is NP1.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 19S, 46C M.W.: 11S, 27C
Centroid Location:
Origin Time 12:41:35.2 0.2
Lat 19.71S 0.01 Lon 169.21E 0.02
Dep 117.7 0.7 Half-duration 7.1
Principal Axes:
Scale 10**25 D-CM
T Val= 8.86 Plg=19 Azm=162
N -0.91 3 253
P -7.96 71 353
Best Double Couple:Mo=8.4*10**25
NP1:Strike=246 Dip=26 Slip= -98
NP2: 74 64 -86

16 22 03 10.79 31.049N 77.997E 33km
5.6mb (93 obs.) 5.2Msz (7 obs.)
NORTHERN INDIA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 21C
Centroid Location:
Origin Time 22:03:12.4 0.8
Lat 30.48N 0.11 Lon 78.19E 0.12
Dep 15.0 BDY Half-duration 1.7
Principal Axes:
Scale 10**24 D-CM
T Val= 1.61 Plg=53 Azm= 79
N 0.11 14 330
P -1.71 33 231
Best Double Couple:Mo=1.7*10**24
NP1:Strike=278 Dip=17 Slip= 37
NP2: 152 80 104

17 14 32 16.77 21.771S 179.515W 597km
4.8mb (16 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 14C
Centroid Location:
Origin Time 14:32:18.3 1.4
Lat 22.06S 0.15 Lon 179.07W 0.14
Dep 599.0 9.0 Half-duration 1.6
Principal Axes:
Scale 10**23 D-CM
T Val= 8.20 Plg=37 Azm=160
N 0.48 33 41
P -8.68 35 283
Best Double Couple:Mo=8.4*10**23
NP1:Strike=313 Dip=33 Slip= 2
NP2: 221 89 123

17 15 46 37.02 36.668N 71.247E 47km
5.3mb (67 obs.) 5.3Msz (2 obs.)
AFGHANISTAN-USSR BORDER REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 30C
Centroid Location:
Origin Time 15:46:46.7 0.3
Lat 36.47N 0.04 Lon 71.13E 0.04
Dep 97.2 3.3 Half-duration 2.3
Principal Axes:
Scale 10**24 D-CM
T Val= 2.92 Plg=30 Azm= 61
N -0.08 46 294
P -2.84 28 169
Best Double Couple:Mo=2.9*10**24
NP1:Strike=205 Dip=46 Slip= 1
NP2: 114 89 136

18 15 07 51.75 16.356S 28.502E 17km
5.5mb (55 obs.) 4.6Msz (4 obs.)
ZAMBIA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 31C
Centroid Location:
Origin Time 15:07:55.6 0.5
Lat 16.10S 0.06 Lon 28.36E 0.06
Dep 15.0 FIX Half-duration 1.6
Principal Axes:
Scale 10**23 D-CM
T Val= 6.62 Plg= 2 Azm=144
N 2.41 4 54
P -9.03 85 265
Best Double Couple:Mo=7.8*10**23
NP1:Strike=238 Dip=43 Slip= -84
NP2: 50 48 -95

18 17 22 38.24 10.770N 69.428W 7km
5.9mb (71 obs.) 4.9Msz (11 obs.)
VENEZUELA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 30C
Centroid Location:
Origin Time 17:22:43.8 0.6
Lat 10.84N 0.06 Lon 69.24W 0.07
Dep 15.0 FIX Half-duration 1.9
Principal Axes:
Scale 10**24 D-CM
T Val= 1.68 Plg=78 Azm= 78
N 0.21 11 232
P -1.88 5 323
Best Double Couple:Mo=1.8*10**24
NP1:Strike= 64 Dip=41 Slip= 106
NP2: 223 51 76

19 04 31 55.97 53.352N 165.882W 33km
5.5mb (96 obs.) 5.1Msz (12 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 35C
Centroid Location:
Origin Time 04:31:59.7 0.2
Lat 53.25N 0.02 Lon 165.76W 0.04
Dep 56.7 2.1 Half-duration 2.4
Principal Axes:
Scale 10**24 D-CM
T Val= 3.04 Plg=73 Azm=260
N -0.40 17 96
P -2.65 4 4
Best Double Couple:Mo=2.8*10**24
NP1:Strike= 77 Dip=43 Slip= 65

NP2: 289 52 112

19 05 04 08.24 53.339N 165.859W 33km
5.1mb (57 obs.) 4.5Msz (1 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 13S, 25C
Centroid Location:
Origin Time 05:04:12.2 0.8
Lat 53.26N 0.08 Lon 165.72W 0.12
Dep 66.0 6.8 Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM
T Val= 7.63 Plg=76 Azm=255
N -1.54 14 82
P -6.10 2 352
Best Double Couple:Mo=6.9*10**23
NP1:Strike= 68 Dip=45 Slip= 70
NP2: 275 48 109

19 05 59 36.21 47.264N 151.127E 141km
5.9mb (92 obs.)
KURIL ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 36 Dip=84 Slip= -60
NP2: 136 31 -168
Principal Axes:
T Plg=32 Azm=101
P 43 335
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.
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 17S, 43C
Centroid Location:
Origin Time 05:59:42.1 0.2
Lat 47.05N 0.02 Lon 151.32E 0.03
Dep 153.4 0.5 Half-duration 5.6
Principal Axes:
Scale 10**25 D-CM
T Val= 3.26 Plg=34 Azm=114
N 0.73 14 213
P -3.99 53 322
Best Double Couple:Mo=3.6*10**25
NP1:Strike=159 Dip=17 Slip=-145
NP2: 36 80 -76

19 06 53 17.83 53.600N 167.171W 33km
5.5mb (87 obs.) 5.7Msz (12 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 37C
Centroid Location:
Origin Time 06:53:22.6 0.4
Lat 53.75N 0.05 Lon 167.48W 0.06
Dep 18.3 2.6 Half-duration 3.6
Principal Axes:
Scale 10**24 D-CM
T Val= 11.00 Plg= 2 Azm=127
N -1.71 9 37
P -9.29 80 227
Best Double Couple:Mo=1.0*10**25
NP1:Strike=227 Dip=44 Slip= -76
NP2: 28 47 -103

19 20 12 55.23 31.260N 86.910E 33km
5.1mb (47 obs.) 4.6Msz (3 obs.)
TIBET
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 25C
Centroid Location:
Origin Time 20:12:58.7 0.8
Lat 30.88N 0.09 Lon 86.88E 0.11
Dep 15.0 BDY Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM
T Val= 4.46 Plg=12 Azm=275
N 0.63 77 122
P -5.09 6 6
Best Double Couple:Mo=4.8*10**23
NP1:Strike= 51 Dip=78 Slip= 4
NP2: 320 86 168

19 22 32 36.05 53.521N 167.301W 33km
5.6mb (94 obs.) 5.6Msz (19 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 41C
Centroid Location:
Origin Time 22:32:41.0 0.2
Lat 53.79N 0.03 Lon 167.32W 0.03
Dep 15.0 BDY Half-duration 3.8
Principal Axes:
Scale 10**25 D-CM
T Val= 1.25 Plg= 6 Azm=293
N -0.21 2 202
P -1.04 83 93
Best Double Couple:Mo=1.1*10**25
NP1:Strike= 25 Dip=39 Slip= -87
NP2: 201 51 -93

20 01 59 08.28 53.530N 167.344W 33km
4.9mb (34 obs.) 4.5Msz (4 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 24C
Centroid Location:
Origin Time 01:59:13.7 0.7
Lat 54.03N 0.15 Lon 167.59W 0.11
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM
T Val= 6.25 Plg= 4 Azm=112
N -0.86 4 21
P -5.39 84 251
Best Double Couple:Mo=5.8*10**23
NP1:Strike=206 Dip=41 Slip= -84
NP2: 18 50 -95

20 14 29 45.50 37.580N 118.450W 8km
5.6mb (70 obs.) 5.6Msz (13 obs.)
CALIFORNIA-NEVADA BORDER REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 34C
Centroid Location:
Origin Time 14:29:50.0 0.3
Lat 37.55N 0.04 Lon 118.42W 0.04
Dep 15.0 FIX Half-duration 3.0
Principal Axes:
Scale 10**24 D-CM
T Val= 5.91 Plg= 5 Azm= 97
N -0.56 42 2
P -5.35 48 193
Best Double Couple:Mo=5.6*10**24
NP1:Strike=223 Dip=54 Slip= -35
NP2: 335 63 -138

20 18 09 06.83 56.739S 3.577W 10km
5.8mb (12 obs.) 5.0Msz (1 obs.)
SOUTH ATLANTIC RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 34C
Centroid Location:
Origin Time 18:09:14.0 0.3
Lat 57.03S 0.04 Lon 2.86W 0.08
Dep 15.0 FIX Half-duration 1.9
Principal Axes:
Scale 10**24 D-CM
T Val= 1.43 Plg=33 Azm= 71
N 0.82 55 229
P -2.26 10 334
Best Double Couple:Mo=1.8*10**24
NP1:Strike=107 Dip=59 Slip= 162
NP2: 206 75 32

21 12 11 15.85 20.572S 174.283W 37km
5.5mb (41 obs.) 5.0Msz (10 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 32C
Centroid Location:
Origin Time 12:11:20.3 0.6
Lat 20.84S 0.05 Lon 173.60W 0.05
Dep 15.0 BDY Half-duration 2.0
Principal Axes:
Scale 10**24 D-CM
T Val= 2.11 Plg=68 Azm=307
N 0.22 4 207
P -2.34 22 116
Best Double Couple:Mo=2.2*10**24
NP1:Strike=198 Dip=24 Slip= 80
NP2: 29 67 94

21 14 42 26.60 37.537N 118.447W 9km
6.0mb (73 obs.) 6.2Msz (16 obs.)
CALIFORNIA-NEVADA BORDER REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=242 Dip=84 Slip= 21
NP2: 150 69 174
Principal Axes:
T Plg=19 Azm=108
P 10 14
Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting with a moderate reverse component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 4 No. of sta: 10
Principal Axes:
Scale 10**25 d-cm
T Val= 2.91 Plg=11 Azm= 84
N -0.24 62 195
P -2.67 25 349
Best Double Couple:Mo=2.8*10**25
NP1:Strike=129 Dip=64 Slip=-169
NP2: 34 80 -26
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 36C M.W.: 10S, 26C
Centroid Location:
Origin Time 14:42:33.9 0.2
Lat 37.53N 0.02 Lon 118.62W 0.02
Dep 15.0 BDY Half-duration 5.0
Principal Axes:
Scale 10**25 D-CM
T Val= 3.13 Plg=10 Azm=103
N -0.95 56 208
P -2.18 32 6
Best Double Couple:Mo=2.6*10**25
NP1:Strike=149 Dip=60 Slip=-163
NP2: 51 75 -31

