UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

PRELIMINARY DETERMINATION OF EPICENTERS
MONTHLY LISTING
July-September 1985

NATIONAL EARTHQUAKE INFORMATION CENTER

Open File Report
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PRELIMINARY DETERMINATION OF EPICENTERS

MONTHLY LISTING

U.S. DEPARTMENT OF THE INTERIOR / GEOLOGICAL SURVEY

National Earthquake Information Center

J U L Y 1 9 8 5

KEY	DAY	ORIGIN TIME UTC HR	MN	SEC	GEOGRAPHIC COORDINATES LAT		LONG		DEPTH	MAGNITUDES GS MB	Msz	SD	NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
	01	00	14	33.6?	61.16	N	25.52	W	10 G	4.1		1.1	23	ICELAND REGION
	01	01	17	42.3?	44.73	N	17.35	E	10 G			1.5	5	YUGOSLAVIA
a	01	02	23	52.1	18.367	N	87.188	E	10 G	5.3	5.0	1.0	168	BAY OF BENGAL. Felt in the Bhubaneswar-Cuttack area, India.
	01	03	56	04.7*	37.440	N	21.734	E	10 G	3.7		1.3	6	SOUTHERN GREECE
	01	04	06	08.9*	5.502	S	151.313	E	33 N			1.0	6	NEW BRITAIN REGION
	01	04	07	50.0	3.357	S	146.834	E	33 N	5.0	5.1	1.0	39	BISMARCK SEA
	01	05	09	28.8?	14.32	S	177.65	W	343 ?	4.3		0.8	9	FIJI ISLANDS REGION
	01	07	36	05.4	36.833	N	71.906	E	220 G	4.2		0.8	29	AFGHANISTAN-USSR BORDER REGION
a	01	07	49	29.4	8.272	N	126.516	E	78	5.5		1.2	135	MINDANAO, PHILIPPINE ISLANDS. Felt (V RF) at Bislig, (II RF) at Malaybalay and (I RF) at Cagayan de Oro.
	01	08	47	32.5*	12.617	S	119.111	E	33 N			0.3	5	SOUTH OF SUMBA ISLAND
	01	09	23	01.4*	10.835	S	118.607	E	33 N			0.8	6	SOUTH OF SUMBAWA ISLAND
a	01	09	53	35.9	0.867	N	26.803	W	10 G	5.0	4.7	1.0	141	CENTRAL MID-ATLANTIC RIDGE
	01	10	36	05.5%	31.180	S	67.831	W	10 G			0.5	6	SAN JUAN PROVINCE, ARGENTINA
	01	10	58	49.0	23.048	S	66.391	W	250	4.7		1.3	40	JUJUY PROVINCE, ARGENTINA
	01	12	27	58.0*	26.105	N	140.809	E	88 *	5.3		0.6	13	BONIN ISLANDS REGION. Felt (I JMA) on Chichi-shima.
	01	14	13	26.0*	18.377	S	71.580	W	62 ?	4.9		1.4	8	OFF COAST OF NORTHERN CHILE
	01	14	29	46.7*	33.216	S	71.746	W	10 G			1.3	13	NEAR COAST OF CENTRAL CHILE
	01	15	56	06.5*	33.223	S	71.761	W	10 G			1.2	14	NEAR COAST OF CENTRAL CHILE
	01	16	44	51.4	3.321	S	147.007	E	20 *	5.0	4.6	1.1	28	BISMARCK SEA
	01	18	11	37.3*	18.435	S	168.249	E	10 G			1.4	12	VANUATU ISLANDS
	01	18	49	07.7	27.902	S	69.396	W	102 *	5.0		1.5	26	NORTHERN CHILE
	01	20	12	14.0&	60.102	N	153.207	W	129				30	SOUTHERN ALASKA. <AGS-P>.
	01	22	36	23.3	47.486	N	11.940	E	10 G			1.2	14	AUSTRIA. ML 3.4 (FUR).
	01	22	43	36.9*	8.555	S	119.010	E	161 ?	3.6		0.8	7	FLORES ISLAND REGION
	01	23	10	04.8*	5.113	S	152.315	E	33 N	4.6		0.8	6	NEW BRITAIN REGION
	01	23	11	43.7*	3.613	N	82.969	W	10 G	4.3		1.1	6	SOUTH OF PANAMA
	01	23	18	17.2*	24.588	N	122.135	E	10 G	3.7		0.7	6	TAIWAN REGION
	02	01	23	18.3%	44.379	N	6.939	E	10 G			0.4	5	FRANCE. ML 2.1 (LDG).
	02	01	25	49.7%	16.838	N	98.956	W	33 N			0.7	8	NEAR COAST OF GUERRERO, MEXICO
	02	01	42	48.6*	66.215	N	150.041	W	10 G			0.4	7	ALASKA. ML 3.7 (PMR).
	02	02	46	44.1*	9.524	N	84.026	W	50 *	4.5		0.7	30	COSTA RICA
	02	02	50	45.5*	39.551	N	25.827	E	10 G			1.2	7	AEGEAN SEA
	02	03	03	56.0	43.255	N	111.154	W	5 G			0.9	19	EASTERN IDAHO. ML 4.0 (NEIS). Felt (IV) at Palisades and (III) at Irwin. Also felt (III) at Alpine, Wyoming.
	02	04	00	36.3%	31.554	S	67.821	W	10 G			0.4	6	SAN JUAN PROVINCE, ARGENTINA
	02	04	20	53.9	35.385	N	133.613	E	11	4.6		0.7	33	SOUTHERN HONSHU, JAPAN. Felt (II JMA) at Yanago, Tsuyama and Takamatsu, (I JMA) at Matsue, Tottori and Hirashima.
	02	04	56	46.5%	38.825	N	31.251	E	10 G			1.2	6	TURKEY
	02	04	58	37.0?	32.99	S	72.33	W	10 G			0.4	10	OFF COAST OF CENTRAL CHILE
	02	07	30	46.3	29.124	S	69.458	W	110 *	4.8		1.1	25	CHILE-ARGENTINA BORDER REGION
	02	07	31	34.7%	32.668	S	70.763	W	32 *			0.7	10	CHILE-ARGENTINA BORDER REGION
	02	09	23	21.3%	60.457	N	4.834	E	10 G			0.6	5	SOUTHERN NORWAY. DUR 3.0 (BER).
	02	10	18	28.9?	45.44	N	6.41	E	10 G			1.5	7	FRANCE
	02	10	58	04.7?	23.86	N	122.06	E	33 N			0.6	5	TAIWAN REGION
	02	11	44	23.5?	24.54	N	122.00	E	10 G			0.5	5	TAIWAN
a	02	12	34	53.4	40.635	N	143.793	E	26	5.1	5.4	1.1	119	OFF EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Obihiro, Hokkaida.
	02	12	55	53.6?	59.29	N	6.94	E	10 G			1.4	5	SOUTHERN NORWAY. DUR 2.3 (BER).
	02	13	01	17.9	63.455	N	151.259	W	33 N			0.6	13	CENTRAL ALASKA. ML 3.7 (PMR).
a	02	13	12	32.9	33.797	S	56.337	E	10 G	5.5	5.4	1.1	109	ATLANTIC-INDIAN RISE
a	02	13	48	19.1	33.749	S	56.419	E	10 G	5.6	5.7	1.1	184	ATLANTIC-INDIAN RISE
	02	14	05	48.2*	33.771	S	56.557	E	10 G	4.7		0.5	9	ATLANTIC-INDIAN RISE
	02	15	00	44.5	47.068	N	8.968	E	10 G			1.5	7	SWITZERLAND
	02	15	19	21.5%	46.388	N	0.409	E	10 G			1.0	10	FRANCE. ML 2.7 (LDG).
	02	15	56	56.8*	24.110	N	122.172	E	10 G			0.3	6	TAIWAN REGION

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	02	16	11	19.1*	32.882	S	71.592	W	10	G			0.7	11	NEAR COAST OF CENTRAL CHILE
	02	16	16	06.7*	33.332	S	71.522	W	33	N			0.2	10	NEAR COAST OF CENTRAL CHILE
	02	17	09	58.2%	60.806	N	5.018	E	10	G			0.7	5	SOUTHERN NORWAY. DUR 1.8 (BER).
	02	17	30	30.7&	36.982	N	119.638	W	23					13	CENTRAL CALIFORNIA. <BRK>. ML 2.7 (BRK). Felt at Friant Dam.
	02	18	10	41.4?	7.73	S	120.04	E	187	?	3.9		1.3	7	FLORES SEA
	02	19	56	56.0&	37.678	N	121.613	W	5	G				11	CENTRAL CALIFORNIA. <BRK>. ML 2.7 (BRK).
	02	22	11	39.9*	4.166	S	138.363	E	115	?	5.1		0.9	9	WEST IRIAN
	02	23	56	08.9&	40.822	N	124.348	W	9					6	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 2.5 (BRK). Felt (IV) at Samoa and Fields Landing. Felt (III) at Eureka.
	03	01	02	23.2*	9.060	S	158.411	E	33	N	3.9		1.2	6	SOLOMON ISLANDS
	03	01	20	36.2	0.921	N	127.479	E	145	*	4.8		0.7	24	HALMAHERA
	03	02	12	06.7&	58.496	N	151.200	W	74					38	KODIAK ISLAND REGION. <AGS-P>.
	03	02	12	21.0*	33.471	S	72.666	W	10	G			0.8	13	OFF COAST OF CENTRAL CHILE
	03	02	20	54.4*	19.908	S	33.079	E	10	G	4.6		0.9	8	MOZAMBIQUE
f	03	03	11	31.5	54.820	S	146.436	E	10	G	5.8	6.2	1.4	113	WEST OF MACQUARIE ISLAND
f	03	04	36	51.7	4.439	S	152.828	E	33	N	6.3	7.2	1.0	345	NEW BRITAIN REGION. Ms 7.4 (BRK). Damage (VII), landslides and ground cracks on New Ireland and in the Rabaul area, New Britain. A 1.3 m tsunami was observed in Rabaul's harbor followed by a seiche that lasted for 15 hours. Felt (IV) at Panguna, Salaman Islands.
	03	05	20	15.4	4.364	S	152.951	E	33	N	5.5		0.8	34	NEW BRITAIN REGION
	03	05	28	30.5	4.238	S	152.785	E	51	*	4.9		1.3	20	NEW BRITAIN REGION
	03	06	08	15.1*	4.135	S	152.807	E	33	N	4.5		1.2	18	NEW BRITAIN REGION
	03	06	37	02.9*	4.544	S	152.803	E	33	N	4.7		1.4	9	NEW BRITAIN REGION
	03	06	49	19.1*	4.541	S	152.875	E	33	N	4.4		1.6	20	NEW BRITAIN REGION
	03	06	56	15.8*	4.484	S	152.557	E	33	N	4.0		0.9	10	NEW BRITAIN REGION
	03	06	58	42.5&	37.240	N	121.632	W	7					14	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
	03	07	07	42.4*	4.361	S	152.629	E	33	N	4.8		1.4	20	NEW BRITAIN REGION
	03	07	57	31.2?	9.42	N	86.54	W	33	N	4.2		1.3	12	OFF COAST OF COSTA RICA
	03	08	32	50.3?	59.45	N	6.59	E	10	G			1.3	5	SOUTHERN NORWAY. DUR 2.3 (BER).
	03	10	20	13.8	27.160	N	139.956	E	499		5.3		0.9	235	BONIN ISLANDS REGION
	03	10	20	20.2	27.207	N	139.898	E	489		5.3		0.8	80	BONIN ISLANDS REGION. Felt (I JMA) on Chichi-shima.
	03	10	57	42.3*	4.663	S	136.510	E	33	N	3.9		1.1	8	WEST IRIAN REGION
	03	11	05	36.2&	62.938	N	148.056	W	44					31	CENTRAL ALASKA. <AGS-P>.
	03	11	09	38.8*	4.509	S	152.803	E	43	*	4.6		0.8	13	NEW BRITAIN REGION
	03	11	18	13.7	4.349	S	152.685	E	33	N	4.9		1.2	56	NEW BRITAIN REGION
	03	11	27	48.9%	60.507	N	5.337	E	10	G			0.5	5	SOUTHERN NORWAY. DUR 1.9 (BER).
	03	12	24	22.0	4.391	S	152.687	E	38		5.1		1.0	74	NEW BRITAIN REGION
	03	12	36	35.0	4.458	S	152.847	E	40	*	4.9		1.1	35	NEW BRITAIN REGION
	03	13	05	03.5*	4.779	S	153.186	E	33	N	4.8		0.8	14	NEW IRELAND REGION
	03	13	10	08.3	5.886	N	77.389	W	31	*	4.8		1.2	43	NEAR WEST COAST OF COLOMBIA
	03	13	19	07.8%	39.104	N	27.659	E	10	G			0.6	6	TURKEY
	03	13	27	14.9*	4.428	S	152.694	E	33	N	4.1		1.4	7	NEW BRITAIN REGION
	03	13	35	47.7	4.522	S	152.651	E	38		4.8		0.9	39	NEW BRITAIN REGION
	03	14	04	23.5*	22.408	S	179.719	W	678	?	4.9		0.9	23	SOUTH OF FIJI ISLANDS
	03	14	17	38.9%	41.082	N	28.535	E	10	G			0.5	9	TURKEY
	03	15	08	32.6?	34.06	S	71.42	W	32				1.2	14	NEAR COAST OF CENTRAL CHILE
f	03	15	55	48.7	17.243	S	167.834	E	29		5.8	6.4	1.1	173	VANUATU ISLANDS. Ms 6.7 (BRK), 6.2 (PAS).
	03	16	17	21.5*	17.343	S	167.702	E	10	G	4.6		1.3	36	VANUATU ISLANDS
	03	16	34	32.6*	17.298	S	167.655	E	10	G	4.7		1.0	23	VANUATU ISLANDS
	03	16	55	19.4*	24.011	N	121.714	E	10	G			0.7	6	TAIWAN
	03	17	51	34.4	4.543	S	152.535	E	33	N	4.6		1.0	18	NEW BRITAIN REGION
	03	17	52	08.6	17.441	S	167.757	E	29	D	4.7		1.1	66	VANUATU ISLANDS
	03	17	56	19.5?	19.44	N	146.22	E	33	N	4.8		1.1	13	MARIANA ISLANDS REGION
	03	18	12	26.0*	33.760	S	71.900	W	10	G			0.6	11	NEAR COAST OF CENTRAL CHILE
	03	18	29	23.9&	60.823	N	147.046	W	22					44	SOUTHERN ALASKA. <AGS-P>.
	03	18	59	15.5?	11.44	N	71.90	W	33	N			0.6	5	NEAR COAST OF VENEZUELA
	03	19	08	54.5*	30.375	S	178.630	W	166	*	5.2		1.3	36	KERMADEC ISLANDS
	03	19	58	25.1	1.445	N	126.594	E	55	*	5.2		1.1	36	MOLUCCA PASSAGE
	03	20	11	35.7?	51.25	N	15.87	E	10	G			1.1	5	POLAND
	03	21	38	04.5	4.416	S	152.862	E	33	N	4.9		1.1	32	NEW BRITAIN REGION
	03	22	24	40.7	4.469	S	152.726	E	33	N	4.9		1.1	38	NEW BRITAIN REGION
	03	22	26	26.7&	62.569	N	151.301	W	84					28	CENTRAL ALASKA. <AGS-P>.
	03	23	27	36.4	3.293	S	80.659	W	33	N	4.8	4.8	0.9	17	PERU-ECUADOR BORDER REGION
	03	23	30	39.9*	42.052	N	46.971	E	33	N	4.3		1.2	5	EASTERN CAUCASUS. Some old buildings damaged. Felt (V) at Shamkhar, (IV) at Tauz and (III) at Kiravabad and Khanlar.
a	03	23	50	13.1	4.256	S	152.577	E	39		5.3	5.3	0.9	140	NEW BRITAIN REGION
	04	02	41	06.9&	60.335	N	150.030	W	42					35	KENAI PENINSULA, ALASKA. <AGS-P>.
	04	02	41	26.5%	18.258	N	99.882	W	33	N			0.5	5	GUERRERO, MEXICO
	04	03	34	07.5	4.532	S	152.834	E	33	N	4.9		1.0	50	NEW BRITAIN REGION
	04	03	53	01.5*	31.298	S	71.550	W	33	N			0.6	15	NEAR COAST OF CENTRAL CHILE
	04	04	10	39.0*	10.560	S	161.697	E	79	*	4.6		1.2	16	SOLOMON ISLANDS
a	04	05	08	31.5	42.132	N	45.860	E	33	N	5.2	5.0	1.3	127	EASTERN CAUCASUS. Felt (V) at Sheki, (IV) at Graznyy, (III) at Tbilisi and Stepanavan.
	04	05	24	21.3*	37.484	S	176.477	E	208	*			1.0	11	NORTH ISLAND, NEW ZEALAND
	04	05	24	59.9*	6.073	S	130.124	E	33	N	4.9		1.0	7	BANDA SEA
	04	06	04	46.0?	29.41	N	52.64	E	23	*	4.8		0.5	15	SOUTHERN IRAN
	04	07	26	59.5*	23.002	S	66.622	W	223	*	4.0		1.3	9	JUJUY PROVINCE, ARGENTINA
a	04	08	51	35.6	17.533	N	96.991	W	70		5.0		1.0	165	OAXACA, MEXICO. Felt at Rio Verde. Also felt at Mexico City.
	04	09	29	25.0%	40.259	N	27.949	E	10	G			0.3	5	TURKEY
	04	09	46	33.3	29.083	N	143.494	E	33	N	5.0		0.9	36	SOUTH OF HONSHU, JAPAN
	04	10	17	14.0*	33.136	S	71.764	W	10	G			1.0	13	NEAR COAST OF CENTRAL CHILE
	04	10	46	52.4	47.332	N	11.424	E	10	G			1.2	12	AUSTRIA. ML 3.4 (KBA), 3.1 (FUR).
	04	11	12	45.4*	4.287	S	152.896	E	33	N	3.9		1.0	10	NEW BRITAIN REGION
	04	13	05	56.9&	37.467	N	118.858	W	10	G				21	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.1 (BRK), 3.8 (PAS).
	04	13	22	00.7*	17.229	S	167.859	E	10	G	4.6		1.1	10	VANUATU ISLANDS
	04	13	57	19.9&	61.266	N	150.482	W	45					34	SOUTHERN ALASKA. <AGS-P>.
	04	14	16	16.0*	24.615	N	122.385	E	10	G	4.8		1.1	7	TAIWAN REGION
	04	14	30	38.3?	45.33	N	25.16	E	10	G			1.5	5	ROMANIA

	04	14	55	12.2	7.060	S	106.322	E	88	*	4.9		1.2	40	JAVA
	04	15	09	06.1*	26.842	S	26.542	E	5	G			1.2	7	REPUBLIC OF SOUTH AFRICA
	04	15	27	52.8	2.930	N	128.490	E	229	*	5.0		0.9	47	HALMAHERA
	04	16	40	01.7	22.445	N	121.359	E	22		4.8	4.1	1.3	47	TAIWAN REGION
	04	16	46	12.8*	39.850	N	15.752	E	285	?	4.3		1.1	24	SOUTHERN ITALY
	04	16	59	46.7*	0.077	N	125.032	E	93	?	4.2		1.1	8	MOLUCCA PASSAGE
	04	17	06	32.6	4.566	S	152.683	E	47		4.7		0.9	74	NEW BRITAIN REGION
	04	17	17	55.3*	50.326	N	18.805	E	10	G			0.2	6	POLAND. ML 3.3 (VKA).
	04	18	00	01.4*	4.034	S	152.532	E	32	*	4.1		1.3	7	NEW BRITAIN REGION
	04	18	02	50.7*	32.305	S	68.146	W	21	*			1.4	13	MENDOZA PROVINCE, ARGENTINA
	04	18	03	05.4&	59.397	N	146.622	W	10					28	GULF OF ALASKA. <AGS-P>.
	04	19	54	19.0?	4.09	S	152.55	E	33	N	4.1		0.9	6	NEW BRITAIN REGION
	04	20	55	10.3*	17.405	N	145.786	E	513	*	4.3		1.1	13	MARIANA ISLANDS
	04	22	03	18.9*	35.191	N	31.030	E	66	*	4.1		1.2	11	CYPRUS
	04	22	10	14.4	41.370	N	1.583	E	11	*			0.9	20	SPAIN. ML 3.7 (LDG). Felt (IV) at Villanueva y Geltru. Felt also at Vendrell and Villafranca del Penedes.
	04	23	13	21.4*	33.778	S	71.582	W	14				0.4	10	NEAR COAST OF CENTRAL CHILE
	04	23	37	26.9*	29.223	N	130.483	E	33	N	5.0		1.3	16	RYUKYU ISLANDS
	04	23	38	05.9*	27.692	N	56.324	E	33	N	4.5		0.8	12	SOUTHERN IRAN
	05	00	31	49.6*	31.000	N	50.159	E	33	N	4.5		1.4	8	IRAN
	05	00	46	58.3?	29.21	N	130.71	E	33	N	4.9		0.4	11	RYUKYU ISLANDS
	05	01	20	41.2?	3.08	S	152.71	E	33	N			0.6	6	NEW IRELAND REGION
	05	02	13	25.3&	61.246	N	149.348	W	36					45	SOUTHERN ALASKA. <AGS-P>.
	05	02	33	05.7	28.007	S	66.552	W	192	*			1.3	18	CATAMARCA PROVINCE, ARGENTINA
	05	02	38	19.6	46.729	N	144.686	E	400	D	5.0		0.8	146	SEA OF OKHOTSK
	05	02	59	23.9?	59.37	N	6.76	E	10	G			0.5	5	SOUTHERN NORWAY. DUR 2.3 (BER).
a	05	06	17	17.1	18.465	N	63.063	W	55	*	5.2	4.4	1.0	151	LEEWARD ISLANDS
	05	07	17	12.9*	1.155	S	128.472	E	33	N	4.8	3.8	1.5	9	HALMAHERA
	05	07	20	09.6	17.268	N	94.233	W	132		5.2		1.1	158	CHIAPAS, MEXICO
	05	07	44	39.9?	45.31	N	25.54	E	5	G			1.4	5	ROMANIA
	05	09	24	44.7*	10.703	S	124.190	E	33	N			1.0	5	TIMOR
	05	11	07	29.0%	41.162	N	28.452	E	10	G			0.8	8	TURKEY
	05	11	16	30.5	44.282	N	17.654	E	10	G			0.8	10	YUGOSLAVIA. ML 3.6 (KBA).
	05	11	24	20.7?	5.53	S	148.07	E	165	*	4.2		1.2	7	NEW BRITAIN REGION
	05	11	42	40.1%	40.869	N	29.253	E	10	G			0.4	10	TURKEY
	05	12	32	25.3?	40.42	N	25.78	E	10	G			0.7	6	AEGEAN SEA
	05	12	50	49.1	17.325	S	167.709	E	10	G	4.5		1.3	42	VANUATU ISLANDS
	05	13	27	03.5%	39.105	N	27.614	E	10	G			0.4	6	TURKEY
	05	13	49	05.5*	24.001	S	66.734	W	221	*			0.8	6	SALTA PROVINCE, ARGENTINA
	05	14	33	13.4	4.049	S	152.592	E	33	N	4.7		0.8	21	NEW BRITAIN REGION
a	05	15	22	37.9	33.441	S	72.214	W	33	N	5.1	5.3	1.2	56	OFF COAST OF CENTRAL CHILE. Felt (IV) at Santa Domingo, Valparaiso, San Antonio and Vina del Mar, (II) at Santiago.
	05	15	26	18.5*	33.578	S	71.554	W	10	G			1.4	8	NEAR COAST OF CENTRAL CHILE
	05	15	37	30.5	33.407	S	72.323	W	33	N	4.5		1.1	25	OFF COAST OF CENTRAL CHILE. Felt (III) at Santiago.
	05	15	50	49.4*	40.325	N	25.920	E	10	G			1.4	10	AEGEAN SEA
	05	15	51	46.2?	33.46	S	71.97	W	10	G			0.4	9	NEAR COAST OF CENTRAL CHILE
	05	16	24	21.5?	3.65	S	140.12	E	151	?	4.8		0.8	5	WEST IRIAN
	05	17	22	45.5*	33.459	S	72.062	W	10	G			0.6	12	OFF COAST OF CENTRAL CHILE
	05	17	27	14.8?	33.45	S	72.72	W	33	N			0.3	10	OFF COAST OF CENTRAL CHILE
	05	18	02	39.4*	51.716	N	173.655	W	33	N	4.9		1.0	37	ANDREANOF ISLANDS, ALEUTIAN IS.
	05	18	17	42.8	44.516	N	9.808	E	11				1.1	22	NORTHERN ITALY. ML 3.2 (LDG), 3.1 (KBA).
	05	18	33	02.0*	65.853	N	154.274	W	10	G			1.5	8	ALASKA
	05	18	33	10.4&	59.829	N	153.482	W	123					25	SOUTHERN ALASKA. <AGS-P>.
	05	18	39	56.4?	33.65	S	71.83	W	33	N			0.2	7	NEAR COAST OF CENTRAL CHILE
	05	18	56	05.7*	21.733	N	99.580	E	33	N			1.5	12	BURMA-CHINA BORDER REGION
	05	19	06	36.6	29.317	N	130.604	E	40		4.6		1.0	34	RYUKYU ISLANDS
	05	19	31	29.4?	33.43	S	72.21	W	10	G			0.3	10	OFF COAST OF CENTRAL CHILE
	05	19	42	34.5?	44.39	N	9.64	E	10	G			0.9	5	NORTHERN ITALY. ML 2.6 (LDG).
	05	19	59	46.7*	33.450	S	72.065	W	10	G			0.5	10	OFF COAST OF CENTRAL CHILE
	05	20	07	43.0	40.420	N	26.056	E	10	G			1.1	12	TURKEY
	05	20	52	36.9?	33.46	S	72.75	W	33	N			0.4	10	OFF COAST OF CENTRAL CHILE
	05	21	00	01.5	17.688	N	70.348	W	33	N	4.8	3.9	0.8	40	DOMINICAN REPUBLIC REGION
	05	21	04	32.5?	33.42	S	72.23	W	10	G			0.3	10	OFF COAST OF CENTRAL CHILE
	05	21	27	29.4*	20.878	S	71.024	W	71	*			1.0	10	OFF COAST OF NORTHERN CHILE
a	05	21	29	46.9	46.922	S	10.692	W	10	G	5.1	4.9	1.0	35	SOUTH ATLANTIC RIDGE
	05	22	48	56.4?	33.46	S	73.00	W	33	N			0.4	10	OFF COAST OF CENTRAL CHILE
	05	22	50	12.3	42.053	N	142.745	E	53		4.6		1.0	39	HOKKAIDO, JAPAN REGION. Felt (II JMA) at Urakawa and (I JMA) at Obihiro.
	05	22	51	21.5?	37.80	S	179.21	E	170	*			1.4	8	OFF E. COAST OF N. ISLAND, N.Z.
	05	22	59	46.7*	33.732	S	71.656	W	10	G			0.5	12	NEAR COAST OF CENTRAL CHILE
a	05	23	10	14.9	5.722	N	95.503	E	10	G	5.0	5.2	1.3	83	NORTHERN SUMATERA. Felt (III) at Banda Aceh.
	05	23	46	01.7&	62.032	N	150.777	W	64					24	CENTRAL ALASKA. <AGS-P>.
	05	23	58	19.0*	4.461	S	152.658	E	53	*	4.1		1.3	24	NEW BRITAIN REGION
	06	00	26	12.5*	39.660	N	20.181	E	10	G	3.5		1.5	9	GREECE-ALBANIA BORDER REGION. ML 4.0 (ATH).
	06	01	22	28.9	43.342	N	144.008	E	28	*	4.6		1.2	24	HOKKAIDO, JAPAN REGION. Felt (II JMA) at Kushiro and (I JMA) at Nemuro.
	06	01	36	41.2	42.013	N	142.994	E	57		4.9		1.0	24	HOKKAIDO, JAPAN REGION. Felt (III JMA) at Urakawa and (II JMA) at Obihiro.
f	06	03	37	18.2	29.721	S	177.771	W	50		5.7	5.9	1.1	251	KERMADEC ISLANDS. Ms 6.2 (BRK). Felt on Raoul Island.
	06	03	50	28.8?	33.43	S	72.27	W	10	G			0.4	10	OFF COAST OF CENTRAL CHILE
	06	04	24	52.8*	15.094	N	145.463	E	145		5.0		1.0	24	MARIANA ISLANDS. Felt (III) on Guam.
	06	04	27	42.5	44.214	N	17.706	E	10	G			1.0	10	YUGOSLAVIA. ML 3.1 (KBA).
	06	05	22	07.0	6.517	S	129.843	E	181	*	5.2		1.1	38	BANDA SEA
	06	06	20	07.8	27.126	N	139.990	E	490	*	4.9		0.8	97	BONIN ISLANDS REGION
	06	07	08	01.2*	7.509	S	128.356	E	176	*	4.4		1.4	13	BANDA SEA
	06	08	17	27.0*	24.201	S	67.381	W	193	?			1.5	7	CHILE-ARGENTINA BORDER REGION
a	06	08	33	06.8	33.397	S	72.151	W	40		5.3	5.1	1.1	108	OFF COAST OF CENTRAL CHILE. Felt (V) at San Antonio. Felt (III) at Mendaza, Argentina.
	06	08	47	09.7?	33.42	S	72.77	W	33	N			0.4	10	OFF COAST OF CENTRAL CHILE
	06	08	53	39.9	40.081	N	23.694	E	10	G			0.9	21	GREECE. ML 3.6 (ATH).
	06	09	08	54.2&	59.649	N	145.759	W	14					62	GULF OF ALASKA. <AGS-P>. ML 3.2 (PMR).
	06	09	21	21.8*	6.376	S	154.063	E	33	N	4.2		0.6	6	SOLOMON ISLANDS

	06	10	09	32.6&	37.270	N	121.668	W	7				15	CENTRAL CALIFORNIA. <BRK>. ML 3.1 (BRK).
	06	10	34	46.2*	31.162	N	114.277	W	10	G	4.3	1.3	21	GULF OF CALIFORNIA
	06	10	53	23.5	43.990	N	17.529	E	10	G		1.1	35	YUGOSLAVIA. ML 4.0 (KBA), 4.0 (TRI), 3.6 (VKA).
	06	11	23	06.5	33.504	S	72.307	W	33	N	4.3	1.1	28	OFF COAST OF CENTRAL CHILE
	06	11	23	11.4*	44.343	N	17.545	E	10	G		1.4	15	YUGOSLAVIA. ML 3.7 (TRI), 3.4 (KBA).
	06	11	45	52.2%	44.695	N	2.589	E	10	G		0.7	9	FRANCE. ML 2.6 (LDG).
	06	13	02	32.1?	13.15	S	116.88	E	33	N	3.9	1.2	12	NORTHWEST OF AUSTRALIA
	06	14	09	01.8%	45.812	N	25.314	E	10	G		0.5	5	ROMANIA
	06	14	30	25.1?	32.36	N	115.06	W	5	G		1.3	6	CALIFORNIA-MEXICO BORDER REGION
a	06	14	37	28.4	9.725	S	117.670	E	86	D	5.6	1.1	174	SUMBAWA ISLAND REGION. Felt (III) on Bali.
	06	14	38	22.8	33.463	S	72.303	W	33	N	4.8 4.8	1.1	27	OFF COAST OF CENTRAL CHILE
	06	14	43	16.7*	33.717	S	71.368	W	10	G		1.3	11	NEAR COAST OF CENTRAL CHILE
	06	15	11	42.8?	10.71	N	86.53	W	33	N	4.2	0.9	9	OFF COAST OF COSTA RICA
	06	15	18	01.5*	33.810	S	71.535	W	10	G		1.0	13	NEAR COAST OF CENTRAL CHILE
	06	15	48	53.6?	9.50	S	124.16	E	129	*		0.6	9	TIMOR
	06	16	03	14.3?	33.50	S	72.93	W	33	N		0.6	11	OFF COAST OF CENTRAL CHILE
	06	16	05	06.0*	4.315	S	152.617	E	33	N	4.5	1.4	12	NEW BRITAIN REGION
	06	16	09	00.1*	4.273	S	152.856	E	33	N	4.7	1.3	13	NEW BRITAIN REGION
	06	16	13	31.3?	15.96	N	94.35	W	128	*	3.1	0.7	14	NEAR COAST OF OAXACA, MEXICO
	06	16	41	33.1*	22.684	N	120.585	E	33	N	4.2	1.4	9	TAIWAN
	06	18	29	16.6*	33.464	S	71.820	W	10	G		0.9	12	NEAR COAST OF CENTRAL CHILE
	06	19	29	39.0?	17.73	S	178.49	W	600	*	4.8	1.1	22	FIJI ISLANDS REGION
	06	20	07	41.4*	33.484	S	72.686	W	33	N		0.8	17	OFF COAST OF CENTRAL CHILE
	06	20	15	48.4	33.422	S	72.104	W	24			0.9	21	OFF COAST OF CENTRAL CHILE
	06	20	22	54.4*	41.178	N	19.966	E	10	G		1.5	7	ALBANIA
	06	20	28	58.9	5.275	S	152.936	E	50	*	4.7 4.3	1.3	32	NEW BRITAIN REGION
	06	20	56	02.3*	33.409	S	72.330	W	29		4.7	1.2	25	OFF COAST OF CENTRAL CHILE
	06	21	01	01.3?	33.40	S	72.94	W	10	G		0.4	9	OFF COAST OF CENTRAL CHILE
	06	21	54	17.3*	33.457	S	72.486	W	25			0.9	18	OFF COAST OF CENTRAL CHILE
	06	23	01	01.3	46.925	N	143.730	E	376	*	4.7	0.7	39	SAKHALIN ISLAND
	07	00	08	55.6	47.088	N	7.614	E	10	G		0.7	11	SWITZERLAND. ML 2.7 (LDG).
	07	01	11	36.0*	31.619	S	69.409	W	33	N		1.5	17	SAN JUAN PROVINCE, ARGENTINA
	07	02	39	29.2*	33.496	S	71.938	W	10	G		0.4	11	NEAR COAST OF CENTRAL CHILE
	07	03	17	40.2	12.080	N	143.751	E	35	*	4.8 4.6	1.0	29	SOUTH OF MARIANA ISLANDS
	07	03	51	29.5?	10.22	S	124.3B	E	33	N	3.8	1.2	5	TIMOR
	07	03	58	00.4?	33.55	S	71.75	W	10	G		1.4	7	NEAR COAST OF CENTRAL CHILE
	07	04	00	30.0	47.656	N	147.793	E	339	?	4.4	0.8	50	NORTHWEST OF KURIL ISLANDS
	07	04	34	52.5&	60.894	N	150.036	W	43				36	KENAI PENINSULA, ALASKA. <AGS-P>.
	07	04	51	39.3	39.931	N	24.654	E	13		3.7	0.9	13	AEGEAN SEA
	07	04	55	11.4*	20.806	S	178.715	W	610	*	4.3	0.8	18	FIJI ISLANDS REGION
	07	05	45	39.6%	39.692	N	28.905	E	10	G		0.9	6	TURKEY
a	07	06	01	37.3	22.577	N	141.982	E	260		5.4	0.9	212	VOLCANO ISLANDS REGION. Felt (II JMA) on Chichi-shima.
	07	06	06	55.0*	16.668	N	99.449	W	5	G	4.0	1.3	10	NEAR COAST OF GUERRERO, MEXICO
	07	07	57	08.6%	39.663	N	28.885	E	10	G		0.6	6	TURKEY
	07	09	39	02.6*	6.917	N	76.466	W	33	N	4.1	1.4	13	NORTHERN COLOMBIA
	07	09	40	07.1?	15.84	N	94.28	W	33	N		1.3	6	NEAR COAST OF OAXACA, MEXICO
	07	10	31	58.9%	31.550	S	68.379	W	33	N		0.7	5	SAN JUAN PROVINCE, ARGENTINA
	07	10	32	18.7*	42.822	N	12.942	E	10	G		0.4	8	CENTRAL ITALY. ML 3.7 (KBA).
	07	10	38	47.6*	33.778	S	71.581	W	10	G		1.1	11	NEAR COAST OF CENTRAL CHILE
	07	10	45	36.7&	61.180	N	151.520	W	75				41	SOUTHERN ALASKA. <AGS-P>.
	07	10	48	25.9&	36.397	N	121.833	W	1				12	CENTRAL CALIFORNIA. <BRK>. ML 2.9 (BRK).
a	07	11	25	11.7	32.951	S	72.072	W	31	D	5.5 5.8	1.0	174	OFF COAST OF CENTRAL CHILE. Ms 5.6 (BRK). Felt (III) in the Valparaisa-Vina del Mar area and (II) at Santiago. Felt at Mendaza, Argentina.
	07	11	42	52.6*	33.181	S	71.670	W	10	G		1.0	15	NEAR COAST OF CENTRAL CHILE
	07	11	50	01.2?	33.00	S	72.14	W	10	G		0.6	7	OFF COAST OF CENTRAL CHILE
	07	12	00	37.4&	19.168	N	155.596	W	10		4.0		34	HAWAII. <HVO-P>. ML 4.2 (HVO). Felt throughaut much of the sauthern part of the island of Hawaii.
	07	13	05	08.9*	33.012	S	72.369	W	10	G	4.2 4.7	1.2	17	OFF COAST OF CENTRAL CHILE
	07	13	12	02.8*	33.245	S	71.710	W	10	G		1.0	11	NEAR COAST OF CENTRAL CHILE
	07	14	26	56.9*	32.995	S	72.443	W	10	G		1.0	14	OFF COAST OF CENTRAL CHILE
	07	15	06	37.7*	33.208	S	71.722	W	10	G		0.8	10	NEAR COAST OF CENTRAL CHILE
	07	15	24	12.2?	32.73	S	73.11	W	33	N		0.8	8	OFF COAST OF CENTRAL CHILE
	07	16	03	00.8*	33.097	S	71.587	W	10	G		0.9	15	NEAR COAST OF CENTRAL CHILE
	07	16	06	59.0*	32.760	S	72.042	W	31			0.8	14	OFF COAST OF CENTRAL CHILE
	07	16	11	35.4*	33.170	S	71.706	W	10	G		1.1	14	NEAR COAST OF CENTRAL CHILE
	07	16	25	35.1*	33.637	S	178.831	W	33	N	4.8	1.2	11	SOUTH OF KERMADEC ISLANDS
	07	16	58	47.3*	4.337	S	152.706	E	33	N	3.9	1.4	5	NEW BRITAIN REGION
	07	17	35	19.8	17.607	S	167.659	E	10	G	4.6	1.1	38	VANUATU ISLANDS
	07	17	58	48.3*	33.117	S	72.662	W	27			1.3	22	OFF COAST OF CENTRAL CHILE
	07	18	10	36.1?	34.73	N	137.23	E	392	?	4.1	0.8	13	NEAR S. COAST OF HONSHU, JAPAN
	07	18	22	17.4*	33.009	S	72.392	W	10	G		1.3	16	OFF COAST OF CENTRAL CHILE
	07	18	27	59.6%	16.883	N	100.260	W	33	N		0.6	6	NEAR COAST OF GUERRERO, MEXICO
	07	18	48	11.2	32.991	S	72.211	W	10	G	4.6	0.9	21	OFF COAST OF CENTRAL CHILE
	07	20	26	23.0*	32.754	S	72.093	W	29			0.9	12	OFF COAST OF CENTRAL CHILE
	07	20	32	51.4	33.115	S	71.828	W	33	N	4.5	1.1	19	NEAR COAST OF CENTRAL CHILE
	07	21	27	23.2	3.334	S	137.844	E	46	*	5.1	1.1	51	WEST IRIAN
	07	23	00	56.2*	33.165	S	71.733	W	10	G		1.2	12	NEAR COAST OF CENTRAL CHILE
	07	23	07	05.6*	50.485	N	19.216	E	10	G		1.5	5	POLAND
	07	23	13	21.1?	32.64	S	72.84	W	10	G		0.5	10	OFF COAST OF CENTRAL CHILE
	07	23	42	01.0?	32.91	S	72.13	W	10	G		0.3	10	OFF COAST OF CENTRAL CHILE
	08	00	10	23.6*	33.107	S	71.753	W	10	G		1.1	12	NEAR COAST OF CENTRAL CHILE
	08	01	31	50.0	36.470	N	70.118	E	220	D	4.9	1.0	136	HINDU KUSH REGION. Felt (III) at Dushanbe, (II) at Pyandzh, Ishkashim, Garm and Dzhirgatal, USSR. Felt at Peshawar, Pakistan and in Himachal Pradesh, India.
	08	01	35	35.0*	33.124	S	71.668	W	10	G		1.2	16	NEAR COAST OF CENTRAL CHILE
	08	01	54	16.4	14.367	N	93.099	W	33	N	4.8	1.0	62	NEAR COAST OF CHIAPAS, MEXICO
	08	02	14	29.7?	6.81	S	132.58	E	33	N		1.5	6	TANIMBAR ISLANDS REGION
	08	02	41	04.8?	33.13	N	141.43	E	102	*	4.5	0.7	13	OFF EAST COAST OF HONSHU, JAPAN
	08	03	04	03.0&	60.262	N	153.594	W	171				47	SOUTHERN ALASKA. <AGS-P>.
	08	03	35	01.5	5.995	N	125.304	E	125		5.2	1.1	49	MINDANAO, PHILIPPINE ISLANDS
	08	04	25	07.1*	33.138	S	71.819	W	10	G		0.7	14	NEAR COAST OF CENTRAL CHILE
	08	05	30	54.6*	13.622	N	93.414	W	33	N	3.7	1.1	8	OFF COAST OF CHIAPAS, MEXICO

	08	07	00	47.7*	36.617	N	28.205	E	116	*			1.1	12	DODECANESE ISLANDS
	08	07	18	29.5*	33.024	S	72.507	W	31				1.0	19	OFF COAST OF CENTRAL CHILE
	08	09	17	34.6	33.173	S	71.702	W	10	G			1.0	16	NEAR COAST OF CENTRAL CHILE
	08	09	36	33.0%	46.070	N	27.396	E	33	N			1.3	9	ROMANIA
	08	10	19	27.4?	18.97	N	108.32	W	10	G	4.7		1.2	26	REVILLA GIGEDO ISLANDS REGION
a	08	10	33	20.6	19.563	N	108.464	W	10	G	5.4	5.6	1.1	146	REVILLA GIGEDO ISLANDS REGION. Ms 5.6 (BRK).
	08	11	16	47.0*	19.475	N	108.736	W	10	G	4.2		1.3	17	REVILLA GIGEDO ISLANDS REGION
	08	11	49	55.5*	33.157	S	71.913	W	10	G			1.1	14	NEAR COAST OF CENTRAL CHILE
	08	12	10	36.4	71.124	N	6.169	W	10	G	4.3		1.2	34	JAN MAYEN ISLAND REGION
	08	13	25	27.8	46.048	N	27.441	E	27				1.4	23	ROMANIA
	08	13	38	32.7*	11.052	S	163.407	E	33	N	4.9		1.4	28	SOLOMON ISLANDS
	08	13	47	43.2?	0.19	S	98.45	E	33	N	3.9		1.0	11	SOUTHERN SUMATERA
	08	13	49	05.3	11.081	S	163.363	E	51	*	5.0		1.2	32	SOLOMON ISLANDS
	08	14	30	43.4*	44.437	N	113.992	W	5	G			0.9	9	EASTERN IDAHO. ML 3.3 (NEIS), 3.3 (BUT).
	08	15	00	03.1?	18.88	N	108.36	W	10	G	4.6		0.9	11	REVILLA GIGEDO ISLANDS REGION
	08	16	43	52.9?	38.97	N	29.56	E	10	G			0.8	5	TURKEY
	08	16	50	18.1*	0.668	S	98.041	E	33	N	3.8		1.2	12	SOUTHERN SUMATERA
	08	17	01	51.4*	30.507	S	72.311	W	57	?			1.0	18	OFF COAST OF CENTRAL CHILE
	08	17	02	36.0*	36.111	N	53.779	E	33	*	4.7		1.4	14	IRAN
	08	18	26	40.4*	5.144	N	125.591	E	80	?	4.6		1.5	10	MINDANAO, PHILIPPINE ISLANDS
	08	18	29	00.7?	5.15	N	125.95	E	64	?	4.6		0.5	7	MINDANAO, PHILIPPINE ISLANDS
	08	18	48	29.7	5.327	N	126.599	E	71	*	4.8		1.0	38	MINDANAO, PHILIPPINE ISLANDS
a	08	19	37	35.0*	59.732	S	149.798	E	10	G	5.4	6.1	1.3	39	WEST OF MACQUARIE ISLAND
	08	19	58	40.8%	60.717	N	5.539	E	10	G			0.5	5	SOUTHERN NORWAY. DUR 2.0 (BER).
	08	20	03	32.3	5.287	S	153.001	E	27	*	5.1		1.2	38	NEW IRELAND REGION
	08	20	11	47.7*	24.550	N	121.998	E	10	G			0.5	6	TAIWAN
	08	20	33	31.5*	46.045	N	14.645	E	10	G			1.1	5	YUGOSLAVIA. DUR 2.1 (TRI), ML 1.7 (KBA). Felt (IV) at Litija.
	08	20	48	07.7?	32.39	S	70.00	W	10	G			0.5	5	MENDOZA PROVINCE, ARGENTINA
	08	22	36	47.8*	44.573	N	9.705	E	10	G			1.3	11	NORTHERN ITALY. ML 2.7 (LDG).
	09	02	15	48.5	44.553	N	9.761	E	10	G	3.8		1.0	28	NORTHERN ITALY. ML 3.5 (LDG), 3.3 (TRI).
	09	02	39	38.0*	26.846	N	128.941	E	33	N	4.9		0.3	6	RYUKYU ISLANDS
	09	02	47	23.2?	13.84	N	92.51	W	33	N	3.3		0.7	8	OFF COAST OF CHIAPAS, MEXICO
	09	02	48	32.9*	4.422	S	152.896	E	45	*	4.8		1.1	16	NEW BRITAIN REGION
	09	02	58	44.9	8.258	S	158.485	E	88	D	4.1		0.8	11	SOLOMON ISLANDS
	09	03	31	12.1*	20.151	S	168.632	E	18	*	4.5		1.2	30	LOYALTY ISLANDS
	09	04	08	26.8?	39.51	N	26.50	E	10	G			1.4	6	TURKEY
	09	04	09	44.9*	9.296	S	124.223	E	33	N	5.1		1.5	10	TIMOR
	09	04	57	54.9	39.386	N	28.331	E	10	G			0.9	9	TURKEY
	09	05	11	57.5*	31.853	S	68.574	W	33	N			1.3	6	SAN JUAN PROVINCE, ARGENTINA
	09	07	15	33.5?	10.71	S	128.29	E	119	?	4.0		1.5	7	TIMOR SEA
	09	07	33	15.7	32.931	S	72.197	W	33	N	4.4		1.3	33	OFF COAST OF CENTRAL CHILE
	09	07	36	50.3*	32.867	S	71.980	W	45	*	4.8		1.0	26	NEAR COAST OF CENTRAL CHILE. Felt (II) at Santiago.
	09	07	44	50.2*	32.9B3	S	72.580	W	26				0.9	12	OFF COAST OF CENTRAL CHILE
	09	07	57	21.1?	33.00	S	72.20	W	10	G			0.6	9	OFF COAST OF CENTRAL CHILE
	09	08	11	14.9?	33.00	S	72.10	W	10	G			0.2	9	OFF COAST OF CENTRAL CHILE
	09	08	32	04.8*	33.131	S	71.777	W	10	G			0.9	12	NEAR COAST OF CENTRAL CHILE
	09	08	41	00.6?	32.80	S	72.64	W	33	N			0.6	6	OFF COAST OF CENTRAL CHILE
	09	09	33	27.2	46.329	N	7.445	E	10	G			0.4	11	SWITZERLAND. ML 2.9 (LDG).
	09	09	37	15.8&	31.950	N	115.850	W	6	G				3	BAJA CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
	09	11	08	48.8*	19.679	S	178.112	W	610	*	4.6		1.1	16	FIJI ISLANDS REGION
	09	11	10	29.4	28.223	S	176.749	W	33	N	4.7		1.1	12	KERMADEC ISLANDS REGION
	09	11	54	35.8%	31.903	S	68.292	W	10	G			0.6	5	SAN JUAN PROVINCE, ARGENTINA
	09	13	01	50.1?	59.34	N	6.74	E	10	G			1.0	5	SOUTHERN NORWAY. DUR 2.4 (BER).
a	09	13	26	57.9	8.503	S	110.306	E	59	D	5.5		1.1	168	JAVA. Felt (II) at Yagyakarta.
	09	14	08	10.9?	26.16	N	110.06	W	10	G	3.9		1.4	10	GULF OF CALIFORNIA
	09	15	06	47.4*	39.125	N	27.590	E	10	G			0.4	5	TURKEY
	09	16	37	04.6?	7.40	S	128.04	E	142	?			1.0	9	BANDA SEA
	09	18	40	36.9*	33.620	S	71.741	W	10	G			0.3	11	NEAR COAST OF CENTRAL CHILE
	09	18	47	44.4*	24.547	N	122.130	E	10	G			0.3	6	TAIWAN REGION
	09	19	48	42.4&	37.208	N	121.450	W	5	G				11	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).
	09	21	54	27.7	17.458	S	72.888	W	37	*	5.1	4.3	1.2	36	NEAR COAST OF PERU
	09	23	09	49.5*	46.585	N	12.708	E	10	G			0.6	6	NORTHERN ITALY. ML 2.4 (KBA).
	10	01	09	17.3	43.343	N	31.892	E	33	N	3.8		1.0	40	BLACK SEA
	10	03	24	15.9*	38.341	N	70.175	E	33	N	4.5		1.5	7	AFGHANISTAN-USSR BORDER REGION. Felt (III) at Garm, USSR.
	10	03	58	33.7?	59.43	N	6.60	E	10	G			0.6	5	SOUTHERN NORWAY. DUR 2.5 (BER).
a	10	05	06	33.3	38.605	S	91.623	W	10	G	5.3	5.7	1.4	77	WEST CHILE RISE
	10	05	50	20.0	17.583	S	72.980	W	31	D	5.0		1.4	57	NEAR COAST OF PERU
	10	10	11	39.5*	5.272	N	124.769	E	380	*	3.9		1.0	7	MINDANAO, PHILIPPINE ISLANDS
	10	12	05	54.8%	39.168	N	27.917	E	10	G			0.4	6	TURKEY
	10	12	08	45.9	2.629	S	138.700	E	33	N	5.1	4.4	1.1	57	WEST IRIAN
	10	13	14	04.3	17.783	N	119.999	E	33	N	4.4		1.4	31	PHILIPPINE ISLANDS REGION
	10	13	52	43.8%	44.612	N	9.862	E	10	G			1.2	11	NORTHERN ITALY. ML 2.9 (LDG).
	10	13	53	28.8	44.592	N	9.757	E	10	G			0.9	21	NORTHERN ITALY. ML 3.7 (LDG).
	10	14	47	07.9*	43.269	N	24.817	E	10	G			1.5	5	BULGARIA
	10	14	55	54.3*	51.183	N	177.962	E	33	N	4.8		1.1	21	RAT ISLANDS, ALEUTIAN ISLANDS. ML 4.1 (PMR).
	10	15	03	34.1*	59.783	S	28.400	W	33	N	4.8		0.5	7	SOUTH SANDWICH ISLANDS REGION
	10	16	24	25.8?	18.64	N	108.19	W	10	G	3.9		1.4	10	REVILLA GIGEOO ISLANDS REGION
a	10	16	33	28.8	23.623	S	178.826	E	559	D	5.1		0.9	164	SOUTH OF FIJI ISLANDS
	10	17	06	20.0	24.199	N	121.745	E	35		4.8	4.1	1.1	30	TAIWAN
	10	17	23	25.8	27.762	S	66.727	W	167		4.8		1.2	55	CATAMARCA PROVINCE, ARGENTINA
	10	18	16	01.7%	46.623	N	0.203	W	10	G			1.2	7	FRANCE. ML 2.5 (LDG).
	10	19	00	53.7*	11.361	S	166.408	E	33	N	4.9		1.1	9	SANTA CRUZ ISLANDS
	10	20	20	33.2&	60.141	N	152.526	W	88					42	SOUTHERN ALASKA. <AGS-P>.
	10	20	48	27.7	6.868	N	73.163	W	162		4.8		1.2	25	NORTHERN COLOMBIA
	10	21	57	09.0?	17.42	S	175.69	W	231	?	4.7		1.1	12	TONGA ISLANDS
	10	22	16	31.1*	3B.126	N	72.260	E	33	N	4.2		1.3	11	TAJIK SSR
	10	22	22	17.5%	31.742	S	69.144	W	33	N			0.8	7	SAN JUAN PROVINCE, ARGENTINA
	10	23	04	53.3*	17.699	N	101.019	W	33	N			0.9	8	NEAR COAST OF GUERRERO, MEXICO
	10	23	07	16.5*	4.274	S	152.839	E	41	*	5.0		1.2	20	NEW BRITAIN REGION
	11	01	20	04.7*	12.905	S	74.034	W	87	?	4.5		1.2	18	PERU
	11	02	10	43.2?	34.21	S	71.82	W	33	N			1.2	16	NEAR COAST OF CENTRAL CHILE

	11	02	43	33.6&	36.050	N	117.720	W	2				6	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.1 (PAS).
	11	03	14	27.5	8.221	S	121.066	E	212 *	5.0		1.2	42	FLORES ISLAND REGION
	11	03	17	17.2?	59.39	N	6.61	E	5 G			0.6	5	SOUTHERN NORWAY. DUR 2.6 (BER).
	11	04	27	33.2*	24.420	S	67.340	W	205 *			0.7	9	CHILE-ARGENTINA BORDER REGION
	11	04	39	10.7	40.704	N	139.258	E	33 N	4.7		0.9	28	NEAR WEST COAST OF HONSHU, JAPAN
	11	05	41	51.3*	1.999	N	122.735	E	452 *	4.8		1.0	11	MINAHASSA PENINSULA
	11	06	06	50.2*	33.247	S	68.625	W	10 G			0.7	6	MENDOZA PROVINCE, ARGENTINA
	11	06	15	25.5%	16.912	N	100.115	W	10 G			0.6	7	NEAR COAST OF GUERRERO, MEXICO
	11	08	47	56.5%	31.490	S	68.561	W	33 N			0.6	5	SAN JUAN PROVINCE, ARGENTINA
	11	09	32	55.4*	4.706	S	152.450	E	10 G	3.9		1.4	5	NEW BRITAIN REGION
	11	11	03	23.0?	33.69	S	71.82	W	33 N			0.4	8	NEAR COAST OF CENTRAL CHILE
	11	11	23	40.3	4.539	S	152.827	E	61 *	4.7		1.2	26	NEW BRITAIN REGION
	11	12	56	47.9?	59.19	N	6.88	E	10 G			0.9	5	SOUTHERN NORWAY. DUR 2.1 (BER).
	11	13	53	11.5	51.809	N	171.279	W	33 N	4.6		0.9	51	FOX ISLANDS, ALEUTIAN ISLANDS
	11	14	07	56.1	7.665	S	129.9B4	E	33 N	4.7		1.3	25	BANDA SEA
	11	14	58	18.1	35.902	N	140.277	E	54	4.6		1.3	18	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Mito ond (I JMA) at Tokyo, Yokohamo, Choshi ond Utsunomiyo.
	11	15	02	17.3*	35.927	N	140.212	E	33 N			0.3	6	NEAR EAST COAST OF HONSHU, JAPAN
	11	15	12	17.2*	35.932	N	140.233	E	33 N			0.5	6	NEAR EAST COAST OF HONSHU, JAPAN
	11	16	47	58.2?	31.28	S	179.98	W	483 ?	4.3		1.1	8	KERMADEC ISLANDS REGION
	11	17	15	51.8?	33.85	S	72.43	W	33 N			0.4	9	OFF COAST OF CENTRAL CHILE
o	11	17	49	41.2	56.632	S	25.306	W	33 N	5.1	4.7	0.7	44	SOUTH SANDWICH ISLANDS REGION
	11	18	57	21.1*	44.354	N	6.927	E	10 G			0.7	5	FRANCE. ML 2.4 (LDG).
	11	19	12	05.5	9.255	S	118.225	E	97 *	5.0		1.4	48	SUMBAWA ISLAND REGION
	11	19	17	12.8&	37.357	N	121.740	W	6				15	CENTRAL CALIFORNIA. <BRK>. ML 2.9 (BRK). This is a double event with second event, ML 2.7 in coda 14.9 seconds later. (BRK).
	11	19	57	13.9*	51.243	N	15.632	E	5 G			1.2	10	POLAND. ML 3.5 (KBA).
o	11	20	31	13.0	32.981	S	72.114	W	29 D	5.2	4.9	1.3	79	OFF COAST OF CENTRAL CHILE. Felt (IV) at Valparaiso ond (III) at Santiago.
	11	21	02	12.7*	33.026	S	72.424	W	33 N	3.5		1.3	15	OFF COAST OF CENTRAL CHILE
	11	21	31	10.6%	40.753	N	28.694	E	10 G			0.1	6	TURKEY
	11	22	09	36.9&	59.952	N	152.679	W	7B				34	SOUTHERN ALASKA. <AGS-P>.
	11	22	22	13.1?	33.15	S	71.76	W	33 N			1.3	12	NEAR COAST OF CENTRAL CHILE
	11	23	13	54.0*	3.915	S	103.806	W	10 G	4.5		1.3	25	NORTHERN EASTER I. CORDILLERA
	11	23	25	07.9%	40.763	N	28.696	E	10 G			1.0	8	TURKEY
	12	00	03	06.3?	36.36	N	140.35	E	33 N			0.5	5	NEAR EAST COAST OF HONSHU, JAPAN
	12	00	47	22.3&	35.985	N	120.593	W	1				13	CENTRAL CALIFORNIA. <BRK>. ML 3.1 (BRK).
	12	01	09	55.6%	40.899	N	28.155	E	10 G			0.6	10	TURKEY
	12	03	52	47.0*	53.466	N	164.946	W	33 N	4.7		1.5	15	UNIMAK ISLAND REGION. ML 4.5 (PMR).
	12	04	15	47.5?	53.06	N	159.67	E	33 N	4.5		1.2	19	NEAR EAST COAST OF KAMCHATKA
	12	04	47	00.7*	55.338	S	32.720	W	10 G	4.9		0.9	19	SOUTH GEORGIA ISLAND REGION
	12	04	51	15.3	31.679	N	82.370	E	33 N	4.7		1.2	27	TIBET
	12	05	09	12.4%	43.124	N	4.408	E	6 G			1.3	7	NEAR SOUTH COAST OF FRANCE. ML 2.5 (LDG).
	12	05	45	09.8*	31.367	N	82.234	E	33 N	4.4		1.5	10	TIBET
	12	06	11	48.5	5.692	S	101.721	E	33 N	5.2	5.1	1.2	52	SOUTHWEST OF SUMATERA
	12	06	27	31.9%	40.071	N	29.346	E	10 G			0.4	7	TURKEY
	12	08	49	52.9*	9.676	S	114.840	E	115 ?	4.8		1.2	8	SOUTH OF BALI ISLAND
	12	09	17	52.1*	3.926	S	130.760	E	33 N	3.5		1.1	12	CERAM
	12	09	55	52.5*	24.763	N	125.335	E	54	4.5		1.0	21	SOUTHWESTERN RYUKYU ISLANDS. Felt (III JMA) on Miyoko-jima.
	12	11	02	53.7?	59.40	N	6.67	E	5 G			1.0	5	SOUTHERN NORWAY. DUR 2.1 (BER).
	12	11	47	33.6*	5.091	S	151.943	E	33 N	3.6		1.0	5	NEW BRITAIN REGION
	12	11	56	38.8*	37.738	N	72.217	E	33 N	4.5		1.3	9	TAJIK SSR
	12	12	02	19.3?	17.29	S	179.27	W	552 *	4.2		1.0	14	FIJI ISLANDS REGION
	12	12	04	23.1	18.198	S	168.202	E	37	4.8	4.4	1.1	52	VANUATU ISLANDS
	12	12	32	14.5?	43.19	N	126.96	W	10 G	3.9		1.0	9	OFF COAST OF OREGON
	12	12	46	52.3	18.204	S	168.018	E	38 *	4.7	4.7	1.4	67	VANUATU ISLANDS
	12	14	05	54.0	18.131	S	168.082	E	45 *	4.3		1.1	35	VANUATU ISLANDS
	12	15	10	09.0	40.729	N	27.429	E	10 G			0.9	8	TURKEY
	12	15	33	09.4*	50.040	N	7.330	E	10 G			1.6	8	GERMANY. ML 3.1 (LDG), mbLg 2.4 (DOU).
	12	16	14	16.8*	33.540	S	72.363	W	33 N	4.5		1.1	18	OFF COAST OF CENTRAL CHILE
	12	17	28	27.2	31.697	S	67.580	W	10 G			0.6	7	SAN JUAN PROVINCE, ARGENTINA
	12	18	20	28.7&	35.192	N	85.145	W	10				13	TENNESSEE. <TEIC>. DUR 3.0 (TEIC). Felt ot Hixson ond ot the Sequoyah Nuclear Plont.
	12	19	04	05.3?	35.83	S	179.09	E	99 ?			1.3	8	OFF E. COAST OF N. ISLAND, N.Z.
	12	19	04	28.2*	20.816	S	178.507	W	584 *	4.9		1.3	33	FIJI ISLANDS REGION
	12	20	06	09.5	31.969	S	68.227	W	10 G			1.2	7	SAN JUAN PROVINCE, ARGENTINA
	12	20	25	36.8?	5.48	S	146.69	E	236 *	4.5		0.5	6	EAST PAPUA NEW GUINEA REGION
	12	21	12	37.8	17.330	S	167.919	E	31 *	4.5		1.1	26	VANUATU ISLANDS
	12	22	12	52.3	42.600	N	141.400	E	130	4.8		1.0	82	HOKKAIDO, JAPAN REGION. Felt (I JMA) at Urokawo, Hokkoido ond Hachinohe, Honshu.
	12	22	50	19.2*	9.382	S	112.922	E	81 *	5.0		1.3	34	SOUTH OF JAVA
	12	23	59	53.0*	1.194	N	126.006	E	33 N	4.7		1.3	14	MOLUCCA PASSAGE
	13	00	07	05.9%	18.350	N	101.685	W	33 N			0.3	5	GUERRERO, MEXICO
	13	01	02	58.8	26.532	S	177.506	W	123 *	4.5		1.0	24	SOUTH OF FIJI ISLANDS
	13	01	49	48.3?	13.18	N	88.99	W	33 N	4.0		1.6	8	EL SALVADOR
	13	04	16	43.0?	20.25	S	170.57	E	64 ?	4.3		1.6	10	VANUATU ISLANDS
	13	08	10	11.4	41.009	N	139.644	E	35 *	4.7	4.5	0.9	38	HOKKAIDO, JAPAN REGION. Felt (III JMA) ot Fukoura and (I JMA) at Aomori and Mutsu, Honshu.
	13	10	49	37.0*	20.217	S	173.991	E	33 N	4.6		1.4	17	VANUATU ISLANDS REGION
	13	11	22	08.5&	38.822	N	122.820	W	2				14	NORTHERN CALIFORNIA. <BRK>. ML 2.9 (BRK).
	13	11	38	00.4%	47.262	N	25.035	E	10 G			1.0	7	ROMANIA
	13	11	40	07.7*	33.911	S	56.089	E	10 G	5.0		1.0	20	ATLANTIC-INDIAN RISE
	13	12	35	57.4&	36.342	N	120.952	W	5 G				18	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
	13	13	17	13.8*	4.534	S	152.808	E	33 N	4.5		1.3	8	NEW BRITAIN REGION
	13	13	28	33.7%	60.229	N	5.377	E	10 G			0.3	5	SOUTHERN NORWAY. DUR 1.6 (BER).
	13	13	39	01.5&	61.452	N	151.251	W	64				35	SOUTHERN ALASKA. <AGS-P>.
	13	14	59	58.9*	4.386	S	152.855	E	33 N	4.3		1.1	8	NEW BRITAIN REGION
	13	16	18	47.6?	35.26	S	178.33	E	232 *	3.9		1.4	11	OFF E. COAST OF N. ISLAND, N.Z.
	13	16	38	33.4	9.132	S	123.934	E	109 *	4.8		1.3	26	TIMOR
	13	16	54	57.9%	45.543	N	6.626	E	10 G			1.4	5	FRANCE. ML 2.7 (LDG).
	13	17	29	21.7*	23.900	N	122.369	E	33 N	4.0		0.9	7	TAIWAN REGION