21 22 07 18.00 37.498N 118.397W 9km
5.5mb (56 obs.) 5.0Msz (8 obs.)
CALIFORNIA-NEVADA BORDER REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 26C
Centroid Location:
Origin Time 22:07:17.7 0.9
Lat 37.66N 0.07 Lon 117.92W 0.10
Dep 15.0 FIX Half-duration 1.8
Principal Axes:
Scale 10**24 D-CM
T Val= 1.45 Plg= 7 Azm=283
N -0.04 27 190
P -1.42 62 26
Best Double Couple:Mo=1.4*10**24
NP1:Strike= 40 Dip=45 Slip= -50
NP2: 171 57 -122

22 02 12 46.46 33.571S 178.350W 33km
5.4mb (14 obs.) 5.2Msz (8 obs.)
SOUTH OF KERMADEC ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 31C
Centroid Location:
Origin Time 02:12:48.8 0.5
Lat 33.50S 0.05 Lon 178.21W 0.06
Dep 15.0 FIX Half-duration 1.9
Principal Axes:
Scale 10**24 D-CM
T Val= 2.04 Plg=15 Azm=292
N -0.49 10 24
P -1.56 72 146
Best Double Couple:Mo=1.8*10**24
NP1:Strike= 7 Dip=31 Slip=-109
NP2: 210 61 -79

22 11 28 33.25 0.790S 134.444E 27km
5.2mb (16 obs.) 4.9Msz (2 obs.)
WEST IRIAN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 26C
Centroid Location:
Origin Time 11:28:35.2 0.4
Lat 0.52S 0.05 Lon 134.22E 0.06
Dep 15.0 FIX Half-duration 1.8
Principal Axes:
Scale 10**24 D-CM
T Val= 1.43 Plg=13 Azm=129
N -0.07 76 292

```
    P       -1.36       4        38
  Best Double Couple:Mo=1.4*10**24
   NP1:Strike=173 Dip=78 Slip= 173
   NP2:        264     84        12

23 07 35 27.38  61.934S 154.774E  10km
  5.4mb ( 11 obs.) 5.7Msz ( 8 obs.)
  BALLENY ISLANDS REGION
  CENTROID, MOMENT TENSOR     (HRV)
  Data Used: GDSN
  L.P.B.: 17S, 37C
  Centroid Location:
  Origin Time        07:35:36.8 0.2
  Lat 61.81S 0.03 Lon 154.31E 0.05
  Dep  15.0 FIX Half-duration  3.2
  Principal Axes:
    Scale 10**24 D-CM
    T  Val=  7.67  Plg= 1  Azm=200
    N        0.09       82       101
    P       -7.76        8       290
  Best Double Couple:Mo=7.7*10**24
   NP1:Strike=334 Dip=84 Slip=  -5
   NP2:        65     85      -174

25 09 01 32.42  51.247N 176.173W  33km
  5.3mb ( 65 obs.) 5.6Msz ( 15 obs.)
  ANDREANOF ISLANDS, ALEUTIAN IS.
  CENTROID, MOMENT TENSOR     (HRV)
  Data Used: GDSN
  L.P.B.: 17S, 39C
  Centroid Location:
  Origin Time        09:01:34.7 0.3
  Lat 51.21N 0.03 Lon 175.82W 0.07
  Dep  25.0 2.3 Half-duration  3.0
  Principal Axes:
    Scale 10**24 D-CM
    T  Val=  5.90  Plg=66  Azm=328
    N        0.40       1        61
    P       -6.30      24       151
  Best Double Couple:Mo=6.1*10**24
   NP1:Strike=244 Dip=21 Slip=  94
   NP2:        60     69        89

25 23 41 08.64  26.384N 125.917E  22km
  5.6mb ( 46 obs.) 6.2Msz ( 11 obs.)
  NORTHEAST OF TAIWAN
  CENTROID, MOMENT TENSOR     (HRV)
  Data Used: GDSN
  L.P.B.: 15S, 35C
  Centroid Location:
  Origin Time        23:41:11.1 0.2
  Lat 26.29N 0.02 Lon 125.73E 0.03
  Dep  15.0 FIX Half-duration  4.3
  Principal Axes:
    Scale 10**25 D-CM
    T  Val=  1.78  Plg= 6  Azm=326
    N        0.00       83       110
    P       -1.79        4       236
  Best Double Couple:Mo=1.8*10**25
   NP1:Strike= 11 Dip=83 Slip= 179
   NP2:       101     89         7

26 20 07 02.68  18.066S 173.202W  33km
  5.2mb ( 30 obs.)
  TONGA ISLANDS
  CENTROID, MOMENT TENSOR     (HRV)
  Data Used: GDSN
  L.P.B.:  7S, 11C
  Centroid Location:
  Origin Time        20:07: 6.7 1.9
  Lat 17.44S 0.55 Lon 172.98W 0.34
  Dep  15.0 FIX Half-duration  1.5
  Principal Axes:
    Scale 10**23 D-CM
    T  Val=  5.26  Plg= 0  Azm=171
    N       -0.54       68        81
    P       -4.73       22       261
  Best Double Couple:Mo=5.0*10**23
   NP1:Strike=303 Dip=74 Slip= -16
   NP2:        38     74      -164

26 20 24 47.88  23.753N  94.177E  27km
  5.2mb ( 57 obs.) 5.1Msz ( 2 obs.)
  BURMA-INDIA BORDER REGION
  CENTROID, MOMENT TENSOR     (HRV)
  Data Used: GDSN
  L.P.B.: 14S, 29C
  Centraid Location:
  Origin Time        20:24:55.7 0.5
  Lat 23.86N 0.06 Lan  94.19E 0.05
  Dep  64.9 3.7 Half-duratian  1.9
  Principal Axes:
    Scale 10**24 D-CM
    T  Val=  1.65  Plg=23  Azm=352
    N        0.17       67       179
    P       -1.82        2        83
  Best Double Couple:Mo=1.7*10**24
   NP1:Strike=130 Dip=72 Slip=  15
   NP2:        36     76       162

27 10 43 26.09  25.848S 177.490W  147km
  5.8mb ( 44 obs.)
  SOUTH OF FIJI ISLANDS
  FAULT PLANE SOLUTION: P-Waves
   NP1:Strike= 50 Dip=73 Slip= -39
   NP2:       153     53      -159
  Principal Axes:
    T               Plg=13  Azm=106
    P                   39        5
  Comment: The focal mechanism is
    moderately well controlled and
    corresponds to strike-slip
    faulting with a large normal
    component. The preferred fault
    plane is not determined.
  MOMENT TENSOR SOLUTION
  Dep 105           No. of sta:  9
  Principal Axes:
    Scale 10**24 d-cm
    T  Val=  7.84  Plg=14  Azm= 96
    N       -1.02       42       199
    P       -6.82       44       352
  Best Double Couple:Mo=7.3*10**24
   NP1:Strike=145 Dip=48 Slip=-155
   NP2:        37     72       -45
  CENTROID, MOMENT TENSOR     (HRV)
  Data Used: GDSN
  L.P.B.: 17S, 38C
  Centroid Location:
  Origin Time        10:43:26.6 0.2
  Lat 25.98S 0.02 Lan 177.42W 0.02
  Dep 109.2 1.3 Half-duratian  3.3
  Principal Axes:
    Scale 10**24 D-CM
    T  Val=  7.19  Plg=29  Azm=106
    N       -0.11       42       226
    P       -7.08       35       353
  Best Double Couple:Mo=7.1*10**24
   NP1:Strike=142 Dip=42 Slip=-175
   NP2:        48     87       -48

27 12 58 17.66  33.119S 178.594W  33km
  5.1mb ( 7 obs.) 4.7Msz ( 1 obs.)
  SOUTH OF KERMADEC ISLANDS
  CENTROID, MOMENT TENSOR     (HRV)
  Data Used: GDSN
  L.P.B.: 12S, 27C
  Centroid Location:
  Origin Time        12:58:23.6 1.2
  Lat 32.73S 0.09 Lon 178.42W 0.12
  Dep  15.0 FIX Half-duration  1.5
  Principal Axes:
    Scale 10**23 D-CM
    T  Val=  7.38  Plg=65  Azm=332
    N        1.76       17       202
    P       -9.14       18       106
  Best Double Couple:Mo=8.3*10**23
   NP1:Strike=171 Dip=31 Slip=  55
   NP2:        30     65       109

28 04 06 50.25  51.599N 174.096W  33km
  5.4mb ( 81 obs.) 4.8Msz ( 12 obs.)
  ANDREANOF ISLANDS, ALEUTIAN IS.
  CENTROID, MOMENT TENSOR     (HRV)
  Data Used: GDSN
  L.P.B.: 15S, 31C
  Centroid Location:
  Origin Time        04:06:55.5 0.6
  Lat 52.00N 0.05 Lon 173.91W 0.10
  Dep  38.3 3.8 Half-duratian  1.8
  Principal Axes:
    Scale 10**23 D-CM
    T  Val= 12.38  Plg=69  Azm=311
    N        2.05       7        60
    P      -14.43      20       153
  Best Double Couple:Mo=1.3*10**24
   NP1:Strike=255 Dip=26 Slip= 107
   NP2:        57     65        82

28 20 29 02.75  33.282S  71.934W  41km
  5.1mb ( 13 obs.) 5.3Msz ( 7 obs.)
  NEAR COAST OF CENTRAL CHILE
  CENTROID, MOMENT TENSOR     (HRV)
  Data Used: GDSN
  L.P.B.: 16S, 32C
  Centroid Location:
  Origin Time        20:29: 5.8 0.3
  Lat 33.53S 0.05 Lon  72.47W 0.04
  Dep  18.2 2.1 Half-duration  2.6
  Principal Axes:
    Scale 10**24 D-CM
    T  Val=  4.13  Plg=66  Azm= 77
    N        0.21       4       176
    P       -4.34      23       267
  Best Double Couple:Mo=4.2*10**24
   NP1:Strike=  4 Dip=22 Slip= 100
   NP2:       174     68        86

28 21 57 13.05  51.776N 175.301W  33km
  5.4mb ( 70 obs.) 4.9Msz ( 6 obs.)
  ANDREANOF ISLANDS, ALEUTIAN IS.
  CENTROID, MOMENT TENSOR     (HRV)
  Data Used: GDSN
  L.P.B.: 12S, 27C
  Centroid Location:
  Origin Time        21:57:19.3 0.6
  Lat 51.93N 0.05 Lon 174.97W 0.08
  Dep  41.0 3.4 Half-duration  1.8
  Principal Axes:
    Scale 10**24 D-CM
    T  Val=  1.78  Plg=70  Azm=307
    N        0.24       6        55
    P       -2.03      19       147
  Best Double Couple:Mo=1.9*10**24
   NP1:Strike=248 Dip=27 Slip= 104
   NP2:        52     64        83

29 08 14 59.51  21.264S 175.544W  110km
  5.4mb ( 21 obs.)
  TONGA ISLANDS
  CENTROID, MOMENT TENSOR     (HRV)
  Data Used: GDSN
  L.P.B.: 13S, 26C
  Centroid Location:
  Origin Time        08:15:11.8 0.7
  Lat 20.67S 0.07 Lon 175.71W 0.08
  Dep 137.1 2.6 Half-duration  1.7
  Principal Axes:
    Scale 10**24 D-CM
    T  Val=  1.14  Plg=18  Azm=103
    N        0.24       5        11
    P       -1.38      71       265
  Best Double Couple:Mo=1.3*10**24
   NP1:Strike=202 Dip=28 Slip= -78
   NP2:         8     63       -96

29 11 57 47.53  17.622S 178.517W  560km
  5.1mb ( 30 obs.)
  FIJI ISLANDS REGION
  CENTROID, MOMENT TENSOR     (HRV)
  Data Used: GDSN
  L.P.B.: 12S, 21C
  Centroid Location:
  Origin Time        11:57:53.2 0.8
  Lat 17.56S 0.15 Lon 178.61W 0.11
  Dep 559.7 5.0 Half-duration  1.7
  Principal Axes:
    Scale 10**23 D-CM
    T  Val=  8.68  Plg= 5  Azm= 57
    N        1.35      41       152
    P      -10.03      49       321
  Best Double Couple:Mo=9.4*10**23
   NP1:Strike=112 Dip=53 Slip=-144
   NP2:       359     62       -42

30 04 02 53.45  18.048S 174.864W  174km
  5.0mb ( 25 obs.)
  TONGA ISLANDS
  CENTROID, MOMENT TENSOR     (HRV)
  Data Used: GDSN
  L.P.B.: 14S, 22C
  Centroid Location:
  Origin Time        04:03: 0.9 0.8
  Lat 17.93S 0.13 Lon 175.21W 0.11
  Dep 196.8 4.4 Half-duration  1.6
  Principal Axes:
    Scale 10**23 D-CM
    T  Val=  6.53  Plg=22  Azm= 21
    N        0.74      46       266
    P       -7.27      36       129
  Best Double Couple:Mo=6.9*10**23
   NP1:Strike=160 Dip=47 Slip= -11
   NP2:       258     82      -137

30 11 31 50.19  24.611N 121.782E  33km
  5.6mb ( 57 obs.) 5.6Msz ( 9 obs.)
  TAIWAN
  CENTROID, MOMENT TENSOR     (HRV)
  Data Used: GDSN
```