	13	17	33	09.3*	6.465	N	126.629	E	33	N	4.2		0.5	11	MINDANAO, PHILIPPINE ISLANDS
	13	18	24	43.6?	23.08	S	67.11	W	171	?			1.6	6	CHILE-ARGENTINA BORDER REGION
	13	18	36	08.7&	40.062	N	124.417	W	5	G				6	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.3 (BRK).
a	13	18	54	11.9	25.854	N	45.041	W	10	G	5.1	5.0	1.1	139	NORTH ATLANTIC RIDGE. Ms 5.6 (BRK).
	13	19	00	17.3*	25.899	N	44.967	W	10	G	4.7		0.6	10	NORTH ATLANTIC RIDGE
	13	19	06	59.3?	25.96	N	45.00	W	10	G	4.5		0.8	6	NORTH ATLANTIC RIDGE
a	13	19	09	17.0	25.901	N	45.103	W	10	G	5.0	5.1	0.9	141	NORTH ATLANTIC RIDGE
	13	19	39	11.2*	26.019	N	44.409	W	10	G	4.6		1.3	12	NORTH ATLANTIC RIDGE
	13	20	39	07.1*	45.580	N	14.197	E	10	G			1.4	5	YUGOSLAVIA. ML 2.1 (KBA), DUR 2.1 (TRI).
	13	21	59	10.1*	0.401	N	123.474	E	256	?	4.3		1.0	15	MINAHASSA PENINSULA
	13	22	22	40.2%	38.721	N	30.528	E	10	G			1.1	8	TURKEY
	13	23	50	07.2?	34.87	S	68.59	W	33	N			1.8	5	MENDOZA PROVINCE, ARGENTINA
	14	00	33	01.6%	38.696	N	27.832	E	10	G			1.1	8	TURKEY
	14	00	37	18.0*	16.379	N	98.613	W	33	N	3.9		1.5	9	NEAR COAST OF GUERRERO, MEXICO
	14	00	49	54.2%	41.502	N	27.265	E	10	G			1.5	10	TURKEY
	14	00	49	55.6?	41.62	N	27.02	E	10	G			0.4	5	TURKEY
	14	03	23	56.0*	21.130	S	67.007	W	33	N			0.5	5	CHILE-BOLIVIA BORDER REGION
	14	04	17	31.4	0.379	S	122.934	E	96	*	5.3		1.0	31	MINAHASSA PENINSULA
	14	05	43	00.6	19.708	S	66.836	W	33	N			0.5	5	SOUTHERN BOLIVIA
	14	05	49	17.4*	15.212	S	174.864	W	278	*	4.7		1.4	76	TONGA ISLANDS
	14	06	26	13.1*	25.061	S	71.107	W	33	N			1.7	11	OFF COAST OF NORTHERN CHILE
	14	06	37	08.1*	33.378	S	71.916	W	33	N			0.9	14	NEAR COAST OF CENTRAL CHILE
	14	07	11	40.4*	52.714	N	172.037	E	33	N	4.6		1.1	15	NEAR ISLANDS, ALEUTIAN ISLANDS
	14	07	48	47.2*	22.323	S	68.781	W	127	*	4.2		1.7	10	NORTHERN CHILE
	14	08	26	34.4*	45.692	N	26.566	E	92	?			0.7	9	ROMANIA
	14	10	04	33.4	38.902	N	25.699	E	33	N			1.3	17	AEGEAN SEA. ML 3.5 (ATH).
	14	10	09	35.5*	10.142	S	161.465	E	103	*	4.2		1.1	12	SOLOMON ISLANDS
	14	11	51	26.2	4.899	N	82.607	W	10	G	4.9	4.3	1.2	75	SOUTH OF PANAMA
	14	12	33	55.7?	10.53	N	83.08	W	33	N	4.7		1.4	10	COSTA RICA
	14	13	14	39.9%	34.109	S	70.341	W	33	N			0.8	8	CHILE-ARGENTINA BORDER REGION
	14	14	46	19.7*	1.938	N	128.679	E	93	?	4.2		1.3	11	HALMAHERA
	14	15	04	53.5*	40.583	N	23.947	E	10	G			1.3	8	GREECE
	14	15	09	52.6	35.900	N	26.255	E	112		4.6		1.0	97	CRETE
	14	18	20	22.7	33.297	S	72.418	W	33	N	4.9	4.9	1.2	47	OFF COAST OF CENTRAL CHILE
	14	19	07	15.5*	65.613	N	151.443	W	10	G			1.2	9	ALASKA. ML 4.3 (PMR).
	14	19	40	49.3	33.480	S	72.338	W	33	N			0.9	16	OFF COAST OF CENTRAL CHILE
a	14	19	54	46.5	4.163	S	152.560	E	10	G	5.1	4.7	1.3	77	NEW BRITAIN REGION. Felt (III) at Rabaul.
	14	21	15	41.5?	20.43	S	173.45	W	33	N	4.4		1.6	24	TONGA ISLANDS
	14	21	43	26.7*	20.386	N	115.564	W	10	G	3.7	3.3	0.7	19	EAST CENTRAL PACIFIC OCEAN
	14	22	21	48.4	35.783	N	140.127	E	80		4.6		0.7	25	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Takyo, Tateyama, Kumagayo and Ajira.
	14	23	37	55.7*	32.778	S	71.648	W	14				0.9	14	NEAR COAST OF CENTRAL CHILE
	14	23	40	16.4*	32.837	S	71.541	W	33	N			1.1	15	NEAR COAST OF CENTRAL CHILE
	15	00	33	33.6	0.434	S	19.670	W	10	G	4.8		0.9	65	CENTRAL MID-ATLANTIC RIDGE
	15	00	40	18.8&	31.950	N	115.890	W	6	G				6	BAJA CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
	15	02	55	10.0	43.669	N	5.605	E	10	G			0.4	8	NEAR SOUTH COAST OF FRANCE. ML 2.9 (LDG).
	15	05	27	33.9*	51.168	N	178.806	E	33	N	5.2		1.1	16	RAT ISLANDS, ALEUTIAN ISLANDS
	15	05	32	56.7	53.889	N	161.517	E	33	N	4.8	4.2	0.8	69	OFF EAST COAST OF KAMCHATKA
	15	07	47	43.4*	7.027	N	73.469	W	33	N			0.9	6	NORTHERN COLOMBIA
	15	07	53	16.0	36.440	N	70.633	E	190	*	4.7		1.1	27	HINDU KUSH REGION
	15	08	21	32.9%	40.332	N	27.427	E	10	G			0.5	7	TURKEY
	15	08	26	07.9*	28.602	S	71.653	W	33	N			1.2	17	NEAR COAST OF CENTRAL CHILE
	15	08	52	59.4	25.245	N	123.324	E	193		4.7		0.5	17	NORTHEAST OF TAIWAN
	15	08	59	38.7&	37.262	N	121.662	W	5	G				18	CENTRAL CALIFORNIA. <BRK>. ML 3.7 (BRK). Ma=4.7*10**21 (BRK). Felt at Evergreen and in the eastern and southern parts of San Jose.
	15	10	38	50.1	19.238	N	97.308	E	33	N	5.0	4.3	1.1	116	BURMA
	15	11	20	34.5?	35.16	N	1.41	W	10	G			0.8	6	ALGERIA
	15	12	37	32.4	63.111	N	150.813	W	128	*			0.7	15	CENTRAL ALASKA. Felt (III) at Anchorage.
	15	15	54	30.7	17.495	N	121.353	E	147		5.0		1.3	98	LUZON, PHILIPPINE ISLANDS. Felt (II RF) at Baguio and Santa.
	15	16	38	50.6	36.387	N	71.109	E	261	*	4.1		1.0	31	AFGHANISTAN-USSR BORDER REGION
	15	19	44	24.5*	33.315	S	67.238	W	213	?			0.4	7	MENDOZA PROVINCE, ARGENTINA
	15	20	05	54.1%	40.813	N	28.025	E	10	G			0.6	5	TURKEY
	15	20	45	25.2*	54.819	N	167.814	E	33	N	4.7		1.0	24	KOMANDORSKY ISLANDS REGION
	15	22	24	21.1?	12.45	N	87.06	W	33	N	4.3	3.7	1.0	10	NEAR COAST OF NICARAGUA
	15	23	54	57.7?	38.65	S	71.97	W	33	N			0.8	15	S. CHILE-ARGENTINA BORDER REGION
	16	00	02	27.7?	25.52	N	108.23	W	10	G	4.3		1.3	6	GULF OF CALIFORNIA
	16	02	35	17.0?	36.26	N	138.68	E	33	N			1.9	5	HONSHU, JAPAN
	16	03	11	45.5?	34.73	S	70.63	W	33	N			1.2	8	CHILE-ARGENTINA BORDER REGION
	16	03	16	52.4	42.246	N	82.311	E	22	D	4.9		0.8	63	NORTHERN XINJIANG, CHINA
	16	03	21	54.9?	23.65	N	121.73	E	33	N			1.2	5	TAIWAN
	16	04	39	15.2*	37.214	N	70.464	E	33	N	4.5		0.7	8	AFGHANISTAN-USSR BORDER REGION
	16	04	41	12.3%	33.728	S	71.268	W	33	N			0.3	8	NEAR COAST OF CENTRAL CHILE
	16	05	10	44.5?	57.26	N	2.22	E	10	G			0.3	10	NORTH SEA. ML 2.4 (ELO).
	16	05	33	48.3	50.897	N	5.386	E	10	G			0.9	34	BELGIUM. mbLg 3.2 (DOU). ML 3.5 (LDG), 3.3 (BNS), 3.1 (BGG), 2.9 (KOE). Felt in Limburg and Liege Provinces. Felt (IV) at Maastricht, Netherlands.
	16	06	18	06.0&	35.051	N	106.555	W	5	G				1	NEW MEXICO. <GLD>. DUR 1.6 (GLD). Felt in the northern part of Albuquerque.
	16	06	33	48.1?	59.40	N	6.62	E	5	G			0.9	5	SOUTHERN NORWAY. DUR 2.3 (BER).
	16	06	40	56.7&	61.133	N	152.293	W	6					36	SOUTHERN ALASKA. <AGS-P>.
	16	06	57	25.7%	31.381	S	68.998	W	128	?			0.2	6	SAN JUAN PROVINCE, ARGENTINA
	16	06	58	46.0	17.070	N	94.230	W	33	N	3.7		1.0	9	CHIAPAS, MEXICO
	16	07	13	43.6?	19.38	S	177.76	W	446	?	4.6		1.1	18	FIJI ISLANDS REGION
	16	07	37	17.5*	37.109	N	22.708	E	10	G	4.4		1.5	7	SOUTHERN GREECE. ML 3.4 (ATH).
	16	08	43	41.2*	41.235	N	24.958	E	10	G			1.3	5	GREECE-BULGARIA BORDER REGION
	16	09	02	00.8%	40.589	N	29.222	E	10	G			0.2	5	TURKEY
	16	10	13	08.5?	10.13	S	161.32	E	109	?	4.5		0.8	8	SOLOMON ISLANDS
	16	10	19	35.9	33.426	S	68.234	W	33	N			0.9	13	MENDOZA PROVINCE, ARGENTINA
	16	11	08	09.2?	19.30	S	178.37	W	577	*	4.3		1.0	21	FIJI ISLANDS REGION
	16	12	21	09.5?	35.78	N	139.65	E	144	?			0.6	7	NEAR S. COAST OF HONSHU, JAPAN
	16	13	10	39.5*	37.532	N	23.130	E	10	G			0.9	5	SOUTHERN GREECE. ML 3.3 (ATH).

	16	13 44 58.9	38.834	N	24.951	E	11		3.6		0.8	48	AEGEAN SEA. ML 3.3 (ATH).
	16	14 58 53.5	52.000	N	174.202	E	33	N	4.8		1.0	25	NEAR ISLANDS, ALEUTIAN ISLANDS. ML 4.3 (PMR).
	16	16 26 01.9*	28.414	S	67.486	W	165	?			0.6	9	LA RIOJA PROVINCE, ARGENTINA
	16	17 01 24.9	30.938	S	71.350	W	68		4.6		1.2	44	NEAR COAST OF CENTRAL CHILE. Felt (V) at Andacolla.
	16	17 33 07.0?	59.42	N	6.65	E	5	G			0.6	5	SOUTHERN NORWAY
	16	17 57 50.9&	34.540	N	116.840	W	0		5.2			13	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.9 (PAS).
	16	18 13 47.1?	53.87	N	164.51	W	33	N	4.5		0.9	19	UNIMAK ISLAND REGION
	16	18 21 41.4%	33.277	S	70.713	W	33	N			1.5	9	CHILE-ARGENTINA BORDER REGION
	16	18 43 07.3*	44.034	N	114.723	W	5	G			1.0	7	WESTERN IDAHO. ML 3.0 (NEIS).
	16	19 13 29.6?	44.04	N	114.33	W	5	G			1.1	6	WESTERN IDAHO. ML 2.8 (NEIS).
	16	20 20 36.4*	31.282	S	68.081	W	33	N			1.2	7	SAN JUAN PROVINCE, ARGENTINA
	16	21 56 40.1&	40.343	N	125.083	W	5	G				8	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.4 (BRK).
	16	22 55 18.1?	4.86	S	101.22	E	33	N	4.5		1.7	7	SOUTHERN SUMATERA
	16	23 06 40.3&	31.970	N	115.840	W	6	G				4	BAJA CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
	16	23 51 43.3?	30.96	S	69.77	W	155	?			0.9	7	CHILE-ARGENTINA BORDER REGION
	17	00 01 53.7	45.076	N	114.354	W	5	G			0.6	9	WESTERN IDAHO. ML 3.4 (NEIS), 3.5 (BUT).
	17	00 16 55.0	45.046	N	114.349	W	5	G			0.5	11	WESTERN IDAHO. ML 3.6 (NEIS), 3.6 (BUT).
	17	03 11 19.7	28.841	S	66.966	W	33	N			1.3	13	CATAMARCA PROVINCE, ARGENTINA. Felt in La Rioja Province.
	17	03 20 23.1*	12.636	N	86.889	W	33	N	5.0		1.4	17	NICARAGUA. Felt (III) at Managua.
	17	05 33 40.2*	15.253	N	92.380	W	173	*	4.8		1.5	24	MEXICO-GUATEMALA BORDER REGION
	17	06 15 30.9*	36.705	N	70.158	E	191	?	4.9		1.0	8	HINDU KUSH REGION
	17	06 23 18.9&	35.164	N	106.542	W	5	G				1	NEW MEXICO. <GLD>. DUR 1.9 (GLD). Felt in the northern part of Albuquerque.
	17	06 32 30.1	45.694	N	26.499	E	167				1.2	25	ROMANIA
a	17	08 09 30.1	4.251	S	152.877	E	41		5.6	5.6	1.0	222	NEW BRITAIN REGION. Felt (VI) at Rabaul.
	17	10 10 32.2*	33.037	S	69.677	W	33	N			0.6	7	CHILE-ARGENTINA BORDER REGION
	17	11 21 38.6%	39.084	N	27.638	E	10	G			0.3	5	TURKEY
	17	12 13 24.9	51.991	N	160.186	E	33	N	5.1	4.7	0.9	96	OFF EAST COAST OF KAMCHATKA
	17	13 37 26.3	32.826	S	71.947	W	33	N	4.5		1.2	32	NEAR COAST OF CENTRAL CHILE. Felt (II) at Santiago.
a	17	13 53 00.1	32.760	S	71.718	W	33	N	5.4	4.8	1.4	95	NEAR COAST OF CENTRAL CHILE. Felt (V) at Volparaisa and Vina del Mar, (IV) at Santiago. Alsa felt (III) at Mendoza, Argentina.
	17	14 03 17.1	33.172	S	71.785	W	33	N			1.5	28	NEAR COAST OF CENTRAL CHILE. Felt (II) at Santiago.
	17	15 47 47.8?	20.53	S	174.39	W	33	N	4.7		1.8	9	TONGA ISLANDS
	17	15 51 24.3?	32.79	S	72.62	W	33	N			1.7	13	OFF COAST OF CENTRAL CHILE
	17	17 16 03.2*	6.001	S	154.425	E	33	N	5.1		1.5	14	SOLOMON ISLANDS
a	17	19 31 30.1	51.620	N	172.919	W	33	N	5.5	5.9	0.9	249	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.4 (PMR), Ms 5.7 (BRK). Felt (III) on Atka.
	17	19 53 09.9&	61.113	N	150.072	W	47					40	SOUTHERN ALASKA. <AGS-P>.
	17	20 31 15.1	52.186	N	159.054	E	33	N	5.4	5.2	0.8	161	OFF EAST COAST OF KAMCHATKA
	17	20 49 15.4*	32.718	S	70.528	W	33	N			1.1	5	CHILE-ARGENTINA BORDER REGION
	17	21 32 56.2&	60.310	N	152.722	W	108					24	SOUTHERN ALASKA. <AGS-P>.
	17	22 07 33.1	32.957	S	68.107	W	10	G			1.2	13	MENDOZA PROVINCE, ARGENTINA. Felt (II) at Mendaza.
	17	23 04 47.7	33.071	S	71.938	W	33	N	5.1		1.3	46	NEAR COAST OF CENTRAL CHILE. Felt (II) at Santiago. Alsa felt (II) at Mendaza, Argentina.
	17	23 10 00.5*	4.450	S	152.807	E	33	N	4.4		1.8	7	NEW BRITAIN REGION
	18	00 17 28.6%	61.178	N	5.033	E	5	G			1.2	5	SOUTHERN NORWAY. DUR 2.2 (BER).
a	18	00 25 25.7*	37.161	S	78.244	E	10	G	5.3	5.7	1.3	44	MID-INDIAN RISE
	18	00 26 04.6*	32.953	S	72.276	W	33	N			1.5	12	OFF COAST OF CENTRAL CHILE
	18	01 04 56.3?	32.79	S	72.44	W	33	N			0.7	8	OFF COAST OF CENTRAL CHILE
	18	01 30 17.8	48.991	N	128.713	W	10	G	4.4	4.3	1.3	36	VANCOUVER ISLAND REGION
	18	02 37 28.3*	18.339	N	92.008	W	285	?	4.3		0.7	6	GULF OF CAMPECHE
	18	02 55 23.6?	34.06	S	71.71	W	33	N			1.4	10	NEAR COAST OF CENTRAL CHILE
	18	04 28 36.2*	4.514	S	152.833	E	33	N	4.2		1.4	8	NEW BRITAIN REGION
	18	05 47 03.0	36.481	N	70.781	E	180		5.0		0.9	107	HINDU KUSH REGION
	18	06 34 05.1	47.644	N	7.172	E	10	G			1.2	17	SWITZERLAND. ML 3.4 (GRF), 3.3 (LDG), 3.0 (KBA).
	18	06 54 55.1*	7.230	S	148.034	E	33	N	4.2		1.3	5	EAST PAPUA NEW GUINEA REGION
	18	07 14 06.9?	55.38	S	28.21	W	33	N	4.6		1.4	10	SOUTH SANDWICH ISLANDS REGION
	18	07 26 45.8	0.682	S	16.161	W	10	G	4.8	4.7	0.9	43	NORTH OF ASCENSION ISLAND
	18	07 33 11.1?	1.22	S	16.59	W	10	G	4.5		0.8	19	NORTH OF ASCENSION ISLAND
	18	09 15 52.1	39.569	N	27.553	E	10	G			1.2	20	TURKEY
	18	10 43 04.0?	33.46	S	71.58	W	33	N			1.2	7	NEAR COAST OF CENTRAL CHILE
	18	11 27 08.0?	33.13	S	71.27	W	33	N			1.8	7	NEAR COAST OF CENTRAL CHILE
	18	14 05 25.7&	34.420	N	116.540	W	6					20	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.2 (PAS), 4.5 (BRK). Felt (III) at Fawnskin, Landers and Yucca Valley. Alsa felt at San Bernardina.
	18	16 47 40.0&	40.397	N	124.022	W	5	G				4	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.1 (BRK).
	18	16 48 54.6?	19.82	S	177.50	W	474	?	4.9		1.0	29	FIJI ISLANDS REGION
	18	17 25 33.7&	59.901	N	153.233	W	115					39	SOUTHERN ALASKA. <AGS-P>.
	18	17 40 13.1	30.338	N	94.759	E	33	N	4.9		1.0	58	TIBET
	18	17 49 30.8	39.392	N	23.160	E	10	G			0.8	8	AEGEAN SEA. ML 3.0 (ATH).
	18	19 09 07.9	39.673	N	142.192	E	33	N	4.6		1.2	20	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Miyaka, (II JMA) at Ofunata and (I JMA) at Mariaka and Hachinahe.
	18	21 14 57.4	65.970	N	40.863	E	0	G	5.0		1.1	150	EUROPEAN USSR
	18	21 19 23.6*	0.097	N	16.741	W	10	G	4.8		0.9	40	NORTH OF ASCENSION ISLAND
	18	21 30 26.5%	46.173	N	9.169	E	10	G			1.6	6	SWITZERLAND
	18	22 35 52.8	0.220	N	16.795	W	10	G	5.0	4.5	0.9	86	NORTH OF ASCENSION ISLAND
	18	23 42 57.8	37.489	N	29.202	E	10	G			0.7	8	TURKEY
	19	00 06 04.7*	36.368	N	70.226	E	33	N	4.3		1.4	13	HINDU KUSH REGION
	19	00 26 08.4	39.870	N	13.577	E	449		4.9		1.0	155	TYRRHENIAN SEA
	19	00 45 59.8*	33.438	N	140.917	E	61	*	5.2		0.8	22	SOUTH OF HONSHU, JAPAN. Felt (II JMA) an Hachijo-jima.
	19	02 01 24.9*	36.926	N	4.034	E	10	G	4.0		0.8	26	ALGERIA
	19	02 22 36.3	23.435	S	67.770	W	143	*	4.4		1.3	24	CHILE-ARGENTINA BORDER REGION
	19	02 38 09.4*	30.364	N	94.839	E	33	N	4.7		0.9	25	TIBET
	19	04 36 02.0?	42.71	N	21.58	E	10	G			1.0	6	YUGOSLAVIA
	19	05 25 13.5*	4.455	S	105.165	W	10	G	4.7	4.8	1.0	50	NORTHERN EASTER I. CORDILLERA
	19	06 38 48.9?	44.57	N	147.30	E	33	N	4.5		1.0	13	KURIL ISLANDS
	19	08 30 44.6*	66.066	N	150.170	W	10	G			1.1	6	ALASKA. ML 3.7 (PMR).
	19	09 00 18.3*	42.104	N	20.967	E	10	G			0.5	9	YUGOSLAVIA
	19	09 00 53.1%	40.800	N	28.136	E	10	G			1.2	7	TURKEY
	19	09 16 09.4*	42.804	N	12.546	E	10	G			1.4	10	CENTRAL ITALY. ML 3.5 (TRI).

	19	10	18	27.9	10.789	S	117.283	E	33	N	5.0 3.8	1.4	21	SOUTH OF SUMBAWA ISLAND
	19	11	37	28.8	14.265	N	92.090	W	33	N	4.8 4.1	1.1	83	NEAR COAST OF CHIAPAS, MEXICO
	19	12	13	14.7*	19.788	N	146.643	E	33	N	5.0 5.3	1.2	20	MARIANA ISLANDS REGION
	19	12	47	57.4	52.625	N	173.212	W	121	D	4.5	1.0	43	ANDREANOF ISLANDS, ALEUTIAN IS.
	19	12	52	38.8	44.011	N	114.833	W	5	G		0.5	12	WESTERN IDAHO. ML 3.5 (NEIS), 3.6 (BUT).
	19	13	40	38.2*	10.724	S	41.052	E	10	G	4.7	1.3	19	NORTHWEST OF MADAGASCAR
a	19	14	34	01.2	38.778	S	176.973	E	52		5.7 5.8	1.3	121	NORTH ISLAND, NEW ZEALAND. Slight damage on North Island. Felt at Gisborne and Wellington and in the Bay of Plenty area.
	19	15	49	14.7&	38.818	N	122.780	W	1				8	NORTHERN CALIFORNIA. <BRK>. ML 2.9 (BRK).
	19	16	20	54.1*	41.618	N	22.297	E	10	G		1.1	5	YUGOSLAVIA
	19	17	23	41.1*	64.863	N	21.038	W	10	G	4.3	1.3	17	ICELAND
	19	17	57	26.9*	44.569	N	9.777	E	10	G		0.7	12	NORTHERN ITALY. ML 2.9 (LDG).
	19	19	05	52.9*	44.685	N	110.126	W	5	G		0.5	8	YELLOWSTONE NATIONAL PARK, WYO. ML 3.0 (NEIS).
	19	19	09	15.2	51.459	N	172.744	W	33	N	4.9	0.9	82	ANDREANOF ISLANDS, ALEUTIAN IS.
	19	20	16	40.4	10.162	N	126.071	E	67	*	5.0	1.4	49	PHILIPPINE ISLANDS REGION. Felt (I RF) at Cagayan de Oro.
	19	21	31	51.6?	33.47	S	71.61	W	33	N		1.4	11	NEAR COAST OF CENTRAL CHILE
	19	22	23	11.5*	24.928	S	176.186	W	33	N	4.9	0.8	9	SOUTH OF FIJI ISLANDS
	19	23	06	11.3*	32.168	S	68.868	W	33	N		0.4	7	MENDOZA PROVINCE, ARGENTINA
	19	23	33	27.6*	42.189	N	141.993	E	33	N	4.6	1.7	14	HOKKAIDO, JAPAN REGION. Felt (I JMA) at Urakawa.
	20	00	15	21.7	30.288	N	94.833	E	33	N	4.6	0.9	29	TIBET
	20	00	34	34.5%	55.206	N	3.341	W	10	G		0.3	12	UNITED KINGDOM. ML 2.1 (EDI).
	20	00	53	14.5	49.951	N	78.829	E	0	G	5.9 4.3	0.9	317	EASTERN KAZAKH SSR
	20	01	22	03.1*	33.445	S	72.660	W	33	N	4.6	1.6	23	OFF COAST OF CENTRAL CHILE. Felt (III) at Santiago.
	20	01	41	54.0%	40.485	N	22.573	E	10	G		0.2	7	GREECE
	20	01	50	11.5*	44.515	N	9.514	E	10	G		1.2	9	NORTHERN ITALY. ML 2.7 (LDG).
	20	02	52	29.6?	17.86	S	178.57	W	623	*	4.3	0.7	10	FIJI ISLANDS REGION
	20	04	00	04.5?	58.41	N	162.85	E	33	N	4.9	1.3	10	KAMCHATKA
	20	04	55	17.2*	7.267	S	155.366	E	33	N	4.4	1.4	6	SOLOMON ISLANDS
	20	05	42	26.1*	7.269	S	157.048	E	33	N	4.2	0.7	6	SOLOMON ISLANDS
	20	06	35	39.9*	32.963	S	71.525	W	33	N		1.1	12	NEAR COAST OF CENTRAL CHILE
	20	07	07	34.5	19.736	N	146.720	E	33	N	4.8	1.2	49	MARIANA ISLANDS REGION
	20	07	34	47.0*	46.835	N	2.326	W	10	G		0.7	15	BAY OF BISCAY. ML 3.3 (LDG).
	20	09	10	52.4?	31.83	S	69.71	W	33	N		1.0	6	SAN JUAN PROVINCE, ARGENTINA
	20	09	43	30.6?	30.55	S	175.98	W	33	N	4.9	1.1	9	KERMADEC ISLANDS REGION
	20	11	01	51.1	19.746	N	146.767	E	33	N	4.7	1.0	28	MARIANA ISLANDS REGION
	20	11	46	09.1*	33.483	S	71.599	W	33	N		1.3	12	NEAR COAST OF CENTRAL CHILE
	20	12	48	08.1?	17.66	S	178.76	W	561	*	4.6	0.8	20	FIJI ISLANDS REGION
	20	12	49	06.1	41.959	N	26.302	E	5	G		1.5	7	GREECE-BULGARIA BORDER REGION
	20	13	12	05.4	12.565	N	48.261	E	10	G	4.8 4.8	1.5	56	EASTERN GULF OF ADEN
	20	13	46	06.7	3.506	S	144.980	E	33	N	4.8	1.4	34	NEAR N COAST OF PAPUA NEW GUINEA
	20	13	57	23.8?	4.48	S	150.38	E	33	N	4.2	1.5	6	NEW BRITAIN REGION
	20	14	02	35.7&	60.744	N	150.459	W	50				38	KENAI PENINSULA, ALASKA. <AGS-P>.
	20	14	21	14.4%	33.117	S	72.288	W	33	N		0.5	10	OFF COAST OF CENTRAL CHILE
	20	16	04	29.0&	61.579	N	151.039	W	70				35	SOUTHERN ALASKA. <AGS-P>.
	20	16	35	52.1*	2.091	N	128.843	E	65	?	4.4	1.5	9	HALMAHERA
	20	17	33	22.4	44.482	N	114.097	W	5	G		0.8	14	WESTERN IDAHO. ML 3.5 (NEIS).
	20	17	54	44.2	23.920	S	66.720	W	211		4.5	1.2	37	JUJUY PROVINCE, ARGENTINA
	20	18	31	45.5	30.347	N	94.718	E	33	N	4.6	1.3	29	TIBET
	20	18	47	37.0*	4.975	N	125.121	E	325	*	4.8	1.3	37	TALAUD ISLANDS
	20	19	11	16.5?	37.97	S	178.18	E	33	N	5.0	1.5	10	OFF E. COAST OF N. ISLAND, N.Z.
	20	20	44	48.7?	33.99	S	71.21	W	33	N		0.7	5	NEAR COAST OF CENTRAL CHILE
	20	23	34	17.5%	39.215	N	27.736	E	10	G		1.6	8	TURKEY
	21	00	12	01.3&	60.172	N	153.181	W	131				39	SOUTHERN ALASKA. <AGS-P>.
	21	00	20	09.5*	34.975	S	70.297	W	33	N		0.7	11	CHILE-ARGENTINA BORDER REGION
	21	01	41	55.5*	40.559	N	22.575	E	10	G		0.8	5	GREECE
	21	02	45	09.1*	22.613	S	172.021	E	33	N		1.0	6	LOYALTY ISLANDS REGION
	21	03	40	02.3*	29.993	N	94.226	E	33	N		0.6	6	INDIA-CHINA BORDER REGION
	21	03	40	47.5*	17.547	N	95.276	W	33	N		0.9	5	OAXACA, MEXICO
	21	03	49	23.7?	30.19	S	69.17	W	178	?		1.4	7	CHILE-ARGENTINA BORDER REGION
	21	03	56	29.9%	46.401	N	2.745	E	10	G		0.5	7	FRANCE. ML 1.7 (LDG).
	21	04	12	01.5*	5.688	S	150.516	E	86	*	4.4	1.0	8	NEW BRITAIN REGION
	21	05	54	46.5	10.317	S	164.899	E	33	N	5.0	1.2	52	SANTA CRUZ ISLANDS REGION
	21	06	06	55.7	31.548	S	68.708	W	112			1.0	20	SAN JUAN PROVINCE, ARGENTINA
	21	06	16	46.9	44.564	N	9.647	E	24			1.4	27	NORTHERN ITALY. ML 3.6 (LDG).
	21	06	31	56.2*	37.533	N	71.686	E	33	N	4.6	1.4	11	AFGHANISTAN-USSR BORDER REGION
	21	06	55	37.1*	0.145	N	13.861	W	10	G	4.4 4.5	1.0	14	NORTH OF ASCENSION ISLAND
	21	09	02	32.5	44.608	N	9.633	E	9			0.7	21	NORTHERN ITALY. ML 3.4 (LDG).
	21	09	04	27.2	44.624	N	9.645	E	11			0.8	23	NORTHERN ITALY. ML 3.6 (LDG).
	21	10	08	44.8*	6.332	S	148.924	E	33	N	3.9	1.0	8	NEW BRITAIN REGION
	21	10	58	36.3&	60.661	N	152.144	W	84				38	SOUTHERN ALASKA. <AGS-P>.
	21	11	57	42.2?	12.05	S	119.40	E	33	N	3.8	1.0	5	SOUTH OF SUMBA ISLAND
	21	12	00	55.3%	26.899	S	119.246	E	33	N		0.7	5	WESTERN AUSTRALIA
	21	12	14	38.9*	33.154	N	139.568	E	32			1.1	11	SOUTH OF HONSHU, JAPAN. Felt (II JMA) on Hachijo-jima.
	21	12	15	05.1*	33.099	N	140.364	E	100	*		0.7	11	SOUTH OF HONSHU, JAPAN. Felt (III JMA) on Hachijo-jima.
	21	12	45	59.3*	24.588	N	121.828	E	10	G		1.1	5	TAIWAN
	21	12	58	31.8*	9.670	S	118.457	E	33	N	4.3	1.1	6	SUMBAWA ISLAND REGION
	21	13	05	27.4?	20.27	S	179.10	W	590	?	4.4	1.0	7	FIJI ISLANDS REGION
a	21	13	10	35.0	19.045	N	67.973	W	35		5.7 5.3	1.0	265	MONA PASSAGE. Felt on Puerto Rico and in the Dominican Republic.
	21	13	33	29.7%	41.189	N	28.515	E	10	G		0.2	6	TURKEY
	21	14	04	19.3*	20.166	S	179.134	W	677	*	4.8	0.7	15	FIJI ISLANDS REGION
	21	14	30	02.0	53.825	N	35.253	W	10	G	4.9 4.7	1.0	60	NORTH ATLANTIC OCEAN
	21	16	09	22.3?	17.67	N	145.36	E	236	?	4.6	0.5	10	MARIANA ISLANDS
	21	16	21	30.3*	33.067	N	140.169	E	33	N		1.4	8	SOUTH OF HONSHU, JAPAN. Felt (I JMA) on Hachijo-jima.
	21	16	36	14.4?	22.56	S	170.20	E	33	N	4.2	1.6	11	LOYALTY ISLANDS REGION
	21	16	37	38.4?	39.13	N	23.98	E	10	G		1.0	11	AEGEAN SEA
	21	18	39	23.9*	36.922	N	71.676	E	33	N	4.2	0.7	7	AFGHANISTAN-USSR BORDER REGION
	21	18	53	30.6	10.061	S	161.054	E	99		5.1	0.5	25	SOLOMON ISLANDS
	21	18	55	42.8?	44.57	N	9.82	E	10	G		0.7	7	NORTHERN ITALY. ML 2.7 (LDG).
	21	20	33	48.0	39.269	N	73.034	E	33	N	4.8 4.0	1.1	62	TAJIK-XINJIANG BORDER REGION
	21	20	52	23.1	19.389	N	108.667	W	10	G	5.0	1.1	85	REVILLA GIGEDO ISLANDS REGION

	21	22 45 32.0*	20.672	S	170.596	E	33	N	4.7		1.2	16	VANUATU ISLANDS
	21	23 24 48.9*	19.733	S	175.908	W	195	*	4.5		1.4	20	TONGA ISLANDS
	21	23 42 08.9	36.895	N	30.572	E	105	?			1.1	16	TURKEY
	21	23 59 06.1	3.518	N	82.860	W	10	G	4.6	4.2	1.1	21	SOUTH OF PANAMA
	22	01 24 28.0&	59.449	N	152.479	W	73					36	SOUTHERN ALASKA. <AGS-P>.
	22	01 28 52.9?	33.75	S	72.75	W	33	N			0.4	8	OFF COAST OF CENTRAL CHILE
	22	01 45 33.5*	25.720	S	70.817	W	118	?			1.5	12	NEAR COAST OF NORTHERN CHILE
	22	02 30 57.3	36.069	N	139.854	E	33	N			0.5	7	HONSHU, JAPAN
	22	02 32 25.9*	33.180	S	71.372	W	33	N			0.5	10	NEAR COAST OF CENTRAL CHILE
	22	03 16 28.9*	15.070	S	174.268	W	33	N	4.8		1.1	25	TONGA ISLANDS
	22	04 33 51.2?	31.25	S	68.34	W	120	?			0.5	8	SAN JUAN PROVINCE, ARGENTINA
	22	07 08 05.3&	60.764	N	151.890	W	79					39	KENAI PENINSULA, ALASKA. <AGS-P>.
	22	08 16 49.7*	50.618	N	129.629	W	10	G	4.2		1.1	9	VANCOUVER ISLAND REGION
	22	08 33 19.4?	59.28	N	6.91	E	10	G			1.7	5	SOUTHERN NORWAY. DUR 2.4 (BER).
	22	08 47 14.6&	37.868	N	122.675	W	6	G				9	CENTRAL CALIFORNIA. <BRK>. ML 2.7 (BRK). Mo=4.4*10**20 (BRK). Felt at Fairfax, Larkspur, Mill Valley, Mt. Tamalpais, San Anselmo, San Geranimo and San Rafael.
	22	09 04 34.5*	24.189	N	120.744	E	10	G			0.6	6	TAIWAN
a	22	09 06 13.1	6.312	S	148.830	E	50		5.1	5.3	1.2	74	NEW BRITAIN REGION
	22	09 18 35.7&	58.482	N	154.806	W	104					47	ALASKA PENINSULA. <AGS-P>.
f	22	09 26 53.8	6.291	S	148.783	E	49		5.8	6.9	1.1	252	NEW BRITAIN REGION
	22	09 45 58.2	6.415	S	148.838	E	73	*	5.1		1.1	15	NEW BRITAIN REGION
	22	09 51 34.8	6.578	S	148.712	E	33	N	5.3		1.1	33	NEW BRITAIN REGION
	22	10 12 27.3	6.525	S	148.829	E	37		5.3		1.2	74	NEW BRITAIN REGION
	22	10 37 06.6*	24.112	N	121.696	E	22	*			0.5	6	TAIWAN
	22	10 55 44.0*	6.622	S	148.723	E	68	?	3.9		0.9	6	NEW BRITAIN REGION
	22	11 25 25.7	6.398	S	148.837	E	42		5.1	5.6	0.9	42	NEW BRITAIN REGION
	22	11 49 51.0?	24.95	N	122.31	E	105	*	3.8		0.4	8	TAIWAN REGION
	22	11 53 26.9*	12.992	N	119.674	E	33	N	4.9		1.4	9	PHILIPPINE ISLANDS REGION
	22	12 18 45.6*	6.516	S	148.867	E	33	N	3.8		0.7	6	NEW BRITAIN REGION
	22	12 23 18.8%	40.626	N	27.616	E	10	G			0.5	6	TURKEY
	22	13 09 14.6*	33.963	S	72.022	W	33	N			1.0	16	OFF COAST OF CENTRAL CHILE
	22	15 38 47.3*	6.639	S	148.914	E	34	*			1.4	14	NEW BRITAIN REGION
	22	15 57 07.3	6.494	S	148.735	E	51		4.7		0.9	20	NEW BRITAIN REGION
	22	16 42 55.4?	1.11	N	127.04	E	33	N	4.6		0.4	9	HALMAHERA
	22	16 45 01.1*	24.032	S	66.998	W	194		4.5		1.4	21	SALTA PROVINCE, ARGENTINA
	22	18 48 06.4*	40.076	N	121.269	W	5	G			0.8	6	NORTHERN CALIFORNIA. ML 2.8 (BRK).
	22	19 20 04.5	41.921	N	142.560	E	68		4.8		1.1	37	HOKKAIDO, JAPAN REGION. Felt (II JMA) at Urakawa. Also felt at Obihira.
	22	20 38 05.3*	30.861	S	70.883	W	121	?			1.2	17	CHILE-ARGENTINA BORDER REGION
a	22	21 32 28.8	34.384	N	28.307	E	23		5.4	4.1	1.2	228	EASTERN MEDITERRANEAN SEA. ML 5.3 (ATH). Felt in the Cairo, Egypt area. Also felt on Cyprus.
	22	22 07 13.0%	23.259	N	120.426	E	10	G			0.5	6	TAIWAN
	22	22 16 28.9&	36.587	N	121.222	W	6					16	CENTRAL CALIFORNIA. <BRK>. ML 2.9 (BRK).
	23	00 40 42.7&	36.592	N	121.230	W	6	G				13	CENTRAL CALIFORNIA. <BRK>. ML 2.7 (BRK).
	23	02 30 29.1%	23.151	N	121.413	E	10	G			0.0	5	TAIWAN
	23	03 18 13.1?	19.80	S	179.34	W	652	*	4.2		0.8	23	FIJI ISLANDS REGION
a	23	03 23 17.0	8.573	S	110.618	E	88		5.4		1.3	99	JAVA
	23	04 47 29.2	27.913	S	67.341	W	156		4.6		1.1	35	CATAMARCA PROVINCE, ARGENTINA
	23	05 16 33.1*	9.822	S	75.227	W	33	N	4.4		1.3	15	PERU
	23	07 52 23.1&	36.590	N	121.230	W	6					13	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
	23	09 47 52.6	19.336	S	126.843	E	33	N	4.7		1.5	16	WESTERN AUSTRALIA
	23	10 36 23.2%	39.817	N	30.564	E	10	G			1.0	11	TURKEY
	23	11 04 01.8?	17.11	S	178.81	W	568	*	4.4		0.6	10	FIJI ISLANDS REGION
	23	11 59 44.2*	15.326	S	167.553	E	157	*	4.2		1.3	25	VANUATU ISLANDS
	23	15 06 31.0%	37.758	N	29.203	E	10	G			0.8	5	TURKEY
	23	16 06 13.9*	33.596	S	71.323	W	33	N			0.9	12	NEAR COAST OF CENTRAL CHILE
	23	16 41 00.7?	60.73	N	5.59	E	10	G			0.7	5	SOUTHERN NORWAY
	23	17 19 09.6%	59.397	N	6.762	E	10	G			0.9	5	SOUTHERN NORWAY. DUR 2.6 (BER).
	23	17 30 54.2	6.451	S	146.938	E	94		5.1		1.1	48	EAST PAPUA NEW GUINEA REGION
	23	17 33 19.8?	41.92	N	126.59	W	10	G	4.4	4.2	1.5	10	OFF COAST OF NORTHERN CALIFORNIA
a	23	18 04 16.5	41.850	N	126.865	W	10	G	4.8	5.0	1.0	77	OFF COAST OF NORTHERN CALIFORNIA
	23	19 12 09.2?	61.25	N	8.01	E	10	G			0.9	5	SOUTHERN NORWAY. DUR 2.1 (BER).
	23	19 23 14.8?	46.12	N	15.33	E	10	G			0.3	5	YUGOSLAVIA. DUR 1.9 (TRI).
	23	20 01 58.4?	2.57	N	65.65	E	10	G	4.7		1.7	9	CARLSBERG RIDGE
	23	20 13 19.6*	2.209	N	97.656	E	30	*	3.6		1.7	8	NORTHERN SUMATERA
	23	21 15 10.0%	23.081	N	121.311	E	10	G			0.3	5	TAIWAN
	23	23 31 25.9*	8.228	S	129.092	E	163	?			1.2	9	TIMOR SEA
	23	23 51 42.2	30.347	N	50.587	E	35	*	4.9		1.0	92	IRAN. Felt in the Do Gonbaden area.
	24	00 57 33.1*	34.463	S	70.743	W	33	N			1.4	15	CHILE-ARGENTINA BORDER REGION
	24	04 20 48.8*	7.844	N	74.216	W	98	*			1.6	12	NORTHERN COLOMBIA
	24	05 03 49.2%	40.600	N	27.622	E	10	G			0.4	5	TURKEY
	24	05 55 44.7%	39.043	N	27.797	E	10	G			0.3	5	TURKEY
a	24	07 57 54.4	14.686	N	123.871	E	33	N	5.3	4.8	1.3	67	LUZON, PHILIPPINE ISLANDS. Felt (III RF) at Virac and (II RF) at Daet.
	24	10 07 13.1&	37.722	N	122.520	W	8					12	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK). Mo=4.5*10**19 (BRK). Felt in the western part of San Francisco.
	24	10 21 09.3?	39.86	N	15.60	E	287	*	3.8		1.4	22	SOUTHERN ITALY
	24	10 30 02.7*	6.393	S	127.276	E	33	N	4.0		0.8	5	BANDA SEA
	24	10 51 05.8%	39.352	N	27.729	E	10	G			0.7	9	TURKEY
	24	10 51 45.2?	16.56	N	98.67	W	33	N			0.9	6	NEAR COAST OF GUERRERO, MEXICO
	24	11 03 41.6?	10.60	N	86.70	W	33	N	4.4	3.5	1.5	16	OFF COAST OF COSTA RICA
	24	11 38 04.4	14.637	N	123.886	E	33	N	5.0	4.0	1.2	53	LUZON, PHILIPPINE ISLANDS. Felt (II RF) at Virac and (I RF) at Daet.
	24	12 14 49.9?	44.31	N	9.32	E	10	G			1.4	5	NORTHERN ITALY. ML 2.7 (LDG).
	24	12 49 12.1	39.290	N	27.836	E	10	G			0.9	15	TURKEY
	24	12 54 29.1?	59.42	N	6.64	E	10	G			1.0	5	SOUTHERN NORWAY. DUR 2.4 (BER).
	24	12 56 37.9%	39.318	N	27.731	E	10	G			0.8	6	TURKEY
	24	13 15 02.3%	39.328	N	27.778	E	10	G			0.7	5	TURKEY
	24	13 18 51.7%	39.295	N	27.718	E	10	G			0.2	5	TURKEY
	24	14 02 04.2%	39.283	N	27.783	E	10	G			1.0	13	TURKEY
	24	14 32 58.6%	40.112	N	29.329	E	10	G			0.8	7	TURKEY
a	24	15 08 55.1	5.456	S	147.009	E	196		5.4		0.9	89	EAST PAPUA NEW GUINEA REGION

	24	15 45 44.2&	36.192	N	120.285	W	9				19	CENTRAL CALIFORNIA. <BRK>. ML 3.1 (BRK).
	24	16 57 58.5	35.755	N	45.984	E	62 *	4.6		1.1	37	IRAN-IRAQ BORDER REGION
	24	20 11 48.0*	19.129	S	70.594	W	84 *	4.8		1.3	13	NEAR COAST OF NORTHERN CHILE
	24	21 19 41.2	17.972	N	75.151	W	33 N	4.4		1.0	26	JAMAICA REGION
	24	22 04 05.6	43.028	N	0.863	W	10 G			0.9	9	PYRENEES. ML 2.6 (LDG).
	24	22 18 54.6?	59.50	N	6.72	E	10 G			0.9	5	SOUTHERN NORWAY. DUR 1.9 (BER).
	24	23 15 05.1?	35.51	S	71.29	W	99 *			1.2	17	CENTRAL CHILE
	24	23 56 17.8	8.850	S	76.576	W	33 N	5.0		1.2	69	PERU
	25	00 12 42.0%	39.340	N	27.671	E	10 G			0.4	5	TURKEY
	25	00 24 29.4	33.695	N	134.725	E	44	4.6		0.7	33	SHIKOKU, JAPAN. Felt (III JMA) at Tokushimo. Also felt (III JMA) at Kobe and Wakayomo; (II JMA) at Osako; (I JMA) at Hikone, Gifu, Nagoyo and Tsu, Honshu.
	25	01 38 11.0*	28.570	S	69.849	W	198 ?			0.5	7	CHILE-ARGENTINA BORDER REGION
	25	02 36 10.3?	28.90	N	128.43	E	26 ?	4.7		1.0	7	RYUKYU ISLANDS
	25	03 11 06.5	49.894	N	78.150	E	0 G	5.0		0.8	77	EASTERN KAZAKH SSR
	25	03 38 49.2	11.462	S	117.791	E	33 N	5.3		0.9	11	SOUTH OF SUMBAWA ISLAND
	25	05 16 55.6*	14.950	S	74.241	W	56 ?	4.6		1.1	22	PERU
	25	07 46 38.3	15.175	S	173.660	W	33 N	5.3	5.1	0.9	88	TONGA ISLANDS
	25	08 00 50.5	40.468	N	22.511	E	10 G			0.7	10	GREECE
	25	09 44 18.7*	32.153	S	70.556	W	124 ?	3.7		1.2	9	CHILE-ARGENTINA BORDER REGION
	25	10 16 06.6%	39.350	N	27.742	E	10 G			1.1	7	TURKEY
	25	10 18 44.2%	39.342	N	27.672	E	10 G			0.6	9	TURKEY
	25	10 50 49.2*	15.390	N	104.786	W	33 N	4.4	4.2	1.3	15	OFF COAST OF MICHOACAN, MEXICO
	25	11 42 53.3%	39.328	N	27.727	E	10 G			0.3	5	TURKEY
	25	11 54 54.0?	7.25	S	120.32	E	175 ?	4.0		0.6	5	FLORES SEA
	25	14 00 00.0&	37.297	N	116.438	W	0	5.2			183	SOUTHERN NEVADA. <DOE>. ML 5.1 (BRK). 37° 17' 50.11" N., 116° 26' 17.06" W., Surface Elev. 1969 m., Depth of Burial 597 m., Shot Time 140000.088, "SERENA", Nevada Test Site (Dept. of Energy).
	25	15 34 15.0&	19.729	N	156.365	W	32				28	HAWAII. <HVO-P>. ML 4.1 (HVO).
	25	15 45 13.3	43.168	N	0.582	W	10 G			0.2	8	PYRENEES. ML 2.5 (LDG).
	25	16 46 38.0?	52.85	N	166.72	W	33 N	4.6		0.8	7	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.3 (PMR).
	25	16 53 49.0*	36.655	N	22.206	E	54 ?	3.9		1.1	8	SOUTHERN GREECE. ML 3.5 (ATH).
	25	17 42 17.2*	83.948	N	2.697	W	10 G	4.9		1.3	11	NORTH OF SVALBARD
o	25	17 45 05.3	84.035	N	0.915	W	10 G	4.8	4.7	1.0	101	NORTH OF SVALBARD
	25	17 48 01.9*	83.741	N	1.882	W	10 G	4.5		0.5	16	NORTH OF SVALBARD
	25	18 53 36.0*	2.157	S	119.839	E	58 *	4.3		0.8	8	SULAWESI
	25	18 59 57.4	45.403	N	149.965	E	47 D	5.1	4.3	0.8	100	KURIL ISLANDS
	25	19 55 06.5?	65.49	N	148.51	W	10 G			1.5	6	ALASKA. ML 3.1 (PMR).
	25	20 29 03.6?	20.28	S	178.20	W	656 ?	5.1		0.8	19	FIJI ISLANDS REGION
	25	20 35 18.4%	39.208	N	29.511	E	10 G			1.3	8	TURKEY
o	25	22 03 32.8*	85.214	N	100.309	E	10 G	4.7	4.7	1.2	41	NORTH OF SEVERNAYA ZEMLYA
	25	23 25 10.5	32.790	N	92.579	E	33 N	4.6		1.2	27	TIBET
	26	01 26 04.9*	45.813	N	13.927	E	10 G			0.9	5	NORTHERN ITALY. ML 2.4 (KBA), DUR 1.9 (TRI).
	26	04 20 41.8&	38.793	N	122.795	W	2	3.8			22	NORTHERN CALIFORNIA. <BRK>. ML 3.8 (BRK). Mo=7.3*10**21 (BRK). Felt at Cobb. Second event in the same area about 32 seconds later, ML 3.8 (BRK), Mo=6.1*10**21 (BRK). Second event also felt at Cobb.
	26	04 27 21.2	7.257	S	124.328	E	563	4.9		1.0	31	BANDA SEA
	26	06 02 55.1&	36.188	N	120.237	W	7 G				14	CENTRAL CALIFORNIA. <BRK>. ML 2.9 (BRK).
	26	06 09 53.6	30.367	N	94.726	E	33 N	4.9		0.9	52	TIBET
	26	07 04 27.4	52.776	N	166.620	W	33 N	5.1	4.3	1.0	99	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.5 (PMR).
	26	07 08 59.8	35.783	N	140.023	E	33 N			0.5	5	NEAR EAST COAST OF HONSHU, JAPAN
	26	08 10 36.0?	31.44	S	68.47	W	100 ?			0.2	6	SAN JUAN PROVINCE, ARGENTINA
	26	08 16 22.4	31.555	S	67.888	W	10 G			1.1	17	SAN JUAN PROVINCE, ARGENTINA
	26	08 21 22.1%	38.002	N	27.313	E	10 G			0.7	6	TURKEY
	26	10 08 25.6*	18.099	N	101.841	W	33 N	3.7		1.0	12	GUERRERO, MEXICO
	26	11 29 34.5	4.472	S	152.689	E	34 *	4.4		1.2	27	NEW BRITAIN REGION
o	26	12 18 05.5	11.373	S	166.338	E	33 N	5.8	5.2	1.0	139	SANTA CRUZ ISLANDS
	26	12 27 59.8	14.556	S	167.401	E	185 *	4.6		1.0	35	VANUATU ISLANDS
	26	13 26 17.5	34.611	N	23.570	E	33 N	4.7		1.3	66	CRETE. ML 3.9 (ATH).
	26	13 37 46.0%	39.336	N	27.737	E	10 G			0.7	7	TURKEY
	26	17 31 07.0*	24.473	S	67.194	W	202 *			0.7	7	CHILE-ARGENTINA BORDER REGION
o	26	17 56 58.4	5.378	S	78.653	W	18 *	5.3	4.3	0.9	177	NORTHERN PERU
	26	19 59 24.0	50.302	N	19.236	E	10 G			1.2	10	POLAND
	26	23 50 46.6*	20.673	N	121.131	E	33 N	4.5		1.6	19	PHILIPPINE ISLANDS REGION
	27	00 31 01.6*	33.965	S	70.287	W	116 ?			0.3	13	CHILE-ARGENTINA BORDER REGION
	27	01 17 32.3&	60.723	N	152.322	W	92				23	SOUTHERN ALASKA. <AGS-P>.
	27	02 11 22.1	40.430	N	23.908	E	10 G			0.9	17	GREECE
	27	02 59 07.7&	60.216	N	152.513	W	99				25	SOUTHERN ALASKA. <AGS-P>.
	27	03 12 13.3*	33.079	N	46.358	E	58 *	4.6		1.3	19	IRAN-IRAQ BORDER REGION
	27	04 20 50.2*	64.887	N	19.582	W	10 G	4.0		0.3	14	ICELAND
	27	05 29 59.2*	15.406	S	167.568	E	150 *	4.2		1.1	8	VANUATU ISLANDS
	27	05 46 35.6&	61.054	N	151.419	W	69				31	SOUTHERN ALASKA. <AGS-P>.
	27	06 42 14.6?	33.64	S	72.03	W	33 N			0.5	9	OFF COAST OF CENTRAL CHILE
	27	07 18 50.4*	62.118	S	46.695	E	10 G	4.8	4.8	1.3	20	SOUTH INDIAN OCEAN
	27	07 30 36.7	30.298	N	94.767	E	33 N	4.9		1.0	46	TIBET
o	27	07 38 23.2	26.533	S	84.955	E	10 G	5.3		0.9	25	SOUTH INDIAN OCEAN
	27	08 54 06.8?	12.75	N	140.21	E	33 N	3.6		1.2	7	WEST CAROLINE ISLANDS
	27	09 50 50.8*	32.858	N	139.991	E	149	4.6		0.7	26	SOUTH OF HONSHU, JAPAN
	27	11 30 29.5*	22.055	N	121.580	E	101 *	4.2		1.4	11	TAIWAN REGION
	27	12 33 49.5%	39.306	N	27.745	E	10 G			0.5	10	TURKEY
	27	13 12 06.1%	39.118	N	27.646	E	10 G			0.8	5	TURKEY
	27	13 54 35.3?	2.28	S	102.28	E	181 ?	4.1		0.4	6	SOUTHERN SUMATERA
	27	14 13 17.5?	3.96	S	152.69	E	33 N	4.2		1.2	6	NEW IRELAND REGION
	27	14 24 38.5*	4.317	S	152.304	E	33 N	4.3		0.7	5	NEW BRITAIN REGION
	27	15 28 06.7%	60.737	N	5.187	E	10 G			0.4	5	SOUTHERN NORWAY. DUR 1.7 (BER).
a	27	16 26 45.2	27.014	S	113.440	W	10 G	5.4	5.6	1.4	110	EASTER ISLAND REGION. Ms 6.1 (BRK).
	27	17 17 00.9*	24.328	N	125.321	E	49	4.5		0.7	16	SOUTHWESTERN RYUKYU ISLANDS
	27	17 51 48.6?	6.74	S	148.97	E	62 ?	4.8		1.7	5	NEW BRITAIN REGION
	27	18 43 45.7	15.290	S	167.722	E	140 *	4.5		0.9	25	VANUATU ISLANDS
	27	19 02 15.8	4.381	S	152.515	E	113	5.0		1.0	86	NEW BRITAIN REGION
	27	19 22 30.0*	21.788	S	68.311	W	177 *			1.4	11	CHILE-BOLIVIA BORDER REGION

	27	20 24 09.6*	17.606	S	14.262	W	10	G	4.1	4.2	0.8	10	SOUTH ATLANTIC RIDGE
	27	22 40 48.0*	7.448	S	127.726	E	33	N	4.9		1.5	17	BANDA SEA
	27	23 25 33.2%	38.667	N	27.860	E	10	G			0.7	5	TURKEY
	28	00 00 22.0	7.545	S	127.504	E	33	N	5.0		1.4	26	BANDA SEA
	28	00 07 45.0?	22.78	N	142.76	E	111	?	4.6		0.7	10	VOLCANO ISLANDS REGION
	28	00 27 44.2&	59.618	N	152.830	W	84					37	SOUTHERN ALASKA. <AGS-P>.
	28	01 55 58.7?	33.93	S	72.02	W	33	N			0.4	10	OFF COAST OF CENTRAL CHILE
	28	02 44 20.8*	53.026	N	166.720	W	33	N	4.6		0.8	13	FOX ISLANDS, ALEUTIAN ISLANDS
	28	06 13 47.8*	44.305	N	114.147	W	5	G			0.6	9	WESTERN IDAHO. ML 3.1 (NEIS).
	28	06 49 00.8*	45.059	N	14.932	E	10	G			1.0	8	YUGOSLAVIA. ML 3.1 (VKA). Felt (IV) at Senj.
	28	07 39 43.9	32.223	S	122.420	E	33	N	5.3	4.8	1.0	21	WESTERN AUSTRALIA. Felt at Esperance, Kalgoorie, Kimbalda and Norseman.
	28	09 22 22.0?	32.48	S	122.25	E	33	N			0.8	5	WESTERN AUSTRALIA
	28	10 39 27.2*	32.294	S	122.282	E	33	N	4.9		1.2	10	WESTERN AUSTRALIA
	28	10 41 21.6?	38.59	N	21.62	E	10	G			0.5	5	GREECE
	28	10 53 38.6	6.065	S	132.413	E	33	N	5.1		1.3	26	TANIMBAR ISLANDS REGION
	28	11 14 36.7?	35.31	N	140.60	E	33	N			1.1	7	NEAR EAST COAST OF HONSHU, JAPAN
	28	12 25 20.1*	11.860	S	166.629	E	191	?	5.0		0.9	49	SANTA CRUZ ISLANDS
	28	12 33 51.7	39.399	N	27.644	E	10	G			1.0	18	TURKEY
	28	12 44 18.9?	32.24	S	71.67	W	33	N			1.3	13	NEAR COAST OF CENTRAL CHILE
	28	13 19 50.5?	8.41	S	30.20	E	10	G	4.0		0.7	7	LAKE TANGANYIKA REGION
a	28	14 42 09.0	4.985	S	151.968	E	110		5.2		0.9	78	NEW BRITAIN REGION
	28	14 45 38.6	30.364	N	88.804	E	33	N	4.5		0.5	10	TIBET
	28	14 47 31.7?	31.90	S	121.17	E	33	N	4.2		1.3	6	WESTERN AUSTRALIA
	28	15 09 30.4?	35.03	S	72.19	W	33	N			1.0	10	NEAR COAST OF CENTRAL CHILE
	28	16 58 18.3*	19.482	S	172.945	W	33	N	4.8		0.6	13	TONGA ISLANDS REGION
	28	18 05 46.3	37.084	N	141.105	E	64		4.9		0.9	45	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Fukushima and Onahama and (I JMA) at Mita and Utsunamiya.
a	28	19 33 22.1	37.352	N	140.510	E	97		5.3		0.9	245	HONSHU, JAPAN. Felt (III JMA) at Fukushima, Mita, Onahama, Shirakawa and Utsunamiya, (II JMA) at Miyako and Ofunata, and (I JMA) at Hachinohe, Iida, Kumagaya, Takya and Sendai.
	28	19 57 10.1*	36.269	N	139.226	E	33	N			1.4	5	HONSHU, JAPAN
	28	20 30 49.5?	26.22	N	111.83	W	10	G	4.6		1.1	10	GULF OF CALIFORNIA
	28	22 09 40.0%	44.274	N	6.806	E	10	G			0.1	5	FRANCE. ML 2.7 (LDG).
	28	22 47 12.3	10.332	N	93.751	E	33	N	4.7		1.2	42	ANDAMAN ISLANDS REGION
a	28	22 59 54.5	60.241	S	26.883	W	33	N	5.9	6.4	1.3	91	SOUTH SANDWICH ISLANDS REGION
	28	23 05 24.0*	35.455	N	138.967	E	33	N			1.0	8	HONSHU, JAPAN
	28	23 27 06.4?	61.01	S	28.44	W	33	N			1.3	9	SOUTH SANDWICH ISLANDS REGION
	28	23 50 38.7*	60.388	S	26.909	W	33	N	4.7		1.3	24	SOUTH SANDWICH ISLANDS REGION
	29	03 12 41.1*	21.527	N	144.304	E	151	?	4.6		0.9	13	MARIANA ISLANDS REGION
	29	03 56 20.9*	15.303	S	167.372	E	174	*	5.3		1.3	34	VANUATU ISLANDS
a	29	06 32 18.3	56.157	N	164.573	E	36	D	5.2	5.0	0.9	151	KOMANDORSKY ISLANDS REGION
	29	06 52 56.0?	33.35	S	71.79	W	33	N			1.2	14	NEAR COAST OF CENTRAL CHILE
	29	07 35 11.4*	32.247	S	122.270	E	33	N			1.3	10	WESTERN AUSTRALIA
f	29	07 54 44.0	36.190	N	70.896	E	99		6.6		1.0	509	HINDU KUSH REGION. At least 5 people killed, 38 injured and considerable damage and landslides in the Chitral and Swat districts, Pakistan. Damage (VIII) and many people homeless in the Khorog-Ishkashim area, USSR. Damage (VII) in the Dushanbe area, USSR. Extensive damage in the Kurgan-Tyube area, USSR. Felt (VI) in the Kulyab and Termez area, (V) in the Leninabad-Samarkand-Tashkent area and (IV) at Frunze, USSR. Avalanches reported in northern India. Avalanches and landslides reported in southern Tajikistan, USSR. Felt strongly in northeastern Afghanistan, northern Pakistan and much of northern India, including New Delhi.
	29	08 29 08.0	36.261	N	71.151	E	98	*	5.2		1.0	67	AFGHANISTAN-USSR BORDER REGION. Felt (III) at Kharag, USSR.
	29	09 07 21.8*	5.723	S	149.652	E	154	*	4.6		1.3	9	NEW BRITAIN REGION
	29	09 38 26.0&	40.342	N	124.457	W	15					4	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.0 (BRK).
	29	09 52 28.1*	36.364	N	71.123	E	94	?	4.5		1.4	16	AFGHANISTAN-USSR BORDER REGION. Felt (II) at Kharag, USSR.
	29	09 55 47.4*	36.542	N	71.106	E	70	?	4.6		0.8	8	AFGHANISTAN-USSR BORDER REGION
	29	10 00 17.0*	36.479	N	71.037	E	33	N	4.4		1.0	14	AFGHANISTAN-USSR BORDER REGION
	29	10 23 34.1	40.115	N	29.242	E	10				0.8	22	TURKEY
	29	11 14 59.6	36.235	N	71.081	E	83	*	5.0		1.3	69	AFGHANISTAN-USSR BORDER REGION. Felt (II) at Kharag, USSR.
	29	11 30 54.7	36.309	N	71.139	E	86	*	5.1		1.1	90	AFGHANISTAN-USSR BORDER REGION. Felt (III) at Dushanbe, Kharog and Kulyab, USSR.
	29	11 35 53.5	17.675	N	94.628	W	47	D	5.3		1.0	158	CHIAPAS, MEXICO
	29	12 12 08.9*	36.537	N	71.281	E	75	?	4.3		1.3	11	AFGHANISTAN-USSR BORDER REGION
	29	12 42 37.5	36.279	N	71.256	E	87	*	5.1		1.1	105	AFGHANISTAN-USSR BORDER REGION. Felt (III) at Kharag, USSR.
	29	12 54 45.6	44.622	N	10.106	E	10	G			1.1	14	NORTHERN ITALY. ML 3.1 (LDG), 3.0 (KBA).
	29	12 56 23.8	44.609	N	10.114	E	10	G			1.2	28	NORTHERN ITALY. ML 3.8 (KBA), 3.7 (LDG), 3.3 (TRI).
	29	13 55 11.9?	59.35	N	6.95	E	10	G			0.6	5	SOUTHERN NORWAY. DUR 2.5 (BER).
	29	14 00 37.2?	36.40	N	71.10	E	100	?	4.4		1.6	9	AFGHANISTAN-USSR BORDER REGION. Felt (II) at Khorog, USSR.
	29	14 34 08.0?	19.51	S	169.79	E	70	?			1.3	8	VANUATU ISLANDS
	29	14 43 09.5?	29.30	S	68.27	W	10	G			0.6	5	SAN JUAN PROVINCE, ARGENTINA
	29	15 17 41.6*	36.407	N	71.035	E	99	?	4.6		1.3	10	AFGHANISTAN-USSR BORDER REGION
	29	15 58 33.8	36.227	N	71.294	E	79	*	4.9		1.1	76	AFGHANISTAN-USSR BORDER REGION. Felt (II) at Khorog, USSR.
	29	16 09 32.7?	33.38	S	72.05	W	33	N			0.9	12	OFF COAST OF CENTRAL CHILE
	29	18 31 38.2	49.481	N	156.194	E	63	D	4.7		0.7	28	KURIL ISLANDS
	29	18 34 21.3?	36.38	N	71.38	E	89	?	4.4		0.9	10	AFGHANISTAN-USSR BORDER REGION
	29	19 19 23.6*	32.866	S	71.488	W	33	N			1.1	18	NEAR COAST OF CENTRAL CHILE
	29	20 10 24.0?	36.37	N	71.17	E	83	?	4.6		1.4	19	AFGHANISTAN-USSR BORDER REGION
	29	20 50 43.7*	36.855	N	71.531	E	33	N	4.3		1.0	8	AFGHANISTAN-USSR BORDER REGION
	29	20 52 20.4	38.396	N	22.393	E	10		3.8		1.1	29	GREECE. ML 3.8 (ATH).

	29	21	21	08.1?	19.01	N	149.16	E	33	N	4.4		1.0	8	MARIANA ISLANDS REGION
	29	21	57	49.0&	38.797	N	122.775	W	1	G				10	NORTHERN CALIFORNIA. <BRK>. ML 3.1 (BRK).
	29	23	59	56.7*	1.400	N	126.756	E	33	N	4.7		0.9	12	MOLUCCA PASSAGE
	30	00	59	40.0?	33.31	S	72.20	W	33	N			0.4	10	OFF COAST OF CENTRAL CHILE
	30	02	34	42.8&	39.587	N	122.017	W	14	G				17	NORTHERN CALIFORNIA. <BRK>. ML 3.1 (BRK). Felt (V) at Ordbend, (IV) at Glenn and Durham. Felt (III) at Biggs and Richvale. Also felt at Chico and Oroville.
	30	02	49	39.8*	36.267	N	71.109	E	95	*	4.7		1.4	22	AFGHANISTAN-USSR BORDER REGION. Felt (II) at Kharag, USSR.
	30	03	52	57.8&	41.187	N	124.252	W	10	G				3	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.1 (BRK).
	30	05	15	06.6*	36.520	N	71.380	E	80	*	4.6		0.3	10	AFGHANISTAN-USSR BORDER REGION
	30	05	22	55.8	19.303	N	67.710	W	33	N	4.5	4.1	1.1	35	MONA PASSAGE
	30	05	35	37.0?	44.89	N	149.22	E	33	N	4.5		1.5	14	KURIL ISLANDS
	30	06	35	00.8*	43.121	N	21.632	E	10	G			1.6	5	YUGOSLAVIA
	30	07	03	13.6	42.527	N	26.471	E	10	G			1.0	9	BULGARIA
	30	07	35	04.7	5.667	S	147.010	E	44	*	5.0	4.2	1.2	19	EAST PAPUA NEW GUINEA REGION
	30	08	08	26.8*	18.738	S	177.871	W	508	*	4.6		0.9	18	FIJI ISLANDS REGION
	30	08	28	55.3	33.593	N	134.780	E	33	N	4.2		0.9	9	SHIKOKU, JAPAN. Felt (I JMA) at Muratamisaki.
	30	08	32	37.8%	39.350	N	27.733	E	10	G			0.1	5	TURKEY
	30	09	33	53.8*	33.446	S	71.649	W	33	N			1.1	12	NEAR COAST OF CENTRAL CHILE
	30	10	11	32.6	43.311	N	20.980	E	26		4.8		1.1	67	YUGOSLAVIA. Felt in the Mt. Kapaanik area.
	30	10	36	43.3	27.047	S	26.751	E	5	G			1.2	6	REPUBLIC OF SOUTH AFRICA
	30	10	57	21.6&	40.373	N	125.127	W	3		4.4			39	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 4.2 (BRK).
	30	11	13	19.4*	5.273	S	152.954	E	33	N	5.0		1.1	12	NEW BRITAIN REGION
	30	11	13	38.6&	62.132	N	149.606	W	55					39	CENTRAL ALASKA. <AGS-P>.
	30	12	08	53.2*	32.839	S	71.603	W	33	N			0.7	13	NEAR COAST OF CENTRAL CHILE. Felt (II) at Santiago and Valparaiso.
	30	12	21	18.3?	35.27	S	71.28	W	33	N			0.6	12	CENTRAL CHILE. Felt (II) at Santiago.
	30	12	44	32.2?	59.27	N	6.87	E	10	G			1.5	5	SOUTHERN NORWAY. DUR 2.3 (BER).
	30	12	56	20.6	31.104	S	67.816	W	10	G	4.2		0.4	8	SAN JUAN PROVINCE, ARGENTINA
	30	13	42	19.5*	4.366	N	96.532	E	171	*	4.4		1.5	14	NORTHERN SUMATERA
	30	14	16	53.8	36.284	N	71.155	E	97	*	5.0		1.2	89	AFGHANISTAN-USSR BORDER REGION. Felt (III) at Dushanbe and Kharag, USSR. Also felt at Peshawar, Pakistan.
	30	14	17	34.0%	45.466	N	25.006	E	10	G			1.1	5	ROMANIA
	30	14	30	36.3*	22.834	N	120.249	E	26	*	4.1		1.2	11	TAIWAN
	30	15	04	23.8	37.142	N	116.873	W	5	G			0.3	13	SOUTHERN NEVADA. ML 3.2 (NEIS).
	30	16	02	24.1*	21.463	S	178.421	W	481	*	4.5		0.8	12	FIJI ISLANDS REGION
	30	16	18	57.8%	37.910	N	29.156	E	10	G			1.5	7	TURKEY
	30	16	30	16.0*	32.006	S	70.258	W	33	N			0.9	14	CHILE-ARGENTINA BORDER REGION
	30	17	01	43.0&	48.383	N	123.350	W	16					22	VANCOUVER ISLAND REGION. <PGC-P>. ML 3.1 (NEIS). Felt at Victoria, British Columbia.
	30	18	18	35.3	0.621	N	120.076	E	94	?	4.5		0.8	11	MINAHASSA PENINSULA
	30	18	22	19.6?	32.06	S	69.76	W	33	N			0.7	5	MENDOZA PROVINCE, ARGENTINA
	30	18	36	13.9?	33.58	S	72.06	W	33	N			1.1	11	OFF COAST OF CENTRAL CHILE
	30	18	53	15.3	40.370	N	22.772	E	10	G			0.8	14	GREECE
	30	18	54	53.4	17.835	N	120.860	E	14		4.7		1.1	25	LUZON, PHILIPPINE ISLANDS. Felt (III RF) at Pasuquin.
	30	19	10	54.2*	36.281	N	71.441	E	79	?	4.6		0.8	11	AFGHANISTAN-USSR BORDER REGION
	30	20	14	14.7*	38.809	N	74.072	E	33	N	4.2		1.3	9	TAJIK-XINJIANG BORDER REGION
	30	21	08	48.9*	6.655	N	132.772	E	33	N	4.7		0.4	5	WEST CAROLINE ISLANDS
	30	21	36	13.1	43.095	N	0.429	W	10	G			0.2	9	PYRENEES. ML 2.9 (LDG).
	30	21	44	02.8&	61.806	N	149.566	W	47					36	SOUTHERN ALASKA. <AGS-P>.
	30	21	51	35.9	13.297	N	89.160	W	80	*	5.1		1.4	63	EL SALVADOR. Felt (IV) at San Salvador.
	30	21	56	10.5	36.279	N	71.101	E	70	*	4.8		1.1	26	AFGHANISTAN-USSR BORDER REGION. Felt (III) at Kharag, USSR.
	30	23	03	48.0?	33.69	S	72.33	W	33	N			0.5	11	OFF COAST OF CENTRAL CHILE
	31	01	00	11.9	4.884	N	122.770	E	610		5.4		1.0	107	CELEBES SEA
	31	01	04	52.6	4.825	N	122.765	E	613	*	5.4		0.9	61	CELEBES SEA
	31	01	34	36.9?	11.27	N	87.87	W	33	N	4.4		1.1	9	NEAR COAST OF NICARAGUA
	31	01	40	40.8*	36.316	N	71.260	E	69	?	4.5		1.5	17	AFGHANISTAN-USSR BORDER REGION. Felt (II) at Kharag, USSR.
	31	01	54	03.9*	22.939	S	68.613	W	153	*	4.1		1.3	8	NORTHERN CHILE
	31	02	10	11.8%	39.362	N	27.672	E	10	G			0.1	5	TURKEY
	31	03	36	17.3%	39.423	N	27.707	E	10	G			0.7	5	TURKEY
	31	03	52	33.8	2.413	N	128.574	E	241	*	5.0		0.9	23	HALMAHERA
	31	05	21	42.8	5.446	N	126.384	E	89	*	5.2		1.3	59	MINDANAO, PHILIPPINE ISLANDS
	31	06	28	37.9	27.327	N	44.339	W	10	G	4.8	4.5	0.8	79	NORTH ATLANTIC RIDGE
	31	07	04	50.3*	60.887	S	33.159	W	10	G	4.8		0.6	15	SCOTIA SEA
	31	07	18	46.4?	31.29	S	71.82	W	33	N			1.1	15	NEAR COAST OF CENTRAL CHILE
	31	07	29	45.8*	34.743	N	140.628	E	67	*	5.0		1.1	15	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro.
o	31	07	37	54.6	52.404	N	173.487	E	46		5.7	5.0	0.9	257	NEAR ISLANDS, ALEUTIAN ISLANDS. Felt (IV) on Shemya.
	31	09	03	57.9%	40.203	N	27.408	E	10	G			1.0	5	TURKEY
	31	09	05	29.2?	31.42	S	68.41	W	100	?			0.1	5	SAN JUAN PROVINCE, ARGENTINA
	31	10	14	23.6	7.741	N	94.348	E	33	N	4.6	4.9	1.3	18	NICOBAR ISLANDS REGION
	31	10	14	53.6%	31.731	S	117.107	E	33	N			1.1	5	WESTERN AUSTRALIA
	31	10	31	44.7*	36.299	N	71.225	E	57	?	4.5		1.5	14	AFGHANISTAN-USSR BORDER REGION
	31	11	53	33.6*	36.294	N	71.102	E	33	N			0.6	8	AFGHANISTAN-USSR BORDER REGION
	31	12	09	34.9	40.554	N	27.660	E	10	G			0.5	8	TURKEY
	31	13	16	30.4	42.050	N	24.464	E	10	G			1.1	7	BULGARIA
	31	13	20	57.6%	40.243	N	27.426	E	10	G			0.8	5	TURKEY
	31	14	07	57.4*	65.723	N	149.980	W	10	G			1.3	8	ALASKA. ML 3.6 (PMR).
	31	15	17	01.3?	35.59	N	22.99	E	10	G			0.9	5	MEDITERRANEAN SEA. ML 3.5 (ATH).
	31	15	36	37.2&	60.209	N	152.605	W	96					30	SOUTHERN ALASKA. <AGS-P>.
	31	18	09	41.8	28.929	N	52.339	E	33	N	5.0		1.1	19	SOUTHERN IRAN
	31	18	22	17.0?	33.21	S	73.15	W	33	N			0.4	8	OFF COAST OF CENTRAL CHILE
	31	19	27	58.7%	39.355	N	27.759	E	10	G			1.1	6	TURKEY
	31	19	31	09.3	46.642	N	10.193	E	10	G			1.2	9	NORTHERN ITALY. ML 2.7 (KBA).
	31	20	26	32.7?	36.90	N	71.05	E	33	N	4.5		0.8	5	AFGHANISTAN-USSR BORDER REGION
	31	20	28	05.1*	7.690	S	128.222	E	158	?			1.3	8	BANDA SEA
	31	20	36	42.0?	35.73	N	70.50	E	33	N	4.5		0.4	5	HINDU KUSH REGION
	31	22	22	52.6*	36.404	N	71.096	E	33	N	4.3		0.5	6	AFGHANISTAN-USSR BORDER REGION
	31	22	24	25.8?	31.68	S	68.21	W	107	?			0.2	5	SAN JUAN PROVINCE, ARGENTINA
	31	22	56	37.9*	8.838	S	120.229	E	33	N	4.5		1.0	5	FLORES ISLAND REGION

31 23 51 56.6? 48.22 S 33.32 E 10 G 4.4 1.0 8 PRINCE EDWARD ISLANDS REGION

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

01 02 23 52.15 18.367N 87.188E 10km
5.3mb (68 obs.) 5.0Msz (5 obs.)
BAY OF BENGAL
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 25C
Centroid Location:
Origin Time 02:23:56.8 0.4
Lat 18.40N 0.06 Lon 87.43E 0.07
Dep 10.0 FIX Half-duration 2.0
Principal Axes:
Scale 10**24 D-CM
T Val= 1.83 Plg=22 Azm=280
N 0.01 58 148
P -1.85 21 20
Best Double Couple:Mo=1.8*10**24
NP1:Strike= 60 Dip=58 Slip= 1
NP2: 330 89 148

01 07 49 29.42 8.272N 126.516E 78km
5.5mb (29 obs.)
MINDANAO, PHILIPPINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 24C
Centroid Location:
Origin Time 07:49:30.0 0.4
Lat 7.98N 0.04 Lon 126.90E 0.05
Dep 36.2 3.3 Half-duration 1.9
Principal Axes:
Scale 10**24 D-CM
T Val= 1.89 Plg=74 Azm=358
N 0.01 15 198
P -1.90 5 107
Best Double Couple:Mo=1.9*10**24
NP1:Strike=181 Dip=42 Slip= 67
NP2: 31 52 109

01 09 53 35.95 0.867N 26.803W 10km
5.0mb (61 obs.) 4.7Msz (4 obs.)
CENTRAL MID-ATLANTIC RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 33C
Centroid Location:
Origin Time 09:53:45.0 0.5
Lat 1.13N 0.05 Lon 26.48W 0.05
Dep 10.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**24 D-CM
T Val= 1.18 Plg=16 Azm= 39
N -0.16 74 232
P -1.02 3 129
Best Double Couple:Mo=1.1*10**24
NP1:Strike=175 Dip=77 Slip= 9
NP2: 83 82 166

02 12 34 53.41 40.635N 143.793E 26km
5.1mb (37 obs.) 5.4Msz (6 obs.)
OFF EAST COAST OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 25C
Centroid Location:
Origin Time 12:34:56.1 0.7
Lat 40.63N 0.09 Lon 143.90E 0.14
Dep 24.3 8.1 Half-duration 1.6
Principal Axes:
Scale 10**23 D-CM
T Val= 9.93 Plg=57 Azm=300
N 0.75 3 205
P -10.68 33 113
Best Double Couple:Mo=1.0*10**24
NP1:Strike=192 Dip=13 Slip= 77
NP2: 26 78 93

02 13 12 32.96 33.797S 56.337E 10km
5.5mb (29 obs.) 5.4Msz (3 obs.)
ATLANTIC-INDIAN RISE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 29C
Centroid Location:
Origin Time 13:12:36.6 0.4
Lat 33.85S 0.05 Lon 56.46E 0.05
Dep 10.0 FIX Half-duration 2.4
Principal Axes:
Scale 10**24 D-CM
T Val= 2.82 Plg= 3 Azm=358
N 0.34 22 267
P -3.16 68 96
Best Double Couple:Mo=3.0*10**24
NP1:Strike=110 Dip=46 Slip= -59
NP2: 248 52 -119

02 13 48 19.12 33.749S 56.419E 10km
5.6mb (48 obs.) 5.7Msz (8 obs.)
ATLANTIC-INDIAN RISE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 31C
Centroid Location:
Origin Time 13:48:23.6 0.4
Lat 33.81S 0.04 Lon 56.47E 0.05
Dep 10.0 FIX Half-duration 3.2
Principal Axes:
Scale 10**24 D-CM
T Val= 7.75 Plg= 4 Azm= 1
N 0.21 18 269
P -7.96 71 103
Best Double Couple:Mo=7.9*10**24
NP1:Strike=109 Dip=44 Slip= -63
NP2: 255 52 -113

03 03 11 31.50 54.820S 146.436E 10km
5.8mb (24 obs.) 6.2Msz (11 obs.)
WEST OF MACQUARIE ISLAND
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=175 Dip=82 Slip= 5
NP2: 84 85 172
Principal Axes:
T Plg= 9 Azm= 39
P 2 130
Comment: The focal mechanism is moderately well controlled and corresponds to right-lateral strike slip faulting with a small reverse component. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 12 No. of sta: 6
Principal Axes:
Scale 10**25 d-cm
T Val= 4.07 Plg=24 Azm= 44
N 0.06 60 185
P -4.13 17 307
Best Double Couple:Mo=4.1*10**25
NP1:Strike= 84 Dip=60 Slip= 175
NP2: 177 85 30
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 22S, 46C
Centroid Location:
Origin Time 03:11:41.0 0.1
Lat 54.75S 0.02 Lon 146.12E 0.03
Dep 10.0 FIX Half-duration 5.8
Principal Axes:
Scale 10**25 D-CM
T Val= 4.61 Plg=13 Azm= 35
N 0.10 73 259
P -4.72 12 128
Best Double Couple:Mo=4.7*10**25
NP1:Strike=172 Dip=73 Slip= 1
NP2: 81 89 163

03 04 36 51.73 4.439S 152.828E 33km
6.3mb (46 obs.) 7.2Msz (28 obs.)
NEW BRITAIN REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=192 Dip=60 Slip= 145
NP2: 301 60 35
Principal Axes:
T Plg=45 Azm=157
P 0 67
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 26 No. of sta: 6
Principal Axes:
Scale 10**27 d-cm
T Val= 1.01 Plg=70 Azm=146
N 0.01 17 3
P -1.02 12 269
Best Double Couple:Mo=1.0*10**27
NP1:Strike=339 Dip=36 Slip= 61
NP2: 193 59 110
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 18S, 45C M.W.: 17S, 38C
Centroid Location:
Origin Time 04:37: 7.4 0.2
Lat 4.28S 0.01 Lon 152.58E 0.01
Dep 31.4 0.9 Half-duration 17.0
Principal Axes:
Scale 10**26 D-CM
T Val= 7.03 Plg=77 Azm=200
N 2.49 10 336
P -9.52 9 68
Best Double Couple:Mo=8.3*10**26
NP1:Strike=169 Dip=37 Slip= 106
NP2: 329 55 78

03 15 55 48.77 17.243S 167.834E 29km
5.8mb (26 obs.) 6.4Msz (26 obs.)
VANUATU ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=150 Dip=75 Slip= 47
NP2: 44 45 159
Principal Axes:
T Plg=43 Azm= 19
P 18 271
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting with a large strike-slip component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 30 No. of sta: 8
Principal Axes:
Scale 10**25 d-cm
T Val= 7.11 Plg=57 Azm= 82
N -0.15 13 331
P -6.95 30 234
Best Double Couple:Mo=7.0*10**25
NP1:Strike=291 Dip=19 Slip= 48
NP2: 155 76 103
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 20S, 45C M.W.: 14S, 29C
Centroid Location:
Origin Time 15:55:57.1 0.2
Lat 17.54S 0.02 Lon 167.76E 0.01
Dep 29.8 0.8 Half-duration 6.6
Principal Axes:
Scale 10**25 D-CM
T Val= 5.87 Plg=71 Azm= 68
N 0.01 3 166
P -5.88 19 257
Best Double Couple:Mo=5.9*10**25
NP1:Strike=352 Dip=26 Slip= 97
NP2: 165 64 87

03 23 50 13.17 4.256S 152.577E 39km
5.3mb (16 obs.) 5.3Msz (2 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 25C
Centroid Location:
Origin Time 23:50:17.1 1.1
Lat 4.57S 0.12 Lon 152.67E 0.06
Dep 10.0 FIX Half-duration 2.1
Principal Axes:
Scale 10**24 D-CM
T Val= 3.00 Plg=61 Azm=169
N -0.44 24 26
P -2.56 16 289
Best Double Couple:Mo=2.8*10**24
NP1:Strike=349 Dip=36 Slip= 47
NP2: 218 65 116

04 05 08 31.58 42.132N 45.860E 33km
5.2mb (56 obs.) 5.0Msz (5 obs.)
EASTERN CAUCASUS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 25C
Centroid Location:
Origin Time 05:08:38.1 0.6

Lat 42.33N 0.10 Lon 46.52E 0.13
Dep 15.0 FIX Half-duration 1.6
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	1.45	47	13
N	0.24	14	267
P	-1.69	40	165

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

	Strike=	Dip=	Slip=
NP1:	192	15	15
NP2:	88	86	104

04 08 51 35.69 17.533N 96.991W 70km
5.0mb (58 obs.)
OAXACA, MEXICO
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 17C
Centroid Location:
Origin Time 08:51:35.8 1.1
Lat 17.55N 0.12 Lon 97.08W 0.13
Dep 67.6 6.6 Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	5.38	4	233
N	0.21	5	324
P	-5.59	83	104

Best Double Couple:Mo=5.5*10**23

	Strike=	Dip=	Slip=
NP1:	318	41	-98
NP2:	148	49	-83

05 06 17 17.14 18.465N 63.063W 55km
5.2mb (51 obs.) 4.4Msz (2 obs.)
LEEWARD ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 20C
Centroid Location:
Origin Time 06:17:19.5 1.0
Lat 18.58N 0.13 Lon 63.07W 0.14
Dep 35.0 8.7 Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	6.73	36	296
N	1.03	39	169
P	-7.77	31	51

Best Double Couple:Mo=7.3*10**23

	Strike=	Dip=	Slip=
NP1:	86	39	5
NP2:	352	87	129

05 15 22 37.94 33.441S 72.214W 33km
5.1mb (15 obs.) 5.3Msz (2 obs.)
OFF COAST OF CENTRAL CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 23C
Centroid Location:
Origin Time 15:22:41.3 0.4
Lat 33.59S 0.05 Lon 72.43W 0.09
Dep 30.4 2.7 Half-duration 1.7
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	1.91	65	114
N	0.13	8	7
P	-2.04	24	274

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

	Strike=	Dip=	Slip=
NP1:	348	22	70
NP2:	190	69	98

05 21 29 46.98 46.922S 10.692W 10km
5.1mb (10 obs.) 4.9Msz (1 obs.)
SOUTH ATLANTIC RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 19C
Centroid Location:
Origin Time 21:29:54.7 0.5
Lat 46.81S 0.04 Lon 10.22W 0.07
Dep 10.0 FIX Half-duration 1.8
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	1.26	0	220
N	-0.17	90	180
P	-1.09	0	130

Best Double Couple:Mo=1.2*10**24

	Strike=	Dip=	Slip=
NP1:	265	90	180
NP2:	355	90	0

05 23 10 14.91 5.722N 95.503E 10km
5.0mb (21 obs.) 5.2Msz (3 obs.)
NORTHERN SUMATERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 18C
Centroid Location:
Origin Time 23:10:19.8 0.8
Lat 5.86N 0.07 Lon 95.45E 0.10
Dep 10.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	12.93	23	105
N	-3.12	61	243
P	-9.81	17	7

Best Double Couple:Mo=1.1*10**24

	Strike=	Dip=	Slip=
NP1:	145	61	176
NP2:	237	86	29

06 03 37 18.27 29.721S 177.771W 50km
5.7mb (41 obs.) 5.9Msz (24 obs.)
KERMADEC ISLANDS
FAULT PLANE SOLUTION: P-Waves

	Strike=	Dip=	Slip=
NP1:	336	70	90
NP2:	156	20	90

Principal Axes:

	Plg=	Azm=
T	65	246
P	25	66

Comment: The focal mechanism is poorly controlled and correspands to reverse faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 42 No. of sta: 11
Principal Axes:
Scale 10**25 d-cm

	Val=	Plg=	Azm=
T	3.13	64	225
N	-0.04	15	349
P	-3.09	21	85

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

	Strike=	Dip=	Slip=
NP1:	200	28	125
NP2:	342	68	73

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 36C
Centroid Location:
Origin Time 03:37:25.5 0.2
Lat 29.50S 0.02 Lon 177.64W 0.02
Dep 54.2 1.5 Half-duration 4.8
Principal Axes:
Scale 10**25 D-CM

	Val=	Plg=	Azm=
T	2.30	63	210
N	0.07	21	347
P	-2.37	17	84

Best Double Couple:Mo=2.3*10**25

	Strike=	Dip=	Slip=
NP1:	202	34	130
NP2:	337	65	67

06 08 33 06.85 33.397S 72.151W 40km
5.3mb (29 obs.) 5.1Msz (7 obs.)
OFF COAST OF CENTRAL CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 25C
Centroid Location:
Origin Time 08:33: 9.0 0.5
Lat 33.60S 0.08 Lon 72.50W 0.08
Dep 20.8 3.7 Half-duration 1.7
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	1.79	71	112
N	0.24	5	6
P	-2.03	18	275

Best Double Couple:Mo=1.9*10**24

	Strike=	Dip=	Slip=
NP1:	356	27	79
NP2:	189	63	96

06 14 37 28.49 9.725S 117.670E 86km
5.6mb (29 obs.)
SUMBAWA ISLAND REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 23C
Centroid Location:
Origin Time 14:37:29.7 0.6
Lat 9.75S 0.07 Lon 117.53E 0.05
Dep 93.2 3.9 Half-duration 2.0
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	1.98	55	334
N	-0.07	28	113
P	-1.91	19	213

Best Double Couple:Mo=1.9*10**24

	Strike=	Dip=	Slip=
NP1:	340	35	143
NP2:	102	70	60

07 06 01 37.32 22.577N 141.982E 260km
5.4mb (96 obs.)
VOLCANO ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 20C
Centroid Location:
Origin Time 06:01:41.4 0.6
Lat 22.41N 0.05 Lon 141.80E 0.06
Dep 252.6 3.4 Half-duration 1.6
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	0.99	7	103
N	0.16	15	11
P	-1.15	73	218

Best Double Couple:Mo=1.1*10**24

	Strike=	Dip=	Slip=
NP1:	209	40	-66
NP2:	359	54	-109

07 11 25 11.75 32.951S 72.072W 31km
5.5mb (41 obs.) 5.8Msz (15 obs.)
OFF COAST OF CENTRAL CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 35C
Centroid Location:
Origin Time 11:25:17.4 0.2
Lat 33.02S 0.03 Lon 72.38W 0.03
Dep 24.6 1.4 Half-duration 3.6
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	12.12	66	80
N	0.97	2	175
P	-13.10	24	266

Best Double Couple:Mo=1.3*10**25

	Strike=	Dip=	Slip=
NP1:	0	21	96
NP2:	174	69	88

08 10 33 20.61 19.563N 108.464W 10km
5.4mb (42 obs.) 5.6Msz (7 obs.)
REVILLA GIGEDO ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 26C
Centroid Location:
Origin Time 10:33:25.3 0.3
Lat 19.08N 0.04 Lon 108.46W 0.04
Dep 10.0 FIX Half-duration 3.2
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	8.98	18	80
N	-1.66	66	219
P	-7.32	15	346

Best Double Couple:Mo=8.1*10**24

	Strike=	Dip=	Slip=
NP1:	123	66	178
NP2:	213	88	24

08 19 37 35.01 59.732S 149.798E 10km
5.4mb (14 obs.) 6.1Msz (20 obs.)
WEST OF MACQUARIE ISLAND
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 31C
Centroid Location:
Origin Time 19:37:44.1 0.2
Lat 59.65S 0.03 Lon 148.96E 0.05
Dep 10.0 FIX Half-duration 5.0
Principal Axes:
Scale 10**25 D-CM

	Val=	Plg=	Azm=
T	3.23	6	26
N	-0.19	80	150
P	-3.04	8	296

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

	Strike=	Dip=	Slip=
NP1:	71	80	-178
NP2:	341	88	-10

09 13 26 57.99 8.503S 110.306E 59km
5.5mb (32 obs.)
JAVA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 28C
Centroid Location:
Origin Time 13:26:56.9 0.5
Lat 9.43S 0.04 Lon 110.65E 0.04
Dep 63.7 2.7 Half-duration 2.5
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	3.06	59	273
N	1.69	28	66
P	-4.75	12	162

Best Double Couple:Mo=3.9*10**24

	Strike=	Dip=	Slip=
NP1:	283	41	135
NP2:	50	62	58

10 05 06 33.36 38.605S 91.623W 10km
5.3mb (18 obs.) 5.7Msz (18 obs.)
WEST CHILE RISE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 19S, 42C
Centroid Location:
Origin Time 05:06:37.9 0.1
Lat 39.05S 0.02 Lon 91.37W 0.02
Dep 10.0 FIX Half-duration 4.1
Principal Axes:
Scale 10**25 D-CM
T Val= 1.84 Plg=19 Azm= 47
N -0.19 60 174
P -1.66 22 309
Best Double Couple:Mo=1.8*10**25
NP1:Strike= 89 Dip=60 Slip=-178
NP2: 357 88 -30

10 16 33 28.81 23.623S 178.826E 559km
5.1mb (25 obs.)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 22C
Centroid Location:
Origin Time 16:33:35.7 0.6
Lat 23.45S 0.07 Lon 178.66E 0.06
Dep 572.2 3.5 Half-duration 1.7
Principal Axes:
Scale 10**24 D-CM
T Val= 0.99 Plg=11 Azm=215
N 0.18 4 306
P -1.17 78 57
Best Double Couple:Mo=1.1*10**24
NP1:Strike=299 Dip=34 Slip= -98
NP2: 129 57 -85

11 17 49 41.29 56.632S 25.306W 33km
5.1mb (5 obs.) 4.7Msz (2 obs.)
SOUTH SANDWICH ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 28C
Centroid Location:
Origin Time 17:49:47.7 0.5
Lat 56.53S 0.05 Lon 25.53W 0.11
Dep 10.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**24 D-CM
T Val= 1.45 Plg=61 Azm=310
N 0.00 18 184
P -1.44 22 87
Best Double Couple:Mo=1.4*10**24
NP1:Strike=146 Dip=28 Slip= 48
NP2: 11 70 110

11 20 31 13.09 32.981S 72.114W 29km
5.2mb (21 obs.) 4.9Msz (4 obs.)
OFF COAST OF CENTRAL CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 32C
Centroid Location:
Origin Time 20:31:15.6 0.3
Lat 32.93S 0.05 Lon 72.32W 0.05
Dep 29.5 2.6 Half-duration 1.7
Principal Axes:
Scale 10**24 D-CM
T Val= 1.86 Plg=73 Azm= 92
N 0.21 0 182
P -2.07 17 272
Best Double Couple:Mo=2.0*10**24
NP1:Strike= 2 Dip=28 Slip= 90
NP2: 182 62 90

13 18 54 11.92 25.854N 45.041W 10km
5.1mb (54 obs.) 5.0Msz (15 obs.)
NORTH ATLANTIC RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 23C
Centroid Location:
Origin Time 18:54:19.4 0.3
Lat 25.87N FIX;Lon 45.05W FIX
Dep 10.0 FIX Half-duration 1.9
Principal Axes:
Scale 10**24 D-CM
T Val= 1.88 Plg= 1 Azm=287
N -0.05 16 17
P -1.83 74 193
Best Double Couple:Mo=1.9*10**24
NP1:Strike= 1 Dip=46 Slip=-112
NP2: 212 48 -69

13 19 09 17.02 25.901N 45.103W 10km
5.0mb (58 obs.) 5.1Msz (9 obs.)
NORTH ATLANTIC RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 18C
Centroid Location:
Origin Time 19:09:25.9 0.5
Lat 25.93N FIX;Lon 45.11W FIX
Dep 10.0 FIX Half-durotion 1.9
Principal Axes:
Scale 10**24 D-CM
T Val= 2.52 Plg=24 Azm= 95
N -0.24 5 3
P -2.28 66 262
Best Double Couple:Mo=2.4*10**24
NP1:Strike=195 Dip=22 Slip= -77
NP2: 1 69 -95

14 19 54 46.51 4.163S 152.560E 10km
5.1mb (5 obs.) 4.7Msz (3 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 20C
Centroid Location:
Origin Time 19:54:53.0 1.2
Lat 4.12S 0.16 Lon 152.70E 0.07
Dep 10.0 FIX Half-duration 1.6
Principal Axes:
Scale 10**23 D-CM
T Val= 12.18 Plg=69 Azm=105
N -0.55 8 352
P -11.62 19 259
Best Double Couple:Mo=1.2*10**24
NP1:Strike=335 Dip=27 Slip= 71
NP2: 176 64 99

17 08 09 30.19 4.251S 152.877E 41km
5.6mb (30 obs.) 5.6Msz (11 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 32C
Centroid Location:
Origin Time 08:09:34.7 0.3
Lat 4.48S 0.06 Lon 152.68E 0.05
Dep 14.8 2.6 Half-duration 2.5
Principal Axes:
Scale 10**24 D-CM
T Val= 9.98 Plg=46 Azm= 19
N 0.65 8 117
P -10.63 43 214
Best Double Couple:Mo=1.0*10**25
NP1:Strike= 13 Dip= 8 Slip= 166
NP2: 117 88 82

17 13 53 00.13 32.760S 71.718W 33km
5.4mb (28 obs.) 4.8Msz (3 obs.)
NEAR COAST OF CENTRAL CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 26C
Centroid Location:
Origin Time 13:53: 5.5 0.3
Lat 32.71S 0.05 Lon 72.07W 0.05
Dep 31.1 2.7 Half-durotion 1.8
Principal Axes:
Scale 10**24 D-CM
T Val= 2.23 Plg=67 Azm= 55
N 0.21 11 173
P -2.44 20 267
Best Double Couple:Mo=2.3*10**24
NP1:Strike= 15 Dip=27 Slip= 115
NP2: 168 66 78

17 19 31 30.17 51.620N 172.919W 33km
5.5mb (91 obs.) 5.9Msz (27 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 18S, 40C
Centroid Location:
Origin Time 19:31:32.2 0.2
Lat 51.66N 0.02 Lon 172.95W 0.04
Dep 32.1 1.6 Half-durotion 4.0
Principal Axes:
Scale 10**25 D-CM
T Val= 1.40 Plg=63 Azm=332
N 0.10 4 71
P -1.51 27 163
Best Double Couple:Mo=1.4*10**25
NP1:Strike=264 Dip=19 Slip= 104
NP2: 69 72 85

18 00 25 25.71 37.161S 78.244E 10km
5.3mb (19 obs.) 5.7Msz (6 obs.)
MID-INDIAN RISE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 18S, 36C
Centroid Location:
Origin Time 00:25:39.6 0.2
Lat 36.64S 0.03 Lon 78.17E 0.03
Dep 10.0 FIX Half-durotion 3.4
Principal Axes:
Scale 10**24 D-CM
T Val= 9.70 Plg= 7 Azm=275
N 0.19 78 152
P -9.89 10 6
Best Double Couple:Mo=9.8*10**24
NP1:Strike= 50 Dip=78 Slip= -2
NP2: 141 88 -168

19 14 34 01.29 38.778S 176.973E 52km
5.7mb (24 obs.) 5.8Msz (9 obs.)
NORTH ISLAND, NEW ZEALAND
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 40C
Centroid Location:
Origin Time 14:34: 5.8 0.2
Lat 38.88S 0.03 Lon 177.01E 0.03
Dep 39.5 2.1 Half-duration 3.8
Principal Axes:
Scale 10**24 D-CM
T Val= 12.90 Plg=32 Azm=302
N -2.03 4 35
P -10.87 57 131
Best Double Couple:Mo=1.2*10**25
NP1:Strike= 16 Dip=13 Slip=-109
NP2: 216 78 -86

21 13 10 35.00 19.045N 67.973W 35km
5.7mb (81 obs.) 5.3Msz (18 obs.)
MONA PASSAGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 25C
Centroid Location:
Origin Time 13:10:38.0 0.3
Lat 19.13N 0.04 Lon 68.11W 0.06
Dep 23.0 FIX Half-duration 2.0
Principal Axes:
Scale 10**24 D-CM
T Val= 3.05 Plg=46 Azm=267
N 1.27 23 151
P -4.31 35 44
Best Double Couple:Mo=3.7*10**24
NP1:Strike= 76 Dip=23 Slip= 14
NP2: 333 84 113

22 09 06 13.16 6.312S 148.830E 50km
5.1mb (12 obs.) 5.3Msz (3 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 21C
Centroid Location:
Origin Time 09:06:15.6 0.4
Lat 6.50S 0.03 Lon 149.08E 0.04
Dep 42.3 4.8 Half-duration 3.0
Principal Axes:
Scale 10**24 D-CM
T Val= 6.07 Plg=70 Azm= 7
N 0.00 6 114
P -6.07 19 206
Best Double Couple:Mo=6.1*10**24
NP1:Strike=306 Dip=27 Slip= 104
NP2: 111 64 83

22 09 26 53.81 6.291S 148.783E 49km
5.8mb (31 obs.) 6.9Msz (31 obs.)
NEW BRITAIN REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=140 Dip=77 Slip= 90
NP2: 320 13 90
Principal Axes:
T Plg=58 Azm= 50
P 32 230
Comment: The focal mechanism is
poorly controlled and
corresponds to reverse
faulting. The preferred fault

plane is NP2.
MOMENT TENSOR SOLUTION
Dep 34 No. of sta: 9
Principal Axes:
Scale 10**26 d-cm
T Val= 2.25 Plg=64 Azm= 47
N -0.01 0 317
P -2.23 26 227
Best Double Couple:Mo=2.2*10**26
NP1:Strike=317 Dip=19 Slip= 90
NP2: 137 71 90
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 20S, 44C M.W.: 15S, 33C
Centroid Location:
Origin Time 09:27:10.8 0.2
Lat 6.52S 0.01 Lan 148.83E 0.01
Dep 36.4 0.7 Half-duration 9.7
Principal Axes:
Scale 10**26 D-CM
T Val= 2.10 Plg=69 Azm= 23
N 0.01 6 278
P -2.11 20 186
Best Double Couple:Mo=2.1*10**26
NP1:Strike=266 Dip=25 Slip= 77
NP2: 100 65 96

22 21 32 28.81 34.384N 28.307E 23km
5.4mb (68 obs.) 4.1Msz (4 obs.)
EASTERN MEDITERRANEAN SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 18C
Centroid Location:
Origin Time 21:32:35.4 1.5
Lot 34.16N 0.25 Lan 28.40E 0.28
Dep 15.0 FIX Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM
T Val= 6.12 Plg=10 Azm=301
N 2.41 38 203
P -8.53 50 43
Best Double Couple:Mo=7.3*10**23
NP1:Strike= 67 Dip=48 Slip= -34
NP2: 181 65 -133

23 03 23 17.03 8.573S 110.618E 88km
5.4mb (20 obs.)
JAVA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 19C
Centroid Location:
Origin Time 03:23:16.0 0.8
Lat 9.07S 0.09 Lon 110.79E 0.12
Dep 66.2 7.3 Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM
T Val= 6.79 Plg=68 Azm=180
N -1.26 11 63
P -5.53 19 329
Best Double Couple:Mo=6.2*10**23
NP1:Strike= 42 Dip=27 Slip= 66
NP2: 248 65 102

23 18 04 16.51 41.850N 126.865W 10km
4.8mb (20 obs.) 5.0Msz (2 obs.)
OFF COAST OF NORTHERN CALIFORNIA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 22C
Centroid Location:
Origin Time 18:04:19.0 0.9
Lat 41.76N 0.07 Lon 127.14W 0.11
Dep 10.0 FIX Half-duration 1.6
Principal Axes:
Scale 10**24 D-CM
T Val= 1.21 Plg= 3 Azm= 96
N -0.18 1 6
P -1.03 87 261
Best Double Couple:Mo=1.1*10**24
NP1:Strike=187 Dip=42 Slip= -89
NP2: 5 48 -91

24 07 57 54.47 14.686N 123.871E 33km
5.3mb (20 obs.) 4.8Msz (4 obs.)
LUZON, PHILIPPINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 21C
Centroid Location:
Origin Time 07:57:53.2 0.6
Lat 14.89N 0.06 Lon 124.26E 0.11
Dep 40.4 9.0 Half-duration 1.7
Principal Axes:
Scale 10**24 D-CM
T Val= 1.36 Plg=25 Azm=177
N -0.18 58 41
P -1.17 20 276
Best Double Couple:Mo=1.3*10**24
NP1:Strike=318 Dip=58 Slip= 4
NP2: 226 87 148

24 15 08 55.18 5.456S 147.009E 196km
5.4mb (24 obs.)
EAST PAPUA NEW GUINEA REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 15C
Centroid Location:
Origin Time 15:08:58.6 0.8
Lat 5.67S 0.08 Lon 146.71E 0.10
Dep 208.0 4.0 Half-duration 1.8
Principal Axes:
Scale 10**23 D-CM
T Val= 14.38 Plg=32 Azm=116
N -1.02 56 277
P -13.36 9 21
Best Double Couple:Mo=1.4*10**24
NP1:Strike=154 Dip=61 Slip= 162
NP2: 252 75 30

25 17 45 05.34 84.035N 0.915W 10km
4.8mb (47 obs.) 4.7Msz (9 obs.)
NORTH OF SVALBARD
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 22C
Centroid Location:
Origin Time 17:45: 5.7 0.8
Lat 84.16N 0.11 Lon 0.58W 1.17
Dep 10.0 FIX Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM
T Val= 5.57 Plg= 5 Azm=312
N -0.33 14 43
P -5.24 75 203
Best Double Couple:Mo=5.4*10**23
NP1:Strike= 27 Dip=42 Slip=-111
NP2: 234 52 -72

25 22 03 32.81 85.214N 100.309E 10km
4.7mb (28 obs.) 4.7Msz (2 obs.)
NORTH OF SEVERNAYA ZEMLYA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 18C
Centroid Location:
Origin Time 22:03:30.7 1.7
Lat 85.06N 0.25 Lon 109.30E 2.44
Dep 10.0 FIX Half-duration 1.2
Principal Axes:
Scale 10**23 D-CM
T Val= 2.74 Plg=26 Azm=232
N -0.38 6 139
P -2.36 63 37
Best Double Couple:Mo=2.6*10**23
NP1:Strike=335 Dip=20 Slip= -72
NP2: 137 71 -96

26 12 18 05.59 11.373S 166.338E 33km
5.8mb (32 obs.) 5.2Msz (9 obs.)
SANTA CRUZ ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=150 Dip=53 Slip= 90
NP2: 330 37 90
Principal Axes:
T Plg=82 Azm= 60
P 8 240
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 47 No. of sta: 11
Principal Axes:
Scale 10**24 d-cm
T Val= 5.74 Plg=73 Azm=144
N -0.25 15 351
P -5.49 7 259
Best Double Couple:Mo=5.6*10**24
NP1:Strike=332 Dip=40 Slip= 66
NP2: 182 54 109
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 29C
Centroid Location:
Origin Time 12:18:10.3 0.2
Lat 11.67S 0.03 Lon 166.03E 0.02
Dep 58.4 1.6 Half-duration 2.6
Principal Axes:
Scale 10**24 D-CM
T Val= 3.99 Plg=81 Azm=330
N 0.75 8 176
P -4.73 4 85
Best Double Couple:Mo=4.4*10**24
NP1:Strike=166 Dip=42 Slip= 77
NP2: 3 50 101

26 17 56 58.44 5.378S 78.653W 18km
5.3mb (52 obs.) 4.3Msz (2 obs.)
NORTHERN PERU
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 26C
Centroid Location:
Origin Time 17:56:59.7 0.5
Lat 5.44S 0.07 Lon 78.96W 0.07
Dep 25.1 4.3 Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM
T Val= 9.89 Plg=75 Azm=274
N -0.03 4 168
P -9.86 14 77
Best Double Couple:Mo=9.9*10**23
NP1:Strike=161 Dip=31 Slip= 82
NP2: 351 59 95

27 07 38 23.23 26.533S 84.955E 10km
5.3mb (11 obs.)
SOUTH INDIAN OCEAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 18C
Centroid Location:
Origin Time 07:38:30.4 0.5
Lat 26.47S 0.06 Lon 84.56E 0.07
Dep 10.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM
T Val= 7.84 Plg= 0 Azm=234
N 0.90 90 180
P -8.74 0 144
Best Double Couple:Mo=8.3*10**23
NP1:Strike=279 Dip=90 Slip= 180
NP2: 9 90 0

27 16 26 45.25 27.014S 113.440W 10km
5.4mb (31 obs.) 5.6Msz (16 obs.)
EASTER ISLAND REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 34C
Centroid Location:
Origin Time 16:26:52.7 0.2
Lat 27.13S 0.03 Lon 113.40W 0.03
Dep 10.0 FIX Half-duration 3.7
Principal Axes:
Scale 10**24 D-CM
T Val= 10.99 Plg=17 Azm= 67
N -1.14 64 196
P -9.85 19 331
Best Double Couple:Mo=1.0*10**25
NP1:Strike=110 Dip=64 Slip=-178
NP2: 19 88 -26

28 14 42 09.05 4.985S 151.968E 110km
5.2mb (13 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 17C
Centroid Location:
Origin Time 14:42:11.6 1.1
Lat 5.22S 0.07 Lon 152.28E 0.13
Dep 116.5 4.7 Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM
T Val= 3.82 Plg=80 Azm= 30
N 0.64 10 210
P -4.46 0 120
Best Double Couple:Mo=4.1*10**23
NP1:Strike=201 Dip=46 Slip= 77
NP2: 39 46 103

28 19 33 22.19 37.352N 140.510E 97km
5.3mb (70 obs.)
HONSHU, JAPAN

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 20C
Centroid Location:
Origin Time 19:33:24.0 0.6
Lat 37.20N 0.05 Lon 140.52E 0.11
Dep 109.0 4.1 Half-duration 1.7
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	0.94	41	145
N	0.50	27	28
P	-1.44	36	275

Best Double Couple:Mo=1.2*10**24
NP1:Strike=305 Dip=28 Slip= 6
NP2: 209 87 117

28 22 59 54.58 60.241S 26.883W 33km
5.9mb (17 obs.) 6.4Msz (18 obs.)
SOUTH SANDWICH ISLANDS REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=170 Dip=86 Slip= 6
NP2: 80 84 176
Principal Axes:

	Plg=	Azm=
T	7	35
P	1	305

Comment: The focal mechanism is moderately well controlled and corresponds to right-lateral strike slip faulting with a small normal component. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 17 No. of sta: 5
Principal Axes:
Scale 10**25 d-cm

	Val=	Plg=	Azm=
T	4.79	2	225
N	-0.06	82	123
P	-4.72	8	315

Best Double Couple:Mo=4.8*10**25
NP1:Strike=359 Dip=83 Slip= -5
NP2: 90 85 -173
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 36C M.W.: 11S, 19C
Centroid Location:
Origin Time 22:59:57.1 0.2
Lat 60.53S 0.02 Lon 26.79W 0.04
Dep 11.1 1.8 Half-duration 6.0
Principal Axes:
Scale 10**25 D-CM

	Val=	Plg=	Azm=
T	3.93	4	231
N	0.17	65	331
P	-4.10	25	139

Best Double Couple:Mo=4.0*10**25
NP1:Strike=278 Dip=70 Slip=-165
NP2: 183 76 -21

29 06 32 18.34 56.157N 164.573E 36km
5.2mb (62 obs.) 5.0Msz (5 obs.)
KOMANDORSKY ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 28C
Centroid Location:
Origin Time 06:32:19.7 0.3
Lat 56.37N 0.03 Lon 164.82E 0.07
Dep 23.0 4.2 Half-duration 2.3
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	3.10	10	260
N	-0.24	72	24
P	-2.85	15	167

Best Double Couple:Mo=3.0*10**24
NP1:Strike=304 Dip=72 Slip=-177
NP2: 213 87 -18

29 07 54 44.07 36.190N 70.896E 99km
6.6mb (72 obs.)
HINDU KUSH REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=232 Dip=53 Slip= 90
NP2: 52 37 90
Principal Axes:

	Plg=	Azm=
T	82	142
P	8	322

Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 118 No. of sta: 15
Principal Axes:
Scale 10**27 d-cm

	Val=	Plg=	Azm=
T	1.04	82	200
N	0.05	5	69
P	-1.10	6	339

Best Double Couple:Mo=1.1*10**27
NP1:Strike= 63 Dip=39 Slip= 82
NP2: 254 51 97
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 30C M.W.: 15S, 32C
Centroid Location:
Origin Time 07:54:57.8 0.2
Lat 36.33N 0.02 Lon 70.96E 0.02
Dep 98.5 0.7 Half-duration 18.7
Principal Axes:
Scale 10**27 D-CM

	Val=	Plg=	Azm=
T	1.44	76	209
N	0.06	11	66
P	-1.50	8	335

Best Double Couple:Mo=1.5*10**27
NP1:Strike= 52 Dip=38 Slip= 72
NP2: 254 54 104

31 07 37 54.66 52.404N 173.487E 46km
5.7mb (90 obs.) 5.0Msz (14 obs.)
NEAR ISLANDS, ALEUTIAN ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 26C
Centroid Location:
Origin Time 07:37:56.3 0.3
Lat 52.60N 0.03 Lon 173.48E 0.07
Dep 29.5 3.1 Half-duration 2.3
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	3.02	56	312
N	0.12	15	65
P	-3.14	30	164

Best Double Couple:Mo=3.1*10**24
NP1:Strike=292 Dip=20 Slip= 139
NP2: 62 77 75

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

Corrections to Monthly Listing for January, 1984

1. Delete event of 14:15:15.8 UTC on January 18, 1984.

2. Event of 20:26:35.6 UTC on January 19, 1984 should read:

JANUARY 1984

19	19	26 35.6*	60.143 N	153.048 W	148	1.0	7	SOUTHERN ALASKA

ANNOUNCEMENT

The QED is now available on a toll-free WATS number to all users in the United States outside the state of Colorado. The telephone number is:

800-358-2663

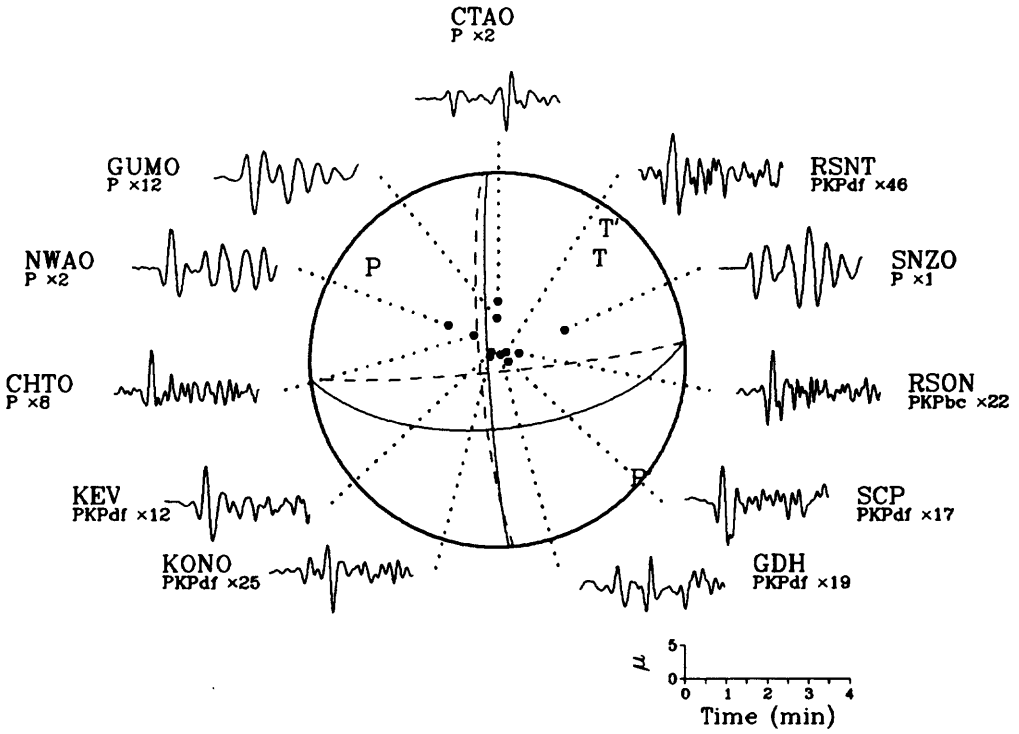
After dialing this number, type "carriage-return" until the computer responds with:

Welcome to the USGS/NEIC QED System. (etc)

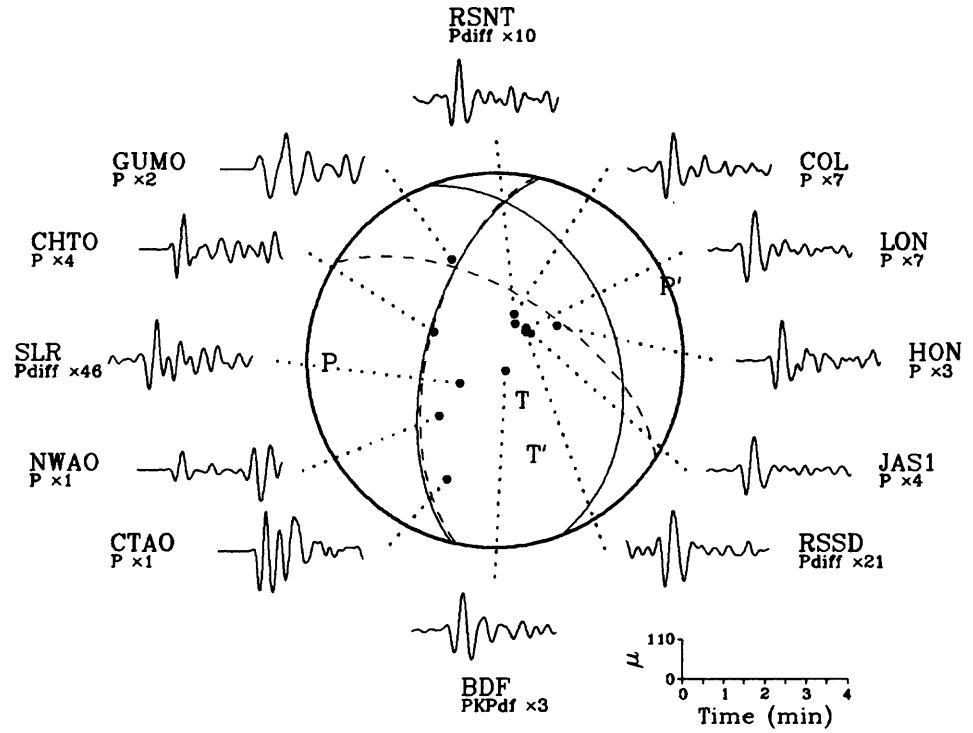
Please note that users dialing on the WATS line are automatically logged on to the VAX 11/780 and into the QED directory. The first response required of the user is to enter name and organization.

If there are any problems with this new service, please call Bruce Presgrave at (303) 236-1500.