L.P.B.: 11S, 24C
Centroid Location:
Origin Time 11:31:50.1 0.4
Lat 24.24N 0.06 Lon 121.40E 0.07
Dep 15.0 FIX Half-durotian 2.3
Principal Axes:
Scale 10**24 D-CM
T Val= 2.66 Plg= 7 Azm=312
N -0.92 13 43
P -1.74 75 196
Best Double Couple:Mo=2.2*10**24
NP1:Strike= 27 Dip=40 Slip=-111
NP2: 233 53 -74

30 21 25 35.42 52.441S 18.180E 10km
5.4mb (6 obs.) 4.7Msz (1 obs.)
SOUTHWEST OF AFRICA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 27C
Centroid Location:
Origin Time 21:25:42.4 1.0
Lat 52.22S 0.10 Lon 19.08E 0.16
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM
T Val= 7.78 Plg=10 Azm=221
N -1.29 0 131
P -6.49 80 41
Best Double Couple:Mo=7.1*10**23
NP1:Strike=311 Dip=35 Slip= -90
NP2: 131 55 -90

30 22 58 40.47 52.556S 17.927E 10km
5.1mb (5 obs.) 5.3Msz (3 obs.)
SOUTHWEST OF AFRICA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 18S, 39C
Centroid Location:
Origin Time 22:58:47.7 0.3
Lat 52.44S 0.03 Lon 18.86E 0.09
Dep 15.0 FIX Half-durotion 2.6
Principal Axes:
Scale 10**24 D-CM
T Val= 4.19 Plg=11 Azm=200
N -0.10 5 291
P -4.09 78 45
Best Double Couple:Mo=4.1*10**24
NP1:Strike=284 Dip=35 Slip= -99
NP2: 114 56 -84

31 00 12 42.59 52.512S 18.494E 10km
5.2mb (4 obs.) 5.0Msz (1 obs.)
SOUTHWEST OF AFRICA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 23C
Centroid Location:
Origin Time 00:12:45.1 0.9
Lat 52.47S FIX;Lon 18.73E FIX
Dep 15.0 FIX Half-durotion 1.7
Principal Axes:
Scale 10**23 D-CM
T Val= 9.94 Plg=11 Azm=202
N 0.24 4 111
P -10.18 78 3
Best Double Couple:Mo=1.0*10**24
NP1:Strike=296 Dip=34 Slip= -84
NP2: 109 56 -94

31 04 00 20.36 52.515S 18.608E 10km
5.4mb (5 obs.) 4.9Msz (1 obs.)
SOUTHWEST OF AFRICA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 27C
Centroid Location:
Origin Time 04:00:28.0 0.8
Lat 52.50S 0.08 Lon 18.83E 0.16
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM
T Val= 7.70 Plg= 2 Azm= 34
N 0.37 8 125
P -8.07 82 292
Best Double Couple:Mo=7.9*10**23
NP1:Strike=116 Dip=44 Slip=-102
NP2: 312 47 -79

31 07 22 40.21 37.463N 118.374W 5km
5.5mb (57 obs.) 5.2Msz (6 obs.)
CALIFORNIA-NEVADA BORDER REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 24C
Centroid Location:
Origin Time 07:22:49.5 1.2
Lat 37.70N 0.09 Lon 118.56W 0.10
Dep 15.0 FIX Half-durotion 1.9
Principal Axes:
Scale 10**24 D-CM
T Val= 2.11 Plg= 5 Azm=294
N -0.17 61 195
P -1.94 28 27
Best Double Couple:Mo=2.0*10**24
NP1:Strike= 67 Dip=66 Slip= -17
NP2: 164 74 -155

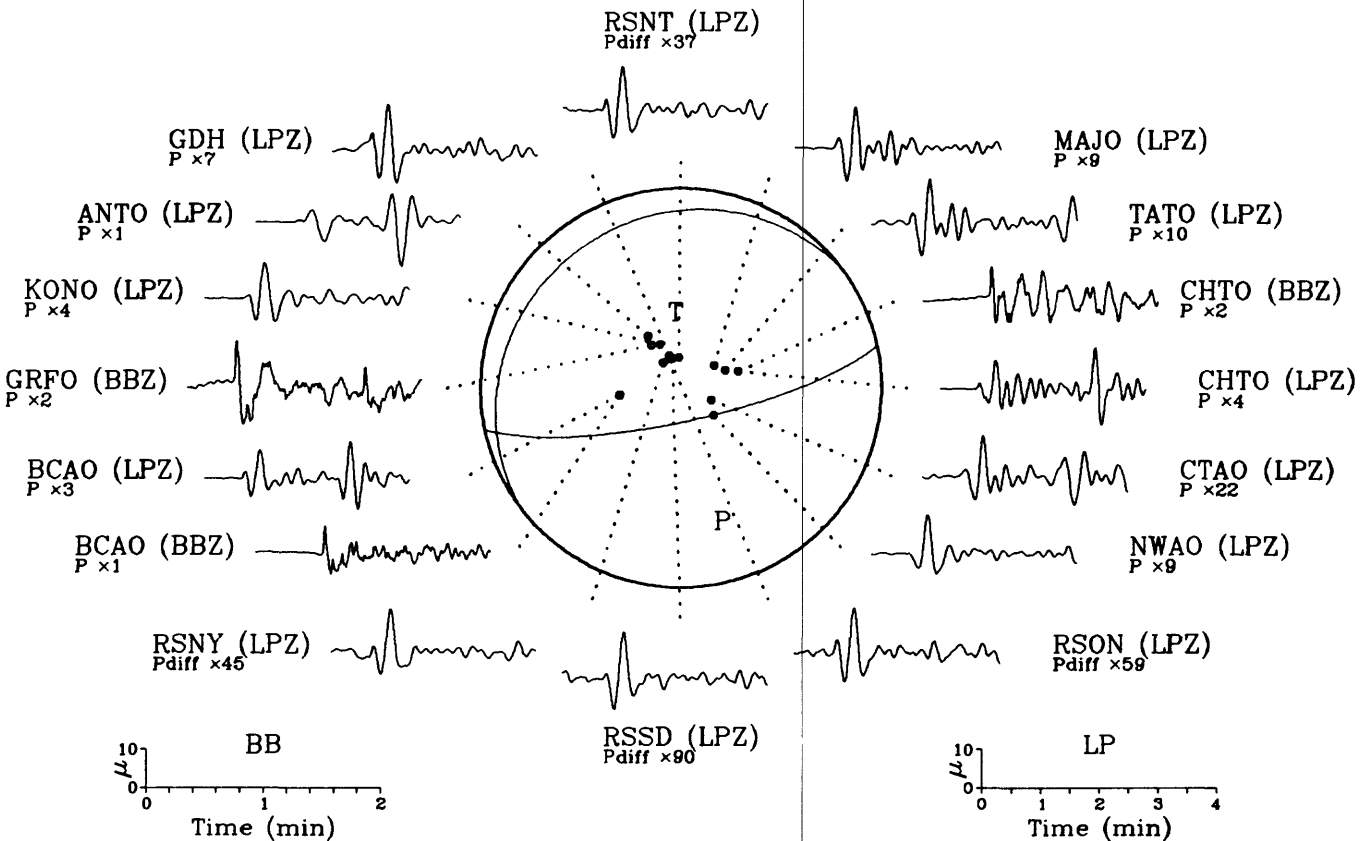
31 09 37 24.02 52.566S 18.430E 10km
5.1mb (3 obs.) 5.5Msz (3 obs.)
SOUTHWEST OF AFRICA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 37C
Centroid Location:
Origin Time 09:37:33.1 0.4
Lat 52.48S 0.05 Lon 19.10E 0.09
Dep 15.0 FIX Half-durotion 2.2
Principal Axes:
Scale 10**24 D-CM
T Val= 2.32 Plg= 4 Azm=212
N -0.11 2 302
P -2.21 86 65
Best Double Couple:Mo=2.3*10**24
NP1:Strike=300 Dip=41 Slip= -94
NP2: 124 49 -87

31 11 36 35.45 24.829N 122.761E 33km
5.1mb (10 obs.) 5.2Msz (2 obs.)
TAIWAN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 21C
Centroid Location:
Origin Time 11:36:33.3 0.5
Lat 24.61N 0.08 Lon 122.50E 0.12
Dep 20.5 5.8 Half-duration 1.7
Principal Axes:
Scale 10**23 D-CM
T Val= 8.41 Plg= 4 Azm= 30
N 1.74 4 299
P -10.15 84 164
Best Double Couple:Mo=9.3*10**23
NP1:Strike=125 Dip=41 Slip= -83
NP2: 296 49 -96