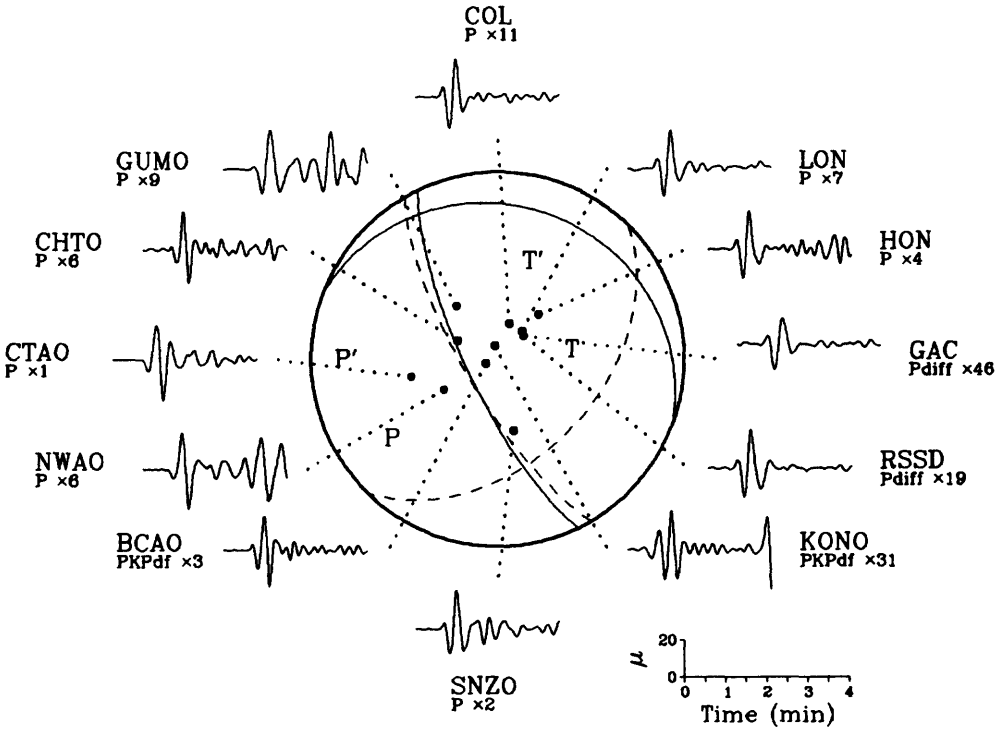
03 July 1985 03:11:31.50
West of Macquarie Island



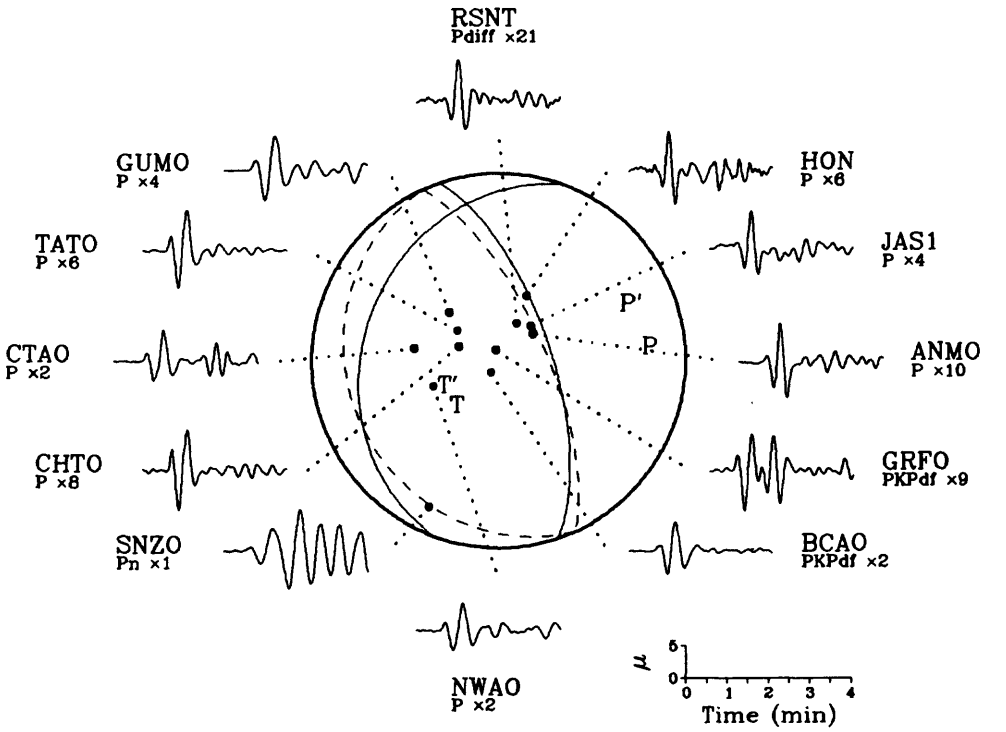
03 July 1985 04:36:51.73
New Britain Region



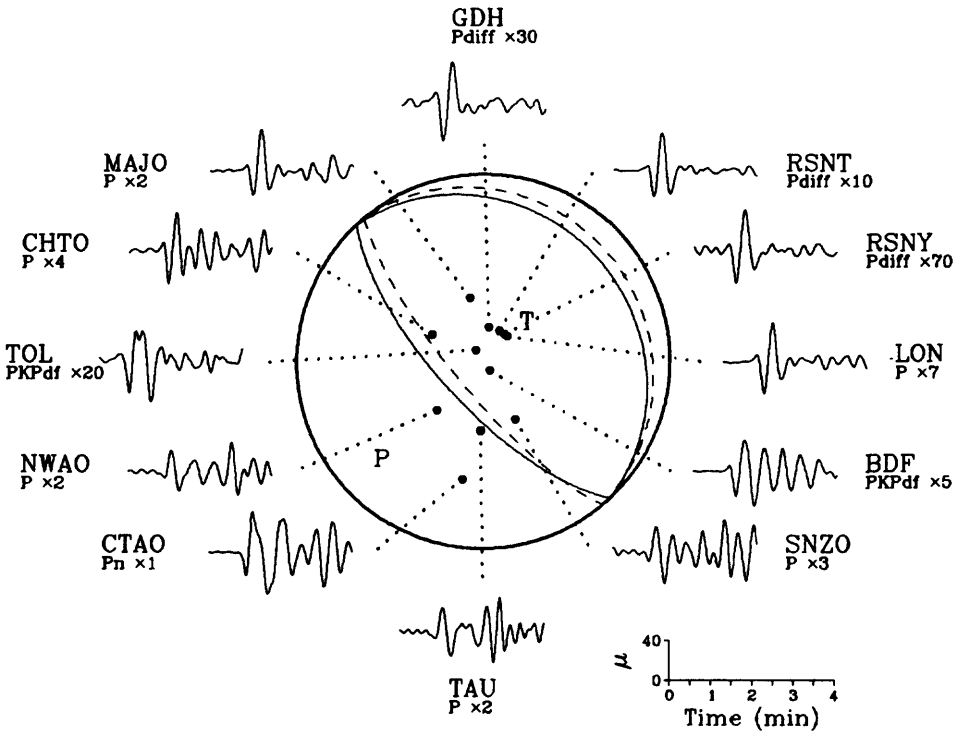
03 July 1985 15:55:48.77
Vanuatu Islands



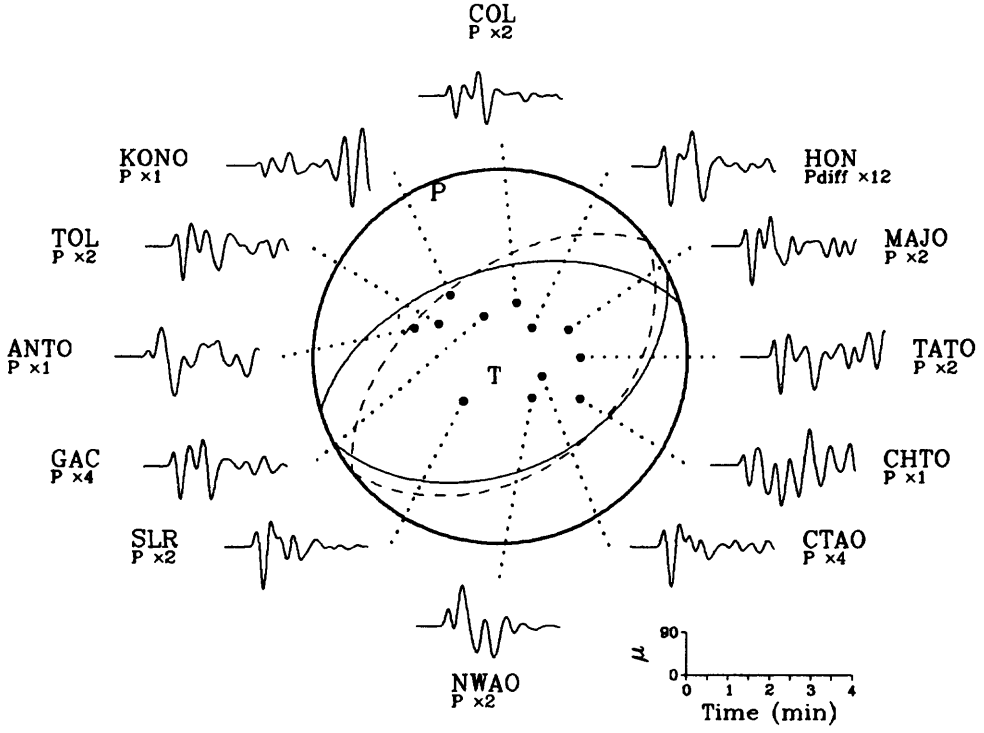
06 July 1985 03:37:18.27
Kermadec Islands

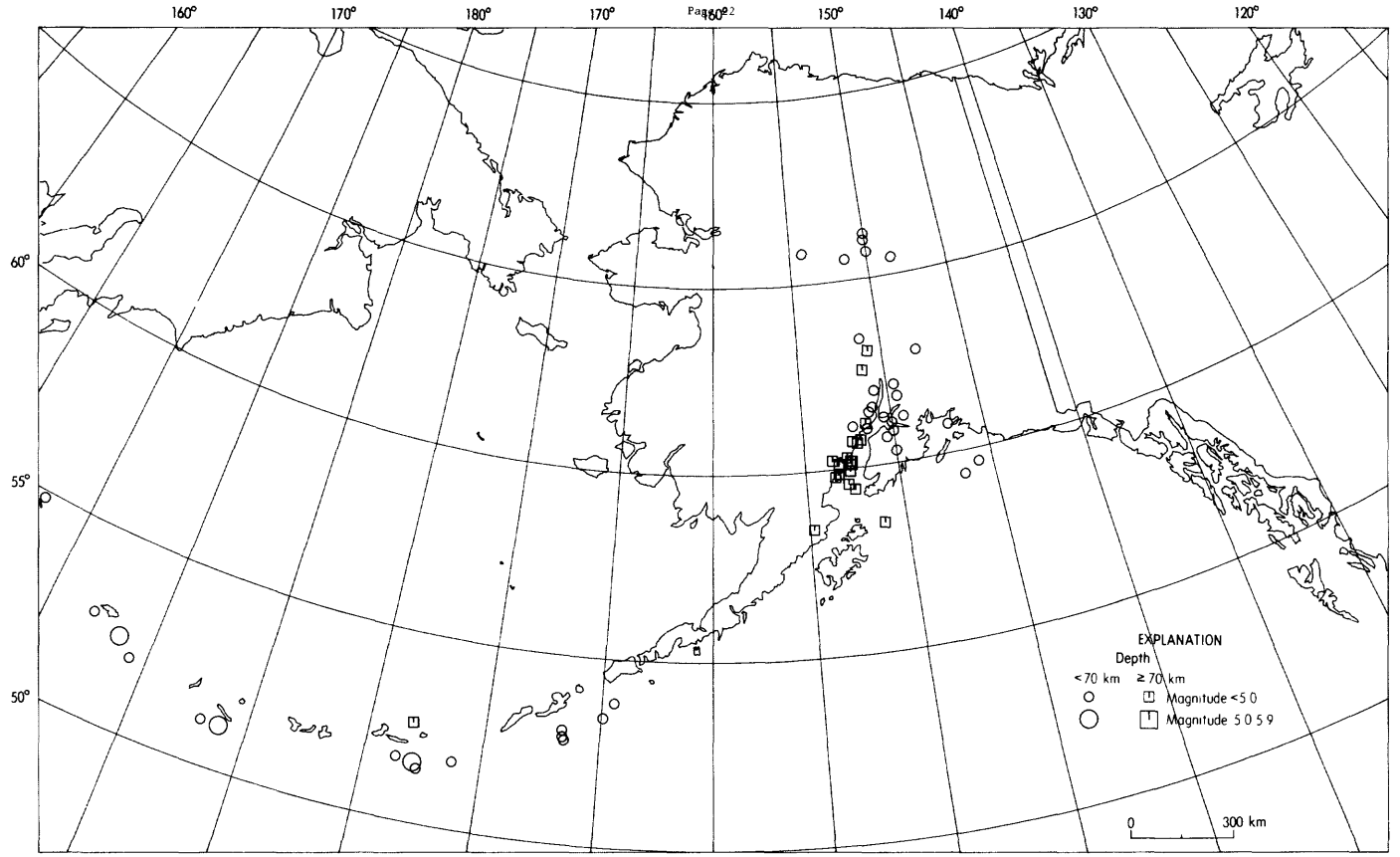


22 July 1985 09:26:53.81
New Britain Region

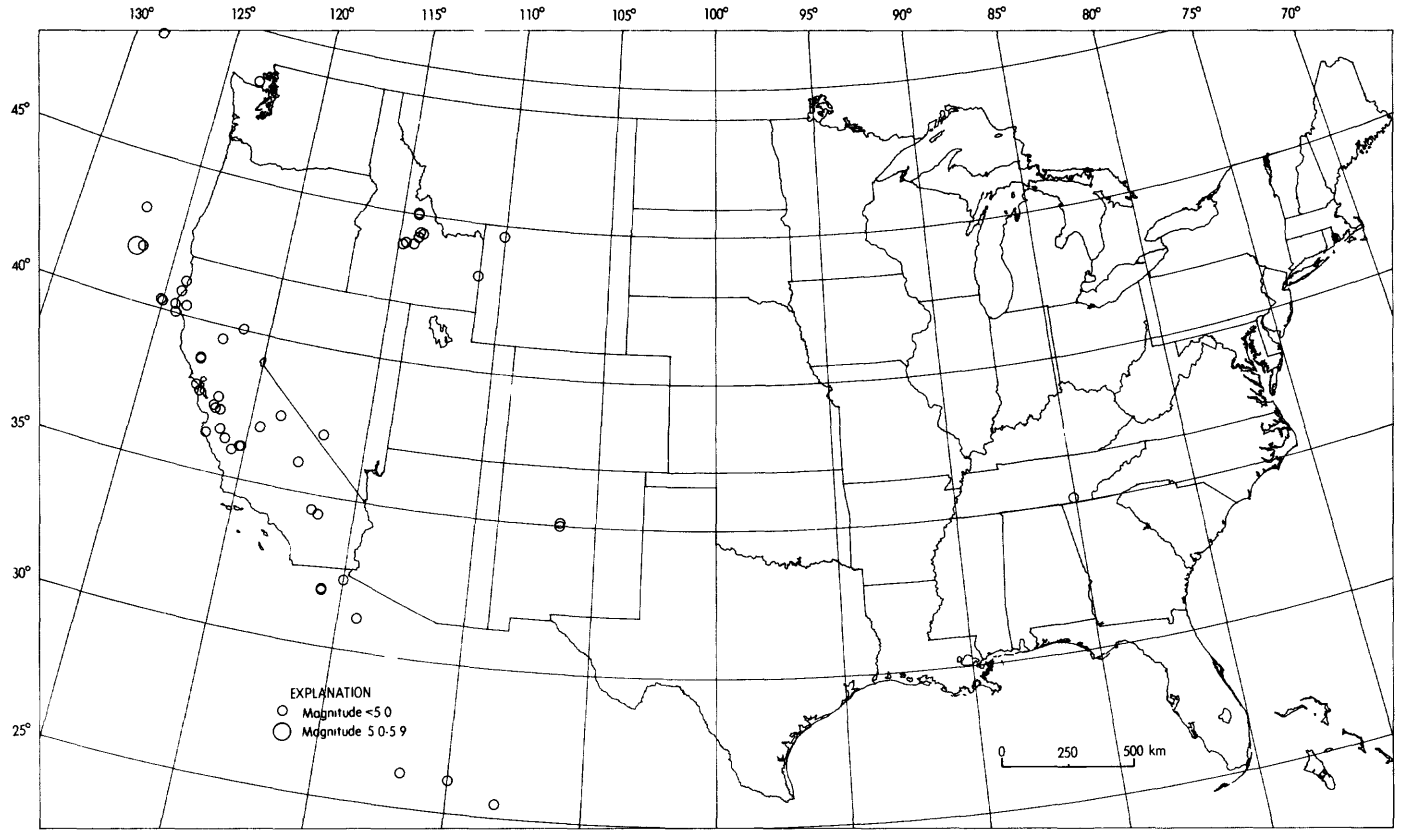


29 July 1985 07:54:44.07
Hindu Kush Region

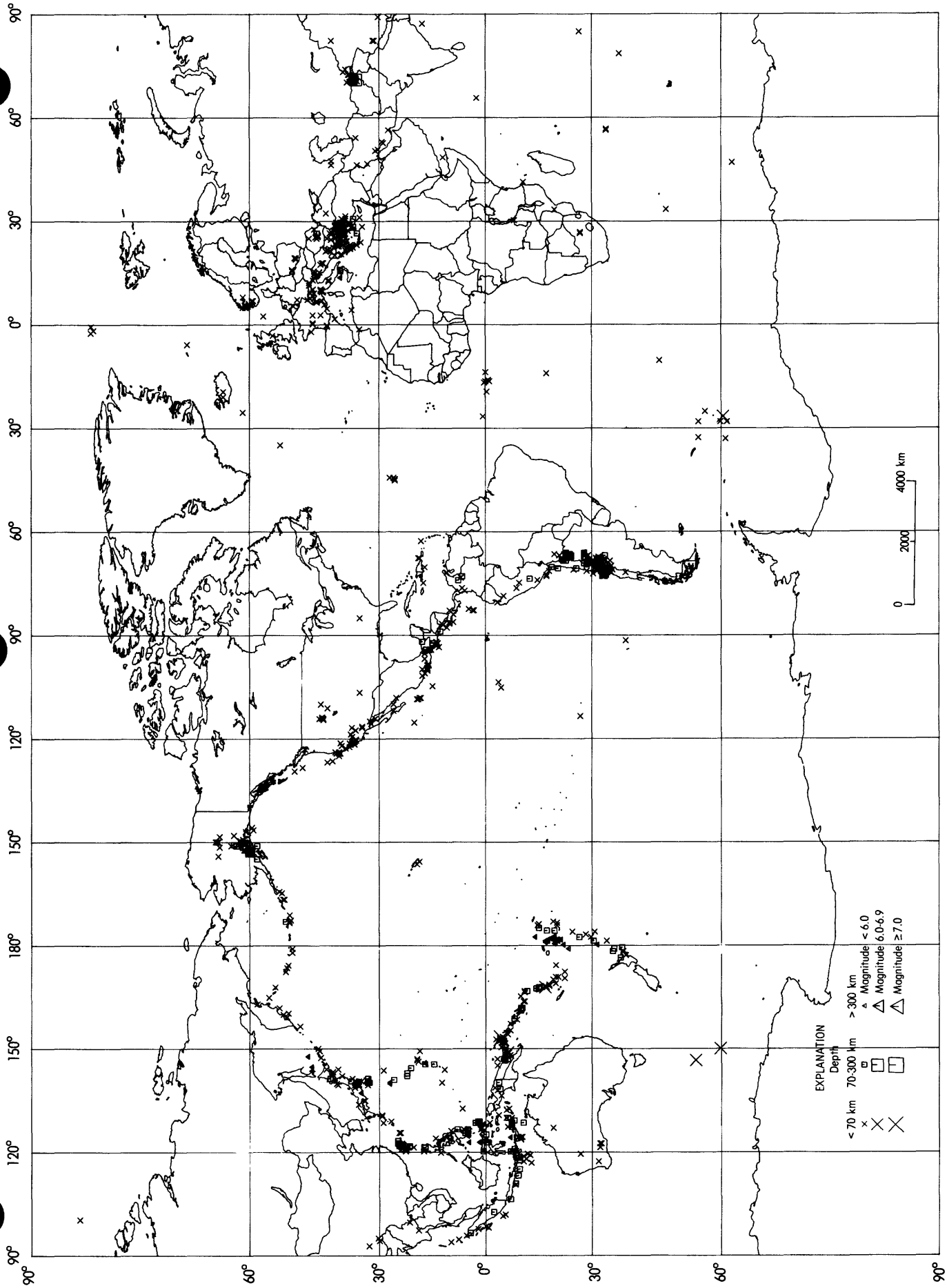




Earthquake epicenters in Alaska for July, 1985 (C. Stover).



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



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

EXPLANATION OF ABBREVIATIONS AND SYMBOLS APPEARING IN THIS PUBLICATION

Abbreviations in Heading

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

Symbols and Abbreviations Used in Comments

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

FAULT PLANE SOLUTIONS

A fault plane solution is determined when possible for any earthquake having a magnitude ≥ 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 Gaska, M., 1983, "Comparing location estimators: trimmed means, medians, and trimean" in Understanding Robust and Exploratory Data Analysis, ed. Hooglin, D.C., Mosteller, F., and Tukey, J. W., John Wiley, New York.

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

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

where:

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

T is the period in seconds.

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

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

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

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

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

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

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

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

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

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

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

ML These local magnitudes are computed according to the formula:

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

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

CONTRIBUTED MAGNITUDES

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

REFERENCES

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

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

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

WAVEFORM PLOTS

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

Each waveform will be comprised of approximately half a minute of noise followed by three minutes of signal. Absolute amplitude, in micrometers of ground displacement at the dominant period of the pass-band (25s) will be preserved to an integer scale factor. Each waveform will be identified by station code, phase name, and scale factor. Time and amplitude may be referenced to a set of axes shown in the lower right hand corner of each plot. Absolute amplitude may be recovered by measuring it relative to the amplitude axis and dividing by the scale factor.

Waveforms will primarily be selected to display variations in the P waveform as a function of azimuth. If space permits, some PKP waveforms may be shown as well. To this end, waveforms which are clipped, non-linear, or very noisy will be rejected. Further, only one of several stations at similar distance and azimuth will be used if all show similar waveforms. Note that the importance of a record in focal parameter derivation will not be considered. Thus, many seismograms will be shown which have not been used in the USGS moment tensor solution. Conversely, records which have been important in constraining one or both solutions may have been passed over for lack of space. Also note that any data on the NDT's may be used. However, not all of these data have been derived from the GDSN. For details on contributed data see the NDT Newsletter.

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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)

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REFERENCES

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

BERKELEY MOMENT

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

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

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

These solutions have been determined using the long period body and mantle wave moment tensor inversion method described by Dziewonski, et.al. (1981) 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.

3. MOMENT TENSOR. The scale factor (e.g., 10**27D-CM) is the number by which all subsequent entries related to values of the moment should be multiplied. For the moment tensor we give components in a spherical coordinate system: MRR = Mrr; MTT = $M\theta\theta$; MFF = $M\phi\phi$; MRT = $Mr\theta$; MRF = $Mr\phi$; MTF = $M\theta\phi$. In another frequently used notation: MRR = Mzz; MTT = Mxx; MFF = Myy; MRT = Mxz; MRF = -Myz; MTF = -Mxy(see Aki and Richards, 1980, p. 118). The solutions are constrained to have MRR + MTT + MFF = 0. The values following the entries for the elements of the moment tensor and centroid co-ordinates are standard errors, calculated under the usual assumption of uncorrelated errors in the data. The lateral heterogeneity of the Earth, however, clearly leads to systematic errors, and so the errors listed probably underestimate the true error in the solution.

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

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

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REFERENCES

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

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

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

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.

GPO 849-103

PRELIMINARY DETERMINATION OF EPICENTERS

MONTHLY LISTING

U.S. DEPARTMENT OF THE INTERIOR / GEOLOGICAL SURVEY

National Earthquake Information Center

A U G U S T 1 9 8 5

KEY	DAY	ORIGIN TIME UTC HR	MN	SEC	GEOGRAPHIC COORDINATES LAT		LONG		DEPTH		MAGNITUDES GS MB	Msz	SD	NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
	01	00	04	08.1&	37.867	N	122.238	W	9					10	CENTRAL CALIFORNIA. <BRK>. ML 2.3 (BRK). Mo=1.8*10**19 (BRK). Felt at Berkeley.
	01	01	02	06.4*	51.536	N	16.143	E	10	G			1.1	8	POLAND
	01	01	33	43.6*	38.B19	N	25.109	E	10	G			1.2	6	AEGEAN SEA. ML 3.0 (ATH).
	01	02	15	05.5?	43.86	N	147.69	E	133	?	4.2		1.1	18	KURIL ISLANDS. Felt (II) on Shikotan. Felt (I JMA) at Kushiro, Hokkaido.
	01	02	26	45.7*	34.480	S	70.576	W	123	?			0.2	10	CHILE-ARGENTINA BORDER REGION
	01	03	03	27.4	35.496	N	139.189	E	124		4.5		0.9	30	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Yokohama and Utsunomiya.
	01	03	53	10.3*	18.111	S	178.443	W	599		4.6		0.9	27	FIJI ISLANDS REGION
	01	04	17	10.5	36.278	N	71.060	E	73	*	5.0		1.2	28	AFGHANISTAN-USSR BORDER REGION
	01	05	27	44.1*	2.190	S	133.772	E	33	N			1.1	9	WEST IRIAN REGION
	01	05	37	53.4	7.566	S	127.585	E	129	*	4.9		0.9	65	BANDA SEA
	01	08	01	29.3	18.875	S	168.391	E	38	*	5.1		1.3	45	VANUATU ISLANDS
	01	09	10	40.5?	36.55	N	141.09	E	10	G			0.5	6	NEAR EAST COAST OF HONSHU, JAPAN
	01	09	18	21.6	36.224	N	71.467	E	109	?	4.7		0.9	14	AFGHANISTAN-USSR BORDER REGION
	01	10	03	31.6*	42.421	N	20.828	E	10	G			1.1	7	YUGOSLAVIA. ML 2.7 (TTG).
	01	10	13	53.0*	18.914	S	178.032	W	440	*	4.5		0.9	12	FIJI ISLANDS REGION
	01	11	17	35.7	45.767	N	26.659	E	121		4.7		1.0	139	ROMANIA. Felt (V) in the Vrancea regian. Alsa felt at Bucharest.
a	01	12	13	46.2	29.177	N	95.176	E	45	D	5.4	5.4	1.1	219	INDIA-CHINA BORDER REGION. Felt in the Mainling-Medog area, China.
a	01	14	35	03.1	45.711	N	26.506	E	107		5.3		1.0	238	ROMANIA. Felt (VI) in the Vrancea region and (V) at Bucharest. Also felt in northeastern Bulgaria and at Kishinev, USSR.
	01	15	15	12.6*	4.674	S	153.744	E	97	?			0.4	6	NEW IRELAND REGION
	01	15	34	08.5%	40.099	N	29.300	E	10	G			1.3	7	TURKEY
	01	16	35	31.2*	41.229	N	20.178	E	10	G			0.9	6	ALBANIA. ML 2.6 (TTG).
	01	16	53	15.4	6.646	S	148.850	E	41	*	4.3		1.1	10	NEW BRITAIN REGION
	01	17	43	30.3*	33.559	S	71.821	W	11				0.3	11	NEAR COAST OF CENTRAL CHILE
	01	17	55	20.1*	20.332	N	99.139	E	33	N			0.8	5	BURMA
	01	18	59	50.2*	51.394	N	16.151	E	10	G			1.0	10	POLAND. ML 3.3 (VKA), 3.3 (KBA).
	01	20	52	16.9*	24.467	N	123.465	E	33	N	4.6		0.1	7	SOUTHWESTERN RYUKYU ISLANDS
	01	20	54	11.9	39.983	N	21.572	E	10	G	3.7		1.1	23	GREECE. ML 3.4 (ATH).
	01	20	56	20.6*	40.035	N	21.580	E	10	G			1.5	10	GREECE. ML 3.4 (ATH).
	01	21	13	56.9	45.B57	N	10.823	E	10	G			1.4	20	NORTHERN ITALY. ML 3.3 (KBA), 2.9 (LDG).
a	01	23	15	14.8	57.725	S	25.320	W	31		5.6	4.9	0.9	121	SOUTH SANDWICH ISLANDS REGION
	01	23	54	51.5?	18.54	N	102.26	W	108	?			0.7	6	MICHOACAN, MEXICO
	02	00	47	03.3?	23.89	N	122.85	E	10	G			0.5	5	TAIWAN REGION
	02	01	26	50.2?	36.88	N	22.17	E	69	?	3.3		1.1	11	SOUTHERN GREECE
	02	01	38	12.3%	39.101	N	29.150	E	10	G			1.5	6	TURKEY
	02	02	42	27.3&	58.984	N	154.204	W	124					34	ALASKA PENINSULA. <AGS-P>.
	02	02	57	36.6	41.709	N	23.714	E	13				1.0	8	GREECE-BULGARIA BORDER REGION
a	02	03	05	47.4	24.439	S	179.800	E	506	*	5.0		1.1	51	SOUTH OF FIJI ISLANDS
	02	03	06	52.7&	61.726	N	150.844	W	69					31	SOUTHERN ALASKA. <AGS-P>.
	02	03	20	36.2	35.977	N	70.789	E	91	*	4.8		1.4	33	HINDU KUSH REGION
	02	04	34	30.8%	45.022	N	6.845	E	10	G			0.7	5	FRANCE. ML 2.5 (LDG).
	02	06	50	59.1*	13.200	N	120.342	E	56	*	4.7		1.1	22	MINDORO, PHILIPPINE ISLANDS
	02	07	42	29.0%	45.092	N	2.837	E	10	G			1.5	6	FRANCE. ML 2.4 (LDG).
f	02	07	46	53.3	36.174	N	70.780	E	120		6.1		0.9	378	HINDU KUSH REGION. mb 6.5 (PAS). Felt (V) at Kharog; (IV) at Kulyab, Dushanbe, and Obigarm; (III) at Leninabad and Samarkond; and (II) at Tashkent, USSR. Felt strongly in parts of Kashmir; felt in a large area of northern India including New Delhi. Felt in the Peshawar-Islamabad-Lahore area, Pakistan.
	02	08	12	09.4	36.414	N	71.102	E	33	N	4.5		0.9	12	AFGHANISTAN-USSR BORDER REGION
	02	08	58	08.1	27.727	S	67.486	W	162	*			0.9	16	CATAMARCA PROVINCE, ARGENTINA
	02	09	02	15.2*	34.783	N	32.151	E	33	N			0.7	6	CYPRUS

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	02	09	26	48.1	40.661	N	30.045	E	10	G		0.8	11	TURKEY
	02	10	22	31.6&	60.077	N	152.950	W	107				29	SOUTHERN ALASKA. <AGS-P>.
	02	11	58	27.2?	37.88	N	70.42	E	33	N	4.4	0.6	5	AFGHANISTAN-USSR BORDER REGION
	02	12	08	07.3?	14.84	N	95.68	E	33	N		1.4	7	ANDAMAN ISLANDS REGION
	02	12	17	00.4*	19.482	S	149 119	E	33	N		1.2	11	QUEENSLAND, AUSTRALIA
	02	12	42	12.2*	7.038	S	107.475	E	146	?	4.9	0.9	16	JAVA
	02	13	41	43.7&	60.154	N	141.030	W	8		4.2		43	SOUTHEASTERN ALASKA. <AGS-P>. ML 4.1 (PMR).
	02	14	57	30.9*	33.508	S	71.919	W	10	G		0.3	10	NEAR COAST OF CENTRAL CHILE
	02	16	49	04.5?	42.96	N	1.80	W	10	G		0.3	7	PYRENEES
	02	19	40	59.7	41.967	N	19.211	E	5	G		0.7	12	ALBANIA ML 3.1 (TTG). Felt (V) at Ulcinj, Yugoslavia.
	02	23	21	15.4*	41.877	N	26.492	E	10	G		1.4	5	GREECE-BULGARIA BORDER REGION
	02	23	27	10.7	40.185	N	77.705	E	45	*	4.8	1.2	26	KIRGHIZ-XINJIANG BORDER REGION
	03	01	43	03.6&	37.277	N	121.658	W	9				14	CENTRAL CALIFORNIA. <BRK>. ML 3.0 (BRK).
	03	07	11	47.8*	11.332	S	166.439	E	33	N	4.7	1.3	23	SANTA CRUZ ISLANDS
	03	07	38	51.5	62.993	N	149.521	W	92		4.4	1.2	35	CENTRAL ALASKA. Felt (IV) at Big Lake, Cantwell, Palmer and Denali National Park. Felt (III) at Anchorage, Cooper Landing, Fairbanks, Moose Pass, Skwentna and Willow.
	03	08	01	58.7?	5.75	S	146.89	E	33	N	3.3	1.3	6	EAST PAPUA NEW GUINEA REGION
	03	08	05	31.9?	20.73	S	68.74	W	33	N		1.0	6	CHILE-BOLIVIA BORDER REGION
	03	11	10	04.1?	31.17	S	68.64	W	128	?		0.3	6	SAN JUAN PROVINCE, ARGENTINA
a	03	11	58	15.8	36.090	N	70.774	E	102	*	5.1	1.1	134	HINDU KUSH REGION. Felt (II) at Kharag and Dushanbe, USSR.
	03	13	23	46.7%	60.519	N	5.458	E	10	G		0.2	5	SOUTHERN NORWAY
	03	13	57	11.9&	36.127	N	120.138	W	11				22	CENTRAL CALIFORNIA. <BRK>. ML 3.7 (BRK), 3.7 (PAS).
	03	14	02	00.6%	32.817	S	69.131	W	33	N		1.3	5	MENDOZA PROVINCE, ARGENTINA
	03	14	15	54.8	41.721	N	23.669	E	10	G		0.8	13	GREECE-BULGARIA BORDER REGION
	03	15	23	06.6*	49.702	S	164.156	E	33	N	4.4	1.1	8	AUCKLAND ISLANDS REGION
	03	16	45	40.3	59.724	N	152.122	W	92		4.4	1.0	89	SOUTHERN ALASKA. Felt (IV) at Homer. Also felt at Anchor Point.
	03	16	50	21.7?	49.89	S	118.71	E	10	G	4.7	0.7	9	SOUTH OF AUSTRALIA
	03	19	39	03.1*	51.088	N	15.850	E	10	G		1.2	8	POLAND. ML 3.1 (VKA), 3.0 (KBA).
	03	19	52	56.8*	51.117	N	5.685	E	10	G		0.1	5	NETHERLANDS
	03	22	10	00.2%	46.198	N	2.873	E	10	G		0.3	11	FRANCE. ML 2.4 (LDG).
	04	00	00	47.8	0.036	S	124.037	E	104	D	5.1	1.1	96	MOLUCCA SEA
	04	01	09	06.3*	24.023	S	66.804	W	226	*		1.3	9	SALTA PROVINCE, ARGENTINA
	04	02	36	23.8	7.496	N	123.500	E	36		5.9 6.2	1.2	228	MINDANAO, PHILIPPINE ISLANDS. Felt (IV RF) at Dipolog. Felt (II RF) at Damaguete, Negras.
	04	04	16	16.3*	6.485	S	148.974	E	59	?	3.9	1.3	9	NEW BRITAIN REGION
a	04	04	54	02.5	44.885	S	75.679	W	28	D	5.6 5.4	1.3	107	OFF COAST OF SOUTHERN CHILE
	04	05	49	06.4&	37.870	N	122.243	W	7				9	CENTRAL CALIFORNIA. <BRK>. ML 2.3 (BRK). Ma=1.4*10**19 (BRK). Felt at Berkeley.
	04	06	37	22.7%	40.605	N	22.933	E	10	G		0.4	6	GREECE
	04	07	15	32.2*	21.114	S	179.574	W	576	*	4.6	0.7	18	FIJI ISLANDS REGION
	04	07	33	39.1*	37.963	N	30.284	E	10	G		0.8	13	TURKEY
	04	09	05	44.0*	3.960	N	127.982	E	121	?	5.2	0.7	19	TALAUD ISLANDS
	04	09	12	50.7&	59.596	N	152.818	W	100				34	SOUTHERN ALASKA. <AGS-P>.
	04	09	20	06.3*	29.165	S	177.754	W	33	N	4.7	1.2	21	KERMADEC ISLANDS
	04	09	33	34.9?	43.28	N	8.12	E	10	G		0.1	5	CORSICA. ML 2.3 (LDG).
	04	09	50	45.8*	0.048	S	123.003	E	67	?	4.2	1.2	11	MINAHASSA PENINSULA
	04	11	25	54.7?	19.08	S	169.41	E	232	*	4.6	0.6	6	VANUATU ISLANDS
	04	11	29	16.2&	36.122	N	120.138	W	11		4.7		55	CENTRAL CALIFORNIA. <BRK>. ML 4.5 (BRK), 4.3 (PAS). Ma=9.7*10**22 (BRK). Felt in the Coalinga area.
	04	11	55	37.7?	25.41	S	179.99	W	619	?	4.4	0.9	20	SOUTH OF FIJI ISLANDS
	04	11	57	06.6	36.138	N	71.052	E	95	*	5.0	1.5	37	AFGHANISTAN-USSR BORDER REGION. Felt (III) at Ishkashim and Kharag, USSR.
a	04	12	01	57.0&	36.130	N	120.127	W	11	G	5.4 5.9		214	CENTRAL CALIFORNIA. <BRK>. ML 5.4 (BRK), 5.8 (PAS). Ma=2.3*10**24 (BRK). Six people suffered minor injuries in the Avenal area. Slight damage (VI) at Avenal, Hanford, Kettleman City and Lemoore. Felt (V) at Coalinga, Huron, Laton, Burrel, Alpaugh, Waukena, Lost Hills, Creston, Goshen, Templeton, Reedley, California Valley, Firebaugh, Clovis, Wasco, Santa Margarita, Orange Cove, Strathmore, McKittrick, Porterville, Los Osos, Tupman, Fellows, Bakersfield, Woody and Los Alamos. Felt throughout much of central California.
	04	12	08	42.5&	36.102	N	120.083	W	11	G			8	CENTRAL CALIFORNIA. <BRK>. ML 3.6 (BRK), 4.1 (PAS).
	04	12	50	39.8?	17.74	N	101.14	W	33	N		1.0	9	NEAR COAST OF GUERRERO, MEXICO
	04	13	09	20.2&	36.125	N	120.113	W	11	G			16	CENTRAL CALIFORNIA. <BRK>. ML 3.2 (BRK), 3.3 (PAS).
	04	13	18	38.4&	36.102	N	120.095	W	11	G			15	CENTRAL CALIFORNIA. <BRK>. ML 3.1 (BRK), 3.4 (PAS).
	04	13	34	37.9&	36.060	N	119.960	W	6	G			5	CENTRAL CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
	04	14	14	58.3*	35.733	N	139.790	E	33	N		1.3	6	NEAR S. COAST OF HONSHU, JAPAN
	04	15	15	40.5&	36.022	N	120.050	W	11	G	4.4		39	CENTRAL CALIFORNIA. <BRK>. ML 4.1 (BRK), 4.4 (PAS). Felt in the Coalinga area.
	04	15	23	28.5*	36.123	N	71.080	E	100	?	4.4	1.4	16	AFGHANISTAN-USSR BORDER REGION
	04	15	29	41.8*	38.789	N	21.100	E	33	N	3.5	1.0	10	GREECE. ML 3.5 (ATH).
	04	15	51	50.3&	36.050	N	119.970	W	6	G			10	CENTRAL CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
	04	16	57	31.4*	15.697	S	177.456	W	418	*	4.3	1.3	16	FIJI ISLANDS REGION
	04	17	15	59.6?	16.84	S	177.06	W	33	N	4.8	1.5	5	FIJI ISLANDS REGION
	04	17	53	38.6*	20.817	S	178.710	W	570	*	4.5	1.0	25	FIJI ISLANDS REGION
	04	18	08	14.9	35.689	N	138.746	E	177		4.6	0.8	68	HONSHU, JAPAN. Felt (II JMA) at Utsunamiya.
	04	18	57	11.5*	32.909	S	72.174	W	10	G		0.3	11	OFF COAST OF CENTRAL CHILE
	04	18	57	17.3	9.080	N	77.364	W	30	D	4.9 4.3	1.2	60	NEAR NORTH COAST OF COLOMBIA
	04	19	02	51.7	52.225	N	152.981	E	445	?	4.3	0.6	31	NORTHWEST OF KURIL ISLANDS
	04	19	20	18.1?	31.72	S	68.11	W	108	?		0.1	6	SAN JUAN PROVINCE, ARGENTINA
	04	19	31	29.2*	5.585	N	126.648	E	99	?	4.7	0.9	10	MINDANAO, PHILIPPINE ISLANDS
a	04	19	43	32.3	5.161	S	152.589	E	45	D	5.3 4.6	1.0	121	NEW BRITAIN REGION. Felt (II) at Rabaul.
	04	19	54	16.6	32.218	N	95.573	E	33	N	4.7 4.2	0.9	21	TIBET
	04	20	26	32.9*	14.831	N	98.563	E	10	G		0.7	6	SOUTH BURMA
	04	20	35	48.3?	36.08	N	141.18	E	33	N		0.8	8	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Chashi
	04	21	06	05.2	39.278	N	29.327	E	10	G		0.8	14	TURKEY
	04	22	15	00.5&	36.060	N	119.960	W	6	G			10	CENTRAL CALIFORNIA. <PAS-P>. ML 3.2 (PAS).

	04	23 43 36.8*	35.706	N	140.150	E	33	N			1.2	7	NEAR EAST COAST OF HONSHU, JAPAN
	04	23 45 52.4&	36.017	N	120.018	W	14	G				13	CENTRAL CALIFORNIA. <BRK>. ML 3.0 (BRK), 3.1 (PAS).
	05	00 07 21.8	10.057	S	66.539	E	10	G	4.9	4.7	1.0	49	MID-INDIAN RISE
	05	00 35 38.6*	32.939	S	70.257	W	128	?			0.6	13	CHILE-ARGENTINA BORDER REGION
	05	01 10 52.8*	64.745	S	175.453	E	10	G	5.4	5.2	1.0	18	BALLENY ISLANDS REGION
	05	01 24 27.7	21.654	N	142.920	E	314		4.9		0.7	84	MARIANA ISLANDS REGION
	05	02 19 29.9?	17.18	N	98.33	W	127	*	4.4		0.9	17	GUERRERO, MEXICO
	05	03 12 09.5&	61.225	N	150.276	W	47					29	SOUTHERN ALASKA. <AGS-P>.
	05	04 22 21.2*	33.570	S	71.855	W	10	G			1.1	13	NEAR COAST OF CENTRAL CHILE
	05	05 28 25.8*	15.182	S	177.524	W	33	N	4.6		1.1	16	FIJI ISLANDS REGION
	05	05 31 55.7*	41.481	S	85.697	W	10	G	4.9	5.0	1.0	15	WEST CHILE RISE
	05	05 51 48.3*	43.360	N	126.643	W	10	G	4.6		1.3	16	OFF COAST OF OREGON
	05	06 19 34.2*	36.516	N	71.224	E	33	N	4.7	3.9	1.4	11	AFGHANISTAN-USSR BORDER REGION
	05	07 51 20.4	43.086	N	0.411	W	11				0.4	13	PYRENEES. ML 3.3 (LDG).
	05	08 38 46.3	36.582	S	147.468	E	33	N	3.4		1.1	11	VICTORIA, AUSTRALIA. ML 4.1 (BFD), 4.2 (CMS), 4.3 (RIV).
	05	10 09 26.5	42.139	N	142.381	E	45		4.5	4.2	1.1	16	HOKKAIDO, JAPAN REGION
	05	10 14 31.5	36.302	N	70.639	E	133	*	4.6		1.2	13	HINDU KUSH REGION. Felt (III) at Dzhirgatal, USSR.
	05	10 27 43.3?	39.69	S	73.75	W	33	N	4.6		1.2	9	NEAR COAST OF CENTRAL CHILE
	05	10 53 17.9*	16.996	N	93.050	W	33	N	3.6		1.5	6	CHIAPAS, MEXICO
	05	12 31 31.0?	37.16	N	139.29	E	33	N			1.1	6	HONSHU, JAPAN
	05	12 34 34.2?	24.18	N	122.41	E	10	G			0.7	6	TAIWAN REGION. Felt on eastern Taiwan.
	05	13 00 39.3	24.394	N	121.886	E	10	G	5.2	5.5	1.4	78	TAIWAN. Felt on eastern Taiwan.
	05	13 02 35.1?	24.38	N	121.79	E	10	G	4.8		0.5	6	TAIWAN. Felt on eastern Taiwan.
	05	13 18 20.0	24.419	N	121.996	E	10	G	4.4		1.5	24	TAIWAN. Felt on eastern Taiwan.
	05	14 45 39.0&	36.112	N	120.063	W	8	G	4.4			40	CENTRAL CALIFORNIA. <BRK>. ML 4.2 (BRK), 4.4 (PAS). Felt (IV) at Avenal and (III) at Huron. Also felt in the Coalinga area.
	05	15 21 05.1*	24.383	N	121.999	E	10	G			1.0	11	TAIWAN
	05	15 22 25.5&	36.108	N	120.052	W	9	G				18	CENTRAL CALIFORNIA. <BRK>. ML 3.3 (BRK), 3.5 (PAS).
	05	15 24 23.7	35.982	N	71.501	E	145	*	4.6		0.9	12	PAKISTAN
	05	16 23 14.4*	22.455	S	67.824	W	188				0.9	14	CHILE-BOLIVIA BORDER REGION
	05	16 34 09.8*	41.000	N	21.009	E	5	G			1.3	8	GREECE
	05	17 29 32.4	19.954	S	174.676	W	57	D	4.7		0.9	40	TONGA ISLANDS
	05	18 27 39.7%	31.624	S	67.961	W	33	N			0.6	5	SAN JUAN PROVINCE, ARGENTINA
	05	18 35 13.0*	4.420	S	152.781	E	33	N	4.5		0.9	9	NEW BRITAIN REGION
	05	20 23 37.2	53.615	N	160.388	E	33	N	5.0		0.8	65	NEAR EAST COAST OF KAMCHATKA
	05	21 26 07.9*	36.744	N	142.033	E	54		4.6		0.7	22	OFF EAST COAST OF HONSHU, JAPAN
	05	21 32 50.6&	60.573	N	147.483	W	17					37	SOUTHERN ALASKA. <AGS-P>.
	05	21 46 56.8*	38.501	S	47.724	E	10	G	4.7		0.8	12	ATLANTIC-INDIAN RISE
	05	22 51 32.7?	33.51	S	71.85	W	33	N			1.0	10	NEAR COAST OF CENTRAL CHILE
	05	23 15 22.2%	39.478	N	29.135	E	10	G			0.6	6	TURKEY
a	06	00 14 35.9	20.083	S	178.318	W	607		5.1		1.1	91	FIJI ISLANDS REGION
a	06	02 29 44.1*	41.192	S	85.894	W	10	G	4.9	5.3	1.3	46	WEST CHILE RISE
	06	02 41 00.1?	31.20	S	177.65	W	33	N	5.4		0.7	9	KERMADEC ISLANDS REGION
	06	03 02 55.2*	50.823	N	129.889	W	10	G	4.2		0.9	15	VANCOUVER ISLAND REGION
	06	03 45 36.2&	35.430	N	117.740	W	12					8	CENTRAL CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	06	05 27 03.6*	36.805	N	71.168	E	33	N	4.5		1.0	8	AFGHANISTAN-USSR BORDER REGION
a	06	05 58 54.1	36.378	N	140.977	E	52		5.3	4.6	0.9	156	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Mito and Choshi, (II JMA) at Tokyo, Onahama and Utsunomiyo, (I JMA) at Fukushima and Yokohama.
	06	07 26 48.8?	37.37	N	15.92	E	33	N			1.0	14	SICILY
	06	09 23 01.1*	24.372	N	121.853	E	10	G			0.4	6	TAIWAN
	06	12 15 34.3*	10.333	S	164.551	E	33	N	4.4		1.3	17	SANTA CRUZ ISLANDS REGION
	06	12 28 44.5*	18.912	S	168.277	E	33	N	4.8		1.2	15	VANUATU ISLANDS
	06	12 53 56.3&	31.680	N	115.910	W	6	G				10	BAJA CALIFORNIA. <PAS-P>. ML 4.2 (PAS).
	06	13 27 58.4*	6.979	S	154.629	E	29		5.0		1.2	21	SOLOMON ISLANDS
	06	13 53 31.3	49.363	N	116.706	W	5	G			0.9	24	BRITISH COLUMBIA. ML 3.6 (NEIS), 4.0 (PGC). Felt at Trail and Creston, British Columbia. Felt (IV) at Cusick, Washington and Nordman, Idaho. Felt (III) at Ione, Newport, Metaline and Usk, Washington. Also felt at Priest River and Porthill, Idaho.
	06	14 16 22.2*	43.155	N	27.403	E	10	G			1.5	7	BULGARIA
	06	14 25 58.7	43.097	N	27.397	E	10	G			1.3	18	BULGARIA
	06	15 03 02.0	19.695	N	121.372	E	61	*	4.5		0.8	25	PHILIPPINE ISLANDS REGION. Felt (III RF) on Calayan Island.
	06	15 13 18.6	6.868	S	154.564	E	32		4.7		0.9	18	SOLOMON ISLANDS
	06	15 40 36.8*	6.620	S	154.576	E	33	N	4.0		0.7	5	SOLOMON ISLANDS
	06	15 54 33.7*	8.475	S	113.828	E	33	N	4.3		1.5	5	JAVA
	06	16 37 57.6	19.683	N	121.357	E	70	*	4.5		0.9	28	PHILIPPINE ISLANDS REGION. Felt (III RF) on Calayan Island
	06	18 11 13.9&	36.060	N	119.990	W	6	G				13	CENTRAL CALIFORNIA. <PAS-P>. ML 2.7 (BRK), 3.0 (PAS).
	06	18 36 52.7&	38.825	N	122.820	W	1	G				12	NORTHERN CALIFORNIA. <BRK>. ML 3.0 (BRK).
	06	19 32 00.8?	44.06	N	114.19	W	5	G			1.0	8	WESTERN IDAHO. ML 2.8 (NEIS).
	06	19 45 32.8	31.408	S	67.937	W	10	G			1.4	14	SAN JUAN PROVINCE, ARGENTINA
	06	19 57 28.7?	15.06	N	94.32	W	33	N	3.2		0.9	7	NEAR COAST OF OAXACA, MEXICO
	06	21 40 29.4*	36.623	N	8.503	E	33	N			0.8	15	TUNISIA
	06	23 23 19.3*	36.655	N	71.624	E	33	N	4.6		1.0	10	AFGHANISTAN-USSR BORDER REGION
	07	00 16 04.5&	35.992	N	120.115	W	11		4.1			45	CENTRAL CALIFORNIA. <BRK>. ML 4.1 (BRK), 4.4 (PAS). Felt (V) at Avenal.
	07	00 28 12.7&	36.030	N	120.090	W	6	G				14	CENTRAL CALIFORNIA. <PAS-P>. ML 2.9 (BRK), 3.3 (PAS).
	07	00 45 35.5&	40.937	N	123.185	W	20	G				7	NORTHERN CALIFORNIA. <BRK>. ML 3.2 (BRK).
	07	01 32 05.5	35.562	N	140.144	E	76		4.6		1.1	27	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro, Tokyo, Yokohama and Utsunomiyo.
	07	02 51 04.3*	22.229	S	67.286	W	207		4.5		1.1	15	CHILE-BOLIVIA BORDER REGION
	07	03 17 32.6*	53.620	N	164.958	W	33	N	4.8		1.1	21	UNIMAK ISLAND REGION
a	07	03 38 14.4	20.618	S	169.732	E	102	*	5.4		1.0	42	VANUATU ISLANDS
	07	03 54 31.9&	61.789	N	148.892	W	13					42	SOUTHERN ALASKA. <AGS-P>. ML 3.5 (PMR). Felt (II) at Chickaloon.
	07	04 48 30.7	36.075	N	139.858	E	33	N			0.6	11	HONSHU, JAPAN. Felt (II JMA) at Utsunomiyo, (I JMA) at Kumagaya and Mito.
	07	05 10 10.6	35.997	N	139.541	E	67	*	4.2		1.0	13	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Utsunomiyo and Kumagaya, (I JMA) at Tokyo and Mito.

a	07	06	24	06.4	0.147	N	120.382	E	70	D	5.4	1.0	145	MINAHASSA PENINSULA
	07	07	10	33.2&	42.108	N	112.328	W	7	G			7	EASTERN IDAHO. <SLC-P>. ML 2.5 (NEIS). Felt at Samaria.
	07	07	27	07.4?	37.81	N	17.64	E	10	G		1.4	5	IONIAN SEA
	07	08	43	02.0*	36.606	N	71.239	E	33	N	4.4	1.1	9	AFGHANISTAN-USSR BORDER REGION
	07	08	52	15.4*	33.845	S	68.313	W	33	N		1.3	10	MENDOZA PROVINCE, ARGENTINA
	07	09	00	25.4	19.150	S	169.323	E	262		5.1	1.0	73	VANUATU ISLANDS
	07	10	02	14.0*	33.139	S	71.958	W	33	N		1.5	17	NEAR COAST OF CENTRAL CHILE. Felt (II) at Santiago.
	07	10	55	21.7	36.161	N	120.071	W	10	G		0.7	10	CENTRAL CALIFORNIA. ML 2.7 (BRK).
	07	11	10	28.7	33.087	S	72.043	W	33	N	4.5	1.2	25	OFF COAST OF CENTRAL CHILE. Felt (II) at Santiago.
	07	11	35	20.4*	17.281	S	178.016	W	423	*	4.6	1.1	18	FIJI ISLANDS REGION
	07	12	42	31.9&	59.362	N	153.396	W	119				50	SOUTHERN ALASKA. <AGS-P>.
	07	13	21	46.5	18.922	S	168.370	E	33	N	5.2	1.3	54	VANUATU ISLANDS
	07	14	28	29.4*	50.868	N	129.994	W	10	G	4.2	1.2	19	VANCOUVER ISLAND REGION
	07	14	38	11.5*	1.608	N	127.137	E	108	?	5.1	1.3	12	HALMAHERA
	07	15	39	27.1&	37.945	N	122.053	W	5				8	CENTRAL CALIFORNIA. <BRK>. ML 2.1 (BRK). Ma=3.3*10**19 (BRK). Felt in the Martinez-Pleasant Hill area.
o	07	15	43	22.8	27.840	N	53.040	E	15	D	5.5 5.2	1.2	191	SOUTHERN IRAN. Two people injured and extensive damage at Mahmeleh.
	07	16	06	21.7*	9.671	S	117.815	E	75	*	5.1	1.3	18	SUMBAWA ISLAND REGION
	07	16	55	22.3&	61.559	N	151.647	W	85				37	SOUTHERN ALASKA. <AGS-P>.
a	07	17	42	39.9	19.504	S	178.027	W	626	D	5.4	1.1	52	FIJI ISLANDS REGION
	07	18	17	01.1%	39.090	N	28.137	E	10	G		1.0	9	TURKEY
	07	18	50	42.8%	42.063	N	19.256	E	10	G		0.3	6	YUGOSLAVIA
	07	21	13	50.2?	45.24	S	75.78	W	33	N		0.9	8	OFF COAST OF SOUTHERN CHILE
	07	21	28	44.2&	35.490	N	116.270	W	6	G			5	CENTRAL CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	07	23	11	40.8&	61.179	N	149.488	W	41				39	SOUTHERN ALASKA. <AGS-P>.
	07	23	16	44.9*	61.272	N	149.617	W	33	N		0.4	5	SOUTHERN ALASKA. ML 2.7 (PMR). Felt (II) at Anchorage.
	07	23	55	37.5	39.158	N	21.749	E	10	G		0.8	9	GREECE. ML 3.3 (ATH).
	08	00	00	24.1	24.004	S	66.908	W	217	*		1.3	17	SALTA PROVINCE, ARGENTINA
	08	00	07	07.3?	41.17	S	43.95	E	10	G	4.5	0.6	7	PRINCE EDWARD ISLANDS REGION
	08	00	09	40.0*	24.530	N	122.030	E	10	G		0.4	5	TAIWAN REGION
	08	00	32	35.4?	41.55	N	33.20	E	10	G		1.0	12	TURKEY
	08	00	42	03.5	10.401	N	126.055	E	69	*	4.8	1.2	31	PHILIPPINE ISLANDS REGION
	08	01	56	43.7	40.424	N	23.863	E	10	G		1.2	18	GREECE
	08	02	55	58.0*	35.936	N	139.787	E	83	?		0.5	7	NEAR S. COAST OF HONSHU, JAPAN
	08	04	26	33.0*	24.416	N	121.834	E	10	G	3.7	0.8	6	TAIWAN
	08	04	55	49.8*	54.190	N	161.067	E	73	D	4.3	0.5	10	NEAR EAST COAST OF KAMCHATKA
	08	05	35	23.8*	35.325	N	139.410	E	125		4.3	0.7	12	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Takya, Yokahama and Ajira.
	08	05	54	56.9*	21.089	S	67.200	W	254	?		0.6	7	CHILE-BOLIVIA BORDER REGION
	08	06	06	41.3*	33.109	S	72.073	W	33	N	4.4	1.2	21	OFF COAST OF CENTRAL CHILE. Felt (II) at Santiago.
	08	07	20	39.6?	36.10	S	74.34	W	33	N	4.5	1.3	12	OFF COAST OF CENTRAL CHILE
	08	07	24	47.0?	32.63	N	72.44	E	33	N		0.3	5	PAKISTAN
	08	08	42	35.6&	62.049	N	151.363	W	77				22	CENTRAL ALASKA. <AGS-P>.
	08	09	13	01.3	3.802	S	128.521	E	117		5.0	1.1	33	CERAM
	08	09	19	15.6?	31.93	S	70.12	W	129	?		0.3	6	CHILE-ARGENTINA BORDER REGION
	08	09	24	19.7&	60.289	N	153.356	W	160				38	SOUTHERN ALASKA. <AGS-P>. Felt at Homer.
	08	14	59	21.7*	30.182	N	141.339	E	50	*	4.8	1.1	24	SOUTH OF HONSHU, JAPAN
f	08	16	18	02.6	6.102	S	113.491	E	592	D	5.7	1.0	235	JAVA
a	08	16	29	57.9	6.097	S	113.441	E	596	D	5.6	1.1	202	JAVA
	08	17	17	43.1	6.195	S	113.459	E	586		5.1	1.1	116	JAVA
	08	18	33	02.2&	59.059	N	137.191	W	27				10	SOUTHEASTERN ALASKA. <AGS-P>.
	08	19	05	18.7	44.566	N	9.729	E	27			1.0	37	NORTHERN ITALY. ML 3.6 (LDG), 3.4 (TRI).
	08	19	50	04.2*	19.724	S	68.498	W	33	N		0.7	5	CHILE-BOLIVIA BORDER REGION
	08	20	57	49.7?	25.28	N	102.36	W	33	N		1.8	6	NORTHERN MEXICO
	08	21	09	08.6%	43.116	N	18.951	E	5	G		0.6	5	YUGOSLAVIA. ML 2.4 (TTG).
	08	21	15	01.3*	62.036	N	148.681	W	15	G		1.5	6	CENTRAL ALASKA. ML 2.8 (PMR). Felt at Chickaloon.
	08	21	38	45.0&	58.465	N	154.739	W	0				33	ALASKA PENINSULA. <AGS-P>. ML 3.7 (PMR).
	08	21	43	10.0	6.126	S	130.364	E	176	*	5.1	1.0	54	BANDA SEA
	08	22	21	01.8?	61.80	N	148.45	W	15	G		0.3	4	SOUTHERN ALASKA. ML 2.6 (PMR). Felt at Chickaloon.
a	08	22	26	16.9*	61.556	S	154.348	E	10	G	5.2 5.2	1.1	29	BALLENY ISLANDS REGION
	08	22	32	02.1*	37.899	N	12.771	E	10	G	4.0	1.1	31	SICILY. Felt on Sicily.
	08	22	50	14.4	8.291	S	76.237	W	52	*	4.9	1.0	35	PERU
	08	23	59	25.6	5.684	S	153.109	E	33	N	5.2	1.1	33	NEW IRELAND REGION
	09	00	06	38.3&	58.370	N	155.138	W	20				24	ALASKA PENINSULA. <AGS-P>.
	09	00	57	49.7	31.555	S	67.092	W	134		5.0	1.2	58	SAN JUAN PROVINCE, ARGENTINA. Felt (III) at San Juan and Mendoza. Felt also at Buenos Aires.
	09	01	31	08.4*	16.990	N	96.179	W	33	N	3.5	0.5	6	OAXACA, MEXICO
	09	02	08	00.5*	25.189	N	141.056	E	197	?	4.7	1.2	28	VOLCANO ISLANDS REGION
	09	04	17	50.2&	58.413	N	154.971	W	33				25	ALASKA PENINSULA. <AGS-P>.
	09	04	44	28.2	31.697	S	139.313	E	33	N		1.4	12	SOUTH AUSTRALIA
	09	05	00	40.5%	40.389	N	28.387	E	10	G		1.0	7	TURKEY
	09	05	51	23.2	31.619	S	67.056	W	136		4.5	1.0	46	SAN JUAN PROVINCE, ARGENTINA. Felt (II) at Mendoza. Also felt at San Juan.
a	09	06	09	15.3	15.315	S	174.620	W	208	D	5.4	0.9	244	TONGA ISLANDS
	09	07	42	06.7	40.340	N	28.399	E	9			0.5	12	TURKEY
	09	08	08	37.8	37.145	N	23.263	E	58	*	4.3	0.9	47	SOUTHERN GREECE
	09	08	47	10.0&	36.110	N	119.950	W	6	G			15	CENTRAL CALIFORNIA. <PAS-P>. ML 2.9 (BRK), 3.3 (PAS).
	09	09	00	36.5&	36.110	N	119.950	W	6	G			11	CENTRAL CALIFORNIA. <PAS-P>. ML 2.6 (BRK), 3.1 (PAS).
	09	09	31	21.2&	36.100	N	119.950	W	6	G			12	CENTRAL CALIFORNIA. <PAS-P>. ML 2.8 (BRK), 3.4 (PAS).
a	09	09	32	06.5	6.912	S	129.389	E	181		5.5	1.1	89	BANDA SEA
	09	09	33	09.0&	36.110	N	119.950	W	6	G			11	CENTRAL CALIFORNIA. <PAS-P>. ML 2.9 (BRK), 3.4 (PAS).
	09	09	55	07.6&	36.050	N	119.950	W	6	G			15	CENTRAL CALIFORNIA. <PAS-P>. ML 2.7 (BRK), 3.3 (PAS).
	09	10	27	38.0?	34.13	S	71.54	W	10	G		1.4	10	NEAR COAST OF CENTRAL CHILE
	09	11	15	34.5&	36.082	N	120.003	W	8	G			14	CENTRAL CALIFORNIA. <BRK>. ML 3.0 (BRK), 3.3 (PAS).
	09	12	42	20.2&	36.077	N	120.118	W	8	G			17	CENTRAL CALIFORNIA. <BRK>. ML 3.6 (BRK), 3.6 (PAS).
a	09	13	03	10.6	52.424	N	173.648	E	38		5.5 4.9	0.9	205	NEAR ISLANDS, ALEUTIAN ISLANDS. ML 5.4 (PMR). Felt (IV) on Shemya.
	09	14	03	50.5*	35.273	N	139.879	E	33	N		1.4	5	NEAR S. COAST OF HONSHU, JAPAN
	09	14	41	45.9%	41.855	N	19.839	E	10	G		0.3	6	ALBANIA
	09	14	58	24.1*	30.425	N	138.376	E	443	*	4.1	0.6	13	SOUTH OF HONSHU, JAPAN
	09	15	22	02.3%	29.027	S	67.382	W	33	N		0.2	5	LA RIOJA PROVINCE, ARGENTINA
	09	15	23	54.8*	28.968	N	139.431	E	428	*	4.2	0.7	22	BONIN ISLANDS REGION

	09	16	35	55.7	0.426	N	125.451	E	90	*	5.1		1.1	32	MOLUCCA PASSAGE
	09	16	39	20.2*	5.433	S	104.825	E	33	N	5.1		1.2	14	SOUTHERN SUMATERA
	09	17	38	58.1*	32.193	S	178.731	W	33	N	4.9		1.4	16	SOUTH OF KERMADEC ISLANDS
a	09	19	59	44.0	16.900	N	120.186	E	22	D	5.8	6.1	1.1	263	LUZON, PHILIPPINE ISLANDS. Felt (V RF) at Baguio, (IV RF) at Pasuquin and Santa, (III RF) at Manila and (II RF) at Quezan City.
	09	20	35	12.3	12.489	N	125.909	E	38	*	5.1		1.1	48	SAMAR, PHILIPPINE ISLANDS
	09	20	59	46.4*	31.256	S	68.291	W	120	*			1.2	12	SAN JUAN PROVINCE, ARGENTINA
	09	21	49	46.8	38.271	N	12.836	E	10	G	4.6		1.3	42	SICILY
	09	22	08	28.5%	60.493	N	4.940	E	10	G			0.1	5	SOUTHERN NORWAY. DUR 1.6 (BER).
	09	22	24	07.1	56.172	N	162.740	E	28	D	5.1	4.5	1.0	94	NEAR EAST COAST OF KAMCHATKA
	09	22	32	25.6&	59.911	N	152.892	W	104					29	SOUTHERN ALASKA. <AGS-P>.
	09	23	07	02.4	56.267	N	162.592	E	32	D	4.7		0.7	25	NEAR EAST COAST OF KAMCHATKA
	10	00	16	47.8*	31.176	S	68.337	W	33	N			1.0	5	SAN JUAN PROVINCE, ARGENTINA
	10	00	36	49.8%	31.893	S	67.676	W	10	G			0.5	6	SAN JUAN PROVINCE, ARGENTINA
	10	01	51	52.7	40.643	N	23.116	E	10	G			0.9	10	GREECE
	10	01	58	27.8	5.573	S	151.306	E	33	N	4.6		1.1	18	NEW BRITAIN REGION
	10	02	04	55.3*	11.006	N	140.387	E	33	N	4.5		1.5	17	WEST CAROLINE ISLANDS
	10	02	35	31.6	49.163	N	127.778	W	10	G	4.4		0.9	27	VANCOUVER ISLAND REGION
	10	03	25	22.4%	31.443	S	68.498	W	33	N			0.5	5	SAN JUAN PROVINCE, ARGENTINA
a	10	04	12	46.3	6.014	S	105.393	E	94	*	5.3		1.2	139	SUNDA STRAIT
	10	06	29	49.3&	59.955	N	153.075	W	100					22	SOUTHERN ALASKA. <AGS-P>.
	10	07	24	52.7	30.640	S	121.456	E	10	G			0.3	6	WESTERN AUSTRALIA. Felt at Kalgoarlie.
a	10	07	32	31.6*	15.235	S	66.852	E	10	G	4.8	4.8	1.1	25	MID-INDIAN RISE
	10	08	22	58.6?	33.41	S	72.92	W	33	N			0.5	9	OFF COAST OF CENTRAL CHILE
	10	09	21	11.1?	20.23	N	120.66	E	33	N	4.4		1.3	5	PHILIPPINE ISLANDS REGION
	10	09	41	27.5?	2.88	S	79.95	W	33	N			1.0	5	NEAR COAST OF ECUADOR
	10	10	54	55.6%	33.500	S	71.091	W	33	N			0.7	5	NEAR COAST OF CENTRAL CHILE
	10	11	18	08.2%	40.345	N	28.365	E	10	G			0.7	8	TURKEY
	10	11	20	00.8%	40.328	N	28.374	E	10	G			1.0	6	TURKEY
	10	11	57	20.0*	36.810	N	139.670	E	10	G			0.5	6	HONSHU, JAPAN
	10	12	56	12.8	33.888	N	74.744	E	33	N	4.7		1.4	26	SOUTHWESTERN KASHMIR
	10	12	57	36.5?	39.74	N	30.16	E	10	G			0.6	6	TURKEY
	10	13	08	02.4*	5.501	S	144.793	E	33	N	3.4		1.0	6	PAPUA NEW GUINEA
	10	13	09	48.3	5.561	S	151.372	E	33	N	4.8		1.4	17	NEW BRITAIN REGION
	10	13	16	55.4*	49.182	N	127.758	W	10	G	4.5		1.7	9	VANCOUVER ISLAND REGION
	10	13	29	52.6?	28.01	N	53.46	E	33	N	4.6	4.1	1.2	8	SOUTHERN IRAN
	10	13	47	32.4*	38.980	N	29.019	E	10	G			1.2	12	TURKEY
	10	15	27	44.9*	17.006	N	120.395	E	33	N	4.5		1.3	9	LUZON, PHILIPPINE ISLANDS. Felt (I RF) at Baguio.
a	10	16	36	08.2	4.249	S	152.877	E	32	D	5.7	5.5	0.9	265	NEW BRITAIN REGION. Felt (V) at Rabaul.
	10	17	02	12.0	8.780	N	148.075	E	33	N	5.2		1.3	32	CAROLINE ISLANDS REGION
	10	17	30	30.2*	39.677	N	118.896	E	10	G			1.3	5	NORTHEASTERN CHINA
	10	18	29	15.0?	39.75	N	118.91	E	33	N			1.0	4	NORTHEASTERN CHINA
	10	19	04	24.0?	32.11	N	138.69	E	308	*	3.9		0.4	8	SOUTH OF HONSHU, JAPAN
	10	19	43	42.9?	29.56	S	71.91	W	33	N			1.3	12	NEAR COAST OF CENTRAL CHILE
	10	20	09	42.9	7.396	S	156.284	E	60		4.7		1.0	32	SOLOMON ISLANDS
	10	20	58	28.6	29.884	S	71.652	W	166	?			0.8	15	NEAR COAST OF CENTRAL CHILE
	10	22	34	52.3*	31.013	S	69.176	W	56	?			1.8	5	SAN JUAN PROVINCE, ARGENTINA
	10	23	20	03.0	11.051	N	140.178	E	33	N	5.0		1.2	45	WEST CAROLINE ISLANDS
	11	00	01	02.2?	31.45	S	68.56	W	113	?			0.1	5	SAN JUAN PROVINCE, ARGENTINA
f	11	00	19	01.5	11.156	N	140.217	E	24	D	5.8	6.0	1.1	219	WEST CAROLINE ISLANDS. Ms 5.8 (BRK).
	11	00	25	27.4	11.169	N	140.315	E	33	N	5.2		1.2	34	WEST CAROLINE ISLANDS
	11	00	33	55.9&	62.272	N	151.035	W	77					15	CENTRAL ALASKA. <AGS-P>.
	11	01	07	55.4	31.341	S	67.995	W	10	G			0.7	7	SAN JUAN PROVINCE, ARGENTINA
	11	02	23	18.0?	28.89	N	130.56	E	80	*	4.7		1.0	9	RYUKYU ISLANDS
	11	04	57	38.5*	36.541	N	71.214	E	33	N	4.5		1.3	10	AFGHANISTAN-USSR BORDER REGION
	11	05	33	27.7*	26.661	S	26.394	E	5	G			1.5	6	REPUBLIC OF SOUTH AFRICA
	11	06	30	25.3&	36.150	N	120.100	W	6	G				13	CENTRAL CALIFORNIA. <PAS-P>. ML 2.7 (BRK), 3.2 (PAS).
	11	06	51	33.2*	5.100	S	150.585	E	33	N	3.5		0.7	6	NEW BRITAIN REGION
	11	06	52	33.4?	24.41	N	121.95	E	10	G			0.8	5	TAIWAN
	11	07	01	28.2	4.466	S	152.896	E	44	*			1.2	14	NEW BRITAIN REGION
	11	07	27	56.8*	46.498	S	96.074	E	10	G	4.7	5.1	1.3	23	SOUTHEAST INDIAN RISE
	11	08	07	43.0*	4.184	S	152.857	E	50	*	4.3		1.0	10	NEW BRITAIN REGION
	11	08	42	52.5?	24.44	N	121.94	E	10	G			0.8	5	TAIWAN
	11	09	09	12.0*	6.918	N	73.080	W	152	*	4.2		1.4	16	NORTHERN COLOMBIA
	11	09	27	48.5%	31.405	S	68.157	W	10	G			0.5	6	SAN JUAN PROVINCE, ARGENTINA
	11	09	44	11.0	26.300	S	27.273	E	5	G			1.0	8	REPUBLIC OF SOUTH AFRICA
f	11	09	59	44.1	54.139	N	168.731	E	50	D	5.9	5.8	1.0	382	KOMANDORSKY ISLANDS REGION. Ms 6.0 (BRK), 6.0 (PAS).
	11	13	00	33.9?	33.30	S	71.50	W	33	N			1.4	7	NEAR COAST OF CENTRAL CHILE
	11	14	04	36.8	22.263	S	69.810	W	85	D	4.9		1.2	21	NORTHERN CHILE
	11	15	43	30.5%	40.094	N	29.322	E	10	G			0.6	8	TURKEY
a	11	16	06	01.6	36.126	N	95.632	E	33	N	5.4	4.4	1.0	169	QINGHAI PROVINCE, CHINA
	11	16	45	27.2?	61.73	N	4.27	E	10	G			0.2	5	SOUTHERN NORWAY. DUR 2.6 (BER).
	11	17	24	05.4&	60.152	N	152.800	W	105					31	SOUTHERN ALASKA. <AGS-P>.
	11	17	43	20.8	33.371	S	68.425	W	10	G			0.4	9	MENDOZA PROVINCE, ARGENTINA
	11	17	45	54.8%	31.392	S	68.610	W	10	G			0.5	5	SAN JUAN PROVINCE, ARGENTINA
	11	19	36	00.8*	13.787	N	121.420	E	33	N	4.5		1.0	10	MINDORO, PHILIPPINE ISLANDS
	11	20	59	21.9%	38.743	N	27.786	E	10	G			0.2	5	TURKEY
	11	21	22	54.2*	24.423	N	121.844	E	10	G			0.7	5	TAIWAN
	11	23	38	50.2?	24.35	N	122.26	E	10	G			0.5	5	TAIWAN REGION
	12	00	04	00.9?	24.08	N	122.70	E	10	G			0.5	6	TAIWAN REGION
a	12	00	04	51.4	38.378	S	73.495	W	33	N	5.6	6.0	1.2	151	NEAR COAST OF CENTRAL CHILE. Ms 5.9 (PAS), 5.8 (BRK). Felt (III) at Valparaisa and Vina del Mar. Felt alsa at Santiago.
	12	00	21	33.3	24.837	N	121.762	E	32		4.4		1.3	16	TAIWAN. Felt in nartheastern Taiwan.
	12	00	37	46.5?	24.79	N	122.11	E	10	G			0.7	5	TAIWAN REGION
	12	00	51	52.3*	5.668	S	105.857	E	33	N	4.6		0.8	11	SUNDA STRAIT
	12	01	23	29.2?	38.16	N	8.98	E	10	G			0.6	8	WESTERN MEDITERRANEAN SEA
	12	01	31	50.5	38.335	S	73.639	W	33	N	4.6		0.9	22	NEAR COAST OF CENTRAL CHILE
	12	01	50	16.9?	48.04	N	6.57	E	10	G			0.1	4	FRANCE. ML 2.2 (LDG).
	12	02	00	48.6*	38.123	N	22.131	E	33	N			1.3	6	GREECE. ML 3.1 (ATH).
	12	02	11	09.6*	38.628	S	73.679	W	33	N	4.5		1.1	25	NEAR COAST OF CENTRAL CHILE
	12	02	18	00.3?	44.29	N	9.18	E	10	G			1.1	6	NORTHERN ITALY

	12	02	33	19.9	19.944	N	121.200	E	28		5.0	4.3	1.3	70	PHILIPPINE ISLANDS REGION. Felt (II RF) on Coloyan Island.
	12	02	49	06.4?	44.45	S	75.32	W	33	N	4.6		1.5	14	OFF COAST OF SOUTHERN CHILE
	12	02	54	42.6	39.922	N	39.811	E	20	*	4 9	4.1	0.9	134	TURKEY. Thirteen houses destroyed and 20 others damaged in the Kelkit-Baskoy area. Felt along the Black Sea coast.
	12	02	55	12.7*	38 407	S	73.590	W	33	N	4 4		0 9	12	NEAR COAST OF CENTRAL CHILE
	12	03	17	16 4*	36.226	N	70.973	E	69	?	4.2		1.5	11	HINDU KUSH REGION
	12	03	26	51.7	40.748	N	23.112	E	10	G			0.4	10	GREECE
f	12	03	49	18.0	37.771	N	141.773	E	52		6 0	6.3	1.0	451	NEAR EAST COAST OF HONSHU, JAPAN. Ms 6.2 (BRK). Felt (IV JMA) at Ofunato and (III JMA) from Tokyo to Hachinohe Felt from central Honshu and Miyoke-jimo to eastern Hokkaido
	12	04	18	59 0	6.997	S	117.215	E	599	D	5 7		1.0	288	BALI SEA
	12	05	09	43.2?	31.47	S	68.57	W	33	N			0.7	5	SAN JUAN PROVINCE, ARGENTINA
	12	05	47	01.0?	31.51	S	68.78	W	126	?			0.7	8	SAN JUAN PROVINCE, ARGENTINA
	12	06	45	29.0*	40.604	N	77.017	E	33	N	4.7		0 8	6	KIRGHIZ-XINJIANG BORDER REGION
	12	06	49	38.4&	40.132	N	121.117	W	10	G				14	NORTHERN CALIFORNIA. <BRK>. ML 3.4 (BRK).
	12	07	02	11.3	28.747	S	149.309	E	33	N			1 4	14	QUEENSLAND, AUSTRALIA. ML 4.4 (RIV).
	12	08	11	32.9%	31.592	S	68.508	W	33	N			0 6	5	SAN JUAN PROVINCE, ARGENTINA
	12	08	22	32.8?	12.39	S	117.79	E	33	N	4.1		0.8	6	SOUTH OF SUMBAWA ISLAND
	12	10	28	04.4	44.591	N	9.687	E	10	G			1.0	36	NORTHERN ITALY. ML 3.5 (LDG), 3.4 (TRI), 2.9 (KBA).
	12	11	04	03.3	19.062	N	64.746	W	50	*	4.6	3.9	1.1	41	VIRGIN ISLANDS
	12	11	11	06.6?	39.69	N	30.20	E	10	G			0.9	5	TURKEY
	12	12	04	50.3*	24.406	N	121.936	E	10	G			0.5	8	TAIWAN
	12	12	41	46.2?	31.17	S	68.45	W	110	?			0.6	5	SAN JUAN PROVINCE, ARGENTINA
	12	13	45	29.7*	11.875	S	33.366	E	10	G	4.1		1.1	7	MALAWI
	12	14	01	51.2&	59.642	N	153.017	W	95					26	SOUTHERN ALASKA. <AGS-P>.
	12	14	13	13.8*	24.393	N	121.903	E	10	G			0.5	7	TAIWAN
	12	14	21	00.0?	51.80	N	167.62	W	33	N	4.7		0.8	12	FOX ISLANDS, ALEUTIAN ISLANDS
o	12	14	29	02.4	11.118	N	140.372	E	33	N	5.4	5.0	1.1	84	WEST CAROLINE ISLANDS
	12	14	53	45.6*	44.277	N	6.401	E	10	G			0.4	5	FRANCE. ML 2.4 (LDG).
	12	15	03	38.8?	33.98	N	137.58	E	403	?	3.3		0.2	7	NEAR S. COAST OF HONSHU, JAPAN
	12	15	23	15.2	4.431	S	102.935	E	93	*	5.0		0.9	40	SOUTHERN SUMATERA
	12	15	33	29.9*	39.934	N	25.679	E	10	G			1.7	5	AEGEAN SEA
	12	15	57	01.3?	31.62	S	69.65	W	137	?			0.4	8	SAN JUAN PROVINCE, ARGENTINA
	12	16	27	33.2?	32.00	S	68.34	W	143	?			0.7	10	SAN JUAN PROVINCE, ARGENTINA
	12	16	59	15.8	47.319	N	2.716	E	10	G			0.4	10	FRANCE ML 2.6 (LDG).
	12	16	59	48.9*	25.781	S	27.897	E	5	G			1.7	6	REPUBLIC OF SOUTH AFRICA
	12	17	12	36.0	18.014	N	68.606	W	95	*	4.8		0.9	34	MONA PASSAGE
	12	17	28	53.1?	59.38	N	6.72	E	5	G			0.5	5	SOUTHERN NORWAY. DUR 2.4 (BER).
	12	17	39	25.0&	61.882	N	151.762	W	109					18	SOUTHERN ALASKA. <AGS-P>.
	12	18	24	01.6*	7.641	S	156.154	E	69	*	4.6		1.4	9	SOLOMON ISLANDS
	12	19	29	55.1*	6.728	N	73.084	W	153	*	4.8		1.1	22	NORTHERN COLOMBIA
	12	21	01	09.7&	33.030	N	117.820	W	6					8	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
	12	21	50	46.6	35.976	N	114.644	W	5	G			0.7	12	CALIFORNIA-NEVADA BORDER REGION. ML 3.3 (PAS).
	12	22	23	20.5	43.493	N	17.500	E	10	G			1.3	45	YUGOSLAVIA. ML 4.1 (TRI), 3.7 (TTG).
	12	22	58	17.8?	4.85	S	23.18	E	33	N			0.4	5	ZAIRE REPUBLIC
	12	23	39	26.1*	40.899	N	33.267	E	10	G			1.4	13	TURKEY
	12	23	49	59.4&	36.030	N	120.040	W	6	G				6	CENTRAL CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	12	23	58	48.8?	34.19	S	71.29	W	33	N			1.0	7	NEAR COAST OF CENTRAL CHILE
o	13	00	25	21.8	2.444	S	125.921	E	27		5.4	5.0	1.1	109	CERAM SEA
	13	01	37	17.5	5.479	S	152.338	E	58	*	4.9		1.1	14	NEW BRITAIN REGION
	13	01	54	35.1%	47.309	N	2.759	E	10	G			0.2	8	FRANCE
	13	02	17	41.3?	47.42	N	8.06	E	10	G			0.7	4	SWITZERLAND. ML 2.7 (LDG).
	13	03	08	54.0&	59.741	N	153.550	W	121					18	SOUTHERN ALASKA. <AGS-P>.
	13	03	42	39.8	36.260	N	71.041	E	66	*	5.1		1.2	41	AFGHANISTAN-USSR BORDER REGION. Felt (III) at Kharog and Dushanbe, USSR.
	13	03	47	59.0*	3.025	S	139.757	E	15		4.7		1.5	15	WEST IRIAN
	13	04	03	18.0*	31.408	S	70.298	W	162	?			0.4	18	CHILE-ARGENTINA BORDER REGION
o	13	05	29	19.0	15.040	S	75.466	W	26	D	5.4	4.8	1.0	170	NEAR COAST OF PERU
	13	05	47	54.8?	3.17	S	139.76	E	33	N			1.8	8	WEST IRIAN
	13	06	13	32.1*	33.534	N	131.548	E	137		4.4		0.9	18	KYUSHU, JAPAN. Felt (I JMA) at Oita and Kochi.
	13	07	31	32.1	3.844	S	128.545	E	128		5.6		1.2	94	CERAM. Felt (II) at Amban.
	13	08	08	17.1*	34.972	S	108.781	W	10	G	4.8		1.3	14	EASTER ISLAND CORDILLERA
o	13	08	27	36.9	4.346	S	152.787	E	44		5.3		1.0	131	NEW BRITAIN REGION
	13	09	21	19.6*	4.629	S	153.219	E	69	?			1.0	7	NEW IRELAND REGION
	13	09	48	13.4	43.376	N	0.631	W	10	G			1.0	10	PYRENEES. ML 3.0 (LDG).
	13	09	54	48.4&	60.925	N	152.023	W	84					22	SOUTHERN ALASKA. <AGS-P>.
	13	10	58	02.2	36.194	N	139.873	E	60		4.2		0.7	14	HONSHU, JAPAN. Felt (II JMA) at Utsunomiyo and Kumagoyo and (I JMA) at Tokyo and Mito.
	13	12	01	07.9*	38.362	S	73.408	W	33	N	4.4	2.8	1.1	16	NEAR COAST OF CENTRAL CHILE
	13	12	14	53.2*	17.486	N	148.180	E	33	N	3.8		0.7	7	MARIANA ISLANDS REGION
	13	12	34	09.0?	18.76	S	117.79	E	33	N			1.8	5	NORTHWEST OF AUSTRALIA. ML 4.0 (NAU).
	13	12	50	42.7?	44.59	N	149.34	E	33	N	4.8		1.3	15	KURIL ISLANDS
	13	12	54	36.7	2.008	S	77.204	W	159	D	4.8		0.9	107	PERU-ECUADOR BORDER REGION
	13	12	57	58.1*	24.407	N	121.899	E	10	G			0.7	6	TAIWAN
	13	13	49	13.4	37.910	N	21.190	E	59		4.9		1.3	172	SOUTHERN GREECE. Felt strongly in the Pirgos area.
	13	14	05	19.1?	44.37	N	84.92	E	33	N	3.9		0.6	5	NORTHERN XINJIANG, CHINA
	13	14	24	27.9?	37.74	N	20.45	E	33	N	4.1		1.3	8	IONIAN SEA. ML 3.6 (ATH).
	13	14	42	40.8	44.611	N	9.594	E	10	G			0.8	18	NORTHERN ITALY. ML 3.1 (LDG), 2.9 (KBA).
	13	15	45	37.0?	3.44	N	126.31	E	33	N	4.4		1.0	6	TALAUD ISLANDS
	13	16	07	54.7?	34.06	S	71.41	W	33	N			0.7	6	NEAR COAST OF CENTRAL CHILE
	13	16	45	15.1&	37.847	N	122.220	W	5					11	CENTRAL CALIFORNIA. <BRK>. ML 3.1 (BRK). Mo=1.2*10**20 (BRK). Felt (III) at Berkeley and Concord. Also felt at Oakland and San Francisco.
	13	16	58	10.0%	43.363	N	19.082	E	5	G			0.8	7	YUGOSLAVIA. ML 2.5 (TTG).
	13	17	03	23.6	6.889	N	72.035	W	52	*	4.8		0.9	17	NORTHERN COLOMBIA
	13	18	16	47.2%	40.076	N	29.394	E	10	G			0.6	6	TURKEY
	13	19	11	23.9*	24.197	N	121.878	E	10	G			0.6	6	TAIWAN
	13	20	57	00.8	41.817	N	108.649	W	5	G			0.6	9	WYOMING. ML 3.5 (NEIS). Felt (IV) at Point of Rocks.
	13	21	22	12.2	18.801	S	177.929	W	632		4.9		0.8	38	FIJI ISLANDS REGION
	13	21	29	41.2&	59.417	N	146.724	W	28					23	GULF OF ALASKA. <AGS-P>. ML 3.2 (PMR).

	13	21 45 39.3?	2.14	S	140.14	E	33	N			1.0	6	NEAR N. COAST OF WEST IRIAN
	13	22 28 21.5*	15.155	S	173.458	W	33	N	5.0	4.8	1.2	17	TONGA ISLANDS
	13	23 21 13.7*	32.268	S	68.538	W	33	N			0.4	5	MENDOZA PROVINCE, ARGENTINA
	14	01 28 29.1*	33.426	S	71.944	W	33	N	4.4		1.6	31	NEAR COAST OF CENTRAL CHILE. Felt (IV) at Valparaiso and Vina del Mar. Felt (II) at Santiago.
	14	02 29 15.1?	39.67	N	63.53	E	33	N	4.2		1.0	6	UZBEK SSR
	14	02 52 40.4?	52.79	S	28.28	E	10	G	4.6		1.1	10	SOUTH OF AFRICA
	14	02 59 51.0?	37.15	N	71.49	E	33	N	4.4		0.6	8	AFGHANISTAN-USSR BORDER REGION
	14	04 00 51.5?	32.17	S	121.48	E	10	G			0.8	7	WESTERN AUSTRALIA. ML 4.6 (KLG).
a	14	04 10 40.6	31.983	S	178.731	W	33	N	5.5	4.9	1.3	70	KERMADEC ISLANDS REGION. Felt on Raoul.
a	14	05 24 29.7	15.119	S	75.565	W	33	N	5.1	4.9	1.1	87	NEAR COAST OF PERU
	14	05 54 57 0*	43.299	N	0.638	W	10	G			1.4	9	PYRENEES. ML 2.8 (LDG).
	14	06 08 15 0	25.987	N	129.124	E	45		5.2	5.0	1.0	110	RYUKYU ISLANDS REGION
	14	06 12 56.4&	35.030	N	116.910	W	8					13	CENTRAL CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
	14	06 58 42.6*	44.423	N	114.288	W	5	G			0.4	7	WESTERN IDAHO. ML 2.7 (NEIS), 3.0 (BUT).
	14	07 45 00 4*	15.065	S	75.504	W	33	N	4.7		1.5	36	NEAR COAST OF PERU
	14	09 21 08.0?	42.09	N	82.35	E	33	N	4.1		0.7	6	NORTHERN XINJIANG, CHINA
	14	10 02 12.1?	39.56	N	29.49	E	10	G			0.8	5	TURKEY
	14	10 36 27.7&	61.450	N	151.312	W	70		4.2			51	SOUTHERN ALASKA. <AGS-P>.
	14	11 00 00.3*	42.811	N	24.016	E	10	G			1.6	5	BULGARIA
	14	11 34 07.1*	24.068	N	121.439	E	10	G			0.2	5	TAIWAN
	14	13 20 13.8&	32.580	N	117.030	W	13					9	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.0 (PAS).
	14	14 44 59.4%	39.086	N	27.719	E	10	G			0.5	5	TURKEY
	14	14 56 44.0%	31.500	S	68.565	W	33	N			0.6	5	SAN JUAN PROVINCE, ARGENTINA
	14	15 27 04.3*	0.172	N	121.958	E	211	*	5.0		1.2	18	MINAHASSA PENINSULA
	14	15 32 58.9*	11.347	N	139.857	E	33	N	4.3		1.5	15	WEST CAROLINE ISLANDS
	14	15 47 30.2&	62.045	N	149.781	W	50					25	CENTRAL ALASKA. <AGS-P>.
	14	17 08 17.7?	16.49	N	100.57	W	33	N			1.7	9	NEAR COAST OF GUERRERO, MEXICO
	14	17 33 37.6*	54.073	N	35.437	W	10	G	4.7		0.4	12	NORTH ATLANTIC OCEAN
	14	18 58 43.1*	16.029	S	175.070	W	305	*	4.6		1.4	22	TONGA ISLANDS
	14	19 21 55.1?	32.21	S	68.54	W	116	?			0.1	5	MENDOZA PROVINCE, ARGENTINA
	14	20 37 44.4*	8.301	N	38.524	E	33	N	4.9		1.3	12	ETHIOPIA
	14	22 05 27.8	36.101	N	71.152	E	123	*	4.3		1.1	16	AFGHANISTAN-USSR BORDER REGION
	14	23 29 55.7&	36.150	N	119.990	W	6	G				10	CENTRAL CALIFORNIA. <PAS-P>. ML 2.5 (BRK), 3.1 (PAS).
	14	23 32 35.0*	2.876	S	139.467	E	33	N	4.9		1.3	14	NEAR N. COAST OF WEST IRIAN
	15	00 02 12.4*	18.786	S	32.674	E	33	N			0.7	5	ZIMBABWE. Felt (III) at Mature.
	15	00 06 20.5*	28.455	S	178.555	W	238	*	4.5		1.3	22	KERMADEC ISLANDS REGION
	15	00 08 41.5*	19.547	S	69.328	W	157	*			1.3	17	NORTHERN CHILE
	15	00 39 03.2	38.865	N	70.995	E	33	N	4.6		0.9	32	AFGHANISTAN-USSR BORDER REGION. Felt (IV) at Garm and (III) at Dzhirgatal, USSR.
	15	01 11 29.6?	37.87	S	74.10	W	33	N			1.5	16	OFF COAST OF CENTRAL CHILE
	15	01 33 02.8	18.912	N	65.089	W	54	*	4.5		1.1	35	PUERTO RICO REGION. Felt on Puerta Rico and in the Virgin Islands.
	15	02 27 10.9*	12.636	S	25.475	E	10	G	4.0		0.6	7	ZAMBIA
	15	03 10 15.6*	14.963	S	75.689	W	33	N	4.4		0.8	8	NEAR COAST OF PERU
	15	03 20 56.1&	36.150	N	120.010	W	6	G				12	CENTRAL CALIFORNIA. <PAS-P>. ML 2.8 (BRK), 3.1 (PAS).
	15	03 35 14.1*	36.534	N	71.704	E	94	?	4.6		1.1	15	AFGHANISTAN-USSR BORDER REGION
	15	03 56 33.9*	26.460	S	13.874	W	10	G	4.7	4.8	1.0	18	SOUTH ATLANTIC RIDGE
	15	04 07 53.1*	44.443	N	12.502	E	10	G			0.9	5	NORTHERN ITALY. ML 2.7 (TRI), 3.3 (KBA).
	15	04 13 13.0	47.033	N	18.050	E	15				0.8	27	HUNGARY. ML 4.2 (GRF), 3.5 (VKA), 3.5 (KBA).
	15	04 16 06.0	47.188	N	18.135	E	10	G			0.9	17	HUNGARY. ML 3.7 (VKA), 3.5 (KBA).
	15	04 18 21.5*	47.122	N	18.188	E	10	G			1.2	9	HUNGARY. ML 3.7 (VKA), 3.5 (KBA).
a	15	04 28 46.9	47.045	N	18.054	E	10	G	4.7	5.0	1.3	169	HUNGARY. ML 4.9 (TTG), 4.8 (KRA). Moderate damage (VII) in the Berhida-Peremartan area. Slight damage at Budapest. Felt throughout western Hungary. Felt (VI) at Komarno, (V) at Nave Zamky and Hurbanova and (IV) at Bratislava, Czechaslovakia. Also felt at Zagreb, Yugoslavia and (III) in Burgenland and at Vienna, Austria.
	15	04 35 17.0*	47.126	N	18.087	E	10	G			0.5	6	HUNGARY. ML 3.4 (VKA).
	15	04 44 31.4	47.018	N	18.053	E	10	G			1.1	31	HUNGARY. ML 4.4 (GRF), 4.0 (VKA), 3.9 (KBA), 3.7 (TRI).
	15	05 07 56.0?	46.96	N	18.18	E	10	G			0.6	5	HUNGARY
	15	05 17 23.9?	31.50	S	68.39	W	105	?			0.6	8	SAN JUAN PROVINCE, ARGENTINA
	15	05 29 17.3	47.024	N	18.013	E	9				1.2	58	HUNGARY. ML 4.5 (GRF), 4.0 (VKA), 3.8 (KBA), 3.8 (TRI).
	15	05 39 14.7&	59.621	N	152.780	W	86					25	SOUTHERN ALASKA. <AGS-P>.
	15	07 05 08.3*	38.402	S	93.446	W	10	G	4.3		1.3	11	WEST CHILE RISE
	15	07 15 36.1*	34.437	S	72.265	W	33	N	4.3		1.2	27	NEAR COAST OF CENTRAL CHILE
	15	07 41 44.5*	44.265	N	114.112	W	5	G			0.7	10	WESTERN IDAHO. ML 3.1 (NEIS).
	15	08 14 42.3	35.289	N	140.347	E	66		4.2		0.4	11	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro and Mita.
	15	08 21 26.3*	9.542	S	120.225	E	33	N			0.2	5	SUMBA ISLAND REGION
	15	08 24 50.6*	36.175	N	120.058	W	10	G			0.5	9	CENTRAL CALIFORNIA. ML 2.5 (BRK).
	15	08 51 53.9	24.344	S	67.062	W	192		4.2		1.0	14	CHILE-ARGENTINA BORDER REGION
	15	08 58 55.9	47.063	N	18.139	E	10	G			0.9	10	HUNGARY. ML 2.7 (VKA), 2.6 (KBA).
a	15	08 59 49.9	38.407	S	93.251	W	10	G	5.1	4.8	1.1	68	WEST CHILE RISE
	15	09 05 28.7*	47.067	N	18.150	E	10	G			1.8	8	HUNGARY. ML 2.9 (VKA).
	15	09 25 31.5?	31.63	S	70.76	W	33	N			0.9	6	CHILE-ARGENTINA BORDER REGION
	15	09 41 55.2*	30.222	N	138.621	E	421	*	4.1		0.7	13	SOUTH OF HONSHU, JAPAN
	15	09 54 06.3	47.010	N	18.129	E	10	G			0.5	9	HUNGARY
	15	10 10 44.5?	33.65	S	72.03	W	33	N			0.6	9	OFF COAST OF CENTRAL CHILE
	15	10 52 38.7*	46.968	N	18.172	E	10	G			0.9	9	HUNGARY. ML 2.8 (VKA).
	15	10 53 16.0	46.966	N	17.992	E	10	G			1.2	22	HUNGARY. ML 4.3 (GRF), 3.7 (VKA), 3.7 (KBA).
	15	12 14 20.5*	20.944	S	174.129	W	33	N	4.5		1.0	9	TONGA ISLANDS
	15	13 16 09.8?	29.48	S	177.81	W	33	N	4.7	5.2	1.8	6	KERMADEC ISLANDS. Felt on Raoul.
	15	14 04 02.6*	36.291	N	140.729	E	33	N			0.5	8	NEAR EAST COAST OF HONSHU, JAPAN
	15	15 18 45.7*	28.015	N	141.002	E	33	N	5.0		1.2	10	BONIN ISLANDS REGION
	15	15 32 55.5?	39.18	N	26.22	E	10	G			0.8	5	TURKEY
	15	15 36 18.7?	45.95	N	142.68	E	293	?	4.2		1.0	24	HOKKAIDO, JAPAN REGION
	15	15 53 37.1	15.288	S	173.625	W	33	N	4.4		1.2	9	TONGA ISLANDS
	15	16 45 25.4	11.174	N	140.297	E	63	*	4.8		1.3	58	WEST CAROLINE ISLANDS
	15	17 14 16.5?	38.38	N	73.67	E	33	N	4.3		1.4	8	TAJIK-XINJIANG BORDER REGION
	15	17 29 44.6*	8.991	N	126.469	E	33	N	4.9		1.2	12	MINDANAO, PHILIPPINE ISLANDS. Felt (II RF) at Cogayan de Ora.

	15	18 53 34.5*	14.221	N	146.814	E	62 ?	4.7		0.6	13	MARIANA ISLANDS
	15	18 58 03.4	44.581	N	9.739	E	10 G	3.6		1.2	88	NORTHERN ITALY. ML 4.7 (GRF), 4.6 (FUR), 4.5 (TRI). Felt (VII) in the Bardi area.
	15	19 41 26.6*	30.414	S	70.212	W	33 N			1 3	13	CHILE-ARGENTINA BORDER REGION
	15	20 18 56 6%	38.911	N	26.908	E	10 G			1.6	5	AEGEAN SEA
	15	20 30 56.1?	28.08	N	140.84	E	33 N	4 8 4 6		1.2	9	BONIN ISLANDS REGION
	15	20 38 30 6	47.054	N	18.118	E	10 G			0.7	8	HUNGARY
	15	20 38 46 1?	57.41	S	7 05	W	10 G	5.2		1.4	10	SOUTHWESTERN ATLANTIC OCEAN
	15	20 40 10 5*	47.011	N	18.191	E	10 G			0.9	7	HUNGARY. ML 2.7 (VKA), 2.5 (KBA)
	15	20 48 12 2*	38.863	N	27.030	E	10 G			1.5	12	TURKEY
	15	21 00 10 0%	38.814	N	26.857	E	10 G			0.5	7	AEGEAN SEA
	15	21 10 19 3	47.074	N	18.138	E	10 G			1.1	13	HUNGARY. ML 3.7 (GRF), 3.2 (VKA), 3 2 (KBA)
	15	21 43 46.5	7.014	S	106.165	E	90 *	4.9		1.4	49	JAVA
a	15	21 49 49 3?	14.86	S	67.71	E	10 G	4.9 4.6		1.3	23	MID-INDIAN RISE
a	15	22 11 55.5	15.437	S	67.244	E	10 G	5.2 5.3		0.9	106	MID-INDIAN RISE
	15	22 39 08 7?	22.38	S	35.39	E	33 N			0.9	7	MOZAMBIQUE
	15	22 47 05.9?	31.81	S	70.32	W	33 N			1.4	7	CHILE-ARGENTINA BORDER REGION
	15	23 22 52.2	24.847	N	123.492	E	118	4.9		0.9	66	SOUTHWESTERN RYUKYU ISLANDS. Felt (I JMA) on Ishigaki-shima.
	15	23 30 30.4*	39.666	N	23.415	E	10 G			0.9	9	AEGEAN SEA
	15	23 39 22.4*	27.988	N	140.826	E	33 N	4.1		1.6	10	BONIN ISLANDS REGION
	15	23 40 00.0*	28.180	N	140.716	E	33 N	4.7		1.1	20	BONIN ISLANDS REGION
	15	23 44 57.0*	28.170	N	140.835	E	33 N	4.7		1.3	8	BONIN ISLANDS REGION
	16	00 25 30.5*	28.382	N	141.423	E	33 N	4.4		0.8	12	BONIN ISLANDS REGION
	16	00 54 19.9	46.953	N	18.151	E	10 G			0.5	8	HUNGARY. ML 2.7 (VKA), 2.6 (KBA).
	16	01 09 46.5?	36.57	N	31.13	E	10 G			1.5	5	TURKEY
	16	01 51 21.4&	36.190	N	117.870	W	5	4.5			42	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 4.3 (BRK), 4.0 (PAS). Felt (III) at Olancha, Woodville and Ridgecrest, California.
	16	01 51 37.1	28.100	N	140.775	E	33 N	5.0		1.1	52	BONIN ISLANDS REGION
	16	02 46 30.7*	5.611	S	128.140	E	411 *	4.4		1.5	15	BANDA SEA
	16	03 56 21.2*	28.011	N	140.727	E	33 N	5.0		1.0	12	BONIN ISLANDS REGION
	16	04 19 34.9?	36.39	N	140.71	E	33 N			0.7	6	NEAR EAST COAST OF HONSHU, JAPAN
	16	04 28 35.7?	28.42	N	93.24	E	33 N			1.0	6	INDIA-CHINA BORDER REGION
	16	05 49 04.6	2.686	N	128.624	E	225 *	4.6		0.7	24	HALMAHERA
	16	06 05 22.6	42.813	N	108.060	W	10 G			0.7	16	WYOMING. ML 4.3 (NEIS). Felt (IV) at Lander, Hudson, Jeffrey City, Midwest, South Pass City and Paint of Rocks, (III) at Casper, Rock Springs, Ethete, Hanna and Superior, (II) at Basin, Edgerton and Hyattville.
	16	06 30 03.9*	50.753	N	14.499	E	10 G			1.2	7	CZECHOSLOVAKIA. ML 3.5 (VKA), 3.2 (KBA), 3.0 (GRF).
	16	06 41 39.1*	27.779	N	140.846	E	33 N	5.0		1.1	6	BONIN ISLANDS REGION
	16	07 52 06.2*	19.949	S	69.481	W	33 N			0.5	7	NORTHERN CHILE
	16	08 12 32.5	38.303	N	73.261	E	104 *	4.8		0.9	55	TAJIK-XINJIANG BORDER REGION
	16	09 41 31.2	27.982	N	140.739	E	33 N	4.9		1.0	39	BONIN ISLANDS REGION
	16	10 00 39.2%	39.577	N	27.067	E	10 G			0.6	5	TURKEY
	16	10 38 56.3*	18.797	S	169.475	E	33 N	3.8		1.2	17	VANUATU ISLANDS
a	16	10 46 51.8	37.113	N	59.310	E	33 N	5.4 5.0		0.9	219	IRAN-USSR BORDER REGION. Felt (IV) at Ashkhabad and Vannovskaya, USSR. Also felt at Mashhad, Iran.
	16	12 14 45.4?	42.69	N	24.23	E	10 G			1.2	5	BULGARIA
	16	12 31 31.9*	23.678	S	66.901	W	236 *			0.5	6	JUJUY PROVINCE, ARGENTINA
	16	12 35 50.5*	6.798	S	129.988	E	137 *	4.5		1.2	12	BANDA SEA
	16	12 47 56.5?	17.91	S	178.46	W	587 *	4.1		1.2	12	FIJI ISLANDS REGION
	16	13 03 00.7%	41.646	N	25.635	E	10 G			0.5	5	GREECE-BULGARIA BORDER REGION
	16	14 45 11.1*	33.365	S	72.441	W	33 N	4.2		1.5	22	OFF COAST OF CENTRAL CHILE
	16	14 56 52.9&	34.130	N	106.832	W	7				14	NEW MEXICO. <GLD>. ML 4.1 (NEIS). Slight damage (VI) at Socorro and Lemitar. Felt (IV) at Bingham, (III) at La Joya, Magdalena and San Antonio.
	16	15 30 52.4*	42.795	N	23.447	E	10 G			1.2	6	BULGARIA
	16	17 04 06.0&	37.230	N	121.643	W	4				14	CENTRAL CALIFORNIA. <BRK>. ML 2.9 (BRK).
	16	17 12 56.0*	46.891	N	18.162	E	10 G			1.3	14	HUNGARY. ML 3.3 (KBA), 3.2 (VKA). Additional damage at Berhida.
	16	18 20 05.3*	27.947	N	140.726	E	33 N	5.2		1.3	13	BONIN ISLANDS REGION
	16	19 39 34.5	44.530	N	9.760	E	10 G			0.9	39	NORTHERN ITALY. ML 4.2 (GRF), 4.2 (FUR), 3.9 (LDG).
	16	19 39 36.4?	27.64	N	140.36	E	33 N	5.1		0.8	7	BONIN ISLANDS REGION
	16	20 03 05.6*	52.474	N	165.427	W	33 N	4.3		1.2	11	ALEUTIAN ISLANDS REGION
	16	20 28 58.5%	42.518	N	18.702	E	10 G			0.3	5	YUGOSLAVIA. ML 1.8 (TTG).
	16	20 50 29.4	47.150	N	18.025	E	10 G	4.4		1.2	16	HUNGARY. ML 3.4 (VKA), 3.4 (KBA).
	16	20 51 54.8?	5.84	S	146.48	E	214 ?	4.2		1.4	6	EAST PAPUA NEW GUINEA REGION
	16	21 32 10.0	44.564	N	9.649	E	10 G			0.9	20	NORTHERN ITALY. ML 3.1 (LDG), 2.8 (KBA).
	16	21 44 51.4*	33.086	S	68.721	W	5 G			0.2	5	MENDOZA PROVINCE, ARGENTINA
	16	22 38 13.2?	32.74	N	138.01	E	425 ?	3.3		0.6	8	SOUTH OF HONSHU, JAPAN
	16	22 50 59.6	24.173	S	66.915	W	200 *	4.2		1.3	14	SALTA PROVINCE, ARGENTINA
	17	00 51 42.4*	52.200	S	17.007	E	10 G	4.9		1.5	29	SOUTHWEST OF AFRICA
	17	01 13 06.0*	24.155	S	67.149	W	195 *			0.7	7	CHILE-ARGENTINA BORDER REGION
	17	02 13 03.6%	42.507	N	18.713	E	10 G			0.4	5	YUGOSLAVIA
	17	02 49 54.5	41.585	N	79.208	E	33 N	4.7 3.7		1.0	20	KIRGHIZ-XINJIANG BORDER REGION
	17	05 03 32.6*	37.371	N	23.597	E	130 *	4.0		0.6	7	SOUTHERN GREECE
	17	05 31 16.3%	31.843	S	68.271	W	33 N			1.3	6	SAN JUAN PROVINCE, ARGENTINA
	17	06 11 31.2	23.817	S	69.380	W	88 *	4.2		1.4	14	NORTHERN CHILE
	17	06 58 55.3	12.956	N	88.685	W	81 *	5.0		1.1	42	OFF COAST OF CENTRAL AMERICA. Felt (IV) at San Salvador, El Salvador.
	17	07 07 16.5?	8.52	S	117.58	E	158 ?	4.3		0.8	7	SUMBAWA ISLAND REGION
	17	07 46 55.8	28.182	N	140.745	E	33 N	4.9		1.3	65	BONIN ISLANDS REGION
	17	07 55 23.6*	28.106	N	140.817	E	33 N	4.9		1.3	24	BONIN ISLANDS REGION
	17	10 04 49.0*	2.727	N	128.522	E	238 *	4.8		1.4	29	HALMAHERA
	17	12 16 29.3?	41.59	N	142.52	E	66 *	4.3		0.6	7	HOKKAIDO, JAPAN REGION
	17	12 19 21.6*	27.978	N	140.905	E	33 N	5.0		0.1	7	BONIN ISLANDS REGION
	17	12 54 05.3*	28.105	N	140.819	E	33 N	5.0		1.1	22	BONIN ISLANDS REGION
	17	13 01 15.4*	28.002	N	140.902	E	33 N	5.0		0.5	6	BONIN ISLANDS REGION
	17	13 38 42.3	28.105	N	140.768	E	33 N	4.9		1.2	59	BONIN ISLANDS REGION
	17	13 38 54.3	28.223	N	140.741	E	33 N	4.9		1.3	58	BONIN ISLANDS REGION. Felt (I JMA) on Chichi-shima.
	17	14 09 07.7	43.452	N	0.700	W	10 G			0.3	6	PYRENEES. ML 3.1 (LDG).
	17	15 17 15.7	28.064	N	140.846	E	33 N	4.9		1.2	43	BONIN ISLANDS REGION

	17	16	25	00.0&	37.002	N	116.043	W	0		4.6		29	SOUTHERN NEVADA. <DOE>. ML 4.2 (BRK). 37° 00' 08.28" N., 116° 02' 34.96" W., Surface Elev. 1208 m., Depth of Burial 332 m., Shot Time 162500.087, "CHAMITA", Nevada Test Site (Dept. of Energy).
	17	16	35	44 1&	37 125	N	121.550	W	8	G			14	CENTRAL CALIFORNIA. <BRK>. ML 3.2 (BRK).
	17	16	52	42 6	48.003	N	7.514	E	10	G		0.4	6	FRANCE. ML 2.6 (LDG).
	17	17	23	04 2	48 023	N	7.475	E	10	G		1.5	7	FRANCE. ML 2.6 (LDG).
	17	17	49	05 0	9 197	S	115.913	E	33	N	3.9	1.1	17	SOUTH OF BALI ISLAND
o	17	18	30	28 5	28 196	N	140.717	E	33	N	5.2 4.6	1.1	124	BONIN ISLANDS REGION. Felt (I JMA) on Chichi-shimo.
	17	19	02	31.5	50.885	N	6.208	E	10	G		0.9	6	GERMANY. ML 2.4 (BNS), 2.2 (KLL).
	17	20	42	58.2*	6.948	S	125.406	E	524	*	4.9	1.3	28	BANDA SEA
	17	23	57	57.7?	16 38	N	99.44	W	33	N		1.5	6	NEAR COAST OF GUERRERO, MEXICO
	18	00	42	45.3	44 644	N	111.015	W	5	G		0.8	13	HEBGEN LAKE REGION. ML 3 3 (NEIS), 3 5 (BUT). Felt (II) at West Yellowstone, Montana and in the West Entrance area of Yellowstone National Park.
	18	01	09	20.6?	22.88	S	113.56	E	10	G		1.9	5	WESTERN AUSTRALIA
	18	02	25	39.6*	22.917	S	66.244	W	275	*		0.3	7	JUJUY PROVINCE, ARGENTINA
	18	02	57	57.6*	39.095	N	20.716	E	10	G		1.4	13	GREECE-ALBANIA BORDER REGION. ML 3.7 (ATH).
	18	03	21	26.0&	37.268	N	121.662	W	7				12	CENTRAL CALIFORNIA. <BRK>. ML 2.9 (BRK).
o	18	03	48	03.7	2.807	N	128.216	E	66		5.5	1.1	147	HALMAHERA
	18	04	24	22.4	28.131	N	140.779	E	33	N	4.8	1.2	50	BONIN ISLANDS REGION. Felt (I JMA) on Chichi-shimo.
	18	04	28	11.4	51.619	N	16.159	E	10	G		1.1	26	POLAND. ML 4.1 (GRF), 4.0 (VKA), 3.9 (KBA).
	18	04	28	32.4	28.164	N	140.815	E	33	N	5.0 4.6	1.0	54	BONIN ISLANDS REGION. Felt (I JMA) on Chichi-shimo.
	18	06	54	20.1?	21.3B	S	68.06	W	33	N		0.5	5	CHILE-BOLIVIA BORDER REGION
	18	07	13	39.6&	60.769	N	147.705	W	35				37	SOUTHERN ALASKA. <AGS-P>.
	18	07	56	41.8*	36.016	N	70.953	E	115	*	4.5	1.5	22	HINDU KUSH REGION
	18	08	57	14.8*	16.106	S	73.998	W	132	?	4.7	0.8	13	NEAR COAST OF PERU
	18	09	02	29.3?	6.44	S	131.61	E	33	N		1.6	5	TANIMBAR ISLANDS REGION
	18	09	11	19.1*	19.142	S	64.478	W	269	?		0.4	8	SOUTHERN BOLIVIA
	18	09	41	39.4*	18.388	S	62.579	W	33	N		1.0	7	BOLIVIA
	18	10	04	53.4*	47.126	N	18.104	E	10	G		0.3	7	HUNGARY. ML 2.6 (VKA).
	18	10	06	45.7*	52.663	N	170.580	W	33	N	4.5	0.7	8	FOX ISLANDS, ALEUTIAN ISLANDS
	18	10	11	45.7	6.855	N	76.419	W	33	N	4.4 3.4	1.3	31	NORTHERN COLOMBIA
	18	10	18	02.9*	5.602	S	141.466	E	33	N		1.4	10	PAPUA NEW GUINEA
	18	10	33	47.6*	2.703	N	128.200	E	33	N	5.0	0.7	10	HALMAHERA
	18	10	57	45.3*	28.996	S	67.131	W	152	?		1.1	11	LA RIOJA PROVINCE, ARGENTINA
	18	11	43	31.3?	45.64	N	0.20	W	10	G		0.8	5	FRANCE. ML 2.6 (LDG).
	18	11	47	09.5	41.508	N	21.096	E	10	G		1.2	8	YUGOSLAVIA
	18	12	28	33.3*	46.845	N	18.079	E	10	G		0.9	7	HUNGARY. ML 2.9 (VKA).
	18	13	10	15.7	44.549	N	9.792	E	10	G		1.0	46	NORTHERN ITALY. ML 4.0 (GRF), 3.9 (LDG), 3.7 (KBA).
a	18	15	25	07.7*	55.710	S	124.161	W	10	G	5.2 5.3	1.4	34	EASTER ISLAND CORDILLERA
	18	15	27	35.8&	62.021	N	150.951	W	82				11	CENTRAL ALASKA. <AGS-P>.
	18	16	16	44.8?	32.97	S	179.72	W	33	N	4.6	1.0	7	SOUTH OF KERMADEC ISLANDS
	18	16	26	15.7?	46.89	N	18.18	E	10	G		1.2	5	HUNGARY
	18	16	51	18.9*	13.747	S	66.018	E	10	G	4.9	0.9	22	MID-INDIAN RISE
	18	17	51	36.5?	68.58	N	144.84	W	10	G		0.4	5	ALASKA
	18	20	16	52.4*	20.742	S	70.270	W	33	N		1.6	8	NEAR COAST OF NORTHERN CHILE
	18	20	27	00.5*	39.515	N	20.619	E	10	G		0.8	5	GREECE-ALBANIA BORDER REGION
	18	20	49	29.5?	19.05	S	68.39	W	33	N		0.7	5	CHILE-BOLIVIA BORDER REGION
	18	21	04	59.6*	5.558	S	131.253	E	42	?	4.2	1.3	13	BANDA SEA
	18	23	04	52.1?	19.59	S	177.72	W	385	G	4.6	1.4	16	FIJI ISLANDS REGION
	18	23	15	00.3*	13.990	N	91.095	W	33	N	4.7	1.4	27	NEAR COAST OF GUATEMALA
	19	01	10	23.1?	41.90	N	15.54	E	10	G		1.2	9	SOUTHERN ITALY
	19	01	13	33.0	47.289	N	11.535	E	10	G		1.4	6	AUSTRIA. ML 2.2 (KBA), 2.1 (GRF).
	19	01	14	40.9	47.285	N	11.531	E	10	G		1.3	8	AUSTRIA. ML 2.4 (KBA), 2.0 (GRF).
	19	01	17	52.1	47.270	N	11.543	E	10	G		1.2	7	AUSTRIA. ML 2.2 (KBA), 2.0 (GRF).
	19	02	23	50.3	5.715	S	147.841	E	33	N	4.8 4.6	1.2	47	EAST PAPUA NEW GUINEA REGION
	19	04	10	34.3*	2.738	N	98.480	E	33	N	4.3	1.3	14	NORTHERN SUMATERA
	19	04	43	04.6&	40.185	N	121.258	W	5				7	NORTHERN CALIFORNIA. <BRK>. ML 3.1 (BRK).
	19	05	30	35.8?	27.99	S	69.69	W	33	N		0.8	6	NORTHERN CHILE
	19	06	09	41.2*	44.708	N	6.878	E	10	G		0.9	6	FRANCE. ML 2.2 (LDG).
	19	06	16	29.3	47.147	N	18.073	E	10	G		1.1	17	HUNGARY. ML 3.7 (VKA).
	19	06	27	48.3?	36.40	N	71.28	E	85	?	4.5	0.7	9	AFGHANISTAN-USSR BORDER REGION
	19	07	01	59.6?	1.58	S	138.31	E	33	N	4.2	1.3	7	NEAR N. COAST OF WEST IRIAN
	19	07	22	05.8?	32.12	S	122.17	E	33	N		1.6	6	WESTERN AUSTRALIA. ML 3.6 (KLG).
	19	07	28	54.7	28.260	N	140.772	E	33	N	5.0	1.3	36	BONIN ISLANDS REGION
a	19	07	53	48.1	15.043	S	75.594	W	33	N	5.2 5.3	1.1	149	NEAR COAST OF PERU. Ms 5.4 (BRK).
	19	08	07	55.3?	50.03	N	156.12	E	33	N	4.6	0.5	19	KURIL ISLANDS
	19	08	12	45.7*	44.255	N	2.861	E	10	G		1.5	5	FRANCE. ML 2.3 (LDG).
	19	08	20	25.1	24.137	S	66.828	W	194		4.7	1.2	58	SALTA PROVINCE, ARGENTINA
	19	10	56	00.5	34.502	N	27.389	E	52		4.5	1.2	62	EASTERN MEDITERRANEAN SEA
	19	11	14	31.7*	47.106	N	18.135	E	10	G		0.5	5	HUNGARY
a	19	12	02	39.4	11.614	S	166.451	E	49	D	5.4 4.9	1.2	73	SANTA CRUZ ISLANDS
	19	12	04	09.4*	10.116	S	124.499	E	33	N		1.1	6	TIMOR
	19	12	47	49.9*	29.154	N	52.286	E	33	N	4.4 4.0	0.6	9	SOUTHERN IRAN. Felt in the Firuzabad area.
	19	13	17	49.7*	21.017	S	179.231	W	633	*	4.8	1.1	26	FIJI ISLANDS REGION
	19	13	41	18.8	22.154	N	102.666	E	10	G	4.8	1.5	35	YUNNAN PROVINCE, CHINA
	19	14	05	04.1%	31.547	S	68.541	W	33	N		0.3	5	SAN JUAN PROVINCE, ARGENTINA
	19	14	05	32.5*	38.595	N	99.484	E	33	N	4.1	1.3	7	QINGHAI PROVINCE, CHINA
	19	14	06	41.0	36.038	N	120.088	W	10	G		0.8	8	CENTRAL CALIFORNIA. ML 2.7 (BRK).
	19	14	08	23.4?	36.74	N	141.79	E	33	N	4.3	0.7	9	NEAR EAST COAST OF HONSHU, JAPAN
	19	15	23	31.7*	29.715	N	52.344	E	33	N	4.4	1.3	13	SOUTHERN IRAN. Felt in the Firuzabad area.
	19	16	31	47.9	22.176	N	102.696	E	10	G	4.9 4.6	1.4	52	YUNNAN PROVINCE, CHINA
	19	18	37	37.1	36.135	N	71.984	E	52	*	5.2	1.1	130	AFGHANISTAN-USSR BORDER REGION
	19	19	24	34.5?	36.84	S	73.18	W	33	N		0.6	8	NEAR COAST OF CENTRAL CHILE
	19	20	04	20.4	22.374	S	67.486	W	189	*		0.7	10	CHILE-BOLIVIA BORDER REGION
	19	21	18	18.5	29.477	S	71.243	W	33	N		1.2	19	NEAR COAST OF CENTRAL CHILE
	19	21	43	16.5&	37.837	N	122.225	W	2				9	CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK). Mo=5.6*10**19 (BRK). Felt at Berkeley.
	19	22	40	23.6&	34.550	N	116.800	W	6				13	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
	19	22	46	17.4*	22.251	S	68.769	W	159	?		1.0	8	NORTHERN CHILE
	19	23	10	26.2&	34.940	N	116.890	W	6				6	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
	20	00	19	20.7&	58.955	N	152.680	W	98				31	KODIAK ISLAND REGION. <AGS-P>.