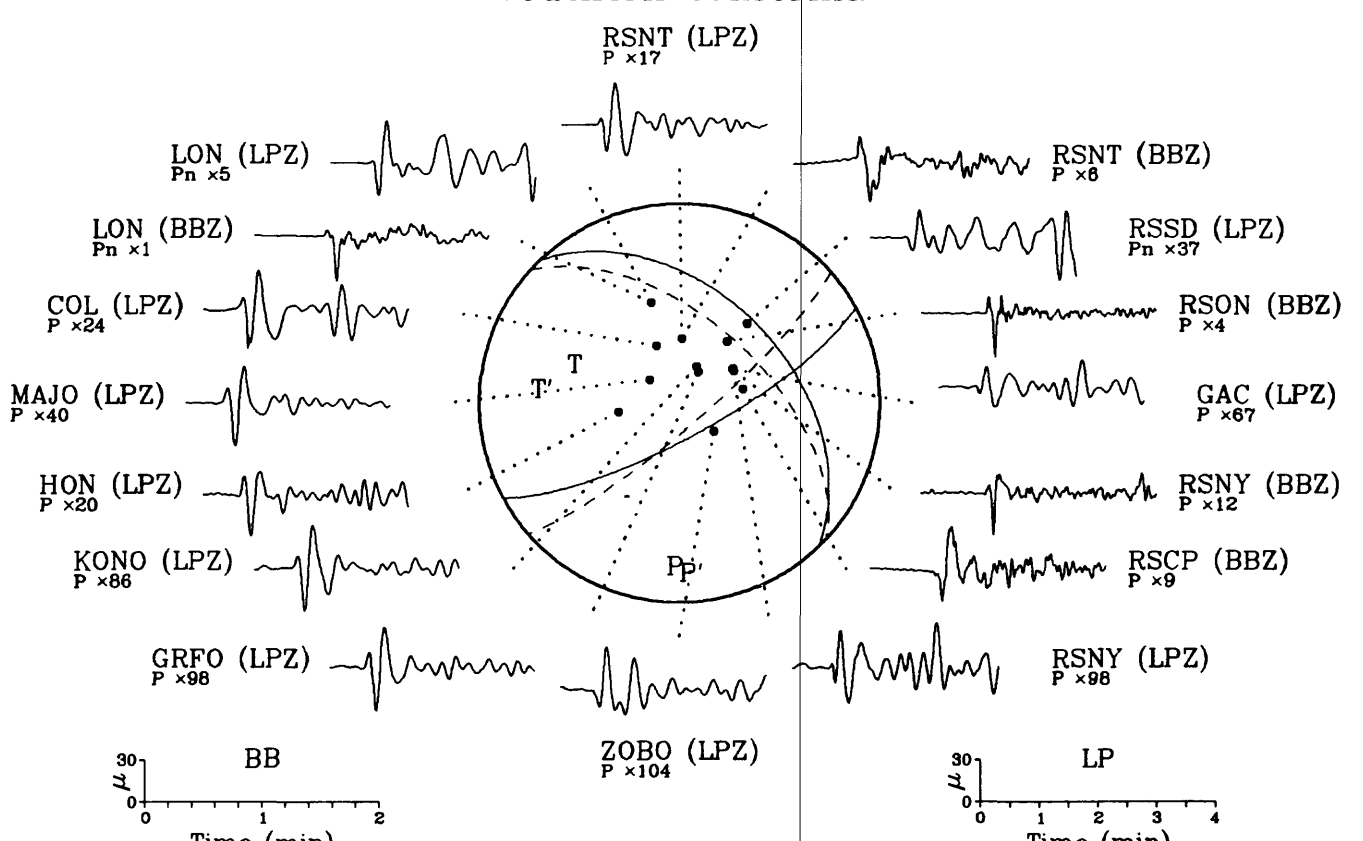
31 19 33 58.42 52.421S 18.099E 10km
5.1mb (7 obs.) 4.7Msz (2 obs.)
SOUTHWEST OF AFRICA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 25C
Centroid Location:
Origin Time 19:34: 7.7 1.0
Lat 52.20S 0.10 Lon 18.75E 0.21
Dep 15.0 FIX Half-durotion 1.5
Principal Axes:
Scale 10**23 D-CM
T Val= 8.85 Plg=19 Azm=205
N -0.31 8 112
P -8.55 69 0
Best Double Couple:Mo=8.7*10**23
NP1:Strike=309 Dip=27 Slip= -72
NP2: 108 65 -99

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

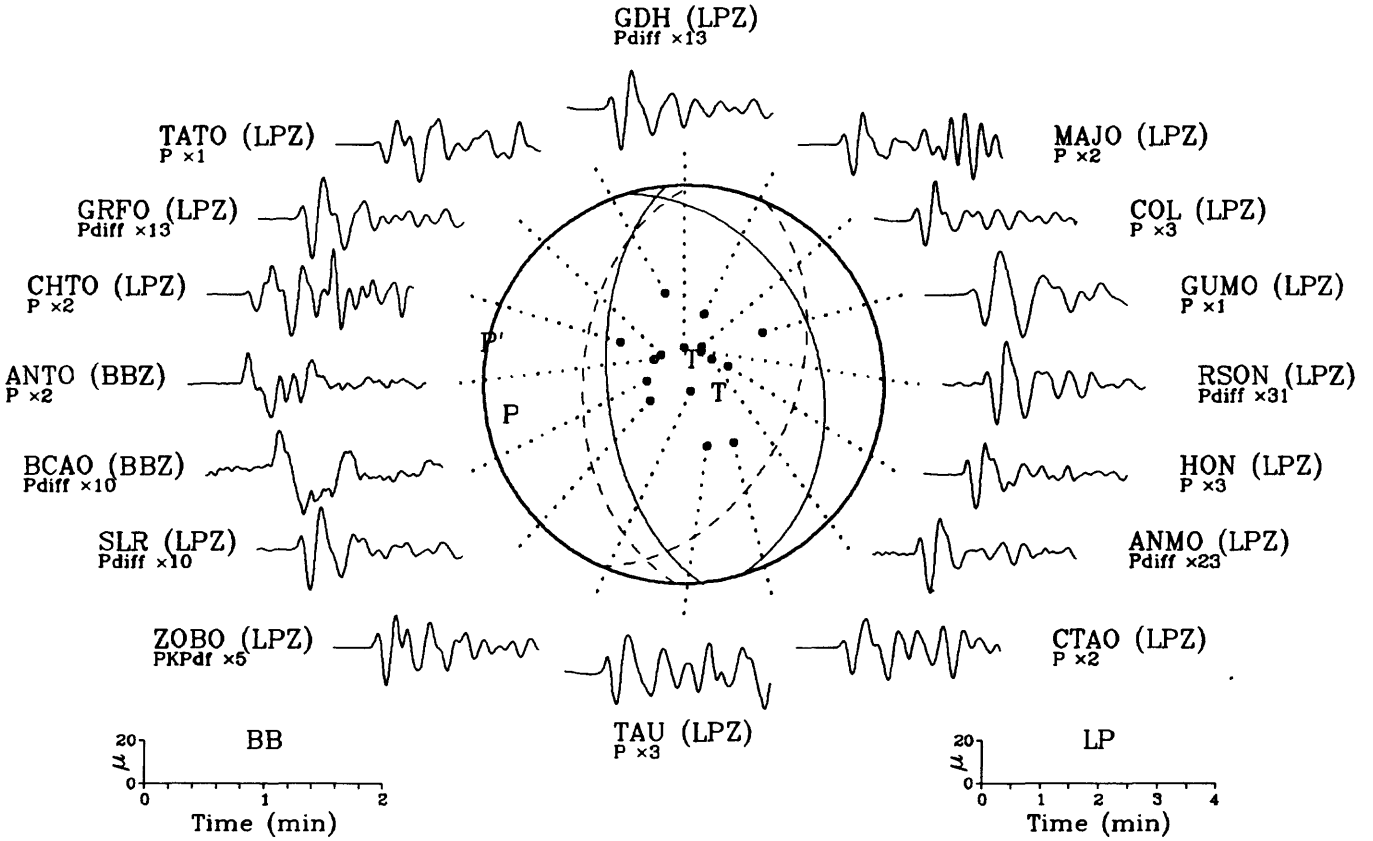
07 July 1986 16:26:56.61
Carlsberg Ridge



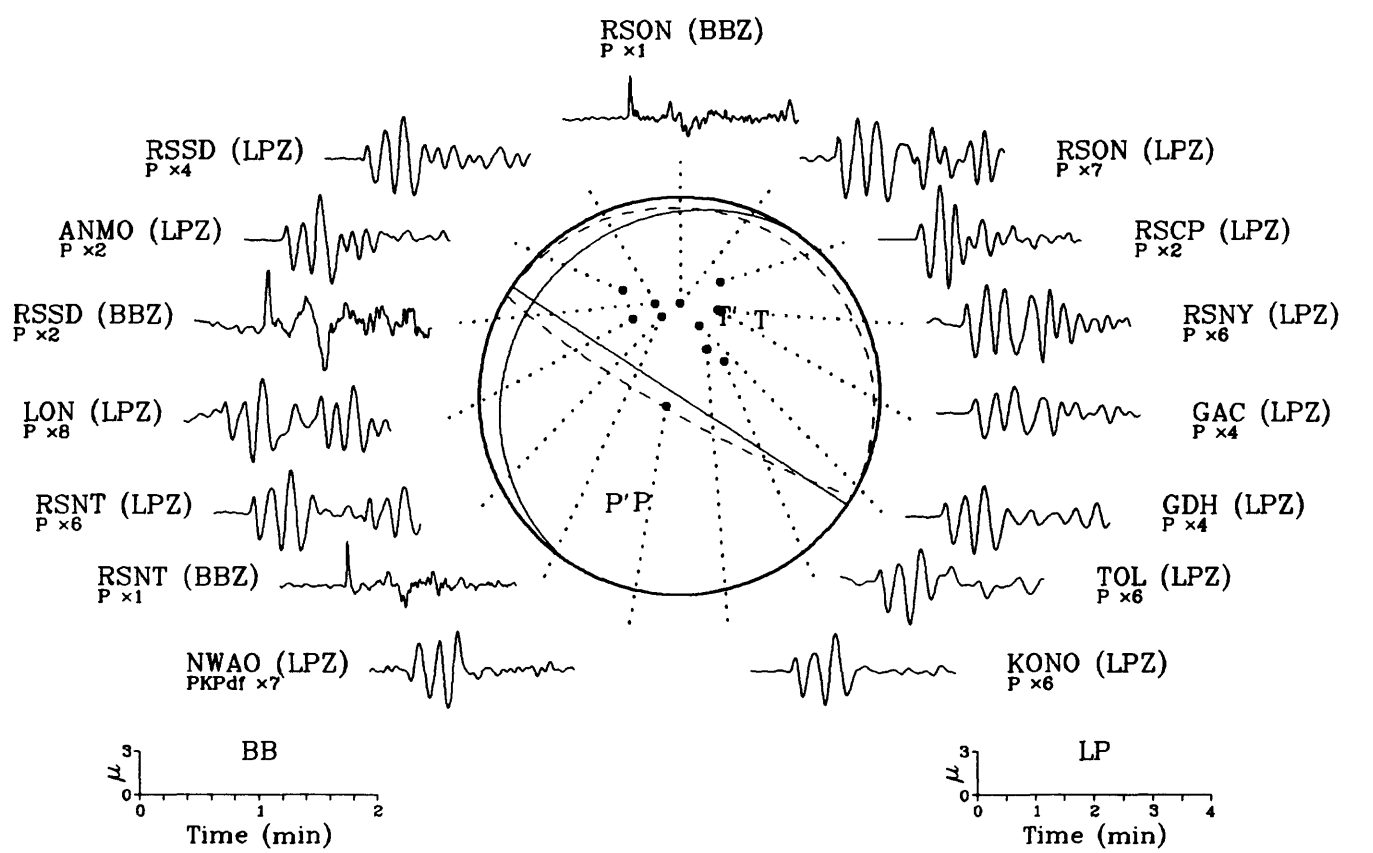
08 July 1986 09:20:44.50
Southern California