	20	01	29	18.0	31.358	S	68.779	W	112	D	4.5		1.0	37	SAN JUAN PROVINCE, ARGENTINA. Felt at San Juan.
	20	01	51	47.9*	28.168	N	140.985	E	33	N	5.0		1.5	10	BONIN ISLANDS REGION
	20	02	40	39.4*	3.564	S	101.919	E	89	?	4.5		1.1	13	SOUTHERN SUMATERA
	20	03	02	10.4	23.819	N	121.606	E	33	N	4.9		1.0	55	TAIWAN
	20	03	17	47.3	44.875	N	14 918	E	10	G			1.4	36	ADRIATIC SEA. ML 4.0 (GRF), 3.6 (VKA). Felt at Rab, Yugoslavia.
	20	03	54	58.2%	39 234	N	29 029	E	10	G			0.7	7	TURKEY
	20	04	39	13.9%	46.863	N	0.183	E	10	G			1.0	7	FRANCE. ML 2.5 (LDG).
	20	05	18	33.4*	31.572	S	64.463	W	33	N			1.3	9	CORDOBA PROVINCE, ARGENTINA
	20	05	23	36.4	43.117	N	27.516	E	10	G			0.8	9	BULGARIA
a	20	05	46	00.4	5.518	N	36.143	E	10	G	5.4	4.8	0.8	107	ETHIOPIA
	20	06	42	23.0?	31.65	S	68.64	W	33	N			0.6	5	SAN JUAN PROVINCE, ARGENTINA
	20	06	55	38.4*	30.207	S	150.263	E	10	G			1.2	6	NEW SOUTH WALES, AUSTRALIA ML 3.9 (RMO), 3.5 (CMS).
	20	07	03	17.9%	31.545	S	68.630	W	33	N			0.5	5	SAN JUAN PROVINCE, ARGENTINA
	20	08	40	27.3%	33.081	S	68.677	W	33	N			1.2	5	MENDOZA PROVINCE, ARGENTINA
	20	08	51	42.6?	36.61	N	71.24	E	33	N	4.4		1.3	6	AFGHANISTAN-USSR BORDER REGION
	20	09	48	02.1*	55.145	N	158.281	E	300	?	4.1		0.7	13	KAMCHATKA
	20	11	07	33.5	41 657	N	90.347	E	33	N	5.4	4.5	1.0	181	SOUTHERN XINJIANG, CHINA
	20	11	21	26.1*	20.534	S	174.612	W	69	*	4.6		0.9	12	TONGA ISLANDS
	20	12	13	13.9*	36.152	N	22.017	E	33	N	4.3	3.3	1.5	15	SOUTHERN GREECE. ML 3.7 (ATH).
a	20	12	21	05.7	33.775	S	72.231	W	33	N	4.8	4.8	1.1	49	OFF COAST OF CENTRAL CHILE. Felt (II) at Santiago.
a	20	13	43	16.6	1.045	S	126.945	E	33	N	5.3		1.2	78	MOLUCCA SEA
	20	14	02	56.6%	41.791	N	25.194	E	10	G			0.7	6	GREECE-BULGARIA BORDER REGION
	20	17	27	25.6?	32.48	N	136.71	E	449	*	4.2		0.6	11	SOUTHEAST OF SHIKOKU, JAPAN
	20	17	28	14.1	30.364	N	138.096	E	442		4.9		0.8	86	SOUTH OF HONSHU, JAPAN
	20	18	25	30.7*	33.999	S	73.529	W	33	N			1.1	14	OFF COAST OF CENTRAL CHILE
	20	18	30	15.2*	55.126	N	162.579	E	33	N	4.4		0.9	11	NEAR EAST COAST OF KAMCHATKA
	20	18	56	24.6%	61.085	N	7.388	E	10	G			0.3	5	SOUTHERN NORWAY. DUR 1.9 (BER).
	20	19	22	30.2%	60.576	N	5.069	E	10	G			0.6	5	SOUTHERN NORWAY. DUR 1.6 (BER).
	20	20	32	21.7	28.110	N	140.735	E	33	N	4.7		1.2	34	BONIN ISLANDS REGION
	20	20	32	43.0	28.096	N	140.603	E	33	N	4.9	4.7	1.0	36	BONIN ISLANDS REGION
	20	21	58	09.6?	22.10	S	179.33	W	604	?	4.9		1.2	21	SOUTH OF FIJI ISLANDS
	20	22	09	37.6*	17.972	S	178.631	W	633	?	4.7		0.9	73	FIJI ISLANDS REGION
	20	22	53	52.6?	9.89	S	115.96	E	33	N	4.3		1.7	7	SOUTH OF BALI ISLAND
	21	00	19	03.7&	32.120	N	116.390	W	6	G				7	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.2 (PAS).
	21	00	52	31.6	33.556	S	71.251	W	33	N			0.5	13	NEAR COAST OF CENTRAL CHILE. Felt (II) at Santiago.
	21	01	01	37.0&	37.077	N	122.542	W	10					10	CENTRAL CALIFORNIA. <BRK>. ML 2.9 (BRK).
	21	03	24	06.0	51.837	N	3.115	W	10	G			0.4	15	UNITED KINGDOM. ML 3.2 (LDG).
	21	03	31	18.5*	35.100	S	72.188	W	33	N			0.9	24	NEAR COAST OF CENTRAL CHILE
	21	03	59	29.5	5.124	S	151.540	E	153	*	4.7		0.8	13	NEW BRITAIN REGION
	21	04	09	36.0?	3.37	S	142.71	E	33	N	4.1		1.3	7	NEAR N COAST OF PAPUA NEW GUINEA
	21	04	53	35.8	53.114	N	152.727	E	578	?	4.2		0.6	20	SEA OF OKHOTSK
	21	05	14	51.2?	18.04	N	100.77	W	33	N			0.8	6	GUERRERO, MEXICO
	21	05	29	49.4*	19.344	S	177.735	W	399	*	4.4		0.7	25	FIJI ISLANDS REGION
	21	06	50	50.1?	36.39	N	140.84	E	33	N			0.9	6	NEAR EAST COAST OF HONSHU, JAPAN
	21	06	52	30.9*	38.810	N	26.694	E	10	G			0.9	6	AEGEAN SEA
	21	09	10	18.9?	59.39	N	6.71	E	10	G			1.2	5	SOUTHERN NORWAY. DUR 2.5 (BER).
	21	09	36	11.1?	10.67	S	164.63	E	33	N	4.0		1.6	7	SANTA CRUZ ISLANDS REGION
	21	09	51	46.9	3.144	N	126.924	E	46	*	5.1		1.0	33	TALAUD ISLANDS
a	21	10	43	23.0	16.101	S	179.047	W	33	N	5.7	5.5	1.0	194	FIJI ISLANDS REGION. Ms 5.8 (BRK), 5.4 (PAS).
	21	11	08	44.1*	16.684	S	168.208	E	214	*	4.6		1.3	37	VANUATU ISLANDS
a	21	11	26	28.7	9.159	S	78.887	W	57	D	6.1		1.0	301	NEAR COAST OF NORTHERN PERU. mb 6.3 (PAS), 6.1 (BRK). At least 100 people injured, 60 homes destroyed and damage to other buildings in the Chimbote area. Felt along the coast of Peru from Chiclayo to Chincha.
	21	12	00	53.6?	33.76	S	72.09	W	33	N			0.7	14	OFF COAST OF CENTRAL CHILE
	21	12	24	52.1*	8.680	S	78.701	W	33	N	4.7		1.1	16	NEAR COAST OF NORTHERN PERU. Felt in the Chimbote area.
	21	12	28	30.8*	39.640	N	74.466	E	33	N	4.6		1.2	10	SOUTHERN XINJIANG, CHINA
	21	13	00	12.3	46.226	N	6.705	E	10	G			0.9	13	SWITZERLAND. ML 2.8 (LDG).
	21	14	19	55.5%	31.137	S	67.961	W	10	G			0.5	5	SAN JUAN PROVINCE, ARGENTINA
	21	16	15	44.7?	22.90	S	174.90	W	33	N	5.0		0.8	11	TONGA ISLANDS REGION
a	21	16	38	03.3	71.906	N	1.479	W	10	G	5.0	5.1	1.0	123	JAN MAYEN ISLAND REGION
	21	18	05	38.3	43.168	N	110.781	W	5	G	4.8		0.9	39	WYOMING. Felt strongly in the Jackson area. Felt (V) at Alpine and (IV) at Lander and Wilson. Also felt (IV) at Palisades and Victor, Idaho. Felt (III) at Swan Valley and Felt, Idaho.
	21	18	05	44.3?	36.47	N	70.23	E	176	?	4.4		0.6	6	HINDU KUSH REGION
	21	18	07	48.2*	51.637	N	178.362	W	33	N	4.6		0.8	11	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.3 (NEIS). Felt (IV) at Alpine.
a	21	19	36	08.7	23.003	S	69.114	E	10	G	5.3	4.8	1.2	78	MID-INDIAN RISE
	21	20	12	19.1*	15.914	N	147.026	E	33	N			0.4	7	MARIANA ISLANDS REGION
a	21	21	09	07.6	22.982	S	69.091	E	10	G	5.3		1.0	130	MID-INDIAN RISE
	21	22	24	41.6&	62.253	N	149.318	W	53					29	CENTRAL ALASKA. <AGS-P>.
	21	22	40	25.0&	61.398	N	149.919	W	41					32	SOUTHERN ALASKA. <AGS-P>.
	21	22	45	18.2*	8.385	S	78.298	W	33	N	5.1		1.1	11	NEAR COAST OF NORTHERN PERU
	21	22	49	50.8*	31.315	S	68.598	W	19	*			0.4	7	SAN JUAN PROVINCE, ARGENTINA
	22	00	04	14.5*	36.604	N	71.269	E	33	N	4.7		0.9	7	AFGHANISTAN-USSR BORDER REGION
	22	00	19	42.2&	35.920	N	117.720	W	6	G				12	CENTRAL CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
	22	00	20	02.5&	35.920	N	117.720	W	6	G				13	CENTRAL CALIFORNIA. <PAS-P>. ML 3.9 (PAS), 4.0 (BRK).
	22	00	21	44.0&	35.920	N	117.720	W	6	G	4.3			28	CENTRAL CALIFORNIA. <PAS-P>. ML 4.6 (PAS), 4.7 (BRK). Felt (IV) at Trona and (III) at Barstow, Badfish, Death Valley, Exeter, Mettler and Onyx.
	22	00	48	54.5	43.232	N	0.635	W	10	G			0.7	10	PYRENEES. ML 2.8 (LDG).
	22	01	31	05.6*	12.595	N	89.071	W	33	N	4.5		0.9	16	OFF COAST OF CENTRAL AMERICA
a	22	02	01	01.6	22.057	S	169.462	E	33	N	5.2	4.7	1.1	57	LOYALTY ISLANDS REGION
	22	02	12	05.0*	46.109	N	110.232	W	5	G			1.1	9	MONTANA. ML 3.0 (NEIS), 3.2 (BUT).
	22	02	27	23.9	37.617	N	117.279	W	5	G			0.8	11	CALIFORNIA-NEVADA BORDER REGION. ML 3.0 (PAS).
	22	03	15	36.5	37.587	N	117.395	W	5	G			0.3	17	CALIFORNIA-NEVADA BORDER REGION. ML 4.0 (BRK), 3.5 (PAS).
	22	04	03	36.3?	36.44	N	141.15	E	72	*	4.1		1.5	9	NEAR EAST COAST OF HONSHU, JAPAN
	22	05	03	53.0*	18.298	N	99.380	W	33	N			0.8	7	GUERRERO, MEXICO
	22	06	05	45.6?	38.92	S	75.03	W	33	N	3.9		0.4	11	OFF COAST OF CENTRAL CHILE
	22	06	20	31.1	35.998	N	70.816	E	85	*	4.8		1.3	44	HINDU KUSH REGION

	22	06	37	54.1*	44.553	N	146.261	E	33	N	5.0		0.6	15	KURIL ISLANDS. Felt (II JMA) at Nemuro, Hokkaido.
	22	06	47	20.7%	45.941	N	0.175	W	10	G			1.3	9	FRANCE. ML 2.9 (LDG).
	22	07	04	24.7	43.903	N	16.715	E	43		4.4		1.1	91	YUGOSLAVIA. Felt (VI) at Livno and (IV) at Split.
	22	08	03	00.6*	37.397	N	71.816	E	33	N	4.4		0.7	8	AFGHANISTAN-USSR BORDER REGION
	22	08	51	43.4?	59.35	N	6 72	E	10	G			0.7	5	SOUTHERN NORWAY DUR 2.7 (BER)
	22	08	58	21.7%	40 996	N	28.546	E	10	G			0.3	5	TURKEY
	22	09	23	58.4*	31 431	S	67.759	W	10	G			0.4	6	SAN JUAN PROVINCE, ARGENTINA
	22	09	27	40.7%	46.514	N	3.126	E	10	G			0.3	7	FRANCE ML 2.3 (LDG).
	22	09	51	31 0	37 413	N	118.580	W	5	G			0.5	9	CALIFORNIA-NEVADA BORDER REGION. ML 3.5 (PAS).
	22	11	49	14.4*	33.475	S	71.514	W	33	N			1.3	13	NEAR COAST OF CENTRAL CHILE
	22	12	00	18.5	10.358	S	161.573	E	67		4.9		0.8	33	SOLOMON ISLANDS
	22	12	14	26 2*	5.953	S	151.327	E	33	N	3.9		1.2	7	NEW BRITAIN REGION
	22	13	07	18.0	5.125	N	127.467	E	153	*	4.9		0.9	26	PHILIPPINE ISLANDS REGION
	22	13	14	07.2*	59 247	N	5.774	E	10	G			0.9	5	SOUTHERN NORWAY. DUR 2.5 (BER).
	22	14	26	08.7?	31.25	S	69.19	W	130	?			0.8	10	SAN JUAN PROVINCE, ARGENTINA
	22	14	42	29.0	10.290	S	13.268	W	10	G	4 8 4.9		0.9	44	ASCENSION ISLAND REGION
	22	15	15	46.7*	36.871	N	55.222	E	33	N	4 4 4.3		1.2	8	IRAN
	22	16	13	26.1*	53.752	N	163.579	W	33	N	4 9		0.9	21	UNIMAK ISLAND REGION
	22	16	28	00.1&	19.309	N	156.070	W	40					50	HAWAII. <HVO-P>. ML 4.3 (HVO). Felt widely in the western part of the island of Hawaii.
	22	17	04	57.1*	25.365	N	95.700	E	83	*	3.8		0.8	7	BURMA-INDIA BORDER REGION
	22	17	38	26.6*	47.933	N	15.797	E	10	G			1.5	5	AUSTRIA. ML 2.8 (KBA), 2.6 (VKA). Felt (IV) at Gloggnitz.
	22	17	38	46.9%	45.917	N	2.793	E	10	G			0.5	12	FRANCE. ML 2.5 (LDG).
	22	19	02	19.9*	58.274	N	2.189	E	10	G			0.5	10	NORTH SEA. DUR 2.3 (BER).
a	22	19	29	58.0	22.364	S	174.733	W	33	N	5.5 5.5		1.3	179	TONGA ISLANDS REGION. Ms 5.5 (BRK).
	22	19	54	11.5?	22.93	S	72.01	W	33	N			1.6	5	OFF COAST OF NORTHERN CHILE
	22	19	58	24.7*	23.237	S	71.803	W	33	N			1.5	10	OFF COAST OF NORTHERN CHILE
	22	20	30	56.5%	38.810	N	26.862	E	10	G			0.3	6	AEGEAN SEA
	22	20	42	40.7	21.080	S	68.777	W	166	*			1.1	11	CHILE-BOLIVIA BORDER REGION
	22	20	44	12.8*	43.129	N	110.868	W	5	G			1.9	5	WYOMING. ML 3.4 (NEIS).
	22	22	49	18.9*	43.179	N	110.855	W	5	G			1.2	5	WYOMING. ML 3.2 (NEIS).
	22	23	42	26.0*	37.385	N	24.043	E	10	G			0.4	5	SOUTHERN GREECE. ML 3.1 (ATH).
	22	23	54	52.7%	38.763	N	26.835	E	10	G			1.1	6	AEGEAN SEA
	23	00	19	57.5*	2.728	S	103.558	E	308		4.4		0.9	16	SOUTHERN SUMATERA
	23	00	41	36.4%	38.823	N	26.947	E	10	G			0.8	5	AEGEAN SEA
	23	01	08	56.7	31.359	S	68.832	W	121		4.8		1.1	31	SAN JUAN PROVINCE, ARGENTINA. Felt (III) at San Juan.
	23	02	16	03.4&	60.853	N	151.737	W	15		3.9			47	KENAI PENINSULA, ALASKA. <AGS-P>. ML 3.8 (PMR). Felt (III) at Chugiak, Sterling and Skwentna. Felt (II) at Anchorage and Cooper Landing.
	23	02	34	14.9?	7.84	S	157.98	E	33	N	3.5		1.1	5	SOLOMON ISLANDS
	23	03	20	00.0	25.336	N	97.557	E	33	N	4.5		1.1	22	BURMA-CHINA BORDER REGION
	23	03	57	54.8?	51.07	N	19.58	E	10	G			1.3	7	POLAND. ML 3.1 (KRA).
	23	04	16	33.7*	35.091	N	139.731	E	51	?			0.5	10	NEAR S. COAST OF HONSHU, JAPAN. Felt (I JMA) at Ajiro and on Oshima.
	23	05	12	08.2*	44.483	N	114.165	W	5	G			0.6	7	WESTERN IDAHO. ML 2.7 (NEIS).
	23	05	21	30.9	39.203	N	25.380	E	10	G			0.8	22	AEGEAN SEA. ML 3.5 (ATH).
	23	05	53	26.8	8.467	S	119.626	E	188	*	4.7		1.1	23	FLORES ISLAND REGION
	23	07	04	55.4?	51.39	N	174.89	W	33	N	4.5		1.3	11	ANDREANOF ISLANDS, ALEUTIAN IS.
	23	07	25	10.3	21.004	S	69.159	W	157	*			0.6	11	NORTHERN CHILE
a	23	08	32	53.7	39.354	N	75.309	E	10	G	5.0 4.7		0.9	86	SOUTHERN XINJIANG, CHINA. Felt (IV) at Sufi-Kurgan and (III) at Osh, Aral and Arkit, USSR.
	23	09	20	37.4	37.639	N	118.741	W	5	G			0.8	18	CALIFORNIA-NEVADA BORDER REGION. ML 2.6 (BRK), 3.2 (PAS).
	23	09	21	13.7*	52.900	N	167.976	W	52	*	4.4		1.1	17	FOX ISLANDS, ALEUTIAN ISLANDS
	23	09	43	01.8?	51.38	N	174.72	W	33	N	3.8		1.7	6	ANDREANOF ISLANDS, ALEUTIAN IS.
	23	09	43	42.1*	51.450	N	174.996	W	33	N	4.7		0.9	17	ANDREANOF ISLANDS, ALEUTIAN IS.
	23	10	10	57.9	51.429	N	174.937	W	33	N	4.7		1.0	62	ANDREANOF ISLANDS, ALEUTIAN IS.
	23	10	52	34.7	51.403	N	174.870	W	33	N	4.8		1.0	59	ANDREANOF ISLANDS, ALEUTIAN IS.
	23	11	03	53.7	51.381	N	174.855	W	33	N	4.8		1.0	56	ANDREANOF ISLANDS, ALEUTIAN IS.
	23	11	09	55.6?	67.96	N	1B.72	W	10	G	4.3		1.2	10	ICELAND REGION
	23	11	16	03.0	51.355	N	174.888	W	33	N	4.8		1.1	37	ANDREANOF ISLANDS, ALEUTIAN IS.
	23	11	24	04.2%	38.861	N	26.914	E	10	G			0.7	5	AEGEAN SEA
	23	11	37	02.2%	38.749	N	26.771	E	10	G			0.8	5	AEGEAN SEA
	23	12	33	17.8	38.809	N	26.926	E	10	G			1.0	10	AEGEAN SEA
f	23	12	41	56.1	39.431	N	75.224	E	7	D	6.4 7.3		1.2	417	SOUTHERN XINJIANG, CHINA. Ms 7.5 (PAL), 7.2 (BRK), 7.0 (PAS). At least 71 people killed, 162 injured, about 15,000 homeless and about 85 percent of the buildings destroyed in the Wuqia-Shufu area. Cracks in highways and sand blows reported in Wuqia County. Slight damage at Kashi. Felt (VII) at Sufi-Kurgan and (VI) at Osh, Namangan and Andizhan, USSR. Felt throughout much of Tajikistan, Kirghizia and the Fergana Basin, USSR. Felt also at Rawalpindi, Islamabad and Peshawar, Pakistan.
	23	12	53	58.4?	39.46	N	75.40	E	10	G	4.9		0.5	18	SOUTHERN XINJIANG, CHINA
	23	12	54	58.6	39.649	N	75.071	E	10	G	5.2		0.6	50	SOUTHERN XINJIANG, CHINA
	23	13	01	30.8	39.502	N	75.219	E	10	G	4.8		0.6	21	SOUTHERN XINJIANG CHINA
	23	13	15	02.0	39.484	N	75.175	E	10	G	4.7		0.8	33	SOUTHERN XINJIANG, CHINA
	23	13	18	36.5?	39.58	N	75.22	E	10	G	4.6		0.5	13	SOUTHERN XINJIANG, CHINA
	23	13	31	18.7?	39.55	N	75.23	E	10	G			1.6	5	SOUTHERN XINJIANG, CHINA
	23	13	45	26.1	39.682	N	75.242	E	10	G	4.6		1.4	20	SOUTHERN XINJIANG, CHINA
	23	14	11	38.7	39.544	N	75.131	E	10	G	4.8		0.6	55	SOUTHERN XINJIANG, CHINA
	23	14	26	42.6*	41.949	N	24.618	E	10	G			1.5	5	GREECE-BULGARIA BORDER REGION
	23	15	19	32.8*	39.726	N	118.797	E	33	N			1.3	5	NORTHEASTERN CHINA
	23	15	23	00.3*	19.147	N	99.277	E	33	N			0.8	6	SOUTHEAST ASIA
	23	15	38	23.8	39.456	N	75.167	E	10	G	4.8		0.8	65	SOUTHERN XINJIANG, CHINA
	23	15	53	34.6*	39.845	N	74.694	E	10	G	4.6		0.9	13	SOUTHERN XINJIANG, CHINA
	23	16	25	27.9	39.515	N	75.120	E	10	G	4.8		0.8	65	SOUTHERN XINJIANG, CHINA
	23	16	30	42.9*	39.402	N	75.469	E	10	G	4.6		0.7	24	SOUTHERN XINJIANG, CHINA
	23	16	32	02.6&	36.827	N	121.582	W	1					11	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
	23	16	32	54.8	39.414	N	75.139	E	10	G	4.9		1.0	48	SOUTHERN XINJIANG, CHINA
	23	16	35	10.2	24.080	S	66.830	W	195	D	5.5		0.9	199	SALTA PROVINCE, ARGENTINA. Felt (III) at Antofagasta, Chile.

	23	16 55 05.2	13.914	N	120.775	E	178		5.0		1.1	35	MINDORO, PHILIPPINE ISLANDS
	23	17 20 15.1*	24.153	S	67.053	W	201	*			0.6	7	CHILE-ARGENTINA BORDER REGION
	23	17 29 34.4	17.747	S	178.794	W	573	*	4.7		0.8	50	FIJI ISLANDS REGION
	23	18 19 15.9	33.372	S	72.459	W	33	N	4.8		1.3	30	OFF COAST OF CENTRAL CHILE
	23	18 41 25.5?	39.55	N	75 12	E	10	G	4.6		0 7	6	SOUTHERN XINJIANG, CHINA
	23	18 43 00 2?	34.33	S	72.68	W	33	N			0.4	10	NEAR COAST OF CENTRAL CHILE
	23	19 19 02 4*	39.635	N	75.540	E	10	G	4.6		1.5	10	SOUTHERN XINJIANG, CHINA
	23	20 24 50.8?	30 46	S	67.63	W	10	G			0.5	5	SAN JUAN PROVINCE, ARGENTINA
	23	20 38 36.1	37.228	N	28.743	E	11		4.4		0 9	55	TURKEY ML 4.3 (ATH).
	23	21 16 22.4?	33.32	S	72.25	W	33	N			0 9	7	OFF COAST OF CENTRAL CHILE
	23	22 00 58.3*	20.949	S	178.606	W	586	*	4.9		0.9	43	FIJI ISLANDS REGION
	23	22 19 45 8&	61.172	N	151.363	W	68					33	SOUTHERN ALASKA <AGS-P>.
	23	22 49 48.3*	39.584	N	75.786	E	10	G	4.5		0.3	6	SOUTHERN XINJIANG, CHINA
	24	03 31 49.4*	28.623	S	70.144	W	150	?			1.5	10	CENTRAL CHILE
	24	04 17 52.8	39.343	N	75.333	E	10	G	4.9		0.8	36	SOUTHERN XINJIANG, CHINA
	24	05 26 23.0*	24.254	N	125.685	E	33	N	4.0		1.0	8	SOUTHWESTERN RYUKYU ISLANDS. Felt (11 JMA) on Miyoko-jimo.
	24	06 04 02.0&	45.670	N	76.640	W	18	G				4	SOUTHERN ONTARIO. <OTT-P>. mbLg 3.1 (OTT). Felt at Renfrew.
	24	06 08 40.0	50.275	N	7.917	E	28				1.3	59	GERMANY. ML 4.3 (LDG), 3.8 (GRF), 3.8 (FUR)
	24	06 17 03.3?	46.99	N	18.33	E	10	G			2.0	6	HUNGARY
a	24	06 53 14.8	22.021	S	177.799	W	348	D	5.5		0.9	236	SOUTH OF FIJI ISLANDS. mb 5.8 (BRK).
	24	07 00 05.0	48.319	N	148.055	E	399	*	4.7		0.6	94	NORTHWEST OF KURIL ISLANDS
	24	07 19 24.2*	18.688	S	69.667	W	33	N			1.1	6	NORTHERN CHILE
	24	09 09 02.8	43.622	N	146.981	E	62	*	4.6		1.0	32	KURIL ISLANDS. Felt (11 JMA) at Nemura and (1 JMA) at Kushiro, Hokkaido.
	24	09 20 31.3	54.735	N	164.128	E	33	N	4.3		0.8	5	KOMANDORSKY ISLANDS REGION
	24	09 44 06.2%	45.906	N	2.790	E	10	G			0.6	12	FRANCE. ML 2.6 (LDG).
	24	10 11 08.0*	36.057	N	71.638	E	105	?	4.5		1.4	17	AFGHANISTAN-USSR BORDER REGION
	24	11 39 15.0&	52.290	N	115.440	W	5	G	4.4			19	ALBERTA PROVINCE, CANADA. <PGC-P>. ML 4.5 (NEIS). Felt 15 kilometers southwest of Racky Mountain Hause.
	24	12 26 24.4?	39.33	N	75.38	E	10	G	4.9		1.2	8	SOUTHERN XINJIANG, CHINA
	24	12 59 18.7	38.831	N	26.933	E	10	G			1.0	11	AEGEAN SEA
	24	13 57 54.7	33.626	S	70.149	W	115		4.5		1.2	30	CHILE-ARGENTINA BORDER REGION
	24	14 34 30.4?	52.67	N	115.40	W	5	G			0.9	5	ALBERTA PROVINCE, CANADA. ML 3.4 (NEIS). Felt 15 km. southwest of Racky Mountain Hause.
	24	15 33 00.4?	39.37	N	75.17	E	10	G	4.4		1.0	6	SOUTHERN XINJIANG, CHINA
	24	16 00 03.4	50.197	N	156.720	E	80	D	5.2		0.8	89	KURIL ISLANDS
	24	16 14 31.3?	43.31	N	147.65	E	33	N	4.6		0.9	9	KURIL ISLANDS
	24	16 33 45.7?	36.15	N	141.44	E	33	N			0.8	6	NEAR EAST COAST OF HONSHU, JAPAN
	24	16 39 25.2*	36.436	N	71.092	E	220	?	4.3		0.5	13	AFGHANISTAN-USSR BORDER REGION
	24	17 51 38.8*	8.005	S	107.741	E	33	N	4.3		1.4	29	JAVA
	24	17 57 18.5?	17.39	S	167.93	E	31	?	4.8		1.5	7	VANUATU ISLANDS
	24	18 23 42.1?	39.32	N	75.13	E	10	G	5.0		1.3	8	SOUTHERN XINJIANG, CHINA
	24	19 07 58.2*	46.880	N	116.768	W	5	G			1.2	8	WESTERN IDAHO. ML 2.7 (NEIS).
	24	19 14 07.9?	2.16	N	127.79	E	33	N	4.7		0.9	8	MOLUCCA PASSAGE
	24	20 19 09.5*	2.252	S	68.067	E	10	G	4.8		0.7	7	CARLSBERG RIDGE
a	24	20 27 13.9	21.804	N	108.486	W	10	G	5.1	5.2	1.3	41	REVILLA GIGEDO ISLANDS REGION. Ms 5.6 (BRK).
	24	21 37 38.7%	39.368	N	28.892	E	10	G			1.3	6	TURKEY
	24	21 53 44.6*	31.568	S	66.624	W	33	N			0.9	9	LA RIOJA PROVINCE, ARGENTINA
	25	00 23 30.3*	36.593	N	71.040	E	175	?	4.1		1.1	10	AFGHANISTAN-USSR BORDER REGION
	25	01 36 07.6?	3.50	S	143.32	E	10	G	3.2		1.3	5	NEAR N COAST OF PAPUA NEW GUINEA
	25	03 02 37.3*	44.337	N	6.781	E	10	G			0.9	5	FRANCE. ML 2.6 (LDG).
	25	03 03 18.1*	24.191	S	66.984	W	197	*			1.0	10	SALTA PROVINCE, ARGENTINA
	25	03 22 08.7*	33.451	S	72.109	W	33	N	4.6		1.4	21	OFF COAST OF CENTRAL CHILE
	25	03 39 08.3?	37.14	N	12.84	E	10	G			1.1	9	SICILY
	25	03 42 30.4?	2.98	S	146.07	E	10	G	4.1		1.3	5	ADMIRALTY ISLANDS REGION
	25	03 51 59.2?	4.33	S	152.40	E	26	?	4.0		0.6	5	NEW BRITAIN REGION
	25	04 05 28.7	23.910	S	67.844	W	125		4.6		1.2	32	CHILE-ARGENTINA BORDER REGION
	25	04 38 04.8?	23.33	S	179.26	W	583	*	4.5		1.0	9	SOUTH OF FIJI ISLANDS
	25	05 09 44.2*	19.623	S	68.814	W	30	*			0.9	7	CHILE-BOLIVIA BORDER REGION
	25	06 10 07.9?	7.36	S	127.73	E	297	?	3.9		1.2	8	BANDA SEA
	25	06 30 20.1*	35.926	N	139.524	E	64	?			0.5	7	NEAR S. COAST OF HONSHU, JAPAN
	25	06 44 56.0*	39.630	N	74.987	E	10	G	4.6		0.9	21	SOUTHERN XINJIANG, CHINA
	25	08 10 06.5%	31.498	S	68.477	W	33	N			0.6	5	SAN JUAN PROVINCE, ARGENTINA
	25	09 05 20.0*	39.742	N	118.448	E	33	N			0.9	6	NORTHEASTERN CHINA
	25	09 08 03.0*	3.382	S	146.776	E	31	*	4.7		1.6	10	BISMARCK SEA
	25	09 30 38.4*	34.585	S	72.256	W	33	N	4.3		1.2	23	NEAR COAST OF CENTRAL CHILE
	25	09 31 01.0	47.121	N	10.191	E	10	G			0.8	9	AUSTRIA. ML 3.0 (KBA), 3.0 (GRF).
	25	09 52 43.7	28.012	N	140.784	E	56	*	4.9		0.8	19	BONIN ISLANDS REGION
a	25	10 07 59.4	53.764	N	158.924	E	132	D	5.3		0.9	200	NEAR EAST COAST OF KAMCHATKA
	25	10 28 07.5&	40.047	N	121.288	W	5					12	NORTHERN CALIFORNIA. <BRK>. ML 3.1 (BRK).
	25	10 37 19.9*	30.526	S	13.430	W	10	G	4.6	4.7	1.2	12	SOUTH ATLANTIC RIDGE
a	25	11 51 57.5	2.727	N	128.706	E	69	*	5.2		1.1	57	HALMAHERA
	25	12 04 45.2	23.410	N	45.023	W	10	G	5.0	4.6	0.7	88	NORTH ATLANTIC RIDGE
	25	12 39 45.3?	34.22	S	72.42	W	33	N	3.3		0.6	10	NEAR COAST OF CENTRAL CHILE
	25	14 31 00.6*	28.109	N	140.646	E	33	N	4.9		1.0	17	BONIN ISLANDS REGION
	25	15 21 03.5?	0.93	S	126.89	E	33	N	4.3		1.5	7	MOLUCCA SEA
	25	15 22 36.6	39.596	N	75.081	E	10	G	4.8		1.0	41	SOUTHERN XINJIANG, CHINA
	25	15 33 59.0?	6.94	S	129.49	E	167	?	3.8		0.5	6	BANDA SEA
	25	15 50 33.0*	28.112	N	140.931	E	33	N	4.9		0.3	6	BONIN ISLANDS REGION
	25	17 17 11.4*	14.781	S	167.365	E	216	*	4.3		1.0	24	VANUATU ISLANDS
	25	17 39 57.4*	56.500	N	34.622	W	10	G	4.5		0.8	25	NORTH ATLANTIC OCEAN
	25	18 42 21.2	25.448	N	97.714	E	33	N	5.0	4.0	0.9	97	BURMA-CHINA BORDER REGION
	25	19 01 35.1?	20.91	S	178.84	W	634	?	4.5		1.0	14	FIJI ISLANDS REGION
	25	19 29 44.0*	10.505	S	165.810	E	195	*	4.3		0.8	10	SANTA CRUZ ISLANDS
	25	19 37 55.0?	41.81	N	20.15	E	10	G			0.2	5	ALBANIA
	25	20 36 54.3*	19.505	S	70.193	W	33	N			0.7	7	NEAR COAST OF NORTHERN CHILE
	25	21 00 40.2?	34.00	S	72.60	W	33	N			0.7	7	OFF COAST OF CENTRAL CHILE
	25	22 03 03.9	39.181	N	26.146	E	10	G			0.9	18	TURKEY
	25	22 05 27.7	0.752	N	98.688	E	87	*	4.7		1.0	25	NORTHERN SUMATERA
	25	22 37 04.9?	51.52	N	171.31	E	33	N	4.5		0.2	6	NEAR ISLANDS, ALEUTIAN ISLANDS
	25	23 53 47.9*	21.889	S	68.864	W	150	?			1.7	8	CHILE-BOLIVIA BORDER REGION

	26	00	32	16.0*	24.878	N	96.940	E	33	N		1.5	6	BURMA
	26	01	18	06.5*	33.258	S	72.384	W	33	N	4.2	1.0	9	OFF COAST OF CENTRAL CHILE
	26	02	26	39.6?	45.38	N	148.31	E	33	N	4.5	0.6	12	KURIL ISLANDS
	26	03	25	10.9*	24.634	N	122.514	E	10	G	4.1	1.4	7	TAIWAN REGION
	26	04	11	53.3?	33.26	S	72 94	W	33	N		0 4	7	OFF COAST OF CENTRAL CHILE
	26	04	21	54 9	7 789	N	37.937	W	10	G	4.6	1 4	6	CENTRAL MID-ATLANTIC RIDGE
	26	05	41	28 6?	30.93	S	70.69	W	33	N		0.6	6	CHILE-ARGENTINA BORDER REGION
	26	07	51	12 6?	46 64	N	4.72	E	10	G		0.2	5	FRANCE ML 2.4 (LDG)
	26	08	31	01 7?	34 22	S	72 74	W	33	N		0.5	9	NEAR COAST OF CENTRAL CHILE
	26	08	47	00.1*	39.386	N	26.143	E	10	G		1.2	7	TURKEY
	26	09	06	02.0*	51.263	N	179 041	W	33	N	4.8	1.2	35	ANDREANOF ISLANDS, ALEUTIAN IS.
	26	09	11	18.7*	8 882	S	78 606	W	33	N	4.3	1 2	16	NEAR COAST OF NORTHERN PERU. Felt at Chimbote and Trujillo
	26	11	31	53.2*	24.384	N	121.927	E	10	G		0 7	6	TAIWAN
	26	12	31	50.6*	29.321	S	20.125	E	5	G		0 8	8	REPUBLIC OF SOUTH AFRICA
o	26	14	08	23.1	6.895	S	148.933	E	33	N	5.2 6 1	1 1	115	NEW BRITAIN REGION Ms 6.0 (BRK), 5.7 (PAS).
	26	14	47	36 9*	18.871	S	72.717	W	33	N	4.3	1.3	15	OFF COAST OF NORTHERN CHILE
	26	14	58	07.8%	39.329	N	27.910	E	10	G		1.1	6	TURKEY
	26	15	15	16.6*	11.266	S	166.659	E	158	*	4.8	0.8	23	SANTA CRUZ ISLANDS
	26	15	43	37.2	36.212	N	142.241	E	32	D	5.1	1.1	136	OFF EAST COAST OF HONSHU, JAPAN
	26	16	04	08.6*	36.034	N	141.559	E	45	*	4.1	0.8	17	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Mit
	26	17	20	10.2?	59.37	N	6.66	E	10	G		0.4	5	SOUTHERN NORWAY. DUR 2.5 (BER).
	26	19	13	47.2	4.684	S	139.133	E	33	N	4.7	1.3	23	WEST IRIAN
	26	19	50	47.2*	24.434	N	121.816	E	10	G		1.0	6	TAIWAN
	26	21	48	16.9?	31.96	S	71.14	W	33	N		0.6	6	NEAR COAST OF CENTRAL CHILE
	26	22	59	16.4*	30.747	S	141.883	E	33	N		1.0	7	NEW SOUTH WALES, AUSTRALIA
	26	23	47	01.9*	31.307	S	71.300	W	33	N		0.5	8	NEAR COAST OF CENTRAL CHILE
	27	00	15	50.5	26.507	N	44.666	W	10	G	4.7 4.9	1.0	36	NORTH ATLANTIC RIDGE
	27	00	24	21.7	26.451	N	44.602	W	10	G	5.1 4.8	0.9	118	NORTH ATLANTIC RIDGE
	27	03	04	06.8&	37.412	N	118.633	W	6				34	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 4.3 (BRK), 4.6 (PAS). Felt (III) at Bishop, Dunlap, Badger, and Boss Lake, California. Also felt at North Fork and Lake Sabrino, California.
	27	03	12	51.0*	27.570	N	140.993	E	33	N	5.0	1.2	14	BONIN ISLANDS REGION
	27	03	59	08.8*	7.030	S	129.664	E	153	?	4.3	1.4	8	BANDA SEA
	27	05	57	02.2*	30.636	N	68.036	E	33	N	4.7	1.0	10	PAKISTAN
o	27	06	29	32.9	20.941	S	178.956	W	626		5.2	1.0	108	FIJI ISLANDS REGION
	27	06	40	08.1&	59.489	N	152.658	W	88				17	SOUTHERN ALASKA. <AGS-P>.
	27	07	04	59.5	31.047	S	70.377	W	27			1 0	16	CHILE-ARGENTINA BORDER REGION
o	27	07	39	14.4	17.530	S	173.300	W	36	D	5.9 5.3	1.0	242	TONGA ISLANDS
	27	09	14	58.0?	39 56	N	24.63	E	10	G		0.6	5	AEGEAN SEA
	27	09	29	58.6*	9.220	S	117.611	E	33	N	4.6	1.1	8	SUMBAWA ISLAND REGION
o	27	10	44	34.5	21 465	S	67.498	W	197	D	5.4	1.2	159	CHILE-BOLIVIA BORDER REGION. mb 5.4 (BRK).
	27	12	14	12.2*	4.332	S	152.525	E	33	N	3.9	1.5	5	NEW BRITAIN REGION
	27	12	41	32.6	42.188	N	26.007	E	10	G		0.2	6	BULGARIA
	27	13	46	21.2	4.934	S	152.863	E	33	N	4.3	0.6	7	NEW BRITAIN REGION
	27	13	52	18.7&	62.354	N	149.784	W	56				35	CENTRAL ALASKA. <AGS-P>.
	27	14	52	12.3*	1.590	S	77.946	W	169	*	4.3	1.1	9	ECUADOR
	27	15	14	46.0&	61.850	N	147.645	W	30				40	SOUTHERN ALASKA. <AGS-P>. ML 3.0 (PMR).
	27	16	14	13.7	22.509	S	170.697	E	51	*	4.1	1.3	24	LOYALTY ISLANDS REGION
	27	16	42	54.6?	31.42	S	68.72	W	101	?		0.2	5	SAN JUAN PROVINCE, ARGENTINA
	27	18	05	31.4?	21.19	S	34.02	E	10	G	4.6	1.2	8	MOZAMBIQUE
	27	18	07	30.2	58.947	S	25.427	W	33	N	5.4	0.7	39	SOUTH SANDWICH ISLANDS REGION
	27	18	07	41.9*	22.566	S	170.603	E	33	N	4.1	1.1	16	LOYALTY ISLANDS REGION
	27	18	30	51.5*	36.204	N	120.048	W	10	G		0.8	11	CENTRAL CALIFORNIA. ML 2.7 (BRK).
	27	19	02	06.5*	36.036	N	120.055	W	10	G		0.9	11	CENTRAL CALIFORNIA. ML 2.8 (BRK), 3.1 (PAS).
	27	19	23	41.7*	20.745	S	178.814	W	625	*	4.8	1.0	35	FIJI ISLANDS REGION
	27	20	06	23.9?	33.93	S	71.87	W	33	N		0.7	9	NEAR COAST OF CENTRAL CHILE
	27	21	06	56.9	36.435	N	71.315	E	33	N	4.6	1.0	22	AFGHANISTAN-USSR BORDER REGION
	27	21	12	08.7*	31.712	S	67.920	W	10	G		0.9	7	SAN JUAN PROVINCE, ARGENTINA
	27	21	14	11.1?	20.38	S	70.91	W	33	N		1.5	7	NEAR COAST OF NORTHERN CHILE
	27	21	41	00.9*	56.424	S	30.520	W	33	N	4.9	1.0	18	SOUTH SANDWICH ISLANDS REGION
	27	23	10	44.3?	56.70	S	25.50	W	33	N	4.8	0.7	7	SOUTH SANDWICH ISLANDS REGION
	27	23	15	28.3*	34.708	N	137.454	E	27	*		1.4	8	NEAR S. COAST OF HONSHU, JAPAN. Felt at Hamamatsu.
	27	23	23	01.3	43.124	N	0.524	W	10	G		0.7	8	PYRENEES. ML 2.9 (LDG).
	27	23	40	12.0&	62.659	N	151.377	W	97				22	CENTRAL ALASKA. <AGS-P>.
	28	00	09	57.5	39.337	N	75.382	E	10	G	4.8 4.2	0.6	57	SOUTHERN XINJIANG, CHINA
	28	00	33	39.5	37.191	N	23.202	E	56	*	4.5	1.0	43	SOUTHERN GREECE
	28	00	37	53.7?	19.94	S	70.84	W	33	N	4.7	1.5	25	NEAR COAST OF NORTHERN CHILE
	28	01	00	14.2&	61.555	N	149.840	W	46				36	SOUTHERN ALASKA. <AGS-P>.
	28	02	37	09.2	31.365	S	68.069	W	10	G		0.9	12	SAN JUAN PROVINCE, ARGENTINA
a	28	03	10	05.4	22.164	S	171.141	E	124	*	5.3	1.1	60	LOYALTY ISLANDS REGION
	28	06	05	26.4*	41.110	S	91.049	W	33	N	4.8	1.1	33	SOUTHERN PACIFIC OCEAN
	28	07	34	02.9*	31.522	S	68.498	W	33	N		0.6	5	SAN JUAN PROVINCE, ARGENTINA
	28	11	21	27.9*	31.518	S	67.891	W	106	*		1.1	13	SAN JUAN PROVINCE, ARGENTINA
	28	11	35	41.5*	39.189	N	75.230	E	10	G	4.6	1.4	7	SOUTHERN XINJIANG, CHINA
	28	13	09	08.9*	44.200	N	81.066	E	33	N	4.3	1.3	18	NORTHERN XINJIANG, CHINA
	28	13	16	51.6*	59.286	N	6.877	E	10	G		0.3	5	SOUTHERN NORWAY. DUR 2.5 (BER).
	28	15	08	24.6*	44.412	N	114.413	W	5	G		0.4	8	WESTERN IDAHO. ML 3.1 (NEIS).
	28	15	19	28.2*	44.077	N	38.999	E	33	N	4.1	1.0	8	WESTERN CAUCASUS
	28	16	47	57.2*	24.440	N	121.755	E	10	G		0.4	5	TAIWAN
	28	17	52	29.1	31.581	S	67.043	W	134			1.0	25	SAN JUAN PROVINCE, ARGENTINA
	28	18	16	29.7*	22.174	S	171.680	E	62	*	4.8	1.5	36	LOYALTY ISLANDS REGION
	28	18	37	32.3*	31.571	S	68.267	W	10	G		1.7	5	SAN JUAN PROVINCE, ARGENTINA
	28	18	44	00.2	0.906	S	79.279	W	33	N	4.8	1.1	20	ECUADOR
	28	19	10	11.3	44.483	N	114.215	W	5	G		0.7	12	WESTERN IDAHO. ML 3.6 (NEIS).
	28	20	20	37.8*	44.425	N	114.351	W	5	G		0.3	9	WESTERN IDAHO. ML 3.1 (NEIS).
f	28	20	50	48.3	21.011	S	178.981	W	625	D	6.1	1.0	370	FIJI ISLANDS REGION. mb 6.2 (BRK).
	28	21	26	45.4*	31.393	S	68.814	W	124	*		0.9	10	SAN JUAN PROVINCE, ARGENTINA
	28	21	27	10.4&	61.146	N	151.119	W	64				28	SOUTHERN ALASKA. <AGS-P>.
	28	21	38	04.6	21.042	S	178.967	W	619		5.1	1.0	59	FIJI ISLANDS REGION
	29	02	28	55.2*	8.008	S	107.905	E	33	N	4.7	0.8	13	JAVA
	29	02	57	17.8	1.770	N	122.973	E	441	*	4.9	1.3	34	MINAHASSA PENINSULA

a	29	03	45	07.4	40.153	N	142.605	E	44		5.3	4.8	1.0	175	NEAR EAST COAST OF HONSHU, JAPAN. Felt (III JMA) at Hachinahe, Miyako, Moriaka and Ofunato and (I JMA) at Sendai.
	29	04	34	52.9*	19.265	S	68.529	W	33	N			1.0	5	CHILE-BOLIVIA BORDER REGION
	29	04	55	04 7&	32.870	N	115.500	W	10					8	CALIFORNIA-MEXICO BORDER REGION <PAS-P>. ML 3.2 (PAS).
a	29	06	13	10.8	57.243	S	25.333	W	50	D	5.6	5.0	1.2	71	SOUTH SANDWICH ISLANDS REGION
	29	06	25	38 8*	57.273	S	25.427	W	45	D	5.2		1.1	47	SOUTH SANDWICH ISLANDS REGION
	29	06	58	13.5	26.313	S	27.146	E	5	G			1.3	10	REPUBLIC OF SOUTH AFRICA
	29	07	21	42.2?	0.41	N	28.11	W	10	G	4.5	4.5	1.1	8	CENTRAL MID-ATLANTIC RIDGE
	29	07	59	08.6&	34.310	N	116.820	W	5					17	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.0 (PAS), 4.3 (BRK). Felt at Big Bear Lake.
	29	08	20	07.8	22.119	N	144.347	E	48	*	5.0	4.5	0.8	37	VOLCANO ISLANDS REGION
	29	09	50	41.2	30.727	S	117.223	E	10	G			0.8	7	WESTERN AUSTRALIA
	29	11	12	39.7	45.007	N	7.385	E	14				0.7	43	NORTHERN ITALY. ML 3.6 (LDG), 3.0 (KBA).
	29	12	36	55.7	47.070	N	18.095	E	10	G			1.2	12	HUNGARY. ML 3.2 (VKA)
	29	13	15	05.1	39.338	N	75.178	E	10	G	4.7		0.8	49	SOUTHERN XINJIANG, CHINA
	29	13	17	31.2*	39.601	N	75.100	E	10	G	4 5		0.6	12	SOUTHERN XINJIANG, CHINA
	29	14	10	32.4	28.241	N	140.505	E	12		5.1		1.1	50	BONIN ISLANDS REGION
	29	14	40	38.9	24.147	N	122.252	E	43	*	4.6		1.2	34	TAIWAN REGION
	29	14	46	36.0	21.746	S	69.013	W	140	*	4.7		1.3	18	NORTHERN CHILE
	29	20	01	53.5*	2.897	S	128.061	E	96	*	4.3		0.9	6	CERAM SEA
	29	22	58	20.7*	24.531	N	122.234	E	10	G	4.5		0.9	6	TAIWAN REGION
	29	23	18	04.3	28.081	N	140.776	E	21		5.2		1.0	68	BONIN ISLANDS REGION
a	29	23	39	48.8	39.441	N	75.452	E	17	*	5.2	4.3	0.9	169	SOUTHERN XINJIANG, CHINA. Felt (III) at Sufi-Kurgan and Sary-Tash, USSR.
	30	00	53	32.9?	6.11	N	126.16	E	33	N	4.3		0.5	8	MINDANAO, PHILIPPINE ISLANDS
	30	01	13	54.6?	36.30	N	140.52	E	31	*			0.5	6	NEAR EAST COAST OF HONSHU, JAPAN
	30	01	18	29.6	3.169	S	130.334	E	61	*	5.1		1.2	56	CERAM
	30	04	05	08.8*	19.911	S	71.187	W	33	N			1.0	9	OFF COAST OF NORTHERN CHILE
	30	04	08	07.3?	34.17	S	72.30	W	33	N			0.5	9	NEAR COAST OF CENTRAL CHILE
	30	04	44	47.7?	7.63	S	77.80	W	33	N	4.3		1.5	8	NORTHERN PERU
	30	04	46	49.0*	45.036	N	14.808	E	10	G			1.4	16	YUGOSLAVIA. ML 3.3 (KBA). Felt at Molinska, Njivice and Omisalj.
	30	04	56	58.3	33.042	S	68.658	W	33	N			0.9	17	MENDOZA PROVINCE, ARGENTINA
	30	05	26	48.2&	37.290	N	121.683	W	5					13	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
	30	05	58	13.4?	31.39	S	68.17	W	10	G			0.3	5	SAN JUAN PROVINCE, ARGENTINA
	30	06	25	30.7	27.786	N	140.870	E	33	N	5.1		1.5	9	BONIN ISLANDS REGION
	30	06	52	53.9*	40.951	N	29.292	E	10	G			0.3	5	TURKEY
	30	06	55	21.7	28.011	N	140.789	E	27		4.7		1.0	56	BONIN ISLANDS REGION. Felt (II JMA) on Chichi-shima.
	30	06	55	47.2	28.061	N	140.787	E	33	N	5.1		1.2	48	BONIN ISLANDS REGION
	30	08	10	42.1?	2.97	S	152.93	E	33	N	4.0		1.2	5	NEW IRELAND REGION
	30	08	53	37.2	31.933	S	71.645	W	33	N			0.4	18	NEAR COAST OF CENTRAL CHILE
	30	10	22	57.2	16.932	S	173.585	W	93	D	4.9		1.0	58	TONGA ISLANDS
	30	10	54	12.1	36.277	N	71.042	E	112	D	5.0		1.1	97	AFGHANISTAN-USSR BORDER REGION. Felt (IV) at Ishkashim and Khorog; (III) at Kalaikhum, Kulyab and Dushanbe; and (II) at Samarkand, USSR.
	30	11	39	45.1	22.679	S	68.133	W	178	*			0.9	12	NORTHERN CHILE
	30	12	40	39.3	28.028	N	140.851	E	40	*	5.3		0.9	16	BONIN ISLANDS REGION
	30	13	00	29.5*	25.801	N	102.772	E	10	G			1.8	5	YUNNAN PROVINCE, CHINA
	30	14	24	32.4*	7.002	N	126.902	E	65	*	4.5		1.0	23	MINDANAO, PHILIPPINE ISLANDS
	30	14	51	40.0?	59.30	N	6.97	E	10	G			0.3	5	SOUTHERN NORWAY. DUR 2.5 (BER).
	30	15	09	49.8*	24.437	N	122.036	E	28		3.7		1.4	14	TAIWAN REGION
	30	15	11	43.8*	24.410	N	121.826	E	10	G			0.3	6	TAIWAN
	30	15	16	28.3?	41.81	N	19.68	E	10	G			0.3	5	ALBANIA. ML 2.7 (HCY).
	30	16	17	48.9	28.080	N	140.826	E	40	*	5.0		0.8	30	BONIN ISLANDS REGION. Felt (I JMA) on Chichi-shima.
a	30	17	31	11.9	53.097	N	172.629	E	33	N	5.1	5.0	1.0	70	NEAR ISLANDS, ALEUTIAN ISLANDS. ML 5.6 (PMR).
	30	17	55	55.1*	53.194	N	173.757	E	33	N	3.9		1.0	7	NEAR ISLANDS, ALEUTIAN ISLANDS. ML 4.3 (PMR).
	30	18	47	14.1*	67.638	N	18.979	W	10	G	4.5	3.9	1.1	10	ICELAND REGION
	30	18	50	04.5?	31.69	S	69.77	W	33	N			1.1	6	SAN JUAN PROVINCE, ARGENTINA
a	30	19	01	41.4	67.700	N	18.541	W	10	G	5.1	4.6	1.0	57	ICELAND REGION
	30	19	15	56.7	25.931	N	102.815	E	10	G	4.8		1.4	51	YUNNAN PROVINCE, CHINA
	30	20	09	08.0*	24.392	S	66.785	W	266	*			1.3	9	SALTA PROVINCE, ARGENTINA
	30	20	27	10.7	16.982	N	119.938	E	29	D	5.4		1.0	148	LUZON, PHILIPPINE ISLANDS. Felt (III RF) at Santa and (II RF) at Baguio and Pasuquin.
	30	21	08	06.9	43.166	N	110.890	W	5	G	4.2		0.9	18	WYOMING. ML 4.3 (NEIS). Felt (V) at Alpine. Also felt in the Jackson area and in parts of eastern Idaho.
	30	21	08	39.8*	31.423	S	68.115	W	10	G			0.9	6	SAN JUAN PROVINCE, ARGENTINA
	30	21	21	26.5	16.915	N	119.864	E	33	N	5.0		1.2	26	LUZON, PHILIPPINE ISLANDS. Felt (II RF) at Santa.
	30	21	38	06.0&	41.970	N	54.190	W	18	G				2	NORTH ATLANTIC OCEAN. <OTT-P>. ML 4.1 (OTT).
	30	22	09	14.8*	38.361	N	21.809	E	10	G			1.2	13	GREECE. ML 3.2 (ATH).
	30	23	43	10.0?	18.30	S	69.70	W	161	?			0.3	6	NORTHERN CHILE
	31	00	20	29.7&	59.490	N	152.962	W	84					43	SOUTHERN ALASKA. <AGS-P>.
	31	00	28	49.2	44.427	N	114.229	W	5	G			0.7	11	WESTERN IDAHO. ML 3.3 (NEIS).
	31	00	46	41.4*	45.618	N	14.295	E	10	G			0.2	6	YUGOSLAVIA. ML 2.7 (KBA).
	31	01	21	10.3*	15.014	S	75.459	W	78	*	5.4		0.9	27	NEAR COAST OF PERU
	31	01	44	27.1*	11.350	S	118.779	E	33	N	4.2		0.8	8	SOUTH OF SUMBAWA ISLAND
	31	03	31	40.1?	32.61	S	70.53	W	33	N			1.0	8	CHILE-ARGENTINA BORDER REGION
	31	04	05	11.0?	35.15	S	72.35	W	33	N			0.9	18	NEAR COAST OF CENTRAL CHILE
	31	04	22	38.0?	31.82	S	68.32	W	106	?			0.3	8	SAN JUAN PROVINCE, ARGENTINA
	31	06	03	48.3	39.159	N	20.618	E	43		4.5		1.3	114	GREECE-ALBANIA BORDER REGION. Some minor injuries, damage and landslides in the Preveza area, Greece.
	31	06	16	13.0*	38.973	N	20.256	E	10	G	3.6		0.9	7	GREECE. ML 3.9 (ATH).
	31	06	30	33.9*	28.082	N	140.831	E	16	*	4.0		1.4	22	BONIN ISLANDS REGION. Felt (II JMA) an Chichi-shima.
	31	06	30	42.0	28.068	N	140.774	E	33	N	5.2		1.1	86	BONIN ISLANDS REGION
	31	06	33	10.7	39.041	N	20.345	E	10	G	4.2		1.2	18	GREECE-ALBANIA BORDER REGION. ML 3.8 (ATH).
	31	06	58	38.0&	60.180	N	140.943	W	10					32	SOUTHEASTERN ALASKA. <AGS-P>. ML 4.3 (PMR).
	31	07	26	50.1*	3.256	S	135.014	E	33	N	4.4		1.4	15	WEST IRIAN REGION
	31	07	52	41.8*	28.046	S	66.480	W	33	N			0.8	8	CATAMARCA PROVINCE, ARGENTINA
	31	08	09	56.5	43.176	N	0.013	W	10	G			0.7	12	PYRENEES. ML 3.2 (LDG).
	31	08	34	29.4	22.989	S	66.369	W	255		4.3		0.9	14	JUJUY PROVINCE, ARGENTINA
	31	08	41	35.9	39.158	N	20.362	E	10	G			0.9	8	GREECE-ALBANIA BORDER REGION. ML 3.7 (ATH).
	31	12	06	16.7	27.874	N	140.741	E	46	*	5.1		1.0	19	BONIN ISLANDS REGION
	31	12	31	50.2*	55.519	N	163.636	E	33	N	5.1		1.1	12	OFF EAST COAST OF KAMCHATKA

31	13 25 52.4&	35.995	N	119.973	W	5			15	CENTRAL CALIFORNIA. <BRK>. ML 3.0 (BRK), 3.1 (PAS).
31	14 11 59.6*	35.091	S	70.318	W	33	N	0.8	9	CHILE-ARGENTINA BORDER REGION
31	15 46 04.7	47.995	N	7.514	E	10	G	0.4	6	SWITZERLAND. ML 2.7 (LDG).
31	16 24 13.5	19.832	N	121.154	E	33	N 4.6	1.4	32	PHILIPPINE ISLANDS REGION
31	17 55 02.9*	21.013	S	68.766	W	166	?	0.7	7	CHILE-BOLIVIA BORDER REGION
31	17 56 16.0	15.322	S	167.505	E	147	* 4.9	1.2	46	VANUATU ISLANDS
31	18 07 20.3?	50.92	N	19.55	E	10	G	0.9	8	POLAND. ML 3.0 (KRA).
31	18 18 07 0	15.341	S	69.644	W	191	*	1.3	7	PERU-BOLIVIA BORDER REGION
31	18 47 28.4	12.988	S	169.221	E	659	4.7	0.9	65	SANTA CRUZ ISLANDS REGION
31	19 53 07.2?	18.26	S	63.65	W	33	N	0.8	7	BOLIVIA
31	23 04 36.1&	59.844	N	152.476	W	86			35	SOUTHERN ALASKA. <AGS-P>.

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

01 12 13 46.24 29.177N 95.176E 45km
5 4mb (77 obs.) 5 4Msz (11 obs.)
INDIA-CHINA BORDER REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 27C
Centroid Location:
Origin Time 12:13:52.0 0.3
Lat 29.24N 0.04 Lon 95.53E 0.05
Dep 40.0 BDY Half-duration 2.5
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	4.11	50	187
N	0.28	14	294
P	-4.38	37	34

Best Double Couple:Mo=4.2*10**24
NP1:Strike=176 Dip=15 Slip= 153
NP2: 292 83 76

01 14 35 03.14 45.711N 26.506E 107km
5.3mb (61 obs.)
ROMANIA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 24C
Centroid Location:
Origin Time 14:35: 6.4 1.0
Lat 45.77N 0.16 Lon 26.95E 0.15
Dep 102.7 5.5 Half-duration 1.6
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	9.27	42	130
N	-2.61	8	32
P	-6.65	46	293

Best Double Couple:Mo=8.0*10**23
NP1:Strike=288 Dip= 9 Slip= -14
NP2: 32 88 -98

01 23 15 14.88 57.725S 25.320W 31km
5.6mb (19 obs.) 4.9Msz (5 obs.)
SOUTH SANDWICH ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 29C
Centroid Location:
Origin Time 23:15:23.8 0.5
Lat 57.54S 0.06 Lon 25.67W 0.09
Dep 24.5 3.8 Half-duration 1.9
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	2.13	62	265
N	0.35	3	170
P	-2.48	28	79

Best Double Couple:Mo=2.3*10**24
NP1:Strike=162 Dip=17 Slip= 81
NP2: 351 73 93

02 03 05 47.46 24.439S 179.800E 506km
5.0mb (21 obs.)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 10C
Centroid Location:
Origin Time 03:05:55.7 1.7
Lat 25.31S 0.31 Lon 179.69E 0.20
Dep 523.4 8.8 Half-duration 1.2
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	4.34	18	94
N	0.35	23	193
P	-4.69	60	330

Best Double Couple:Mo=4.5*10**23
NP1:Strike=153 Dip=33 Slip=-135
NP2: 23 67 -65

02 07 46 53.30 36.174N 70.780E 120km
6.1mb (79 obs.)
HINDU KUSH REGION
FAULT PLANE SOLUTION: P-Woves
NP1:Strike= 63 Dip=63 Slip= 43
NP2: 310 53 145
Principal Axes:

	Plg=	Azm=
T	49	281
P	6	184

Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting with a large reverse component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 109 No. of sta: 20
Principal Axes:
Scale 10**25 d-cm

	Val=	Plg=	Azm=
T	3.50	74	301
N	0.01	7	55
P	-3.52	15	146

Best Double Couple:Mo=3.5*10**25
NP1:Strike=246 Dip=31 Slip= 103
NP2: 51 60 82
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 21S, 49C
Centroid Location:
Origin Time 07:46:57.4 0.2
Lat 35.92N 0.02 Lon 70.70E 0.03
Dep 119.6 0.8 Half-duration 5.6
Principal Axes:
Scale 10**25 D-CM

	Val=	Plg=	Azm=
T	3.47	75	295
N	0.60	11	72
P	-4.07	10	164

Best Double Couple:Mo=3.8*10**25
NP1:Strike=267 Dip=36 Slip= 109
NP2: 64 56 77

03 11 58 15.84 36.090N 70.774E 102km
5.1mb (60 obs.)
HINDU KUSH REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 15C
Centroid Location:
Origin Time 11:58:18.1 1.2
Lat 35.40N 0.13 Lon 70.06E 0.22
Dep 124.5 4.2 Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	5.25	82	180
N	0.11	1	83
P	-5.36	7	353

Best Double Couple:Mo=5.3*10**23
NP1:Strike= 82 Dip=38 Slip= 88
NP2: 264 52 91

04 02 36 23.87 7.496N 123.500E 36km
5.9mb (62 obs.) 6.2Msz (25 obs.)
MINDANAO, PHILIPPINE ISLANDS
FAULT PLANE SOLUTION: P-Woves
NP1:Strike=200 Dip=74 Slip= 157
NP2: 297 68 17
Principal Axes:

	Plg=	Azm=
T	27	157
P	4	249

Comment: The focal mechanism is well controlled and corresponds to strike-slip faulting with a moderate reverse component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 19 No. of sta: 11
Principal Axes:
Scale 10**25 d-cm

	Val=	Plg=	Azm=
T	5.16	23	161
N	0.03	65	5
P	-5.18	9	255

Best Double Couple:Mo=5.2*10**25
NP1:Strike=301 Dip=67 Slip= 11
NP2: 206 80 156
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 40C M.W.: 12S, 22C
Centroid Location:
Origin Time 02:36:26.7 0.2
Lat 7.47N 0.02 Lon 123.53E 0.02
Dep 24.5 1.4 Half-duration 6.0
Principal Axes:
Scale 10**25 D-CM

	Val=	Plg=	Azm=
T	4.75	27	149
N	0.35	55	12
P	-5.11	20	250

Best Double Couple:Mo=4.9*10**25
NP1:Strike=292 Dip=55 Slip= 6
NP2: 198 85 145

04 04 54 02.54 44.885S 75.679W 28km
5.6mb (27 obs.) 5.4Msz (8 obs.)
OFF COAST OF SOUTHERN CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 27C
Centroid Location:
Origin Time 04:54: 5.1 0.4
Lat 45.37S 0.07 Lon 76.14W 0.08
Dep 10.0 FIX Half-duration 2.8
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	7.26	23	90
N	-0.89	10	356
P	-6.37	65	243

Best Double Couple:Mo=6.8*10**24
NP1:Strike=199 Dip=24 Slip= -64
NP2: 352 68 -101

04 12 01 57.00 36.130N 120.127W 11km
5.4mb (67 obs.) 5.9Msz (17 obs.)
CENTRAL CALIFORNIA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 37C
Centroid Location:
Origin Time 12:02: 5.5 0.4
Lat 35.96N 0.05 Lon 120.45W 0.06
Dep 10.0 BDY Half-duration 3.5
Principal Axes:
Scale 10**25 D-CM

	Val=	Plg=	Azm=
T	1.68	55	210
N	-0.07	3	304
P	-1.61	35	36

Best Double Couple:Mo=1.6*10**25
NP1:Strike=138 Dip=10 Slip= 105
NP2: 304 80 87

04 19 43 32.30 5.161S 152.589E 45km
5.3mb (22 obs.) 4.6Msz (2 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 28C
Centroid Location:
Origin Time 19:43:35.0 0.3
Lat 5.13S 0.06 Lon 152.69E 0.04
Dep 15.6 4.2 Half-duration 2.2
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	1.27	64	358
N	0.08	1	266
P	-1.35	26	176

Best Double Couple:Mo=1.3*10**24
NP1:Strike=264 Dip=19 Slip= 88
NP2: 87 71 91

06 00 14 35.97 20.083S 178.318W 607km
5.1mb (19 abs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L P B. 14S, 26C
Centroid Location
Origin Time 00:14:43.6 0.5
Lat 20.10S 0 04 Lan 178.48W 0 05
Dep 613 8 2.5 Half-duration 2.3
Principal Axes.
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	2 60	55	165
N	0.28	10	60
P	-2.88	33	323

Best Double Couple:Mo=2.7*10**24
NP1:Strike= 19 Dip=15 Slip= 48
NP2: 242 79 101

06 02 29 44.14 41.192S 85.894W 10km
4.9mb (10 obs.) 5.3Msz (9 obs.)
WEST CHILE RISE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 41C
Centroid Locatian:
Origin Time 02:29:49.5 0.1
Lat 41.29S 0.02 Lon 85.88W 0.03
Dep 10.0 FIX Half-duration 3.4
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	9.38	2	39
N	-0.98	79	137
P	-8.40	10	309

Best Double Couple:Mo=8.9*10**24
NP1:Strike= 84 Dip=82 Slip=-174
NP2: 353 84 -8

06 05 58 54.18 36.378N 140.977E 52km
5.3mb (48 abs.) 4.6Msz (3 abs.)
NEAR EAST COAST OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 15C
Centroid Location:
Origin Time 05:58:56.9 1.3
Lat 35.94N 0.15 Lan 140.28E 0.24
Dep 54.113.7 Half-duration 1.2
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	5.41	56	351
N	-1.22	26	213
P	-4.19	20	113

Best Double Couple:Mo=4.8*10**23
NP1:Strike=167 Dip=34 Slip= 38
NP2: 44 70 118

07 03 38 14.47 20.618S 169.732E 102km
5.4mb (7 obs.)
VANUATU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 18C
Centroid Lacation:
Origin Time 03:38:17.7 0.7
Lat 20.68S 0.08 Lan 169.48E 0.08
Dep 78.0 8.9 Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	7.11	44	331
N	0.44	24	215
P	-7.54	36	106

Best Double Couple:Mo=7.3*10**23
NP1:Strike=137 Dip=25 Slip= 11
NP2: 37 86 114

07 06 24 06.47 0.147N 120.382E 70km
5.4mb (22 abs.)
MINAHASSA PENINSULA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 21C
Centraid Location:
Origin Time 06:24: 4.8 0.9
Lat 0.32N 0.05 Lon 119.75E 0.11
Dep 75.8 4.1 Half-duration 1.9
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	1.61	34	121
N	-0.01	56	299
P	-1.60	1	31

Best Double Couple:Mo=1.6*10**24
NP1:Strike=161 Dip=66 Slip= 155
NP2: 261 67 26

07 15 43 22.81 27.840N 53.040E 15km
5.5mb (68 obs) 5.2Msz (11 obs.)
SOUTHERN IRAN
CENTROID, MOMENT TENSOR (HRV)
Data Used GDSN
L.P.B.: 16S, 29C
Centroid Location:
Origin Time 15:43.27.9 0.3
Lat 27 72N 0.03 Lan 52.89E 0.05
Dep 15.0 FIX Half-duration 2.1
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	2.72	72	311
N	-0.30	16	103
P	-2.41	8	195

Best Double Couple:Mo=2.6*10**24
NP1 Strike=303 Dip=39 Slip= 116
NP2 91 55 70

07 17 42 39.90 19.504S 178.027W 626km
5.4mb (12 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 22C
Centraid Location:
Origin Time 17:42:42.6 1.0
Lat 19.44S 0.08 Lon 177.86W 0.10
Dep 643.4 6.5 Half-duration 1.7
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	11.65	6	198
N	1.73	73	88
P	-13.38	16	289

Best Double Cauple:Ma=1.3*10**24
NP1:Strike=333 Dip=75 Slip= -7
NP2: 65 83 -164

08 16 18 02.63 6.102S 113 491E 592km
5.7mb (42 abs.)
JAVA
FAULT PLANE SDLUTION: P-Waves
NP1:Strike=247 Dip=63 Slip=-128
NP2: 127 45 -40
Principal Axes:

	Plg=	Azm=
T	10	3
P	55	108

Comment: The facal mechanism is moderately well cantrolled and correspands to normal faulting with a large strike-slip camponent. The preferred fault plane is nat determined.
MOMENT TENSOR SOLUTION
Dep 596 No. of sta: 9
Principal Axes:
Scale 10**25 d-cm

	Val=	Plg=	Azm=
T	3.20	6	347
N	0.03	32	81
P	-3.24	57	248

Best Double Couple:Mo=3.2*10**25
NP1:Strike= 47 Dip=48 Slip=-135
NP2: 284 58 -51
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 18S, 39C
Centroid Location:
Origin Time 16:18: 6.2 0.2
Lat 6.20S 0.02 Lon 113.46E 0.02
Dep 602.6 1.2 Half-duration 4.7
Principal Axes:
Scale 10**25 D-CM

	Val=	Plg=	Azm=
T	2.59	8	0
N	-0.22	1	270
P	-2.37	82	173

Best Double Couple:Mo=2.5*10**25
NP1:Strike= 91 Dip=37 Slip= -88
NP2: 269 53 -91

08 16 29 57.99 6.097S 113.441E 596km
5.6mb (36 obs.)
JAVA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=259 Dip=34 Slip=-127
NP2: 121 63 -68
Principal Axes:

	Plg=	Azm=
T	16	195
P	64	69

Comment: The focal mechanism is moderately well controlled and correspands to normal faulting with a large strike-slip camponent. The preferred fault plane is not determined.