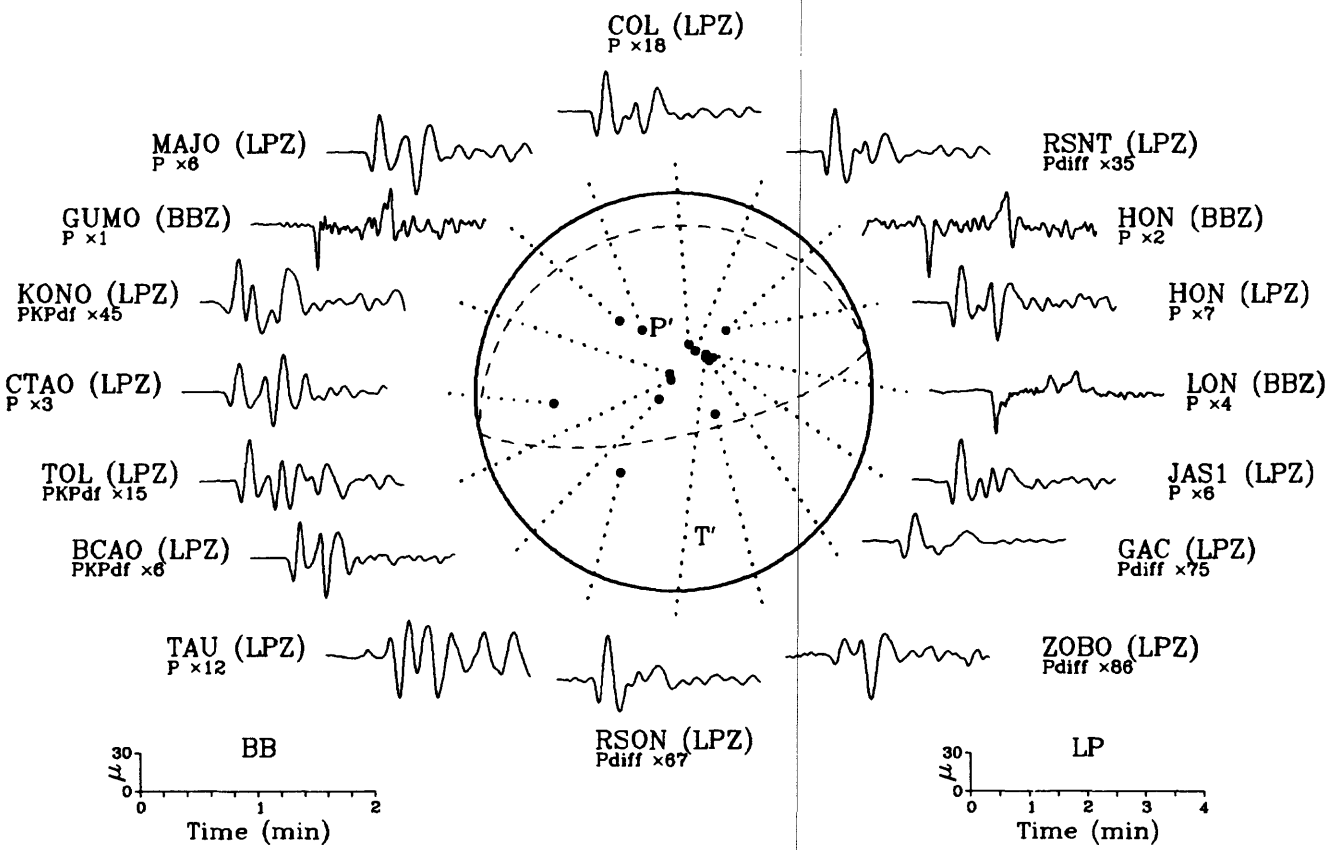
09 July 1986 23:10:53.10
Molucca Passage



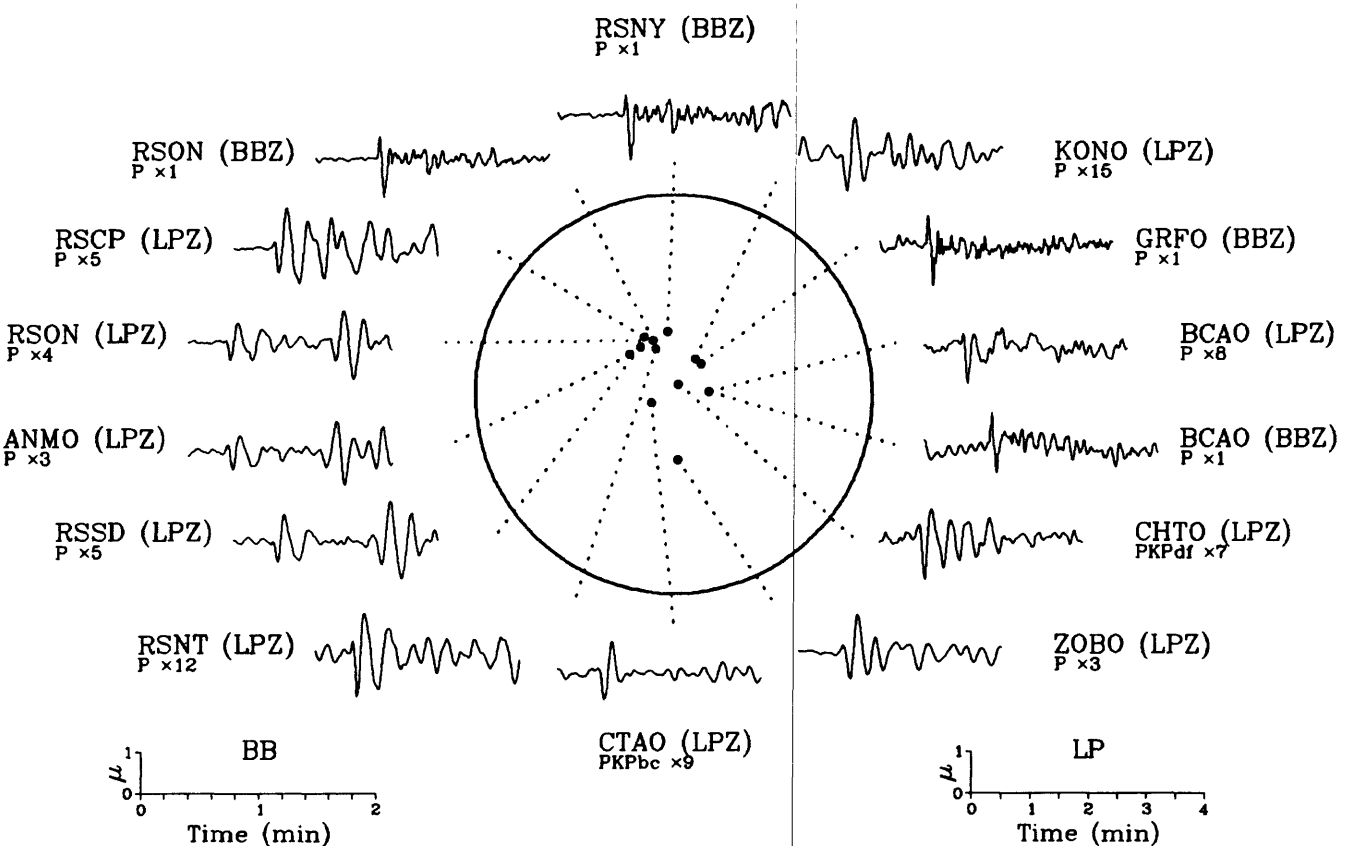
13 July 1986 09:12:10.71
Chiapas, Mexico



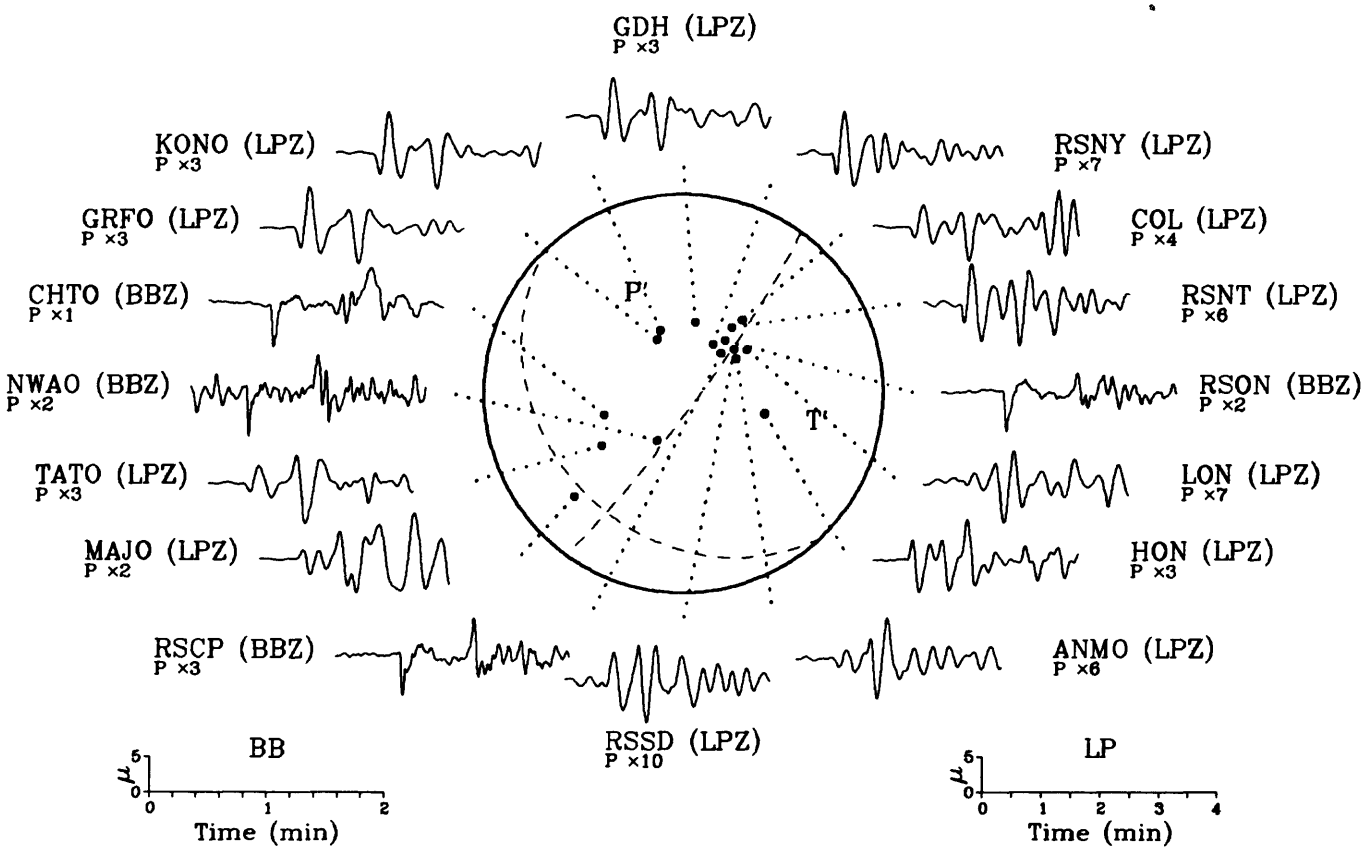
16 July 1986 12:41:28.32
Vanuatu Islands