08 22 26 16.99 61 556S 154 348E 10km
5.2mb (10 abs.) 5 2Msz (1 obs.)
BALLENY ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B : 14S, 28C
Centraid Location.
Origin Time 22:26:26.5 0 3
Lat 61.32S 0.05 Lon 153.32E 0.09
Dep 10.0 FIX Half-durotion 2.4
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	3.01	9	14
N	-0.13	69	260
P	-2.88	19	108

Best Double Couple:Mo=2.9*10**24
NP1:Strike=150 Dip=70 Slip= -7
NP2: 242 83 -160

09 06 09 15.39 15.315S 174.620W 208km
5.4mb (46 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 20S, 41C
Centroid Lacatian:
Origin Time 06:09:23.7 0.2
Lat 15.24S 0.02 Lon 174.59W 0.02
Dep 221.3 0.8 Half-durotion 4.0
Principal Axes:
Scale 10**25 D-CM

	Val=	Plg=	Azm=
T	1.20	18	60
N	0.36	13	325
P	-1.57	68	201

Best Double Couple:Mo=1.4*10**25
NP1:Strike=170 Dip=29 Slip= -63
NP2: 319 64 -104

09 09 32 06.53 6.912S 129.389E 181km
5.5mb (18 obs.)
BANDA SEA
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 15S, 24C
Centraid Location:
Origin Time 09:32: 5.4 0.8
Lat 7.11S 0.09 Lan 129.49E 0.10
Dep 161.5 2.5 Half-duration 1.7
Principal Axes:
Scole 10**24 D-CM

	Val=	Plg=	Azm=
T	1.65	49	249
N	-0.45	37	40
P	-1.20	15	141

Best Double Couple:Ma=1.4*10**24
NP1:Strike=270 Dip=44 Slip= 150
NP2: 23 69 50

09 13 03 10.62 52.424N 173.648E 38km
5.5mb (76 obs.) 4.9Msz (11 obs.)
NEAR ISLANDS, ALEUTIAN ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 27C
Centroid Location:
Origin Time 13:03:13.4 0.4
Lat 52.58N 0.04 Lon 173.49E 0.09
Dep 41.3 3.7 Half-duration 1.9
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	1.39	58	305
N	0.10	19	69
P	-1.49	24	169

Best Double Couple:Mo=1.4*10**24
NP1:Strike=293 Dip=27 Slip= 137
NP2: 63 72 69

09 19 59 44.07 16.900N 120.186E 22km
5.8mb (81 obs.) 6.1Msz (16 obs.)
LUZON, PHILIPPINE ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=175 Dip=71 Slip= 59
NP2: 57 36 146
Principal Axes:

	Plg=	Azm=
T	53	47
P	20	288

Comment: The focal mechanism is moderately well controlled and correspands to reverse faulting with a large strike-

slip component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 51 No. of sta. 8
Principal Axes
Scale 10**24 d-cm
T Val= 4 93 Plg=39 Azm=191
N -0 05 50 17
P -4 88 3 284
Best Double Couple:Mo=4.9*10**24
NP1:Strike=335 Dip=61 Slip= 28
NP2: 230 65 148
CENTROID, MOMENT TENSOR (HRV)
Data Used GDSN
L.P.B . 14S, 32C
Centroid Location:
Origin Time 19:59:43.6 0 2
Lat 17.29N 0.02 Lon 120.21E 0.04
Dep 36.8 2.9 Half-duration 4 4
Principal Axes:
Scale 10**25 D-CM
T Val= 2.17 Plg=16 Azm=179
N -0.73 70 39
P -1.45 12 272
Best Double Couple:Mo=1.8*10**25
NP1:Strike=316 Dip=70 Slip= 3
NP2: 225 88 160

10 04 12 46.36 6.014S 105.393E 94km
5.3mb (29 obs.)
SUNDA STRAIT
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 25C
Centroid Location:
Origin Time 04:12:39.9 0.4
Lat 6.13S 0.04 Lon 105.17E 0.05
Dep 31.1 3.5 Half-duration 2.4
Principal Axes:
Scale 10**24 D-CM
T Val= 3.34 Plg=16 Azm=276
N -0.46 48 167
P -2.89 38 18
Best Double Couple:Mo=3.1*10**24
NP1:Strike= 50 Dip=51 Slip= -18
NP2: 151 76 -140

10 07 32 31.61 15.235S 66.852E 10km
4.8mb (9 obs.) 4.8Msz (1 obs.)
MID-INDIAN RISE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 21C
Centroid Location:
Origin Time 07:32:35.2 1.9
Lat 15.19S 0.13 Lon 66.94E 0.15
Dep 10.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM
T Val= 6.74 Plg= 6 Azm= 49
N 0.27 30 316
P -7.01 59 149
Best Double Couple:Mo=6.9*10**23
NP1:Strike=168 Dip=47 Slip= -47
NP2: 294 58 -127

10 16 36 08.26 4.249S 152.877E 32km
5.7mb (37 obs.) 5.5Msz (12 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 29C
Centroid Location:
Origin Time 16:36:12.2 0.3
Lat 5.01S 0.03 Lon 152.77E 0.03
Dep 42.0 FIX Half-duration 2.6
Principal Axes:
Scale 10**24 D-CM
T Val= 4.66 Plg=55 Azm= 14
N -0.96 17 131
P -3.71 29 231
Best Double Couple:Mo=4.2*10**24
NP1:Strike= 0 Dip=22 Slip= 142
NP2: 126 77 72

11 00 19 01.55 11.156N 140.217E 24km
5.8mb (33 obs.) 6.0Msz (20 obs.)
WEST CAROLINE ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 86 Dip=55 Slip= 60
NP2: 311 45 126
Principal Axes:
T Plg=65 Azm=299
P 6 197
Comment: The focal mechanism is poorly controlled ond corresponds to reverse faulting with a moderote strike-slip component The preferred fault plone is not determined.
MOMENT TENSOR SOLUTION
Dep 22 No of sto 11
Principol Axes:
Scole 10**25 d-cm
T Vol= 1.68 Plg=67 Azm= 76
N 0.13 22 268
P -1.81 4 176
Best Double Couple:Mo=1.7*10**25
NP1:Strike=244 Dip=45 Slip= 58
NP2: 106 53 118
CENTROID, MOMENT TENSOR (HRV)
Doto Used: GDSN
L.P.B.: 15S, 34C
Centroid Locotion:
Origin Time 00:19: 6.5 0.1
Lot 11.15N 0.02 Lon 140.01E 0.02
Dep 13.9 1.2 Half-durotion 3.8
Principol Axes:
Scole 10**25 D-CM
T Vol= 0.96 Plg=75 Azm=101
N 0.07 15 270
P -1.03 3 0
Best Double Couple:Mo=1.0*10**25
NP1:Strike=106 Dip=44 Slip= 112
NP2: 256 50 70

11 09 59 44.16 54.139N 168.731E 50km
5.9mb (98 obs.) 5.8Msz (27 obs.)
KOMANDORSKY ISLANDS REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=138 Dip=88 Slip= 90
NP2: 318 2 90
Principal Axes:
T Plg=47 Azm= 48
P 43 228
Comment: The focol mechonism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 52 No. of sta: 20
Principal Axes:
Scale 10**25 d-cm
T Val= 2.90 Plg=27 Azm= 86
N -0.01 53 313
P -2.88 23 188
Best Double Couple:Mo=2.9*10**25
NP1:Strike=228 Dip=53 Slip= 3
NP2: 136 88 143
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 19S, 45C
Centroid Locotion:
Origin Time 09:59:49.0 0.1
Lot 54.25N 0.02 Lon 168.47E 0.02
Dep 57.5 1.4 Half-durotion 5.0
Principol Axes:
Scole 10**25 D-CM
T Vol= 2.60 Plg=21 Azm= 92
N -0.15 51 333
P -2.45 31 196
Best Double Couple:Mo=2.5*10**25
NP1:Strike=231 Dip=52 Slip= -8
NP2: 326 84 -142

11 16 06 01.61 36.126N 95.632E 33km
5.4mb (65 obs.) 4.4Msz (5 obs.)
QINGHAI PROVINCE, CHINA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 25C
Centroid Locotion:
Origin Time 16:06: 5.3 0.4
Lot 36.43N 0.10 Lon 95.91E 0.06
Dep 32.2 4.3 Half-durotion 1.6
Principol Axes:
Scole 10**23 D-CM
T Vol= 8.03 Plg=72 Azm=216
N 0.73 14 359
P -8.76 10 92
Best Double Couple:Mo=8.4*10**23
NP1:Strike=199 Dip=37 Slip= 115
NP2: 349 57 73

12 00 04 51.45 38.378S 73.495W 33km
5.6mb (26 obs.) 6.0Msz (13 obs.)
NEAR COAST OF CENTRAL CHILE
CENTROID, MOMENT TENSOR (HRV)
Doto Used: GDSN
L.P.B.: 18S, 44C
Centroid Locotion:
Origin Time 00:04:53.8 0.1
Lot 38.45S 0 02 Lon 73 94W 0.03
Dep 17.2 1.3 Half-durotion 4.6
Principol Axes:
Scole 10**25 D-CM
T Vol= 2.32 Plg=59 Azm= 76
N -0.09 5 175
P -2.23 31 268
Best Double Couple:Mo=2.3*10**25
NP1:Strike= 16 Dip=15 Slip= 111
NP2: 174 76 84

12 03 49 18.09 37.771N 141.773E 52km
6.0mb (85 obs.) 6.3Msz (20 obs.)
NEAR EAST COAST OF HONSHU, JAPAN
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 40 Dip=75 Slip= 77
NP2: 262 20 130
Principal Axes:
T Plg=58 Azm=293
P 29 140
Comment: The focol mechanism is moderately well controlled and corresponds to reverse faulting with a small strike-slip component. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 37 No. of sta: 22
Principal Axes:
Scale 10**25 d-cm
T Val= 5.76 Plg=45 Azm=277
N -0.96 41 67
P -4.80 15 171
Best Double Couple:Mo=5.3*10**25
NP1:Strike=302 Dip=46 Slip= 154
NP2: 51 71 47
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 23S, 50C
Centroid Locotion:
Origin Time 03:49:21.6 0.1
Lot 37.54N 0.01 Lon 142.00E 0.03
Dep 38.7 1.2 Half-durotion 6.6
Principal Axes:
Scale 10**25 D-CM
T Val= 5.71 Plg=65 Azm=285
N 0.10 4 24
P -5.80 24 116
Best Double Couple:Mo=5.8*10**25
NP1:Strike=215 Dip=21 Slip= 101
NP2: 23 69 86

12 14 29 02.42 11.118N 140.372E 33km
5.4mb (11 obs.) 5.0Msz (1 obs.)
WEST CAROLINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 23C
Centroid Locotion:
Origin Time 14:29: 7.2 0.8
Lot 11.05N 0.09 Lon 140.38E 0.11
Dep 34.711.2 Half-durotion 1.4
Principal Axes:
Scale 10**23 D-CM
T Val= 6.26 Plg=57 Azm= 70
N -0.54 32 266
P -5.71 7 171
Best Double Couple:Mo=6.0*10**23
NP1:Strike=230 Dip=47 Slip= 44
NP2: 107 60 127

13 00 25 21.84 2.444S 125.921E 27km
5.4mb (18 obs.) 5.0Msz (2 obs.)
CERAM SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 22C
Centroid Locotion:
Origin Time 00:25:21.9 0.5
Lot 2.30S 0.07 Lon 125.64E 0.09
Dep 13.6 3.4 Half-durotion 1.9
Principal Axes:
Scale 10**24 D-CM
T Val= 3.00 Plg=52 Azm=327
N -1.03 12 73

P -1.97 36 172
Best Double Couple:Mo=2.5*10**24
NP1:Strike=309 Dip=15 Slip= 146
NP2: 71 82 77

13 05 29 19.00 15.040S 75.466W 26km
5.4mb (51 obs.) 4.8Msz (6 obs.)
NEAR COAST OF PERU
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 25C
Centroid Location:
Origin Time 05:29:24.4 0.4
Lat 14.87S 0.07 Lon 76.06W 0.07
Dep 38.5 3.7 Half-duration 1.7
Principal Axes:
Scale 10**24 D-CM
T Val= 1.26 Plg=76 Azm=124
N 0.40 9 354
P -1.66 11 262
Best Double Couple:Mo=1.5*10**24
NP1:Strike=340 Dip=35 Slip= 74
NP2: 180 57 101

13 08 27 36.96 4.346S 152.787E 44km
5.3mb (14 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 13C
Centroid Location:
Origin Time 08:27:42.8 1.1
Lat 4.52S 0.10 Lon 152.77E 0.08
Dep 61.4 5.8 Half-duration 1.6
Principal Axes:
Scale 10**24 D-CM
T Val= 0.84 Plg=41 Azm= 8
N 0.35 48 169
P -1.19 9 270
Best Double Couple:Mo=1.0*10**24
NP1:Strike= 41 Dip=55 Slip= 155
NP2: 146 70 38

14 04 10 40.64 31.983S 178.731W 33km
5.5mb (12 obs.) 4.9Msz (4 obs.)
KERMADEC ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 25C
Centroid Location:
Origin Time 04:10:51.2 0.5
Lat 31.60S 0.04 Lon 178.87W 0.05
Dep 42.9 2.9 Half-duration 1.9
Principal Axes:
Scale 10**24 D-CM
T Val= 1.49 Plg=68 Azm=259
N 0.38 10 15
P -1.87 19 108
Best Double Couple:Mo=1.7*10**24
NP1:Strike=215 Dip=27 Slip= 112
NP2: 10 65 79

14 05 24 29.71 15.119S 75.565W 33km
5.1mb (19 obs.) 4.9Msz (5 obs.)
NEAR COAST OF PERU
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 29C
Centroid Location:
Origin Time 05:24:31.3 0.4
Lat 15.76S 0.06 Lon 75.41W 0.07
Dep 24.7 4.0 Half-duration 2.1
Principal Axes:
Scale 10**24 D-CM
T Val= 1.73 Plg=53 Azm=119
N 0.64 31 337
P -2.37 19 235
Best Double Couple:Mo=2.1*10**24
NP1:Strike=287 Dip=38 Slip= 34
NP2: 169 70 123

15 04 28 46.97 47.045N 18.054E 10km
4.7mb (16 obs.) 5.0Msz (2 obs.)
HUNGARY
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 19C
Centroid Location:
Origin Time 04:28:51.9 2.2
Lat 47.11N 0.27 Lon 17.90E 0.18
Dep 10.0 FIX Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM
T Val= 6.50 Plg=10 Azm=143
N -0.17 70 24
P -6.34 17 236
Best Double Couple:Mo=6.4*10**23
NP1:Strike=279 Dip=71 Slip= -5
NP2: 11 85 -161

15 08 59 49.99 38.407S 93.251W 10km
5.1mb (17 obs.) 4.8Msz (1 obs.)
WEST CHILE RISE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 25C
Centroid Location:
Origin Time 08:59:51 9 0.5
Lat 38.98S 0.15 Lon 92.46W 0.11
Dep 10.0 FIX Half-duration 1.6
Principal Axes:
Scale 10**23 D-CM
T Val= 10.64 Plg=21 Azm= 81
N -2.60 16 345
P -8.04 63 220
Best Double Couple:Mo=9.3*10**23
NP1:Strike=199 Dip=28 Slip= -53
NP2: 338 68 -108

15 21 49 49.36 14.86 S 67.71 E 10km
4.9mb (8 obs.) 4.6Msz (1 obs.)
MID-INDIAN RISE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 21C
Centroid Location:
Origin Time 21:49:46.8 1.0
Lat 15.31S FIX;Lon 66.91E FIX
Dep 10.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM
T Val= 10.05 Plg=19 Azm=236
N -1.98 18 140
P -8.07 64 8
Best Double Couple:Mo=9.1*10**23
NP1:Strike=353 Dip=31 Slip= -53
NP2: 131 66 -110

15 22 11 55.52 15.437S 67.244E 10km
5.2mb (40 obs.) 5.3Msz (3 obs.)
MID-INDIAN RISE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 29C
Centroid Location:
Origin Time 22:12: 3.4 0.8
Lat 15.21S 0.06 Lon 67.13E 0.07
Dep 10.0 FIX Half-duration 2.2
Principal Axes:
Scale 10**24 D-CM
T Val= 2.68 Plg=19 Azm= 61
N -0.01 12 155
P -2.68 67 275
Best Double Couple:Mo=2.7*10**24
NP1:Strike=132 Dip=28 Slip=-116
NP2: 340 65 -77

16 10 46 51.86 37.113N 59.310E 33km
5.4mb (76 obs.) 5.0Msz (4 obs.)
IRAN-USSR BORDER REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 32C
Centroid Location:
Origin Time 10:46:55.3 0.3
Lat 36.96N 0.05 Lon 59.72E 0.06
Dep 10.0 BDY Half-duration 2.1
Principal Axes:
Scale 10**24 D-CM
T Val= 2.52 Plg=47 Azm=150
N 0.32 24 269
P -2.84 33 16
Best Double Couple:Mo=2.7*10**24
NP1:Strike=159 Dip=26 Slip= 162
NP2: 265 82 65

17 18 30 28.55 28.196N 140.717E 33km
5.2mb (30 obs.) 4.6Msz (3 obs.)
BONIN ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 21C
Centroid Location:
Origin Time 18:30:28.7 0.5
Lat 28.17N 0.08 Lon 140.35E 0.06
Dep 10.5 3.5 Half-duration 1.6
Principal Axes:
Scale 10**23 D-CM
T Val= 8.52 Plg=17 Azm=262
N -0.34 10 356
P -8.19 70 116
Best Double Couple:Mo=8.4*10**23
NP1:Strike=337 Dip=30 Slip=-111
NP2: 181 62 -78

18 03 48 03.76 2.807N 128.216E 66km
5.5mb (34 obs.)
HALMAHERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 25C
Centroid Location:
Origin Time 03:48: 5.2 0.8
Lat 3.27N 0.06 Lon 128.05E 0.07
Dep 44.9 3.4 Half-duration 1.9
Principal Axes:
Scale 10**24 D-CM
T Val= 1.87 Plg=17 Azm= 41
N -0.18 17 305
P -1.69 65 173
Best Double Couple:Mo=1.8*10**24
NP1:Strike=155 Dip=31 Slip= -56
NP2: 297 64 -109

18 15 25 07.72 55.710S 124.161W 10km
5.2mb (5 obs.) 5.3Msz (4 obs.)
EASTER ISLAND CORDILLERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 19S, 39C
Centroid Location:
Origin Time 15:25:16.3 0.1
Lat 55.97S 0.02 Lon 123.65W 0.04
Dep 10.0 FIX Half-duration 3.6
Principal Axes:
Scale 10**24 D-CM
T Val= 9.19 Plg= 7 Azm=333
N 2.43 59 74
P -11.63 30 239
Best Double Couple:Mo=1.0*10**25
NP1:Strike= 20 Dip=64 Slip=-162
NP2: 282 74 -27

19 07 53 48.15 15.043S 75.594W 33km
5.2mb (47 obs.) 5.3Msz (11 obs.)
NEAR COAST OF PERU
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 33C
Centroid Location:
Origin Time 07:53:53.4 0.2
Lat 15.43S 0.05 Lon 75.80W 0.05
Dep 28.0 2.4 Half-duration 2.4
Principal Axes:
Scale 10**24 D-CM
T Val= 3.66 Plg=63 Azm=111
N 0.97 18 341
P -4.63 20 245
Best Double Couple:Mo=4.1*10**24
NP1:Strike=307 Dip=30 Slip= 52
NP2: 169 67 110

19 12 02 39.49 11.614S 166.451E 49km
5.4mb (16 obs.) 4.9Msz (1 obs.)
SANTA CRUZ ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 19C
Centroid Location:
Origin Time 12:02:43.2 0.7
Lat 11.82S 0.09 Lon 166.26E 0.08
Dep 209.1 2.8 Half-duration 1.7
Principal Axes:
Scale 10**24 D-CM
T Val= 1.47 Plg= 7 Azm= 68
N -0.22 9 159
P -1.25 78 301
Best Double Couple:Mo=1.4*10**24
NP1:Strike=147 Dip=39 Slip=-105
NP2: 346 53 -78

20 05 46 00.47 5.518N 36.143E 10km
5.4mb (55 obs.) 4.8Msz (6 obs.)
ETHIOPIA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 29C
Centroid Location:
Origin Time 05:46: 5.6 0.4

Lat 5.72N 0.07 Lon 35.96E 0.09
Dep 10.0 FIX Half-duration 1.8
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	14.71	20	136
N	0.27	21	38
P	-14.98	60	265

Best Double Couple:Mo=1.5*10**24
NP1:Strike=258 Dip=31 Slip= -45
NP2: 29 68 -113

20 12 21 05.70 33.775S 72.231W 33km
4.8mb (12 obs.) 4.8Msz (2 obs.)
OFF COAST OF CENTRAL CHILE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 21C
Centroid Location:
Origin Time 12:21: 9.9 0.7
Lat 33.97S 0.07 Lon 72.55W 0.08
Dep 39.0 4.8 Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	7.25	75	60
N	0.98	8	181
P	-8.23	13	272

Best Double Couple:Mo=7.7*10**23
NP1:Strike= 12 Dip=33 Slip= 104
NP2: 176 58 81

20 13 43 16.61 1.045S 126.945E 33km
5.3mb (19 obs.)
MOLUCCA SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 21C
Centroid Location:
Origin Time 13:43:21.2 0.9
Lat 1.03S 0.09 Lon 126.65E 0.07
Dep 41.3 6.7 Half-duration 1.7
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	11.61	66	112
N	0.04	9	2
P	-11.65	22	269

Best Double Couple:Mo=1.2*10**24
NP1:Strike=343 Dip=24 Slip= 69
NP2: 186 67 99

21 10 43 23.03 16.101S 179.047W 33km
5.7mb (43 obs.) 5.5Msz (13 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 36C
Centroid Location:
Origin Time 10:43:28.5 0.2
Lat 16.03S 0.03 Lon 179.22W 0.03
Dep 10.0 FIX Half-duration 3.1
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	6.27	41	130
N	1.42	48	329
P	-7.69	10	228

Best Double Couple:Mo=7.0*10**24
NP1:Strike=278 Dip=54 Slip= 25
NP2: 173 70 142

21 11 26 28.71 9.159S 78.887W 57km
6.1mb (102 obs.)
NEAR COAST OF NORTHERN PERU
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 22S, 51C
Centroid Location:
Origin Time 11:26:35.8 0.2
Lat 8.90S 0.02 Lon 78.82W 0.03
Dep 68.2 3.2 Half-duration 5.8
Principal Axes:
Scale 10**25 D-CM

	Val=	Plg=	Azm=
T	4.21	37	258
N	-0.31	14	157
P	-3.90	49	50

Best Double Couple:Mo=4.1*10**25
NP1:Strike= 43 Dip=16 Slip= -23
NP2: 155 84 -105

21 16 38 03.35 71.906N 1.479W 10km
5.0mb (63 obs.) 5.1Msz (7 obs.)
JAN MAYEN ISLAND REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 20C
Centroid Location:
Origin Time 16:38: 8.9 0.7
Lat 71.88N FIX;Lon 1.61W FIX
Dep 10.0 FIX Half-duration 1.9
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	11.25	3	124
N	0.21	41	217
P	-11.46	49	31

Best Double Couple:Mo=1.1*10**24
NP1:Strike=180 Dip=56 Slip=-143
NP2: 67 60 -41

21 19 36 08 79 23.003S 69.114E 10km
5.3mb (22 obs.) 4.8Msz (1 obs.)
MID-INDIAN RISE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 20C
Centroid Location:
Origin Time 19:36:15.3 1.1
Lat 23.01S FIX;Lon 69.17E FIX
Dep 10.0 FIX Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	3.60	28	178
N	1.97	61	6
P	-5.57	3	270

Best Double Couple:Mo=4.6*10**23
NP1:Strike=318 Dip=68 Slip= 19
NP2: 221 73 157

21 21 09 07.64 22.982S 69.091E 10km
5.3mb (37 obs.)
MID-INDIAN RISE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 27C
Centroid Location:
Origin Time 21:09:13.7 0.6
Lat 23.04S FIX;Lon 69.07E FIX
Dep 10.0 FIX Half-duration 1.6
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	6.38	10	195
N	1.26	79	355
P	-7.64	4	105

Best Double Couple:Mo=7.0*10**23
NP1:Strike=240 Dip=80 Slip= 176
NP2: 330 86 10

22 02 01 01.65 22.057S 169.462E 33km
5.2mb (15 obs.) 4.7Msz (1 obs.)
LOYALTY ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 23C
Centroid Location:
Origin Time 02:01: 6.6 0.9
Lat 21.95S 0.12 Lon 169.22E 0.11
Dep 29.7 7.2 Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	5.44	25	254
N	1.81	7	347
P	-7.25	64	92

Best Double Couple:Mo=6.4*10**23
NP1:Strike=329 Dip=21 Slip=-110
NP2: 170 70 -83

22 19 29 58.01 22.364S 174.733W 33km
5.5mb (35 obs.) 5.5Msz (17 obs.)
TONGA ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 24C
Centroid Location:
Origin Time 19:30: 0.7 0.4
Lat 22.60S 0.05 Lon 174.16W 0.05
Dep 10.0 FIX Half-duration 2.2
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	2.81	63	290
N	0.15	1	198
P	-2.96	27	107

Best Double Couple:Mo=2.9*10**24
NP1:Strike=194 Dip=18 Slip= 86
NP2: 18 72 91

23 08 32 53.78 39.354N 75.309E 10km
5.0mb (46 obs.) 4.7Msz (3 obs.)
SOUTHERN XINJIANG, CHINA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 16C
Centroid Location:
Origin Time 08:33: 4.7 1.8
Lat 39.40N 0.18 Lon 76.36E 0.19
Dep 33.0 FIX Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	4.64	3	264
N	0.01	79	12
P	-4.65	10	173

Best Double Couple:Mo=4.6*10**23
NP1:Strike=309 Dip=80 Slip=-175
NP2: 218 85 -10

23 12 41 56.16 39.431N 75.224E 7km
6.4mb (108 obs.) 7.3Msz (12 obs.)
SOUTHERN XINJIANG, CHINA
FAULT PLANE SOLUTION: P-Woves
NP1:Strike= 45 Dip=75 Slip= 90
NP2: 225 15 90
Principal Axes:

	Plg=	Azm=
T	60	315
P	30	135

Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 36 No. of sta: 17
Principal Axes:
Scale 10**26 d-cm

	Val=	Plg=	Azm=
T	1.43	50	335
N	0.00	0	244
P	-1.43	40	154

Best Double Couple:Mo=1.4*10**26
NP1:Strike=239 Dip= 5 Slip= 85
NP2: 64 85 90
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 24S, 62C M.W.: 14S, 34C
Centroid Location:
Origin Time 12:42:12.9 0.2
Lat 39.54N 0.02 Lon 75.09E 0.02
Dep 15.4 1.0 Half-duration 11.0
Principal Axes:
Scale 10**26 D-CM

	Val=	Plg=	Azm=
T	3.42	48	304
N	-0.26	27	68
P	-3.16	30	175

Best Double Couple:Mo=3.3*10**26
NP1:Strike=315 Dip=29 Slip= 159
NP2: 63 80 62

24 06 53 14.85 22.021S 177.799W 348km
5.5mb (55 obs.)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 27C
Centroid Location:
Origin Time 06:53:18.6 0.4
Lat 22.32S 0.04 Lon 177.72W 0.03
Dep 361.2 1.6 Half-duration 2.3
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	2.64	10	92
N	-0.04	4	183
P	-2.60	79	294

Best Double Couple:Mo=2.6*10**24
NP1:Strike=177 Dip=35 Slip= -97
NP2: 5 55 -85

24 20 27 13.97 21.804N 108.486W 10km
5.1mb (13 obs.) 5.2Msz (3 obs.)
REVILLA GIGEDO ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 24C
Centroid Location:
Origin Time 20:27:19.5 0.5
Lat 21.81N 0.05 Lon 108.98W 0.06
Dep 10.0 FIX Half-duration 2.2
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	2.49	4	120
N	0.02	80	236
P	-2.51	9	30

Best Double Couple:Mo=2.5*10**24
NP1:Strike=165 Dip=81 Slip=-177
NP2: 75 87 -9

25 10 07 59.49 53.764N 158.924E 132km
5.3mb (63 obs.)
NEAR EAST COAST OF KAMCHATKA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B. 13S, 24C
Centroid Location:
Origin Time 10:08: 5.1 0.8
Lat 53.61N 0.08 Lon 159.29E 0.12
Dep 134.7 2.7 Half-duration 1.6
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	9.15	49	102
N	1.33	10	204
P	-10.47	39	302

Best Double Couple:Mo=9.8*10**23

	Strike=	Dip=	Slip=
NP1:	86	11	153
NP2:	203	85	80

25 11 51 57.53 2.727N 128.706E 69km
5.2mb (12 obs.)
HALMAHERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 15C
Centroid Location:
Origin Time 11:51:57.5 0.9
Lat 2.65N 0.07 Lon 129.17E 0.10
Dep 59.9 7.1 Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	10.74	10	251
N	-3.14	8	160
P	-7.60	77	33

Best Double Couple:Mo=9.2*10**23

	Strike=	Dip=	Slip=
NP1:	350	36	-77
NP2:	154	55	-99

26 14 08 23.18 6.895S 148.933E 33km
5.2mb (17 obs.) 6.1Msz (14 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 29C
Centroid Location:
Origin Time 14:08:27.7 0.3
Lat 7.30S 0.04 Lon 148.95E 0.04
Dep 18.8 2.4 Half-duration 2.9
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	8.92	52	311
N	-1.79	19	67
P	-7.13	31	170

Best Double Couple:Mo=8.0*10**24

	Strike=	Dip=	Slip=
NP1:	306	22	150
NP2:	64	79	70

27 06 29 32.93 20.941S 178.956W 626km
5.2mb (37 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 21C
Centroid Location:
Origin Time 06:29:40.3 1.1
Lat 21.01S 0.10 Lon 179.00W 0.09
Dep 627.3 4.8 Half-duration 1.8
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	1.55	39	53
N	0.10	44	193
P	-1.65	21	305

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

	Strike=	Dip=	Slip=
NP1:	82	46	165
NP2:	183	79	45

27 07 39 14.44 17.530S 173.300W 36km
5.9mb (53 obs.) 5.3Msz (18 obs.)
TONGA ISLANDS
FAULT PLANE SOLUTION: P-Waves

	Strike=	Dip=	Slip=
NP1:	82	68	90
NP2:	262	22	90

Principal Axes:

	Plg=	Azm=
T	67	352
P	23	172

Comment: The focal mechonism 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, 33C
Centroid Location:
Origin Time 07:39:19.6 0.4
Lat 17.36S 0.04 Lon 172.78W 0.04
Dep 35.7 2.3 Half-duration 2.5
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	3.56	64	24
N	-0.08	15	262
P	-3.49	21	167

Best Double Couple:Mo=3.5*10**24

	Strike=	Dip=	Slip=
NP1:	232	27	56
NP2:	89	68	106

27 10 44 34.50 21.465S 67.498W 197km
5.4mb (61 obs.)
CHILE-BOLIVIA BORDER REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 33C
Centroid Location.
Origin Time 10:44:41.5 0.4
Lat 21.45S 0.04 Lon 67.45W 0.05
Dep 218.3 1.9 Half-duration 2.2
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	2.59	15	5
N	-0.25	26	103
P	-2.34	59	248

Best Double Couple:Mo=2.5*10**24

	Strike=	Dip=	Slip=
NP1:	63	37	-136
NP2:	296	65	-61

28 03 10 05.49 22.164S 171.141E 124km
5.3mb (22 obs.)
LOYALTY ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 16C
Centroid Location:
Origin Time 03:10: 5.4 1.3
Lat 23.19S 0.14 Lon 171.07E 0.13
Dep 116.3 6.4 Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	8.05	52	305
N	-0.90	27	174
P	-7.14	24	71

Best Double Couple:Mo=7.6*10**23

	Strike=	Dip=	Slip=
NP1:	118	32	30
NP2:	2	75	119

28 20 50 48.34 21.011S 178.981W 625km
6.1mb (57 obs.)
FIJI ISLANDS REGION
FAULT PLANE SOLUTION: P-Waves

	Strike=	Dip=	Slip=
NP1:	48	83	-80
NP2:	173	12	-145

Principal Axes:

	Plg=	Azm=
T	37	129
P	51	329

Comment: The focal mechanism is moderately well controlled and corresponds to normal faulting with a small strike-slip component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 638 No. of sta: 13
Principal Axes:
Scale 10**25 d-cm

	Val=	Plg=	Azm=
T	9.66	21	136
N	0.02	0	46
P	-9.68	69	315

Best Double Couple:Mo=9.7*10**25

	Strike=	Dip=	Slip=
NP1:	226	24	-90
NP2:	46	66	-90

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 21S, 51C M.W.: 12S, 25C
Centroid Location:
Origin Time 20:50:55.5 0.2
Lat 20.89S 0.01 Lon 179.00W 0.01
Dep 640.4 1.1 Half-duration 7.5
Principal Axes:
Scale 10**25 D-CM

	Val=	Plg=	Azm=
T	9.36	22	126
N	0.38	3	217
P	-9.74	68	315

Best Double Couple:Mo=9.6*10**25

	Strike=	Dip=	Slip=
NP1:	210	23	-98
NP2:	39	67	-87

29 03 45 07.48 40.153N 142.605E 44km
5.3mb (68 obs.) 4.8Msz (5 obs.)
NEAR EAST COAST OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 25C
Centroid Location:
Origin Time 03:45: 9.4 0.8
Lat 39.87N 0.07 Lon 142.70E 0.12
Dep 49.2 6.7 Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	7.90	72	300
N	0.49	1	207
P	-8.39	18	117

Best Double Couple:Mo=8.1*10**23

	Strike=	Dip=	Slip=
NP1:	206	27	88
NP2:	28	63	91

29 06 13 10.85 57.243S 25.333W 50km
5.6mb (16 obs.) 5.0Msz (4 obs.)
SOUTH SANDWICH ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 29C
Centroid Location:
Origin Time 06:13:15.2 0.3
Lat 57.04S 0.04 Lon 25.48W 0.06
Dep 22.0 2.8 Half-duration 2.4
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	3.79	72	276
N	0.07	5	170
P	-3.87	17	78

Best Double Couple:Mo=3.8*10**24

	Strike=	Dip=	Slip=
NP1:	160	28	79
NP2:	352	62	96

29 23 39 48.85 39.441N 75.452E 17km
5.2mb (76 obs.) 4.3Msz (1 obs)
SOUTHERN XINJIANG, CHINA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 24C
Centroid Location:
Origin Time 23:39:55.3 1.0
Lat 39.25N 0.09 Lon 75.16E 0.15
Dep 24.3 7.0 Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	6.96	67	231
N	0.71	12	110
P	-7.68	19	16

Best Double Couple:Mo=7.3*10**23

	Strike=	Dip=	Slip=
NP1:	87	28	64
NP2:	296	65	103

30 17 31 11.96 53.097N 172.629E 33km
5.1mb (17 obs.) 5.0Msz (5 obs.)
NEAR ISLANDS, ALEUTIAN ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 27C
Centroid Location:
Origin Time 17:31:16.1 0.4
Lat 53.74N 0.05 Lon 172.24E 0.07
Dep 24.1 5.8 Half-duration 1.9
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	1.63	25	80
N	-0.32	63	235
P	-1.31	10	345

Best Double Couple:Mo=1.5*10**24

	Strike=	Dip=	Slip=
NP1:	120	65	169
NP2:	215	80	26

30 19 01 41.48 67.700N 18.541W 10km
5.1mb (32 obs.) 4.6Msz (1 obs.)
ICELAND REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 20C
Centroid Location:
Origin Time 19:01:46.1 0.9
Lat 67.66N FIX;Lon 18.62W FIX
Dep 10.0 FIX Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM

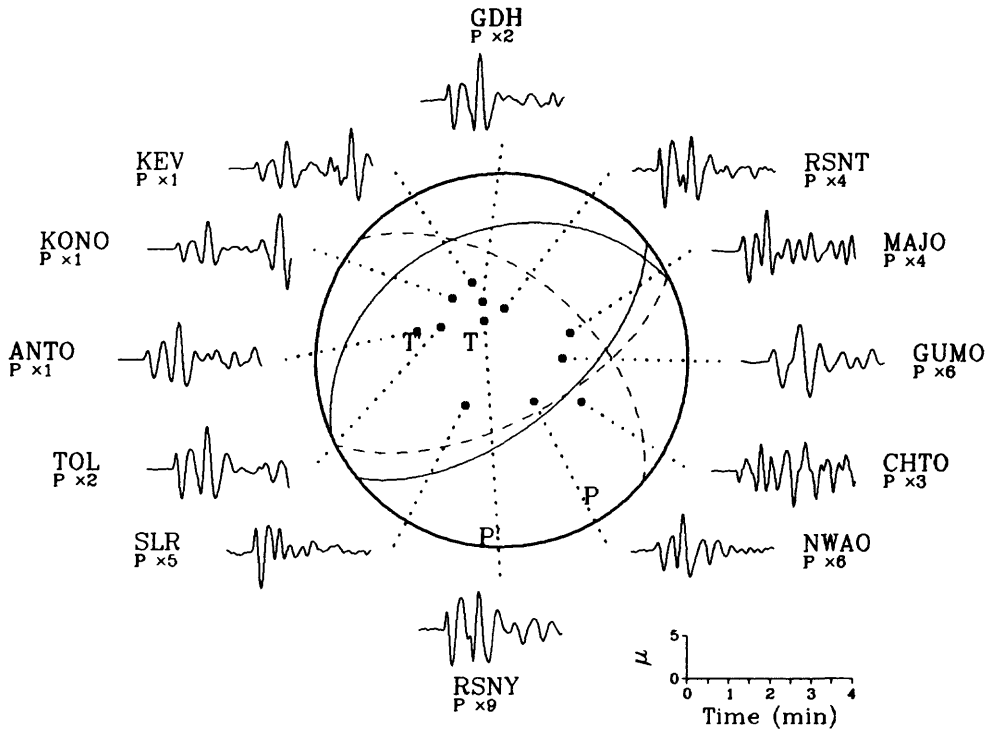
	Val=	Plg=	Azm=
T	5.25	23	137
N	0.95	14	233
P	-6.21	63	351

Best Double Couple:Mo=5.7*10**23

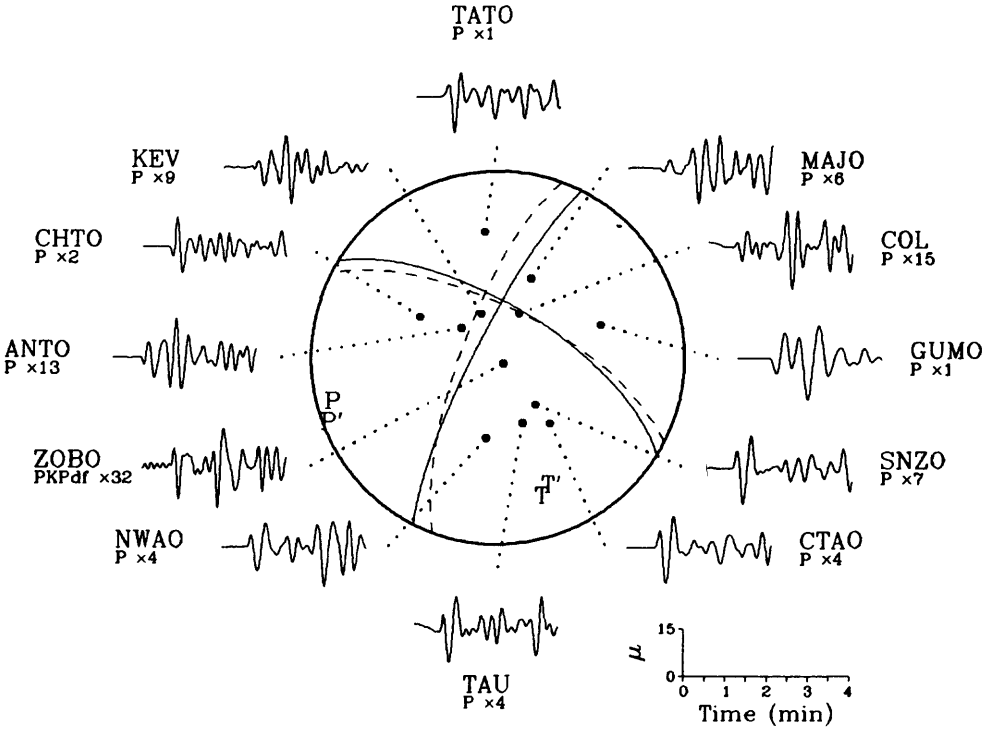
	Strike=	Dip=	Slip=
NP1:	202	25	-123
NP2:	59	69	-76

Compiled by W.S. Jacobs, L.E. Kerry, J.H. Minsch, R.E. Needham, W.J. Person, B.W. Presgrave and W.H. Schmieder.

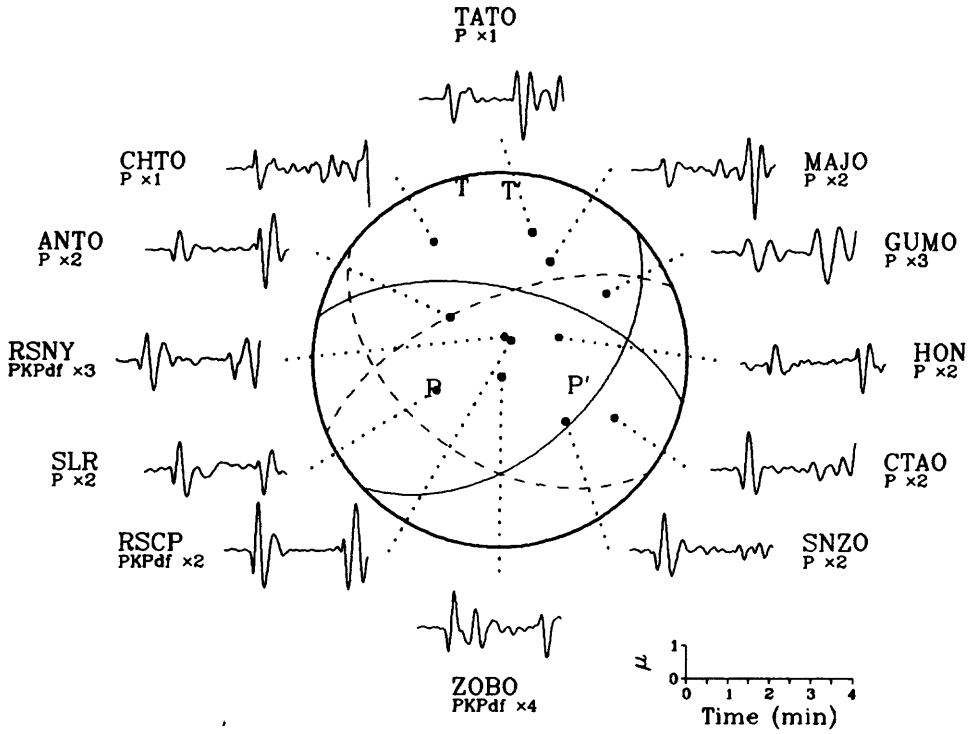
02 August 1985 07:46:53.30
Hindu Kush Region



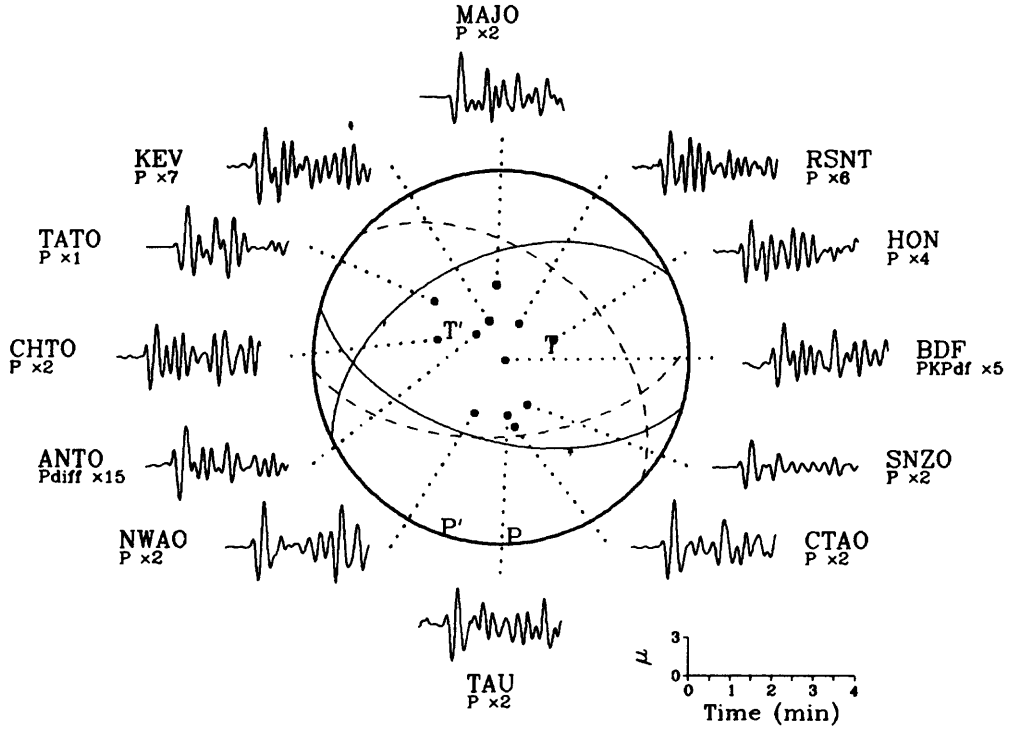
04 August 1985 02:36:23.87
Mindanao, Philippine Islands



08 August 1985 16:18:02.63
Java



11 August 1985 00:19:01.55
West Caroline Islands



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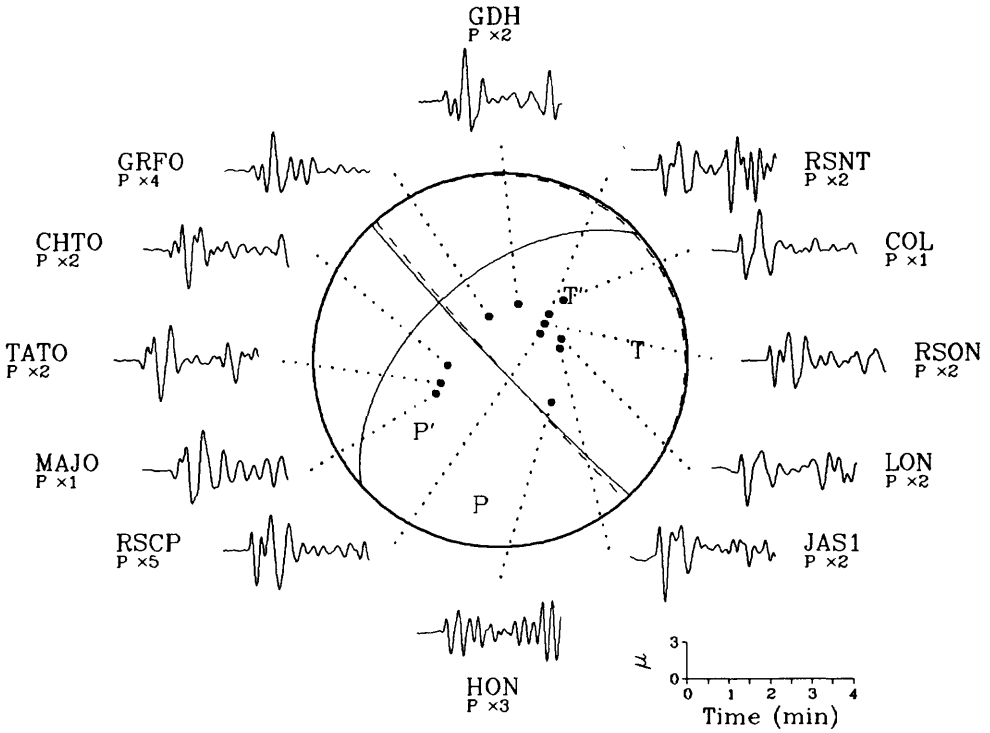
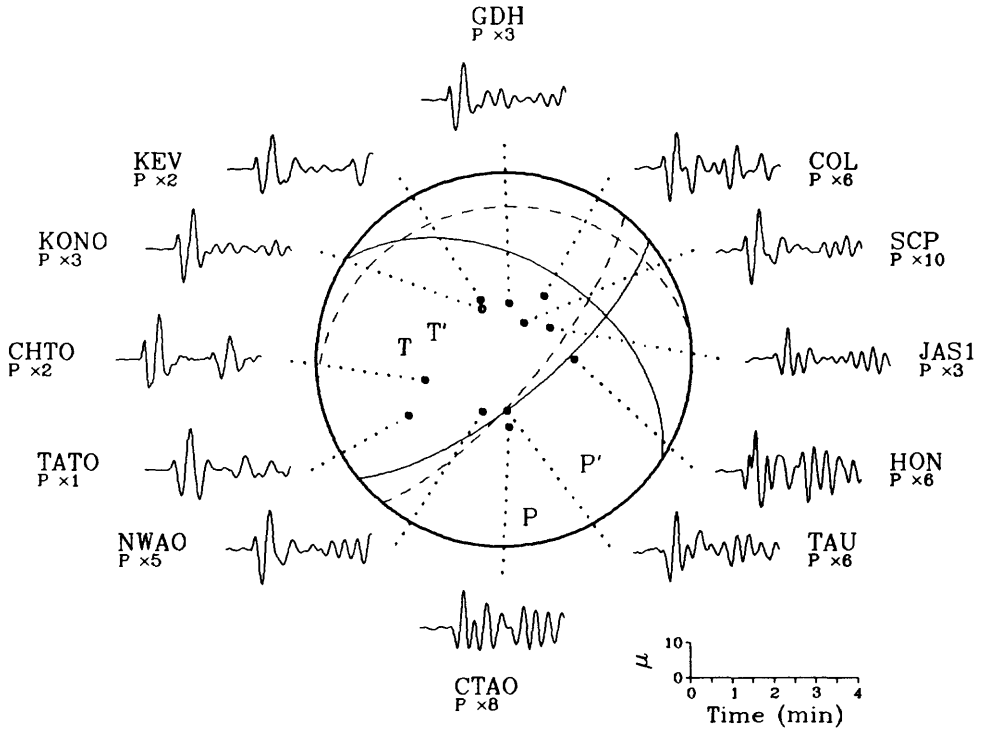
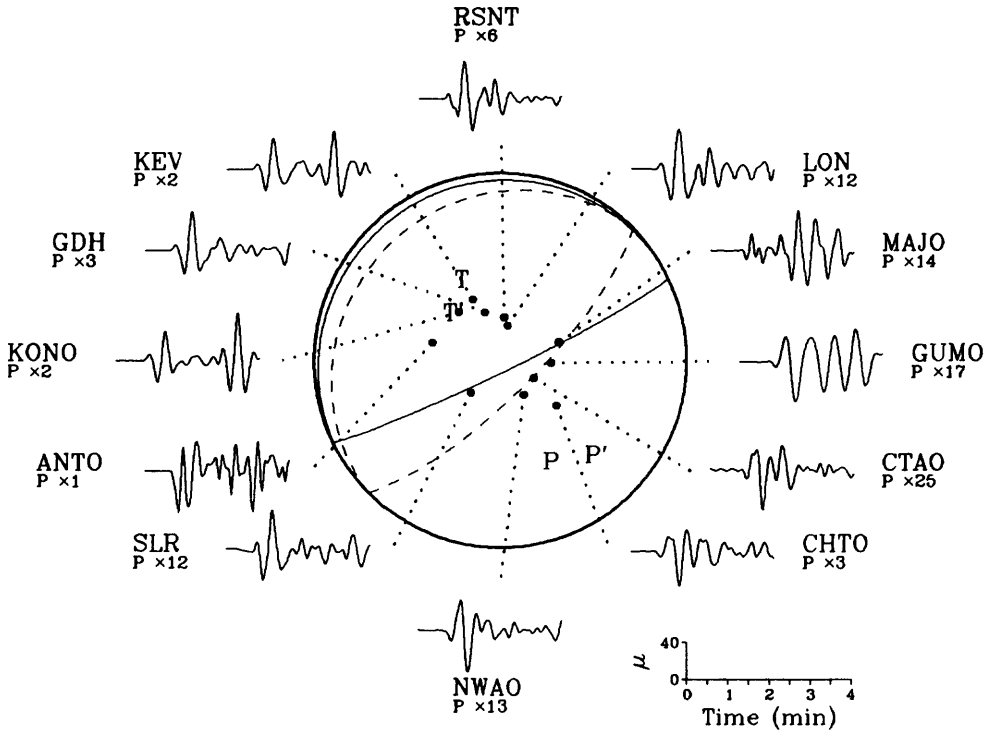
Komandorsky Islands Region



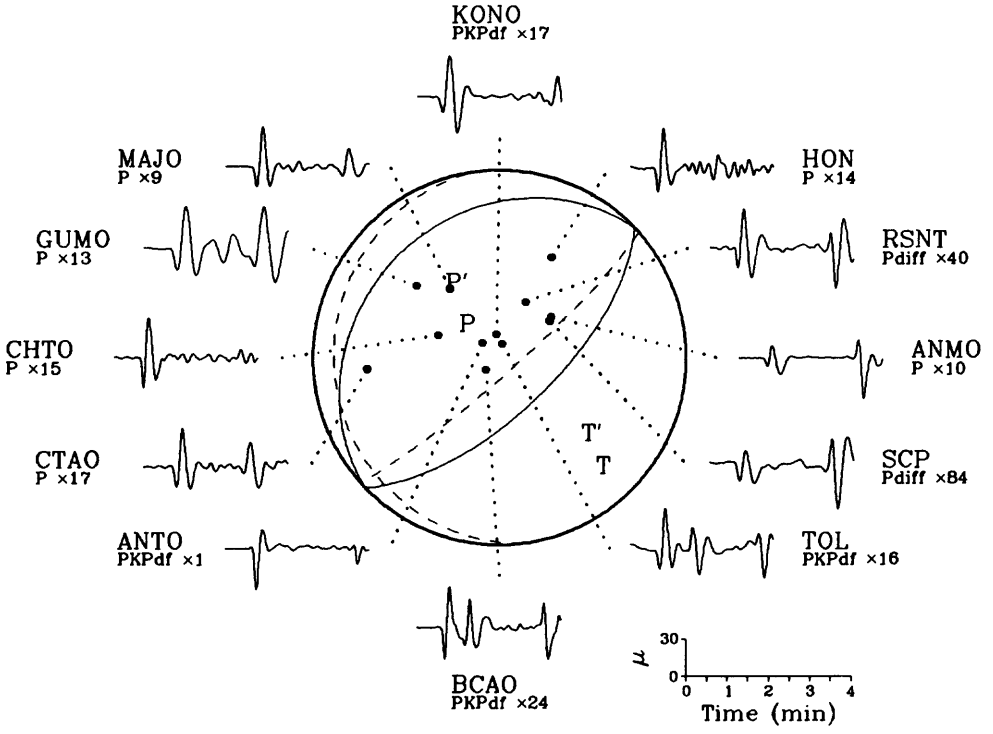
12 August 1985 03:49:18.09
Near East Coast of Honshu, Japan

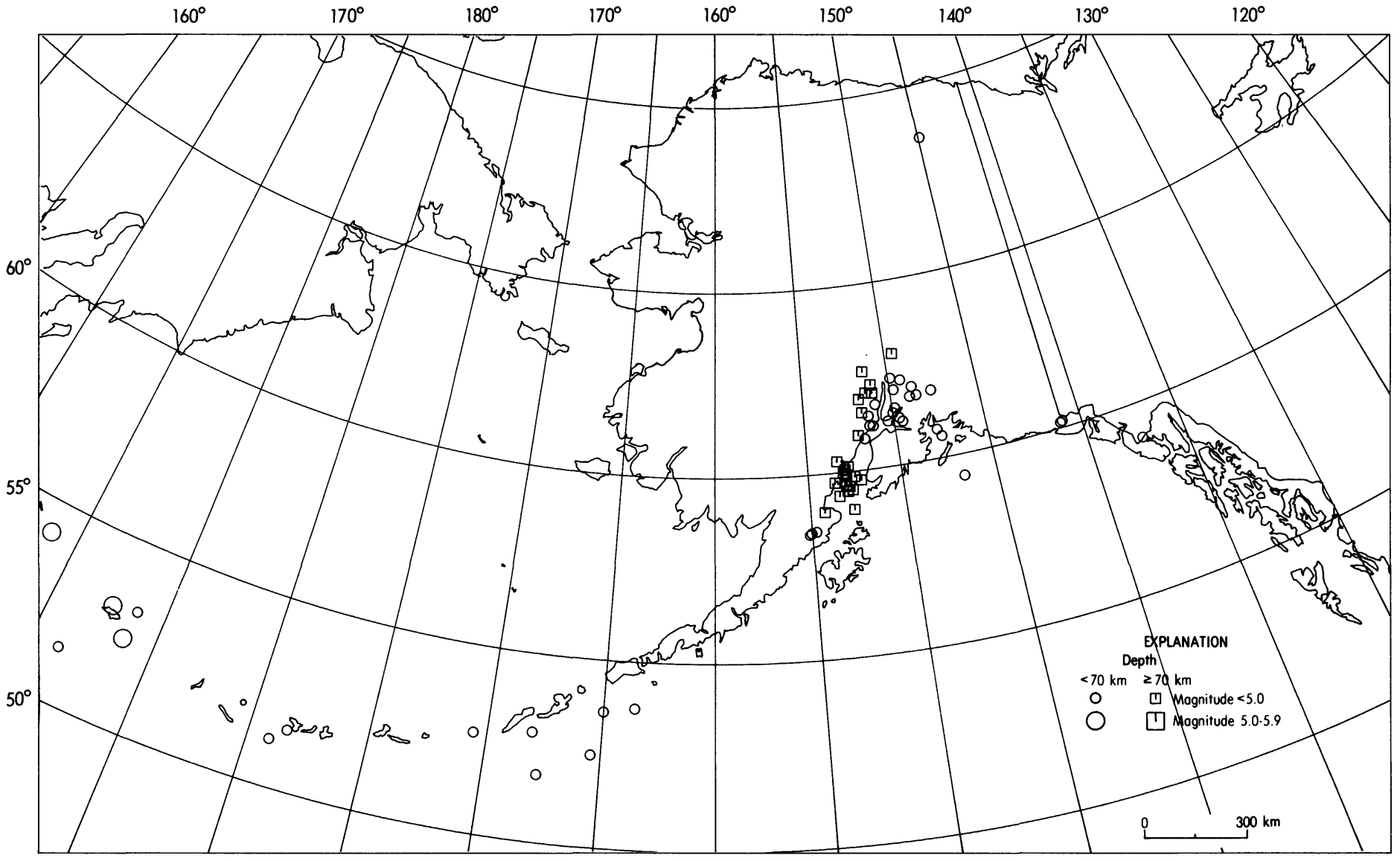


23 August 1985 12:41:56.16
Southern Xinjiang, China



28 August 1985 20:50:48.34
Fiji Islands Region





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

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PRELIMINARY DETERMINATION OF EPICENTERS

MONTHLY LISTING

U.S. DEPARTMENT OF THE INTERIOR / GEOLOGICAL SURVEY

National Earthquake Information Center

S E P T E M B E R 1 9 8 5

KEY	DAY	ORIGIN TIME UTC HR	MN	SEC	GEOGRAPHIC COORDINATES LAT		LONG		DEPTH		MAGNITUDES GS MB	Msz	SD	NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
	01	00	22	50.4%	40.222	N	29.365	E	10	G			1.3	8	TURKEY
a	01	01	00	55.5	19.780	N	75.282	W	10	G	5.1	4.5	0.9	134	CUBA REGION. Minor damage at Guantanamo Bay. Also felt at Kingston and in eastern Jamaica.
	01	01	38	43.1*	39.455	N	75.748	E	10	G	4.8		1.3	14	SOUTHERN XINJIANG, CHINA
	01	03	35	50.0*	20.758	S	69.048	W	165	*			0.8	11	NORTHERN CHILE
	01	03	37	22.1*	51.253	N	15.873	E	10	G			1.0	6	POLAND
	01	04	33	13.9?	35.08	S	70.88	W	10	G			1.3	10	CHILE-ARGENTINA BORDER REGION
	01	04	46	30.9*	27.978	N	140.823	E	33	N	5.1		1.0	11	BONIN ISLANDS REGION
	01	05	33	51.2	39.774	N	26.014	E	10	G			0.9	9	TURKEY
	01	06	28	27.9	0.963	N	121.756	E	70	*	4.7		1.3	30	MINAHASSA PENINSULA
	01	07	53	54.5	40.102	N	28.634	E	10	G			0.6	8	TURKEY
a	01	08	28	21.5*	38.910	S	92.051	W	10	G	5.2	5.1	1.4	48	WEST CHILE RISE
	01	09	45	28.1%	40.085	N	28.629	E	10	G			0.6	5	TURKEY
	01	10	57	19.5*	24.654	N	122.975	E	33	N	3.8		0.5	6	TAIWAN REGION
	01	12	08	18.7	52.205	N	115.242	W	5	G			1.1	16	ALBERTA PROVINCE, CANADA. ML 4.0 (NEW). Felt 25 km southwest of Rocky Mountain House.
	01	14	07	30.1*	49.379	N	155.786	E	33	N	4.6		0.5	18	KURIL ISLANDS
	01	14	36	08.1?	24.31	N	122.00	E	10	G			0.6	6	TAIWAN
	01	14	44	33.1%	46.080	N	8.576	E	10	G			1.3	7	SWITZERLAND
	01	15	23	16.8*	35.113	N	141.258	E	33	N	4.7		1.2	19	NEAR EAST COAST OF HONSHU, JAPAN
	01	16	41	42.6?	31.06	S	69.01	W	110	?			1.2	8	SAN JUAN PROVINCE, ARGENTINA
	01	17	59	33.8%	44.493	N	7.273	E	10	G			0.3	5	NORTHERN ITALY. ML 2.7 (LDG).
	01	18	13	27.8%	38.732	N	27.799	E	10	G			1.0	7	TURKEY
	01	18	14	30.3*	31.403	S	68.793	W	33	N			0.3	6	SAN JUAN PROVINCE, ARGENTINA
	01	18	29	22.5*	35.746	N	140.447	E	10	G			0.5	6	NEAR EAST COAST OF HONSHU, JAPAN
	01	19	07	42.2	23.769	N	102.738	E	10	G	5.0	5.1	1.2	49	YUNNAN PROVINCE, CHINA
	01	21	14	11.4*	14.972	S	175.096	E	617	*	4.3		0.7	11	FIJI ISLANDS REGION
	01	21	42	38.2&	61.550	N	151.022	W	73					24	SOUTHERN ALASKA. <AGS-P>.
	01	21	58	02.6	43.819	N	147.982	E	66	D	5.0		0.8	71	KURIL ISLANDS
	01	22	25	34.1	0.665	N	121.430	E	83	D	5.1		1.1	68	MINAHASSA PENINSULA
	01	23	34	05.4	39.285	N	75.444	E	25	*	4.8		0.9	36	SOUTHERN XINJIANG, CHINA
	01	23	37	32.1*	38.798	N	20.735	E	10	G			1.4	5	GREECE. ML 3.7 (ATH).
	02	01	28	19.0?	2.26	N	126.50	E	74	?			1.1	8	MOLUCCA PASSAGE
	02	01	32	53.4	17.093	N	119.267	E	41	*	5.0		1.0	40	PHILIPPINE ISLANDS REGION
	02	02	13	34.2*	43.245	N	46.873	E	33	N	4.7		0.2	6	EASTERN CAUCASUS. Felt (IV) at Kizilyurt and (III) at Makhachkala.
	02	02	47	13.3*	46.003	N	14.532	E	5	G			0.3	5	YUGOSLAVIA. ML 1.8 (KBA), 1.6 (TRI).
	02	04	41	57.6*	36.692	N	3.189	W	10	G			1.0	8	STRAIT OF GIBRALTAR
	02	04	55	31.1*	1.315	N	99.248	E	33	N			1.1	5	NORTHERN SUMATERA
	02	06	05	30.1	40.265	N	27.103	E	11				0.9	20	TURKEY
	02	06	24	12.9*	32.892	S	71.733	W	10	G			1.0	17	NEAR COAST OF CENTRAL CHILE
	02	08	37	00.2	28.165	N	140.714	E	33	N	5.1	4.7	1.2	101	BONIN ISLANDS REGION
	02	08	38	29.9*	28.122	N	140.691	E	33	N	5.3		1.5	39	BONIN ISLANDS REGION
	02	08	57	08.9*	23.493	N	102.863	E	33	N	4.2		1.6	7	YUNNAN PROVINCE, CHINA
	02	09	13	54.9?	27.94	N	141.05	E	33	N	4.9		1.1	6	BONIN ISLANDS REGION
	02	09	31	23.4*	17.678	S	172.924	W	33	N	5.1		1.3	15	TONGA ISLANDS REGION
	02	09	36	31.9	28.014	N	140.783	E	33	N	5.1		0.7	18	BONIN ISLANDS REGION
	02	10	39	09.4	27.054	N	142.842	E	33	N	4.8		1.1	37	BONIN ISLANDS REGION
	02	10	55	17.1&	60.015	N	153.397	W	122					23	SOUTHERN ALASKA. <AGS-P>.
	02	11	14	40.6%	40.173	N	28.642	E	10	G			1.0	8	TURKEY
	02	11	23	52.0	5.393	S	146.901	E	232		5.1		0.8	51	EAST PAPUA NEW GUINEA REGION
	02	12	04	33.9&	60.460	N	152.106	W	82					21	SOUTHERN ALASKA. <AGS-P>.
	02	12	33	16.1	26.596	N	126.308	E	135		4.9		0.9	38	RYUKYU ISLANDS
	02	12	41	59.4%	60.294	N	5.370	E	10	G			0.5	5	SOUTHERN NORWAY
	02	12	49	29.1	40.083	N	28.625	E	10	G			0.9	13	TURKEY
	02	13	52	24.4	12.367	N	144.022	E	38	*	5.0	4.4	1.1	52	SOUTH OF MARIANA ISLANDS
	02	14	08	41.5?	21.84	S	179.23	W	622	?	4.7		0.7	10	FIJI ISLANDS REGION
	02	16	53	30.0&	40.582	N	123.750	W	24					8	NORTHERN CALIFORNIA. <BRK>. ML 3.0 (BRK). Felt (III) at