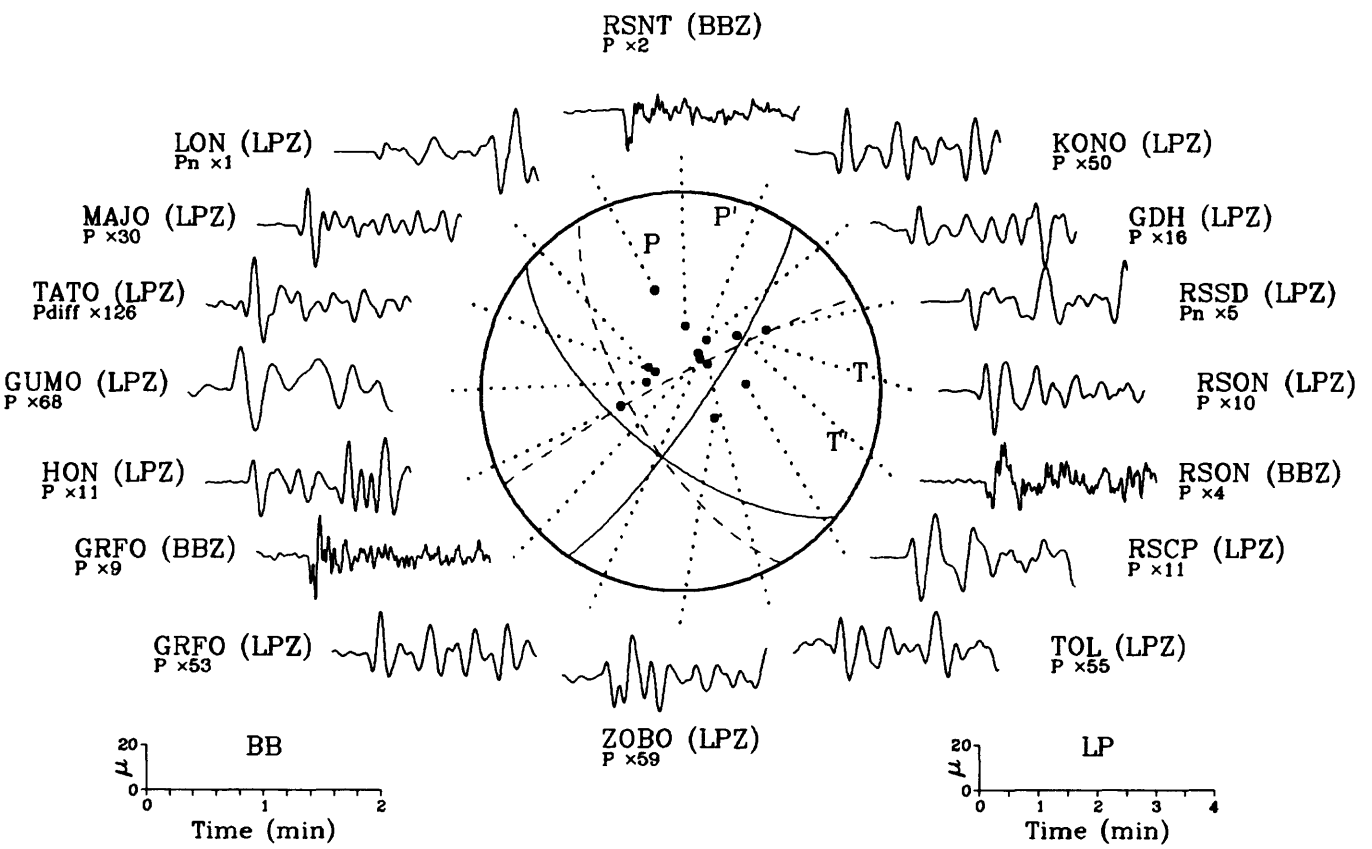
18 July 1986 17:22:38.24
Venezuela



19 July 1986 05:59:36.21
Kuril Islands



21 July 1986 14:42:26.60
California–Nevada Border Region



EXPLANATION OF ABBREVIATIONS AND SYMBOLS APPEARING IN THIS PUBLICATION

Abbreviations In Heading

MB – Body wave magnitudes.
Msz – Vertical surface wave magnitudes.
UTC – Coordinated Universal Time. HR MN SEC – Hour, minute, second.
SD – Standard Deviation from the arithmetic mean of residuals.
No. Sta. – Number of stations reporting P or PKP phases used in computation.
KEY – (Printed vertically). A symbol in this column indicates additional source parameters and/or a focal sphere are published for this event in separate sections which follow the list of hypocenters. The symbols are:
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.
CL Coda length magnitude.
DOE U.S. Department of Energy (formerly AEC and ERDA).
EXPLO Some or all parameters of explosion (controlled or accidental) supplied by any group or individual other than DOE or its predecessor organizations.
GLD U.S. Geological Survey, Golden, Colorado (other than NEIS).
GS U.S. Geological Survey, Menlo Park, California.
HRV Harvard University, Cambridge, Massachusetts.
HVO Hawaiian Volcano Observatory.
JMA Japan Meteorological Agency (generally used to indicate 7-point Japanese Intensity Scale).
LDG Laboratoire de Detection et de Geophysique, Bruyeres-le-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 Tennessee Earthquake Information Center, Memphis.
TUL Oklahoma Geological Survey, Leonard.
WES Weston Observatory, Massachusetts.

Roman Numerals Used to indicate intensity (when not followed by RF or JMA they refer to the Modified Mercalli Scale or any 12-point intensity scale closely related to it).

° ' " Geographic degrees, minutes, seconds.

–P Supplied hypocenter is a preliminary computation.

Any additional 3 to 5 letter codes enclosed in parentheses or angle brackets refer to individual station codes. These codes may be found in Geological Survey Open File Report 85-714, Seismograph Station Codes and Coordinates (1985).

Symbols Following Depth

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

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

G Indicates the depth was restrained by a geophysicist.

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

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

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

Symbols Following Origin Time

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

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

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

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

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

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

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

TRAVEL-TIME TABLES

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

MACROSEISMIC INFORMATION

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

DEPTHS FROM BROADBAND DISPLACEMENT SEISMOGRAMS

The NEIS routinely interprets broadband data from the GDSN and RSTN using methods described by Harvey and Choy (1982) and by Choy and 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 J. Boatwright, The rupture characteristics of two deep earthquakes inferred from broadband GDSN data, Bull. Seism. Soc. Am., 71, 691-711, 1981.

Harvey, D. and G. L. Choy, Broadband deconvolution of GDSN data, Geophys. J. R. Astr. Soc., 69, 659-668, 1982.

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 $20° \leq D \leq 160°$.

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 $D \geq 5°$.

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

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

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

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

ML These local magnitudes are computed according to the formula:

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

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

CONTRIBUTED MAGNITUDES

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

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

REFERENCES

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

Nuttli, O. W., 1973, Seismic wave attenuation and magnitude relations for eastern North America: Journal of Geophysical Research, v. 78, no. 5, p. B76-885.

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

WAVEFORM PLOTS

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

Each waveform will be identified by station code, data type, phase name and scale factor. The data type indicated by LP will be from the long-period channel at the designated station. Each LP waveform will be comprised of approximately one-half minute of noise followed by three minutes of signal. Time and amplitude are referenced to a set of axes shown in the lower right hand corner of each plot. The scale factor is an integer from which absolute amplitude, in micrometers of ground displacement at the dominant period of the pass-band (25 s), may be determined. Absolute amplitude may be recovered by measuring the amplitude of the seismogram relative to the amplitude axis and dividing it by the scale factor. Other data types are indicated by IP (intermediate-period channel), SP (short-period channel), and BB (broadband 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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EXPLANATION OF THE ENTRIES "MOMENT TENSOR SOLUTION" (USGS)

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

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

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

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

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

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

BERKELEY MOMENT

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

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

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

These solutions have been determined using the long period body and mantle wave moment tensor inversion method described by Dziewonski, et.al. (1981) considering corrections due to an asphericol 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**26 dyne-cm.

2. CENTROID LOCATION; hypocentral parameters obtained by adding perturbations resulting from inversion to the parameters reported in the PDE; standard errors follow the individual entries. If a given parameter is not perturbed in inversion, this is indicated by the letters FIX. 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**27D-CM) is the number by which all subsequent entries related to values of the moment should be multiplied. For the moment tensor we give components in a spherical coordinate system: $M_{RR} = M_{rr}$; $M_{TT} = M_{\theta\theta}$; $M_{FF} = M_{\phi\phi}$; $M_{RT} = M_{r\theta}$; $M_{RF} = M_{r\phi}$; $M_{TF} = M_{\theta\phi}$. 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 $M_0 = 1/2(\sigma_1 + \sigma_2)$. The strike, dip and slip of the first (NP1) and second (NP2) nodal planes are calculated from the directions of the P, T, and N axes. The remainder is a linear-vector dipole (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.

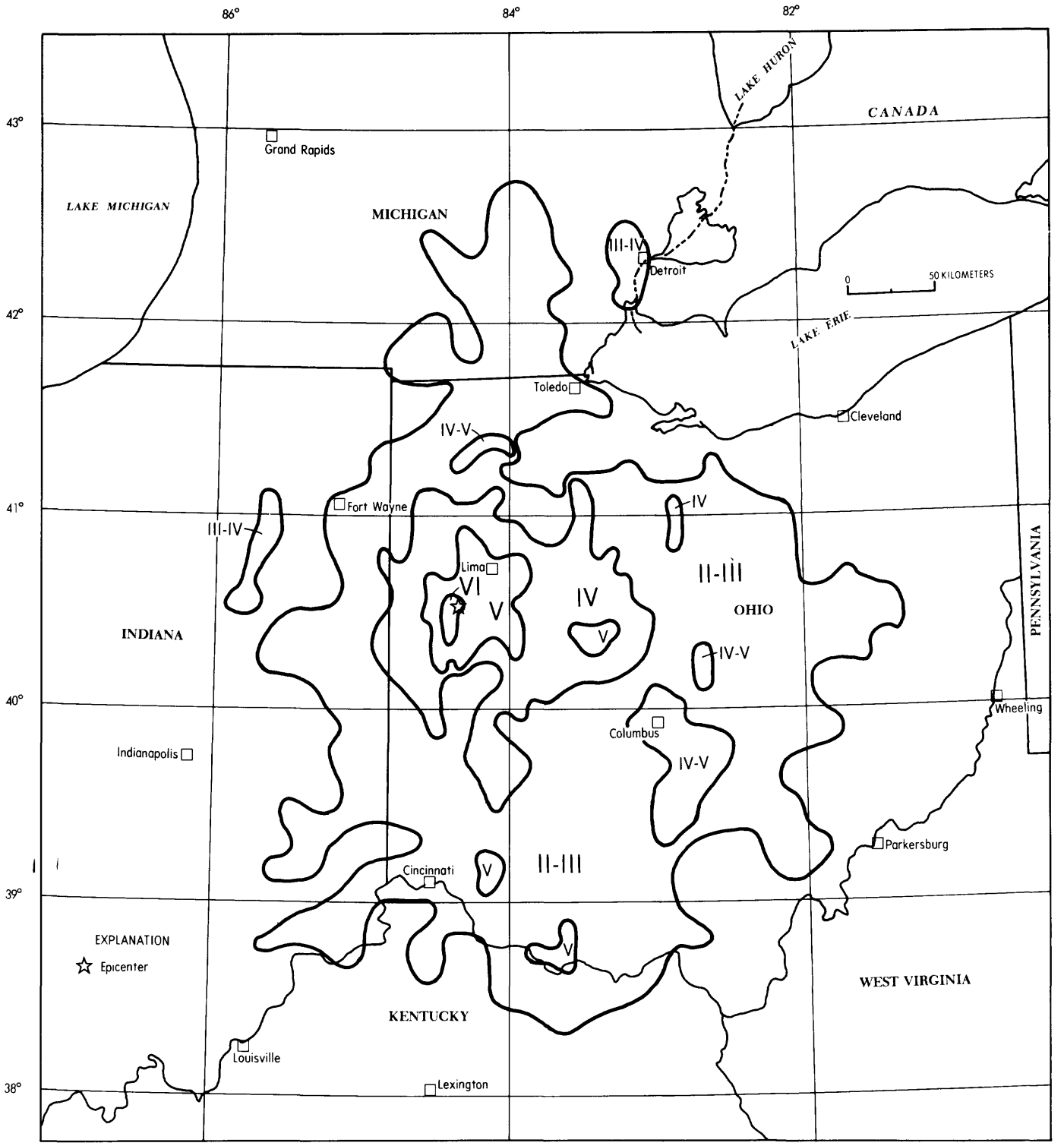
A. M. Dziewonski, G. Ekstrom, J. Franzen, D. Giardini and J. H. Woodhouse, Department of Geological Sciences, Harvard University, Cambridge, MA 02138

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

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

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

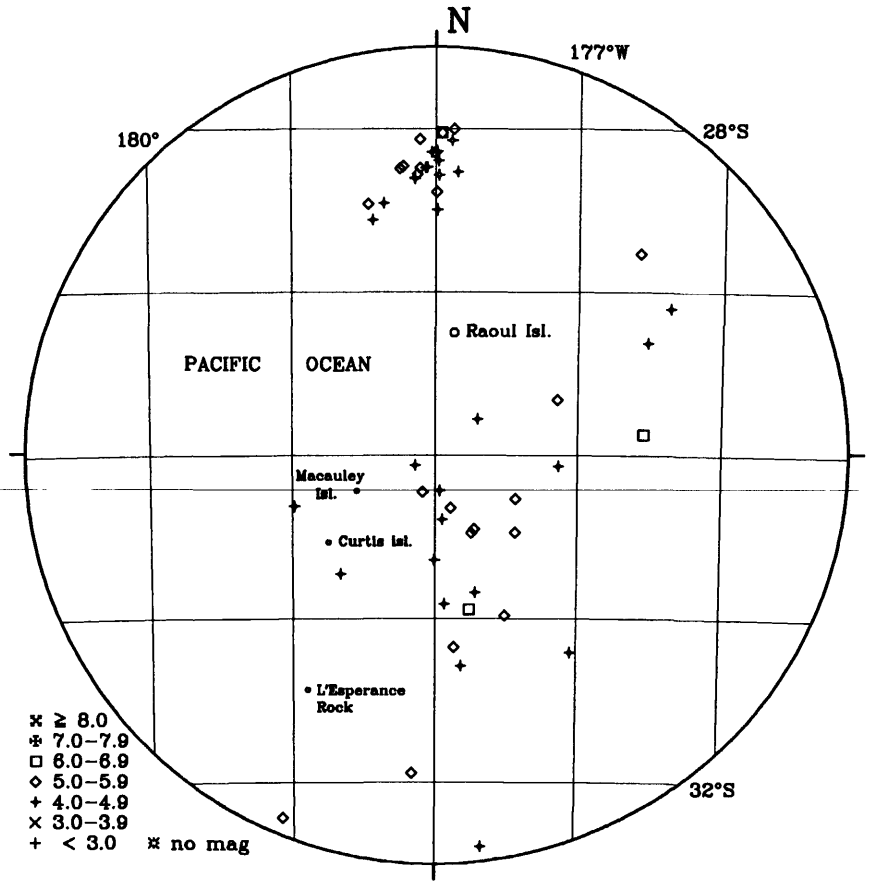
Woodhouse, J. H. and A. M. Dziewonski, Mapping the upper mantle: Three dimensional modelling of earth structure by inversion of seismic waveforms, J. Geophys. Res., 89, 5953-5986, 1984.



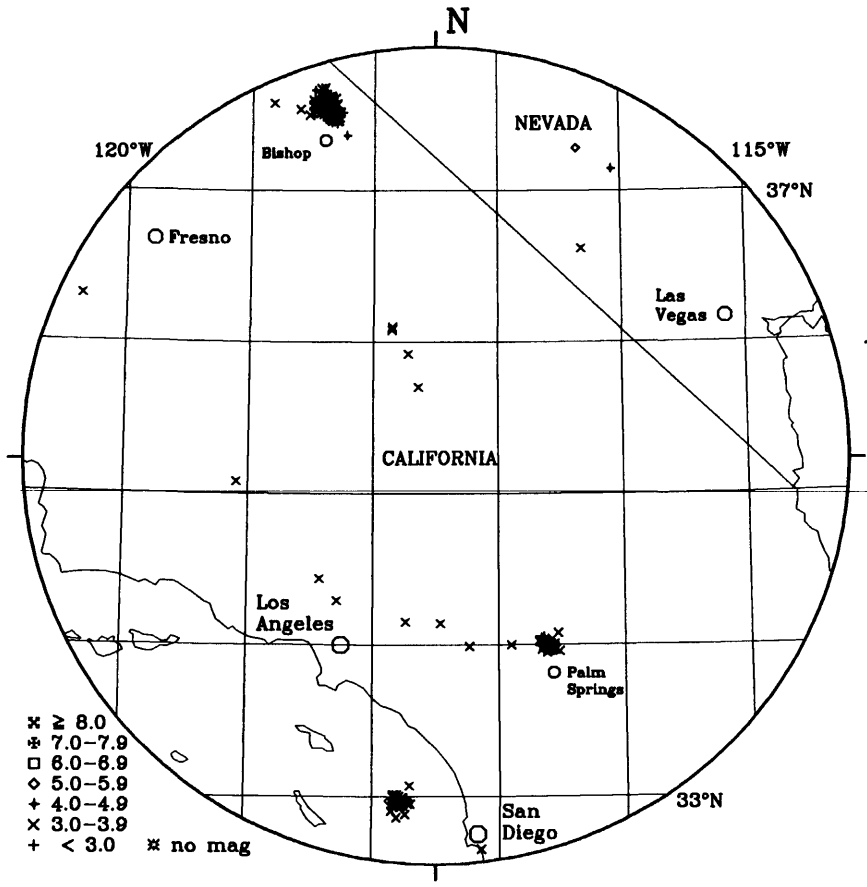
Isoseismal map of the 12 July 1986 Ohio earthquake.

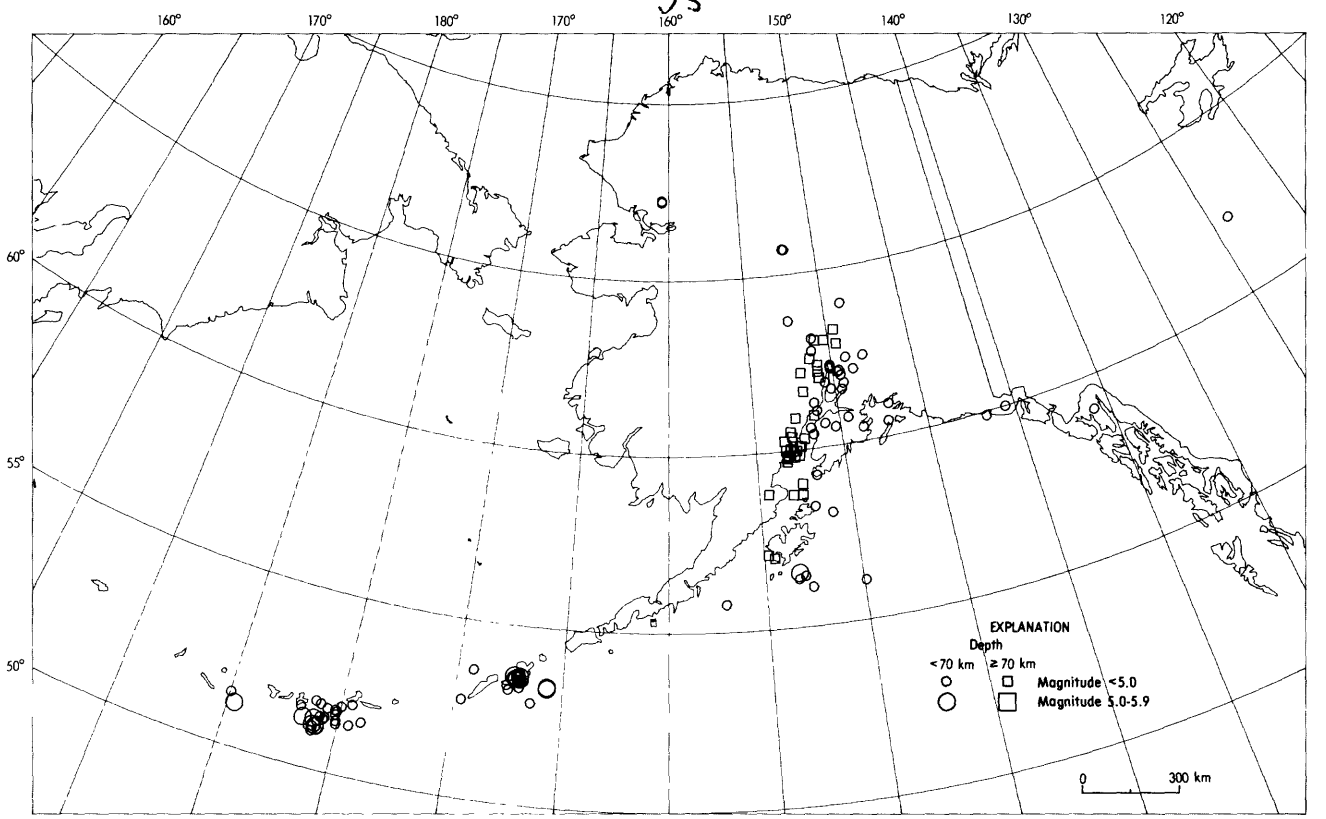
by Carl W. Stover

Earthquake Epicenters in the Kermadec Islands
June and July, 1986



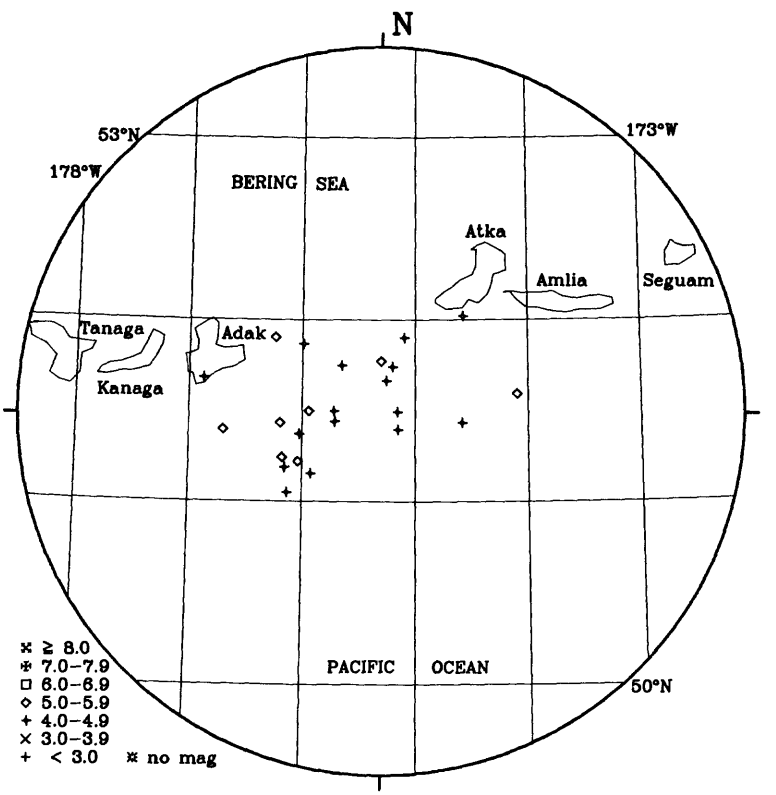
Earthquake Epicenters in Southern California
July, 1986

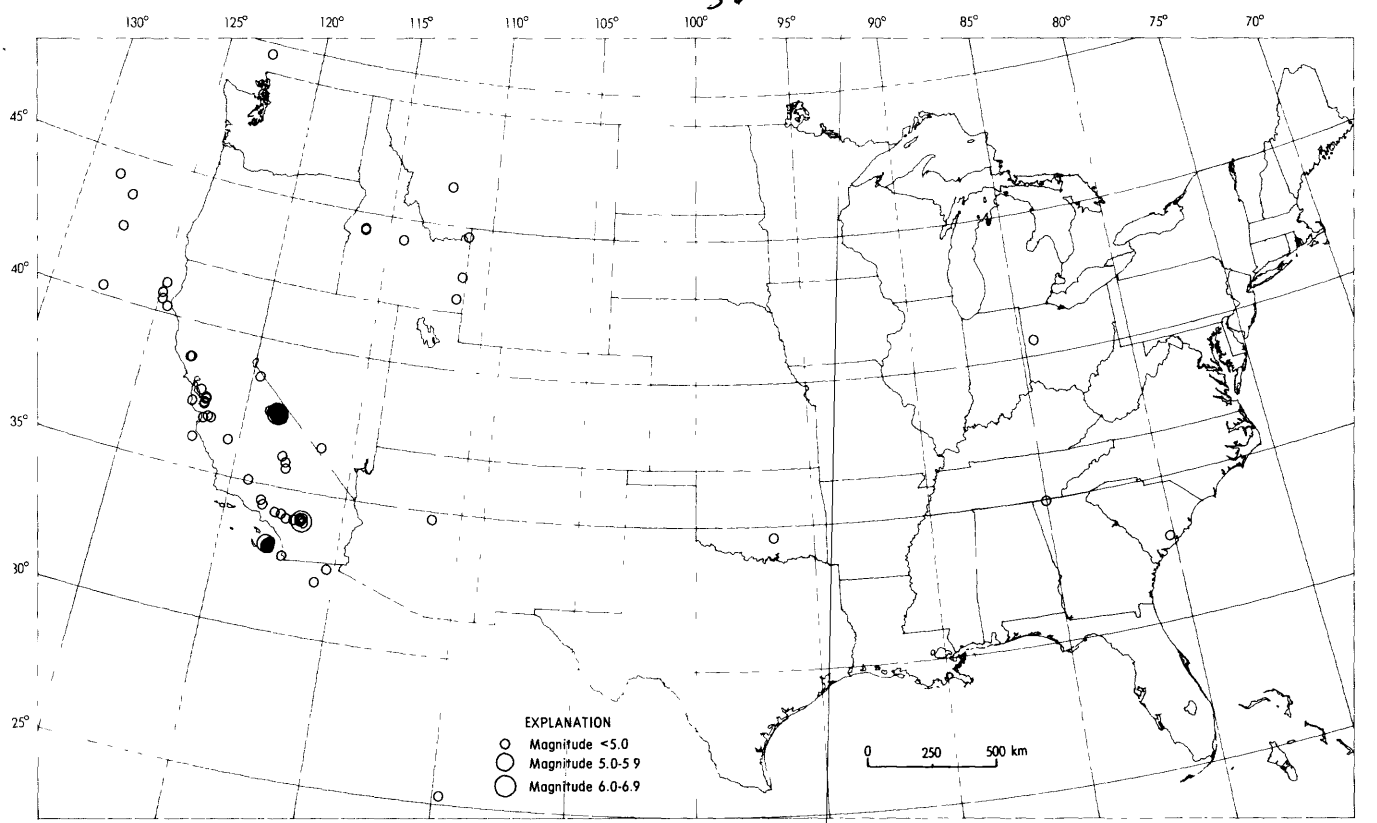




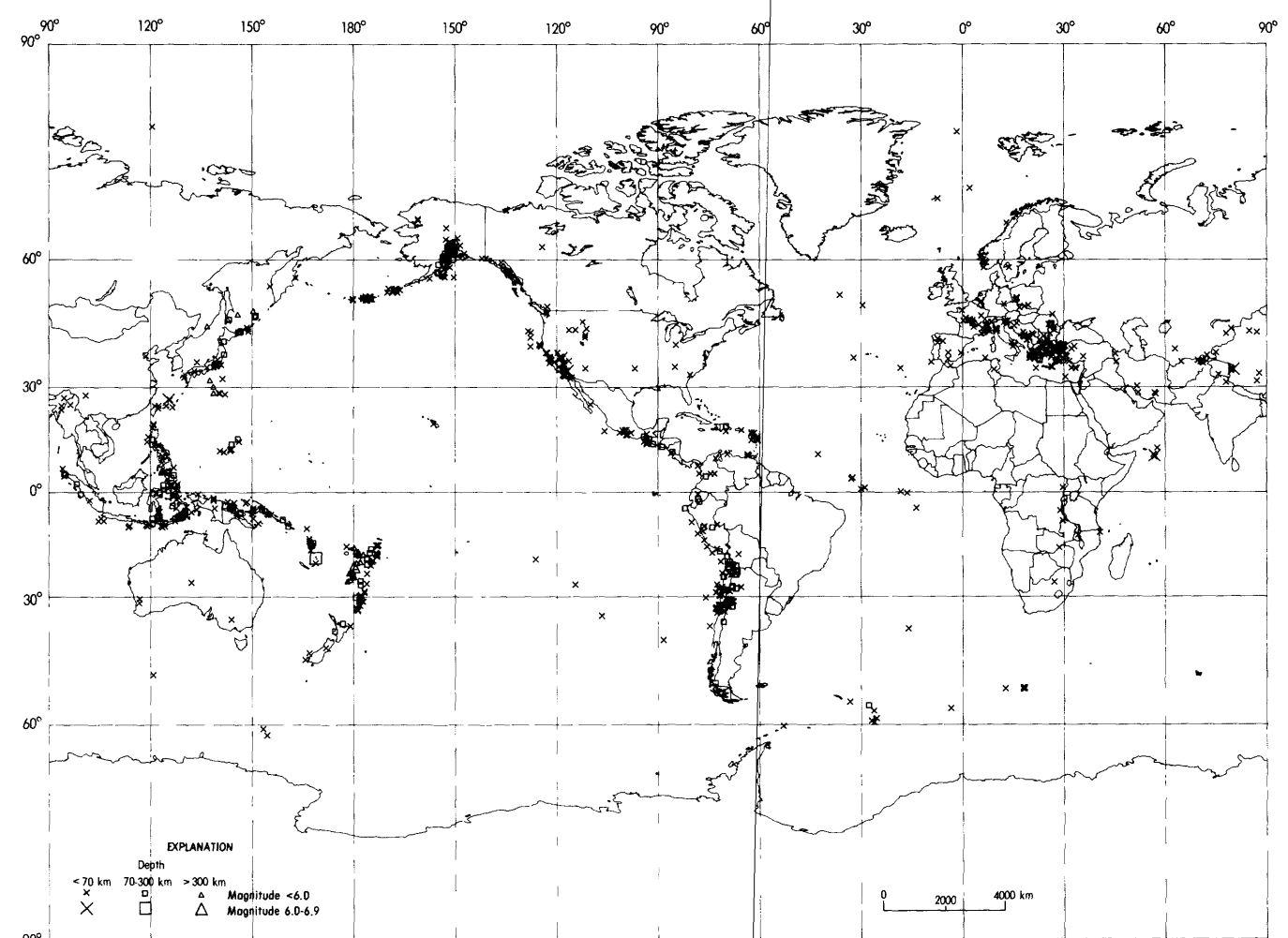
Earthquake epicenters in Alaska and adjacent regions for July, 1986 (C. Stover).

Earthquake Epicenters in the Andreanof Islands, Alaska, July 1986





Earthquake epicenters in the conterminous United States and adjacent regions for July, 1986 (C. Stover).



Earthquakes located in July, 1986 (C. Stover).

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