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														Rio Dell.
	02	19	28	36.1*	14.284	N	91.124	W	146	?	4.1		1.1	22 GUATEMALA
	02	19	35	10.1*	40.682	N	23.243	E	10	G			1.5	6 GREECE
	02	19	45	08.1&	37.150	N	117.993	W	5					22 CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.4 (BRK), 3.3 (PAS).
	02	20	25	10.4?	43.87	N	16.48	E	10	G			0.8	8 YUGOSLAVIA. ML 3.2 (TRI), 3.2 (KBA), 3.0 (TTG).
	03	00	28	44.2	10.445	N	85.519	W	23	*	4.7	4.4	1.3	52 COSTA RICA. Felt in the Santa Cruz-Nicoya area.
	03	02	09	01.4*	50.354	N	18.852	E	10	G			0.7	6 POLAND. ML 3.0 (VKA).
	03	02	49	07.4*	36.498	N	71.336	E	33	N	4.8		1.2	7 AFGHANISTAN-USSR BORDER REGION
	03	02	58	52.0&	34.050	N	118.383	W	5	G				4 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.6 (PAS). Felt in the West Hollywood area.
	03	03	33	11.8	52.905	N	106.913	E	33	N	4.8		0.9	44 LAKE BAIKAL REGION. Felt (IV) at Tyrgana, Irkutsk, Ulan-Ude and Kudara.
	03	05	12	42.1?	31.57	S	68.51	W	10	G			1.0	5 SAN JUAN PROVINCE, ARGENTINA
	03	07	49	39.6	36.026	N	70.998	E	81	*	5.2		1.2	44 HINDU KUSH REGION
	03	08	28	26.0	6.748	N	76.429	W	35	D	4.9	4.5	1.4	58 NORTHERN COLOMBIA. Felt at Medellin and in northwestern Colombia.
	03	08	47	39.8?	40.79	N	34.66	E	10	G	3.7		1.4	9 TURKEY
	03	09	49	22.9*	0.966	S	29.170	E	33	N			0.5	5 ZAIRE REPUBLIC
	03	11	10	58.9%	42.794	N	23.978	E	10	G			0.7	5 BULGARIA
	03	12	35	08.8*	16.794	S	69.581	W	199	*			1.4	15 PERU-BOLIVIA BORDER REGION
	03	12	44	09.2*	17.394	S	174.477	W	33	N	4.8		1.1	11 TONGA ISLANDS
	03	12	49	55.7?	20.60	S	179.31	W	645	*	4.6		1.0	21 FIJI ISLANDS REGION
	03	13	59	50.1	28.206	N	140.675	E	33	N	5.2		1.0	43 BONIN ISLANDS REGION
	03	16	09	16.5*	3.013	S	127.966	E	58	?	4.5		1.5	12 CERAM
	03	16	42	01.4*	8 810	S	32.841	E	33	N	5.1		1.3	10 TANZANIA
	03	16	46	24.9	28 088	N	140.736	E	33	N	5.1		1.1	34 BONIN ISLANDS REGION
	03	16	53	01.4?	10.15	S	161.21	E	33	N	4.3		1.3	6 SOLOMON ISLANDS
	03	16	56	23.9	41.933	N	20.277	E	10	G			1.2	7 ALBANIA. ML 2.7 (TTG).
	03	17	55	57.3*	33.359	S	71.610	W	10	G			0.9	14 NEAR COAST OF CENTRAL CHILE
	03	18	34	28.8*	21.686	S	176.900	W	200	?	4.5		1.1	16 FIJI ISLANDS REGION
	03	19	03	05.2?	61.31	N	7.82	E	10	G			0.8	5 SOUTHERN NORWAY
	03	19	52	00.3*	22.244	S	70.240	W	99	*	4.4		1.4	12 NEAR COAST OF NORTHERN CHILE
	03	20	18	05.4?	31.38	S	68.47	W	88	?			0.4	7 SAN JUAN PROVINCE, ARGENTINA
	03	20	21	49.0%	39.970	N	28.530	E	10	G			0.7	6 TURKEY
	03	22	20	42.9	39.465	N	119.420	W	5	G			0.9	10 NEVADA. ML 3.0 (BRK).
o	03	23	32	47.5	1.409	N	128.153	E	114	D	5.7		1.0	212 HALMAHERA
	03	23	58	15.8*	21.796	N	111.740	E	33	N	4.3		1.4	8 EASTERN CHINA
	04	01	06	30.9*	47.115	N	18.026	E	10	G			1.3	6 HUNGARY
	04	01	20	58.2?	37.76	N	72.40	E	33	N	4.6		1.1	5 TAJIK SSR
	04	04	07	18.7*	44.209	N	114.140	W	5	G			0.6	8 WESTERN IDAHO. ML 3.0 (NEIS).
	04	04	36	17.2?	59.40	N	6.75	E	10	G			0.7	5 SOUTHERN NORWAY
	04	06	00	46.7&	37.752	N	122.090	W	6					17 CENTRAL CALIFORNIA. <BRK>. ML 3.0 (BRK). Mo=1.5*10**21 (BRK). Felt (V) at Dublin and (III) at Moraga. Also felt at San Leandro, Oakland, San Francisco, Daly City and San Bruno.
	04	06	15	22.4%	40.088	N	28.600	E	10	G			0.6	7 TURKEY
	04	06	34	16.3*	19.016	N	145.108	E	601	*	4.8		0.7	24 MARIANA ISLANDS
	04	06	42	22.2*	11.437	S	119.452	E	33	N	4.1		1.1	5 SOUTH OF SUMBA ISLAND
	04	06	43	03.0&	38.565	N	122.242	W	7					14 NORTHERN CALIFORNIA. <BRK>. ML 3.2 (BRK). Mo=1.2*10**21 (BRK).
	04	07	30	11.3?	33.55	S	68.45	W	10	G			1.0	6 MENDOZA PROVINCE, ARGENTINA
	04	08	23	55.2	5.594	N	126.412	E	107	*	5.2		1.2	41 MINDANAO, PHILIPPINE ISLANDS
	04	08	32	24.4	36.265	N	71.028	E	53	*	5.0		1.0	57 AFGHANISTAN-USSR BORDER REGION. Felt (III) at Khorog and Dushanbe, USSR.
	04	09	40	28.5*	45.407	N	25.334	E	10	G			0.9	5 ROMANIA
	04	09	48	24.5	38.482	N	21.437	E	36	*	4.4	3.2	1.4	72 GREECE. ML 4.2 (ATH), 4.0 (TTG).
	04	10	04	13.5	46.986	N	18.092	E	5	G			0.9	10 HUNGARY. ML 3.3 (VKA).
	04	10	46	49.9?	31.34	S	68.72	W	110	*			0.5	8 SAN JUAN PROVINCE, ARGENTINA
	04	12	54	35.6*	42.207	N	26.030	E	10	G			0.5	5 BULGARIA
	04	13	27	55.6*	17.788	N	101.204	W	33	N	3.2		1.5	15 NEAR COAST OF GUERRERO, MEXICO
	04	13	52	16.8?	10.59	S	161.18	E	33	N	4.5		0.8	6 SOLOMON ISLANDS
	04	14	06	33.8&	61.340	N	151.242	W	67					32 SOUTHERN ALASKA <AGS-P>.
	04	15	05	48.3*	36.330	N	71.147	E	81	?	4.5		0.9	12 AFGHANISTAN-USSR BORDER REGION
	04	15	33	52.1%	46.263	N	8.635	E	10	G			0.8	7 SWITZERLAND
	04	16	11	14.7?	35.91	N	137.06	E	33	N			0.8	6 HONSHU, JAPAN
	04	16	25	58.2?	30.60	N	116.20	W	5	G			1.1	9 BAJA CALIFORNIA
	04	17	06	19.8?	30.18	S	72.00	W	33	N			1.2	14 NEAR COAST OF CENTRAL CHILE
	04	19	00	04.6*	31.290	S	68 770	W	99	?			0.2	8 SAN JUAN PROVINCE, ARGENTINA
	04	19	10	42.1?	31.87	N	70.67	E	94	?	4.7		1.2	7 PAKISTAN
	04	19	11	42.0?	34.09	S	71.86	W	10	G			0.8	15 NEAR COAST OF CENTRAL CHILE
	04	19	22	05.4*	42.198	N	143.210	E	52	*	4.8		1.0	38 HOKKAIDO, JAPAN REGION
	04	19	30	06.3?	22.79	S	65 53	W	246	?			0.9	7 JUJUY PROVINCE, ARGENTINA
	04	19	54	18.0	33.162	S	71.614	W	10	G			0.8	16 NEAR COAST OF CENTRAL CHILE
	04	21	02	20.3	5.591	S	150.973	E	10	G			1.4	8 NEW BRITAIN REGION
	04	22	34	51.8*	36.310	N	71.288	E	33	N	4.2		1.3	10 AFGHANISTAN-USSR BORDER REGION
	04	22	42	07.8*	24.183	S	66.813	W	223	*			0.4	7 SALTA PROVINCE, ARGENTINA
	05	01	33	24.2*	33.234	S	72.269	W	10	G			0.2	10 OFF COAST OF CENTRAL CHILE
	05	03	52	20.2&	61.640	N	149 969	W	42					44 SOUTHERN ALASKA. <AGS-P>. Felt (II) at Anchorage.
a	05	03	53	12.0	7.364	S	128.472	E	143		5.3		0.9	116 BANDA SEA
	05	03	59	26.3	44.669	N	111.053	W	5	G			0.7	11 HEBGEN LAKE REGION. ML 3.1 (NEIS). Felt (II) in the Old Faithful area of Yellowstone National Park.
o	05	05	11	35.3*	64.440	S	176.978	E	10	G	4.9	4.7	1.4	11 BALLENY ISLANDS REGION
	05	06	34	58.0*	18.559	S	173.632	W	33	N	4.6		1.1	14 TONGA ISLANDS
	05	07	08	42.1	24.236	S	67.102	W	205	*			0.6	12 CHILE-ARGENTINA BORDER REGION
	05	08	32	21.4*	58.862	S	25.499	W	33	N	4.8	5.1	1 0	25 SOUTH SANDWICH ISLANDS REGION
o	05	08	37	45.2	56.838	S	24.583	W	33	N	5 1	5.2	0 9	54 SOUTH SANDWICH ISLANDS REGION
	05	09	02	35.4?	61.54	N	2.37	E	10	G			0 5	5 NORWEGIAN SEA
	05	09	45	36.5	3.434	N	95.858	E	60	*	4.9		1 0	32 OFF W COAST OF NORTHERN SUMATERA
	05	09	58	53.6&	59.406	N	152.825	W	69					31 SOUTHERN ALASKA. <AGS-P>
	05	10	14	07.8*	24.085	N	121.820	E	10	G			0.8	6 TAIWAN
	05	10	36	09.9	37.832	N	26.776	E	33	N			0.2	6 DODECANESE ISLANDS. ML 3.5 (ATH).
	05	11	40	52.8*	50.354	N	5.641	E	10	G			0.9	5 BELGIUM

	05	12	28	19.6&	60.036	N	153.645	W	159				34	SOUTHERN ALASKA. <AGS-P>.
	05	13	47	28.3?	45.15	N	28.20	E	5	G		1.3	11	SOUTHWESTERN USSR
	05	14	13	33.5?	66.43	N	149.74	W	10	G		0.7	6	ALASKA
	05	14	33	48.9&	33.980	N	116.960	W	16				8	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
	05	14	58	31.6?	24.79	N	109.45	W	10	G	4.4	0.7	7	GULF OF CALIFORNIA
	05	15	30	30.5?	36.93	N	19.60	E	10	G		1.2	10	MEDITERRANEAN SEA. ML 3.8 (ATH).
	05	15	33	33.3	33.586	N	137.782	E	312		4.9	0.8	93	NEAR S. COAST OF HONSHU, JAPAN
	05	16	20	40.2?	24.40	N	121.85	E	10	G		1.0	5	TAIWAN
a	05	16	30	55.8	28.020	N	139.407	E	500		4.9	0.9	127	BONIN ISLANDS REGION
	05	16	43	38.4*	51.351	N	178.509	W	33	N	4.5	1.1	23	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.4 (PMR).
	05	17	33	12.5&	38.560	N	122.237	W	8				14	NORTHERN CALIFORNIA. <BRK>. ML 2.9 (BRK).
a	05	18	30	23.2	25.405	N	97.696	E	33	N	5.0 5.1	1.0	91	BURMA-CHINA BORDER REGION
	05	18	33	33.3	30.562	S	117.160	E	33	N		0.6	6	WESTERN AUSTRALIA
	05	19	18	38.8&	38.562	N	122.242	W	7				10	NORTHERN CALIFORNIA. <BRK>. ML 2.6 (BRK).
	05	22	50	12.1*	28.151	N	140.787	E	33	N	4.4	0.9	21	BONIN ISLANDS REGION
	05	23	52	20.0	5.891	S	146.254	E	113		5.0	1.0	29	EAST PAPUA NEW GUINEA REGION
	05	23	58	34.8*	45.960	N	14.486	E	33	N		1.0	6	YUGOSLAVIA. ML 2.7 (TRI), 2.6 (VKA). Felt (IV) at Skofja Loka and (III) at Kranj.
	06	00	22	30.1	37.573	N	142.567	E	26		5.1	0.8	63	OFF EAST COAST OF HONSHU, JAPAN
	06	01	40	58.4*	27.973	N	140.834	E	33	N	4.9	0.8	8	BONIN ISLANDS REGION
	06	03	56	57.1*	28.183	N	140.715	E	33	N	5.1	1.3	28	BONIN ISLANDS REGION
	06	04	07	47.2*	21.062	S	179.189	W	626	*	4.1	0.8	12	FIJI ISLANDS REGION
	06	04	32	24.8	36.079	N	120.100	W	10	G		0.8	11	CENTRAL CALIFORNIA. ML 2.6 (BRK).
	06	05	22	46.2&	32.544	N	106.940	W	5	G			3	NEW MEXICO. <GLD>. DUR 2.6 (GLD). Felt at Leasburg and Radium Springs.
	06	05	39	29.8?	24.73	N	123.82	E	33	N		0.5	6	SOUTHWESTERN RYUKYU ISLANDS
	06	05	54	28.1*	31.486	S	68.544	W	33	N		0.4	5	SAN JUAN PROVINCE, ARGENTINA
	06	07	42	08.1?	14.10	S	76.30	W	33	N		0.8	8	NEAR COAST OF PERU
	06	08	11	05.5	21.462	S	66 858	W	233		4.7	0.8	12	SOUTHERN BOLIVIA
	06	09	38	46.0*	9.590	S	111.089	E	79	*	5.4	1.4	28	SOUTH OF JAVA
	06	10	20	09.8*	21.317	S	178.972	W	550	*	4.4	1.0	15	FIJI ISLANDS REGION
	06	12	03	45.5	23.330	N	121.895	E	33	N	3.6	0.6	9	TAIWAN
	06	12	14	41.4?	24.73	N	122.04	E	10	G		0.9	5	TAIWAN REGION
	06	12	52	09.9?	43.10	N	2.61	E	10	G		0.7	5	FRANCE. ML 2.6 (LDG).
	06	13	17	15.8?	16.01	N	98.24	W	5	G		1.4	6	NEAR COAST OF GUERRERO, MEXICO
	06	17	18	57.5	43.151	N	110 935	W	5	G		1.1	11	WYOMING ML 3.6 (NEIS).
	06	18	19	21.8?	17.10	N	119.68	E	10	G		1.8	4	PHILIPPINE ISLANDS REGION. Felt (I RF) at Baguio.
	06	20	17	09.9%	31.504	S	68.598	W	33	N		0.4	5	SAN JUAN PROVINCE, ARGENTINA
	06	22	17	02.8	35.809	N	93.118	W	10	G		0.7	23	ARKANSAS. mbLg 3.6 (NEIS), 3.8 (TUL). Felt (V) at Deer, Green Forest, Kingston, Nail, Ozone and Pyatt. Felt (IV) at Bass, Bruno, Evertan, Hasty, Huntsville, Jasper, Mount Judea, Parthenan, Saint Paul, Tilly, Western Grove and Vendor. Felt throughout much of northwestern Arkansas.
a	07	00	22	01.5	3.079	S	130.348	E	26		5.6 5.6	1.2	134	CERAM
	07	02	18	37.4	32.855	S	71.783	W	10			0.7	16	NEAR COAST OF CENTRAL CHILE
	07	02	41	04.0?	37.82	N	20.91	E	10	G		1.4	5	IONIAN SEA. ML 3.5 (ATH).
	07	03	14	49.5*	36.546	N	71.171	E	33	N	4.2	1.1	11	AFGHANISTAN-USSR BORDER REGION
	07	03	47	29.2	43.156	N	110.724	W	5	G	4.6	1.2	42	WYOMING. ML 4.6 (NEIS). Felt (V) at Alpine, (IV) at Wilson and (III) at Bandurant. Also felt (IV) at Victor and Irwin, Idaho and (III) at Palisades, Swan Valley and Wayon, Idaho. Felt at Moose and Jackson, Wyoming. The earthquake triggered a rock slide in the Snake River Canyon south of Jackson, temporarily closing U.S. Highway 89.
a	07	04	40	30.0	3.136	S	130.279	E	24		5.5 5.4	1.1	156	CERAM
	07	04	55	12.4	3.110	S	130.267	E	43	*	5.3	1.3	72	CERAM
	07	05	00	47.4	59.576	S	26.230	W	33	N	5.4 5.2	0.9	72	SOUTH SANDWICH ISLANDS REGION
	07	06	00	03.5*	33.653	S	72.071	W	10			1.0	12	OFF COAST OF CENTRAL CHILE
	07	06	22	49.0	21.681	N	142.904	E	321	*	4.7	0.6	20	MARIANA ISLANDS REGION
	07	07	20	48.9%	31.568	S	68.561	W	33	N		0.5	5	SAN JUAN PROVINCE, ARGENTINA
	07	08	16	37.1*	12.134	S	166.622	E	191	*	4.7	0.9	12	SANTA CRUZ ISLANDS
	07	08	50	01.3	21.632	S	68.765	W	174			0.6	14	CHILE-BOLIVIA BORDER REGION
	07	09	23	11.6*	2.186	S	133.362	E	33	N		0.8	11	WEST IRIAN REGION
	07	09	51	33.8	36.063	N	1.192	E	11		4.4	1.1	36	ALGERIA
o	07	10	20	50.2	37.445	N	21.235	E	31		5.3 5.3	1.3	226	SOUTHERN GREECE. ML 5.4 (ATH). Felt on Zakinthos and in western Peloponnisos.
	07	11	34	18.3*	41.701	N	23.754	E	10	G		0.4	5	GREECE-BULGARIA BORDER REGION
	07	12	15	08.5?	20.48	S	67.71	E	10	G	4.2	0.2	6	MID-INDIAN RISE
	07	12	51	01.7*	31.706	N	131.896	E	33	N	4.1	1.3	13	KYUSHU, JAPAN
	07	12	56	13.4*	33.288	S	71.689	W	10	G		0.6	10	NEAR COAST OF CENTRAL CHILE
	07	12	58	27.5?	37.21	N	21.22	E	33	N	4.3	1.4	12	SOUTHERN GREECE. ML 3.4 (ATH).
	07	14	21	33.1	26.193	S	28.202	E	10	G		1.4	10	REPUBLIC OF SOUTH AFRICA
	07	14	28	44.7?	36.73	N	21.30	E	33	N		0.8	9	SOUTHERN GREECE. ML 3.6 (ATH).
	07	14	33	30.8	26.029	N	125.974	E	128	*	4.3	1.2	26	NORTHEAST OF TAIWAN
	07	15	19	59.0&	59.935	N	153.110	W	102				28	SOUTHERN ALASKA. <AGS-P>.
	07	15	29	36.4?	28.01	N	140.66	E	33	N	5.1	1.0	15	BONIN ISLANDS REGION
	07	15	54	38.2?	18.50	N	102.93	W	10	G		1.2	5	MICHOACAN, MEXICO
	07	17	13	44.2&	62.393	N	151.127	W	82				31	CENTRAL ALASKA. <AGS-P>.
	07	17	27	30.5&	37.375	N	121.755	W	5				16	CENTRAL CALIFORNIA. <BRK> ML 3.0 (BRK). Mo=3.8*10**20 (BRK). Felt at San Jose.
	07	18	03	07.3&	37.360	N	121.752	W	5				14	CENTRAL CALIFORNIA. <BRK>. ML 2.7 (BRK).
	07	18	28	50.9?	61.48	N	4.09	E	10	G		0.8	5	SOUTHERN NORWAY
	07	19	01	45.8*	25.410	N	97.610	E	33	N		1.3	8	BURMA-CHINA BORDER REGION
	07	19	24	37.4&	33.690	N	116.740	W	19				6	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
	07	19	29	33.0*	35.781	N	140.109	E	83		4.4	0.5	8	NEAR EAST COAST OF HONSHU, JAPAN
	07	19	31	00.6?	33.39	S	71.70	W	10	G		1.5	7	NEAR COAST OF CENTRAL CHILE
	07	20	46	24.5*	51.476	N	15.997	E	10	G		1.0	7	POLAND. ML 3 3 (VKA).
	07	21	26	33.1?	46.12	N	14.31	E	10	G		1.9	5	YUGOSLAVIA. ML 2.8 (KBA). Felt (V) at Postojna.
	07	22	59	20.2*	56.223	S	30.061	W	33	N	5.0	1.1	11	SOUTH SANDWICH ISLANDS REGION
	07	22	59	34.8	4.332	S	152.916	E	60		5.2	1.3	37	NEW BRITAIN REGION. Felt (IV) at Rabaul.
	07	23	55	27.3?	61.45	N	3.83	E	10	G		0.3	5	NORWEGIAN SEA
	08	01	09	15.5*	32.778	N	141.597	E	33	N	4.8	1.2	15	SOUTH OF HONSHU, JAPAN

	08	03 01 47.7?	30.17	S	67.60	W	33	N			0.7	6	SAN JUAN PROVINCE, ARGENTINA
	08	03 21 49.7?	11.59	N	90.27	W	33	N	4.1		1.5	12	OFF COAST OF CENTRAL AMERICA
	08	05 13 29.3*	39.471	N	122.138	W	10	G			1.5	7	NORTHERN CALIFORNIA. ML 2.9 (BRK).
	08	07 30 06.3?	31.10	S	70.86	W	33	N			0.6	6	CHILE-ARGENTINA BORDER REGION
	08	09 23 44.3	8.002	N	93.218	E	33	N	4.9		1.4	33	NICOBAR ISLANDS REGION
	08	09 26 31.7*	38.367	N	21.936	E	10	G			1.4	8	GREECE. ML 3.1 (ATH).
	08	12 06 24.2*	18.933	S	68.121	W	10	G			0.6	5	CHILE-BOLIVIA BORDER REGION
	08	12 17 18.4&	35.993	N	120.125	W	11					17	CENTRAL CALIFORNIA. <BRK>. ML 3.1 (BRK), 3.2 (PAS).
	08	12 26 17.3%	41.062	N	28.566	E	10	G			0.4	5	TURKEY
	08	12 31 50.4*	61.612	N	3.072	E	10	G			1.0	14	NORWEGIAN SEA. DUR 3.1 (BER).
	08	13 39 25.1*	38.289	N	22.671	E	10	G			1.3	9	GREECE. ML 3.0 (ATH).
	08	13 43 51.4*	31.501	S	68.508	W	33	N			0.6	6	SAN JUAN PROVINCE, ARGENTINA
	08	13 47 28.6	54.971	N	162.036	E	33	N	4.9	4.7	0.8	84	NEAR EAST COAST OF KAMCHATKA
	08	14 12 23.4	28.354	N	140.503	E	33	N	5.2		1.2	38	BONIN ISLANDS REGION
	08	15 14 00.9*	5.731	S	147.572	E	143	*			1.3	8	EAST PAPUA NEW GUINEA REGION
	08	15 29 51.8	14.326	N	91.279	W	33	N	4.6	3.9	1.3	40	GUATEMALA
	08	15 45 07.1	29.442	S	137.201	E	33	N			1.0	11	SOUTH AUSTRALIA
	08	15 56 15.8*	37.171	N	72.080	E	129	?	4.5		1.0	29	TAJIK SSR. Felt (IV) at Khorog and (III) at Rushan.
	08	15 59 17.2	9.494	N	122.492	E	59	*	5.1		1.2	43	NEGROS, PHILIPPINE ISLANDS. Felt (III RF) at La Carlota.
	08	17 32 46.7	6.407	S	154.580	E	33	N	4.9		0.7	7	SOLOMON ISLANDS
	08	17 34 46.7	4.484	N	126.343	E	100	*	4.9		1.1	26	TALAUD ISLANDS
	08	18 07 40.0	17.624	S	167.712	E	10	G	5.3		1.3	33	VANUATU ISLANDS
	08	18 19 30.1?	11.17	S	164.36	E	33	N	4.5		1.3	8	SANTA CRUZ ISLANDS REGION
	08	18 35 03.7	7.392	S	156.377	E	60		4.7		1.2	22	SOLOMON ISLANDS
	08	18 36 57.0&	62.495	N	151.436	W	96					18	CENTRAL ALASKA. <AGS-P>.
	08	19 47 44.9*	15.580	S	167.475	E	143	*	4.5		1.2	34	VANUATU ISLANDS
	08	20 35 35.4*	56.343	S	26.589	W	61	D	5.2		1.1	24	SOUTH SANDWICH ISLANDS REGION
	08	22 23 28.3*	36.577	N	71.469	E	33	N	4.7		0.7	11	AFGHANISTAN-USSR BORDER REGION
	08	22 43 11.8	39.420	N	75.297	E	10	G	4.6		0.8	17	SOUTHERN XINJIANG, CHINA
a	08	22 46 05.5	20.959	S	178.938	W	621		5.1		0.9	140	FIJI ISLANDS REGION
	08	23 04 12.1	39.277	N	75.408	E	10	G	4.8		1.2	23	SOUTHERN XINJIANG, CHINA
	09	00 03 50.6*	51.431	N	30.254	W	10	G	4.3		1.1	30	NORTH ATLANTIC RIDGE
	09	00 49 20.5*	42.434	N	126.711	W	10	G	4.7		1.2	23	OFF COAST OF OREGON
	09	01 26 02.9%	40.252	N	29.591	E	10	G			0.5	9	TURKEY
	09	01 47 22.6%	45.396	N	6.657	E	10	G			0.7	5	FRANCE. ML 2.4 (LDG).
	09	02 16 49.8*	25.999	N	97.602	E	33	N			0.9	8	BURMA-CHINA BORDER REGION
	09	02 46 34.2*	23.225	S	178.925	E	553		4.6		1.3	45	SOUTH OF FIJI ISLANDS
	09	02 58 51.9	28.409	N	140.453	E	33	N	5.1		1.3	24	BONIN ISLANDS REGION
	09	03 46 32.2*	18.817	S	71.832	W	33	N			0.7	7	OFF COAST OF NORTHERN CHILE
	09	04 45 24.5	42.799	N	12.232	E	10	G	3.9		1.2	45	CENTRAL ITALY. Minor damage at Foligno.
	09	05 28 21.9	14.820	N	93.631	E	41		5.1		1.0	131	ANDAMAN ISLANDS REGION
	09	08 22 09.4?	59.39	N	6.71	E	10	G			0.9	5	SOUTHERN NORWAY. DUR 2.1 (BER).
a	09	09 33 12.3	6.464	S	149.865	E	14		5.5	5.2	1.0	176	NEW BRITAIN REGION
	09	10 20 12.7*	11.585	S	119.168	E	33	N			0.7	6	SOUTH OF SUMBA ISLAND
	09	10 36 19.0	5.921	S	104.914	E	87	*	5.3		1.1	43	SOUTHERN SUMATERA
	09	11 01 59.8*	21.540	N	122.447	E	33	N			1.1	12	TAIWAN REGION
	09	11 09 36.0*	36.031	N	140.146	E	33	N			1.5	6	NEAR EAST COAST OF HONSHU, JAPAN
	09	12 39 33.7*	27.937	N	140.898	E	33	N	5.2		0.3	6	BONIN ISLANDS REGION
	09	13 18 26.3%	60.730	N	5.570	E	10	G			0.4	5	SOUTHERN NORWAY. DUR 1.9 (BER).
	09	13 59 33.4	26.506	N	44.681	W	10	G	4.9	4.4	0.8	49	NORTH ATLANTIC RIDGE
	09	14 15 13.9%	60.317	N	5.209	E	10	G			1.0	5	SOUTHERN NORWAY. DUR 1.4 (BER).
a	09	15 18 03.1	46.343	N	153.360	E	33	N	5.4	5.2	0.9	177	KURIL ISLANDS
	09	18 18 50.3*	3.170	N	127.793	E	95	?	4.7		0.5	9	TALAUD ISLANDS
	09	18 21 26.0*	29.071	N	129.858	E	73	?	4.9		1.4	16	RYUKYU ISLANDS
	09	18 53 03.0*	9.783	S	114.102	E	33	N	5.2		1.5	32	SOUTH OF BALI ISLAND
	09	20 36 59.6&	61.705	N	151.103	W	74					29	SOUTHERN ALASKA. <AGS-P>.
	09	20 58 23.3	28.317	N	140.470	E	33	N	4.9		1.4	48	BONIN ISLANDS REGION
	09	22 06 31.0	41.848	N	88.014	W	5	G			0.3	9	ILLINOIS. mbLg 3.0 (NEIS). Felt (V) at Clorendan Hills, Edgebrook, Hinsdale and La Grange. Felt (IV) at Brookfield and Western Springs. Felt (III) at Countryside, Lindenwood and Villa Park.
	09	22 23 26.4%	29.267	N	115.866	E	33	N			0.7	7	EASTERN CHINA
	09	22 53 48.9&	61.736	N	150.953	W	78		4.3			67	SOUTHERN ALASKA. <AGS-P>. Felt (III) at Anchorage, Palmer and Willow.
	09	23 07 14.8&	36.938	N	121.430	W	3					16	CENTRAL CALIFORNIA. <BRK>. ML 3.2 (BRK).
	09	23 14 00.9	14.126	N	120.834	E	244	*	4.6		1.0	12	LUZON, PHILIPPINE ISLANDS
	10	00 38 36.5	47.062	N	18.121	E	10	G			0.9	25	HUNGARY. ML 3.8 (KBA), 3.7 (VKA). Minor damage in the Berhido-Peremarton area.
	10	00 38 53.3	20.981	S	178.007	W	493		5.0		0.9	78	FIJI ISLANDS REGION
	10	00 51 00.1*	13.239	S	164.881	E	33	N	4.0		0.2	6	VANUATU ISLANDS REGION
a	10	01 26 04.4	60.394	N	168.809	E	17	D	5.7	4.4	0.8	214	EASTERN SIBERIA
a	10	02 30 55.3	6.480	S	149.871	E	29		5.1	4.8	1.1	104	NEW BRITAIN REGION
f	10	04 07 47.4	6.394	S	149.733	E	10	G	5.8	6.3	1.1	269	NEW BRITAIN REGION. Ms 6.0 (PAS), 5.7 (BRK).
	10	04 34 57.5*	46.653	N	153.255	E	33	N	4.8		1.0	23	KURIL ISLANDS
	10	04 35 38.1	6.527	S	149.922	E	19	*	4.9		1.1	20	NEW BRITAIN REGION
	10	04 50 12.1	13.687	N	120.771	E	139		5.0		1.0	71	MINDORO, PHILIPPINE ISLANDS. Felt (I RF) at Manila, Luzon.
	10	04 53 36.5	4.816	S	76.750	W	128		5.0		0.7	105	NORTHERN PERU
	10	05 11 03.9*	6.584	S	150.162	E	33	N	5.1		1.4	17	NEW BRITAIN REGION
	10	05 45 10.5	6.567	S	150.071	E	33	*	5.1		1.4	34	NEW BRITAIN REGION
	10	05 45 46.2*	42.486	N	18.450	E	10	G			0.7	8	YUGOSLAVIA. ML 2.8 (BRY), 2.6 (TTG), 2.6 (PVY).
	10	06 17 49.4%	46.370	N	27.507	E	27	*			0.9	7	ROMANIA
a	10	06 39 01.7	27.208	N	139.848	E	501	D	5.8		1.0	382	BONIN ISLANDS REGION. mb 6.1 (PAS), 5.6 (BRK). Felt (III JMA) on Chichi-shima. Felt (I JMA) at Mito and Utsunomiyo, Honshu.
	10	08 30 15.8*	48.024	N	128.508	W	10	G	4.5		1.1	30	VANCOUVER ISLAND REGION
	10	08 39 22.5?	59.38	N	6.72	E	10	G			0.9	5	SOUTHERN NORWAY. DUR 2.1 (BER).
	10	08 57 29.7	24.553	N	122.890	E	106	*	5.1		1.1	25	TAIWAN REGION
	10	08 57 59.9	27.306	N	139.896	E	514	D	5.0		0.8	88	BONIN ISLANDS REGION
	10	09 50 08.0?	13.52	S	34.26	E	33	N			1.1	5	MALAWI
	10	10 05 16.3	6.586	S	149.963	E	33	N			1.1	17	NEW BRITAIN REGION
	10	10 46 13.0	6.605	S	150.096	E	10	G	5.0		1.1	11	NEW BRITAIN REGION

	10	11	08	31.9*	6.655	S	150.050	E	10	G	4.9		1.5	11	NEW BRITAIN REGION
	10	11	18	36.1*	25.717	N	140.366	E	351	?	4.6		1.4	23	VOLCANO ISLANDS REGION
	10	11	52	44.2?	46.54	N	18.05	E	10	G			1.2	6	HUNGARY
	10	11	52	58.4	6.416	S	149.960	E	41		5.5	5.1	0.8	152	NEW BRITAIN REGION
	10	12	39	57.9*	6.591	S	150.190	E	33	N	4.9		1.3	10	NEW BRITAIN REGION
	10	14	19	19.1*	28.437	N	140.270	E	33	N	5.0		1.4	36	BONIN ISLANDS REGION
	10	14	39	19.1	6.641	S	149.923	E	33	N	4.5		1.1	11	NEW BRITAIN REGION
	10	14	39	47.4*	10.593	N	139.482	E	33	N	5.0		0.8	13	WEST CAROLINE ISLANDS
	10	15	52	21.8*	6.707	S	150.094	E	10	G	4.7		1.2	10	NEW BRITAIN REGION
	10	16	52	36.4*	35.570	S	71.168	W	120	*	4.5		1.0	24	CENTRAL CHILE
	10	16	56	05.1*	6.647	S	150.046	E	19		4.5		0.9	13	NEW BRITAIN REGION
	10	17	20	05.7&	61.356	N	151.693	W	98		4.4			61	SOUTHERN ALASKA. <AGS-P>. Felt (III) at Anchoroge, (II) ot Polmer ond Big Loke.
	10	17	21	14.5*	6.569	S	149.951	E	33	N	4.4		1.4	12	NEW BRITAIN REGION
	10	17	21	39.4	64.319	N	150.427	W	61	*	4.4		0.7	15	CENTRAL ALASKA. Felt (III) ot Foirbonks.
	10	18	09	34.4*	6.450	S	149.865	E	33	N	4.5		1.2	6	NEW BRITAIN REGION
	10	18	29	24.9?	59.38	N	6.70	E	0	G			0.9	6	SOUTHERN NORWAY. DUR 2.1 (BER). Probable explosion.
	10	18	47	06.0*	30.458	S	71.399	W	10	G			1.3	14	NEAR COAST OF CENTRAL CHILE
	10	18	48	44.5?	1.49	N	127.04	E	33	N	4.8		0.5	9	HALMAHERA
	10	19	48	10.2	6.687	S	150.055	E	10	G			1.2	14	NEW BRITAIN REGION
	10	20	10	06.1?	27.99	N	53.74	E	33	N	4.4		1.3	8	SOUTHERN IRAN. Felt in southeastern Fors Province.
	10	20	20	39.8*	37.415	N	21.204	E	35	?	4.0		1.4	22	SOUTHERN GREECE. ML 3.6 (ATH).
	10	20	57	07.4	35.866	N	1.347	E	24	*	4.0		1.2	26	ALGERIA
	10	21	07	29.4	6.640	S	150.064	E	33	N			1.0	7	NEW BRITAIN REGION
	10	21	31	28.3*	5.957	S	154.389	E	45	*	5.2		0.9	16	SOLOMON ISLANDS
	10	22	07	27.9&	37.715	N	122.535	W	8					10	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK). Mo=5.3*10**19 (BRK). Felt ot Pocifico ond Son Froncisco.
	10	23	46	52.2?	24.51	S	115.85	W	10	G	4.7	4.5	0.9	14	EASTER ISLAND CORDILLERA
	11	00	42	23.6?	6.60	S	150.01	E	33	N			1.8	5	NEW BRITAIN REGION
	11	00	47	20.5	7.187	S	106.868	E	54	D	4.8		1.3	38	JAVA
	11	01	54	02.4?	24.94	S	115.83	W	10	G	4.7	4.5	1.0	17	EASTER ISLAND CORDILLERA
	11	01	56	24.1*	33.020	N	47.469	E	33	N	4.4		0.8	19	WESTERN IRAN
	11	01	57	20.7	40.349	N	63.121	E	33	N	4.8		0.8	71	UZBEK SSR. Felt (V) at Gozli ond (III) at Bukhoro.
	11	02	06	53.9*	16.517	N	98.461	W	33	N			1.3	8	NEAR COAST OF GUERRERO, MEXICO
	11	02	40	34.3?	24.93	S	115.96	W	10	G	4.6		1.2	16	EASTER ISLAND CORDILLERA
	11	02	44	01.1	28.266	N	140.581	E	33	N	4.6		1.4	42	BONIN ISLANDS REGION
	11	03	07	31.3	52.764	N	152.636	E	539	D	4.9		0.8	207	NORTHWEST OF KURIL ISLANDS
	11	04	51	55.1*	21.947	S	169.675	E	33	N	4.1		1.1	11	LOYALTY ISLANDS REGION
	11	05	09	33.6*	16.701	S	176.063	E	33	N	4.8		1.1	19	FIJI ISLANDS REGION
	11	07	45	00.0*	36.511	N	70.959	E	191	?	4.7		1.1	18	HINDU KUSH REGION
	11	07	55	30.8*	6.578	S	150.053	E	33	N			1.5	5	NEW BRITAIN REGION
	11	08	11	31.8?	35.91	N	71.14	E	130	?	3.8		0.2	6	PAKISTAN
	11	08	20	37.8&	62.967	N	149.082	W	55					23	CENTRAL ALASKA. <AGS-P>.
	11	08	26	42.1%	59.315	N	6.911	E	0	G			0.4	6	SOUTHERN NORWAY. DUR 2.6 (BER). Probable explosion.
	11	08	37	35.4	11.141	S	112.218	E	33	N	5.1		1.0	36	SOUTH OF JAVA
	11	08	46	30.8&	60.034	N	153.064	W	99					24	SOUTHERN ALASKA. <AGS-P>.
	11	08	57	44.9	8.018	S	108.848	E	96	*	5.1		1.1	52	JAVA
	11	09	08	33.2?	38.82	N	27.49	E	10	G			0.3	4	TURKEY
	11	10	22	17.6*	28.181	N	140.471	E	33	N	4.1		1.2	23	BONIN ISLANDS REGION
	11	10	43	39.6	6.580	S	149.972	E	33	N	4.7		1.3	19	NEW BRITAIN REGION
	11	11	08	30.5	36.366	N	28.796	E	52		4.2		1.1	74	DODECANESE ISLANDS
	11	11	09	24.9*	36.563	N	71.391	E	33	N	4.2		0.4	6	AFGHANISTAN-USSR BORDER REGION
	11	12	36	41.5*	36.593	N	71.511	E	71	?	4.4		1.3	9	AFGHANISTAN-USSR BORDER REGION
	11	13	10	07.4?	30.81	N	121.77	E	33	N			2.0	5	EASTERN CHINA
	11	13	30	33.1?	34.08	S	72.19	W	33	N			0.4	9	NEAR COAST OF CENTRAL CHILE
	11	13	32	44.2%	60.741	N	5.605	E	10	G			0.9	5	SOUTHERN NORWAY. DUR 1.8 (BER).
	11	15	07	30.7*	6.699	S	149.944	E	33	N			0.7	5	NEW BRITAIN REGION
	11	15	22	59.1	7.093	N	94.629	E	33	N	4.5		0.9	11	NICOBAR ISLANDS REGION
	11	15	24	10.2	25.419	N	97.682	E	33	N	5.1	3.9	1.2	40	BURMA-CHINA BORDER REGION
	11	16	03	22.5	6.602	S	149.988	E	24		5.2		1.1	62	NEW BRITAIN REGION
	11	16	20	10.4*	28.089	N	140.290	E	33	N	4.2		0.8	13	BONIN ISLANDS REGION
	11	16	38	24.8?	6.74	S	149.81	E	33	N			1.0	5	NEW BRITAIN REGION
	11	16	50	16.5	20.791	S	179.208	W	657		4.7		0.8	51	FIJI ISLANDS REGION
	11	17	08	40.9	6.577	S	149.934	E	33	N			0.9	10	NEW BRITAIN REGION
	11	17	29	07.8?	30.43	S	69.20	W	33	N			0.3	5	CHILE-ARGENTINA BORDER REGION
	11	17	37	28.7	15.043	S	166.546	E	34	*	5.4		1.1	57	VANUATU ISLANDS
o	11	17	47	35.9	15.388	S	173.535	W	68	D	5.8		1.0	287	TONGA ISLANDS. mb 5.9 (BRK).
o	11	18	23	01.6*	54.324	S	132.002	W	10	G	5.3	5.5	1.5	38	SOUTH PACIFIC CORDILLERA
	11	19	07	44.8*	6.124	S	154.804	E	66	*	4.6		1.5	15	SOLOMON ISLANDS
o	11	19	20	30.6	54.388	S	132.403	W	10	G	5.4	5.5	1.1	54	SOUTH PACIFIC CORDILLERA
	11	20	02	58.5	6.625	S	149.972	E	33	N			1.2	8	NEW BRITAIN REGION
	11	20	26	48.8	2.090	S	138.883	E	33	N	5.2		1.1	59	WEST IRIAN
	11	20	35	22.3*	7.068	N	95.157	E	33	N	4.5		1.4	11	NICOBAR ISLANDS REGION
a	11	20	45	49.5	39.356	N	75.407	E	15	*	5.8	6.5	1.0	278	SOUTHERN XINJIANG, CHINA. Ms 6.4 (PAS). Four people killed, 61 injured and damage in the Wuqia-Koshi-Shufu area. Felt (IV) at Sufi-Kurgan and Osh and (III) at Andizhan and Fergana, USSR.
	11	21	02	22.0*	6.505	S	150.154	E	33	N	4.4		1.1	10	NEW BRITAIN REGION
	11	21	06	37.4?	2.51	S	138.76	E	33	N	4.5		1.1	8	WEST IRIAN
	11	21	08	47.8	39.381	N	75.341	E	18	*	5.1	4.9	0.9	106	SOUTHERN XINJIANG, CHINA
	11	22	01	45.6&	40.328	N	124.303	W	5					9	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.3 (BRK).
	11	22	07	10.7	13.594	N	120.893	E	135		4.9		1.0	78	MINDORO, PHILIPPINE ISLANDS
	11	22	16	47.0*	36.593	N	71.572	E	33	N	4.4		1.3	8	AFGHANISTAN-USSR BORDER REGION
	11	23	04	54.6	39.327	N	75.299	E	10	G	4.7		0.8	56	SOUTHERN XINJIANG, CHINA
	11	23	08	21.7*	6.737	S	149.977	E	33	N	4.9		1.4	18	NEW BRITAIN REGION
	11	23	22	26.5?	50.13	N	153.95	E	39	D	4.8		1.0	14	KURIL ISLANDS
	11	23	44	17.4?	6.37	S	149.65	E	33	N	4.5		1.9	5	NEW BRITAIN REGION
	12	00	00	52.5*	6.567	S	149.968	E	33	N			1.3	5	NEW BRITAIN REGION
	12	00	06	17.0*	6.707	S	149.976	E	33	N			1.0	6	NEW BRITAIN REGION
	12	00	16	01.2*	6.738	S	150.175	E	33	N	4.7		0.6	6	NEW BRITAIN REGION
	12	00	16	34.6?	24.14	N	122.45	E	10	G			0.3	6	TAIWAN REGION
	12	00	33	05.9*	36.138	N	139.910	E	63		4.2		0.9	11	HONSHU, JAPAN
	12	01	01	56.7*	30.864	S	71.572	W	33	N			1.2	8	NEAR COAST OF CENTRAL CHILE

12	02	07	28.2?	21.45	S	178.76	W	550	G	4.2		0.9	11	FIJI ISLANDS REGION
12	02	50	30.5*	31.648	S	68.095	W	10	G			0.2	6	SAN JUAN PROVINCE, ARGENTINA
12	04	52	14.5?	31.76	S	71.23	W	33	N			0.5	6	NEAR COAST OF CENTRAL CHILE
12	04	55	55.5?	31.56	S	68.90	W	110	*			0.9	8	SAN JUAN PROVINCE, ARGENTINA
12	05	00	01.5*	37.933	N	72.225	E	33	N	4.5		1.0	6	TAJIK SSR
12	05	03	23.7%	38.770	N	27.513	E	10	G			1.2	7	TURKEY
12	05	46	10.4*	43.338	N	21.140	E	10	G			0.7	5	YUGOSLAVIA
12	05	56	44.2?	35.41	N	72.95	E	33	N	4.2		1.6	9	PAKISTAN
12	07	18	34.6?	33.49	N	137.70	E	314	*	4.2		1.1	11	NEAR S. COAST OF HONSHU, JAPAN
12	07	37	26.3*	36.824	N	71.391	E	124	?	4.3		0.8	14	AFGHANISTAN-USSR BORDER REGION
12	09	04	21.5	23.052	N	120.875	E	10	G			1.0	6	TAIWAN
12	09	25	03.4*	50.405	S	131.025	E	10	G	4.4	4.6	1.2	12	SOUTH OF AUSTRALIA
12	10	15	36.2?	61.66	N	2.27	E	10	G			0.4	5	NORWEGIAN SEA. DUR 2.5 (BER).
12	11	04	01.6	26.077	S	27.951	E	5	G			0.9	7	REPUBLIC OF SOUTH AFRICA
12	12	53	02.8	45.366	S	167.345	E	86	*	4.9		1.3	27	SOUTH ISLAND, NEW ZEALAND
12	13	15	23.4%	46.653	N	8.678	E	10	G			1.2	5	SWITZERLAND
12	13	52	17.1?	61.36	N	5.73	E	10	G			0.6	4	SOUTHERN NORWAY. DUR 2.1 (BER).
12	15	17	05.9&	62.566	N	151.341	W	89					16	CENTRAL ALASKA. <AGS-P>.
12	15	18	57.5*	33.612	S	72.523	W	33	N	4.4		1.4	26	OFF COAST OF CENTRAL CHILE
12	15	46	47.5?	18.40	S	179.79	W	33	N	3.6		1.3	5	FIJI ISLANDS REGION
12	16	34	51.5?	31.34	S	68.71	W	88	?			0.3	6	SAN JUAN PROVINCE, ARGENTINA
12	17	07	22.8?	28.10	N	140.39	E	33	N	4.0		1.3	9	BONIN ISLANDS REGION
12	17	16	48.0*	38.437	N	21.865	E	10	G			0.8	5	GREECE. ML 3.1 (ATH).
12	18	24	12.0*	35.480	N	139.843	E	33	N			1.0	6	NEAR S. COAST OF HONSHU, JAPAN
12	19	08	02.8*	38.211	N	23.727	E	10	G			1.3	5	GREECE. ML 2.8 (ATH).
12	19	50	01.0	46.342	N	1.760	E	10	G			0.7	18	FRANCE. ML 3.2 (LDG)
12	19	53	03.4*	22.300	S	171.452	E	135	*	4.9		1.4	18	LOYALTY ISLANDS REGION
12	20	05	55.7*	39.569	N	75.644	E	10	G	4.6		0.8	9	SOUTHERN XINJIANG, CHINA
12	20	28	44.5*	28.170	N	140.626	E	33	N	4.4		1.4	32	BONIN ISLANDS REGION
12	22	58	09.2*	34.463	N	138.621	E	33	N	4.2		0.3	9	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) at Irozaki.
12	23	18	43.2%	38.586	N	27.620	E	10	G			1.6	5	TURKEY
12	23	49	19.0	15.523	N	91.689	W	174	D	4.6		1.0	117	MEXICO-GUATEMALA BORDER REGION
13	01	15	18.5	28.259	S	69.658	W	125	*	4.2		1.3	23	CHILE-ARGENTINA BORDER REGION
13	03	54	21.4*	33.287	S	72.543	W	33	N	3.2		0.8	16	OFF COAST OF CENTRAL CHILE
13	04	01	05.9*	45.935	N	11.320	E	10	G			1.5	6	NORTHERN ITALY. ML 2.5 (KBA).
13	05	33	08.1	29.824	N	84.052	E	33	N	4.5		1.4	24	TIBET
13	05	35	01.8*	47.241	N	10.311	E	5	G			1.3	5	AUSTRIA. ML 2.5 (KBA).
13	07	16	15.3?	26.01	N	96.89	E	33	N			0.3	5	BURMA
13	07	52	11.3*	6.526	S	149.832	E	33	N	4.1		1.7	5	NEW BRITAIN REGION
13	07	55	28.2*	43.998	N	10.239	E	10	G			1.5	5	CENTRAL ITALY
13	10	27	48.6?	20.94	S	177.61	W	489	?	4.8		1.4	15	FIJI ISLANDS REGION
13	11	08	20.7*	45.609	N	14.262	E	10	G			1.3	5	YUGOSLAVIA. ML 2.9 (TRI).
13	11	10	03.5?	59.36	N	6.68	E	0	G			0.2	5	SOUTHERN NORWAY. DUR 2.2 (BER). Probable explosion.
13	11	13	30.2?	39.28	N	75.02	E	10	G	4.4		0.2	5	SOUTHERN XINJIANG, CHINA
13	11	43	03.9%	40.161	N	29.381	E	10	G			0.3	7	TURKEY
13	11	52	59.3?	34.16	N	84.65	E	33	N	3.8		0.7	5	TIBET
13	12	53	34.2*	37.666	N	141.732	E	33	N	4.9		1.3	32	NEAR EAST COAST OF HONSHU, JAPAN
13	13	21	16.9*	39.341	N	75.803	E	10	G	5.1		1.1	12	SOUTHERN XINJIANG, CHINA
13	14	02	03.9?	28.18	N	140.91	E	33	N	4.5		1.4	22	BONIN ISLANDS REGION
13	14	35	59.3*	6.471	S	150.141	E	33	N	4.6		1.2	15	NEW BRITAIN REGION
13	14	41	39.7&	62.170	N	150.409	W	60					29	CENTRAL ALASKA <AGS-P>.
13	15	22	17.3%	40.138	N	29.260	E	10	G			0.3	6	TURKEY
13	15	26	58.0	44.578	N	9.583	E	10	G			0.8	21	NORTHERN ITALY. ML 3.1 (LDG).
13	15	50	42.3%	45.423	N	25.055	E	10	G			1.6	5	ROMANIA
13	16	20	13.5?	59.40	N	6.58	E	0	G			0.9	4	SOUTHERN NORWAY. DUR 1.7 (BER). Probable explosion.
13	17	23	21.8*	27.015	S	71.562	W	33	N			1.7	9	NEAR COAST OF NORTHERN CHILE
13	17	32	03.6*	39.382	N	75.637	E	10	G	4.5		1.2	6	SOUTHERN XINJIANG, CHINA
13	17	46	49.1*	23.692	N	121.684	E	28		3.8		1.3	16	TAIWAN
13	18	15	32.3?	52.05	N	17.27	E	10	G			0.5	6	POLAND. ML 3.4 (VKA).
13	18	34	21.3	23.945	N	122.562	E	35		4.9		1.1	60	TAIWAN REGION
13	19	46	46.8*	51.235	N	15.685	E	5	G			1.6	9	POLAND
13	20	28	51.2?	54.72	N	161.28	E	33	N	4.5		1.2	12	NEAR EAST COAST OF KAMCHATKA
13	20	33	27.4	6.577	S	149.826	E	29		4.8		1.3	33	NEW BRITAIN REGION
13	20	43	20.5	41.740	N	22.708	E	10	G			1.4	6	YUGOSLAVIA
13	21	35	32.9	8.044	N	93.296	E	33	N	4.7		1.4	32	NICOBAR ISLANDS REGION
14	00	00	24.6*	37.247	N	71.394	E	33	N	4.7		0.3	6	AFGHANISTAN-USSR BORDER REGION
14	00	40	41.2*	9.035	S	120.491	E	116	*	4.3		0.4	6	SUMBA ISLAND REGION
14	02	24	02.2?	28.95	N	131.42	E	33	N			1.5	9	RYUKYU ISLANDS REGION
14	02	54	18.3*	38.264	S	176.826	E	107	*	4.3		1.5	18	NORTH ISLAND, NEW ZEALAND
14	03	02	44.2	36.266	N	120.255	W	10	G			0.8	15	CENTRAL CALIFORNIA. ML 2.8 (BRK), 3.3 (PAS).
14	03	21	41.6*	20.946	S	69.163	W	33	N			1.0	6	NORTHERN CHILE
14	06	24	24.6&	47.390	N	122.383	W	20					6	WASHINGTON. <SEA>. ML 3.1 (NEIS).
14	08	00	13.7	28.460	N	140.502	E	33	N	4.9		1.3	43	BONIN ISLANDS REGION
14	08	04	52.5*	51.403	N	179.259	E	33	N	4.8		1.1	14	RAT ISLANDS, ALEUTIAN ISLANDS
14	10	01	12.2	1.595	N	126.310	E	63	*	5.0		1.0	55	MOLUCCA PASSAGE
14	10	03	21.4*	31.977	S	67.580	W	33	N			1.3	6	SAN JUAN PROVINCE, ARGENTINA
14	10	09	54.6*	50.529	N	178.864	E	33	N	4.4		1.5	6	RAT ISLANDS, ALEUTIAN ISLANDS
14	10	19	20.8*	5.650	S	153.156	E	30		4.7		1.4	16	NEW IRELAND REGION
14	10	34	35.3	30.658	S	71.703	W	33	N			1.1	18	NEAR COAST OF CENTRAL CHILE
14	14	30	38.7&	61.978	N	149.829	W	54					30	SOUTHERN ALASKA. <AGS-P>.
14	15	23	09.5	40.752	N	29.163	E	11		4.7		0.5	8	TURKEY
14	15	33	53.3*	39.031	N	24.599	E	10	G	4.4		1.5	13	AEGEAN SEA. ML 3.1 (ATH).
14	18	07	32.4*	32.969	S	72.416	W	33	N			0.8	17	OFF COAST OF CENTRAL CHILE
14	19	00	29.6?	51.65	N	16.31	E	10	G			0.3	9	POLAND. ML 3.4 (GRF).
14	19	04	25.4	6.677	S	149.901	E	33	N	4.5		1.2	10	NEW BRITAIN REGION
14	19	18	42.2&	34.410	N	119.790	W	9					10	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS). Felt (IV) at Goleta and Santa Barbara. Felt (III) at Summerland and Ventura.
14	19	38	19.8*	8.720	S	115.685	E	33	N	4.8		1.5	17	BALI ISLAND REGION
14	19	56	58.8*	28.736	S	67.584	W	146	*			1.2	11	LA RIOJA PROVINCE, ARGENTINA
14	21	19	31.5	6.479	S	150.026	E	55		5.2		1.0	26	NEW BRITAIN REGION
15	00	30	54.6?	32.80	S	72.83	W	33	N			0.4	10	OFF COAST OF CENTRAL CHILE

	15	00	40	28.8&	60.226	N	141.019	W	10					27	SOUTHEASTERN ALASKA. <AGS-P>.
	15	00	59	23.8?	51.55	N	16.19	E	10	G			0.4	9	POLAND
	15	01	28	16.7&	59.102	N	136.423	W	2		5.4	5.9		202	SOUTHEASTERN ALASKA. <AGS-P>. ML 5.1 (PMR). Felt (V) at Haines and Gustavus, (IV) at Skagway, Pelican and Juneau. Felt (III) at Auke Bay, Elfin Cove, Kake, Hoonah and Yakutat. Also felt at Whitehorse, Carcross and Haines Junction, Yukon Territory.
a	15	01	29	23.3	4.090	S	136.243	E	10	G	5.7	6.3	1.3	164	WEST IRIAN REGION. Ms 6.3 (PAS), 5.9 (BRK).
	15	02	01	18.5	7.147	N	126.623	E	100	*	5.2		1.2	45	MINDANAO, PHILIPPINE ISLANDS
	15	02	08	51.5	4.037	S	136.160	E	10	G	5.5		1.2	81	WEST IRIAN REGION
a	15	02	42	54.8	4.130	S	136.049	E	10	G	5.9	6.3	1.4	266	WEST IRIAN REGION. Ms 6.3 (BRK), 6.0 (PAS). At least 10 people killed, seven injured and damage in the Enaratali area. Slumping observed in the epicentral area.
	15	02	48	55.8&	33.960	N	116.750	W	19					9	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
	15	02	59	09.7%	38.849	N	27.035	E	10	G			1.3	6	TURKEY
	15	03	01	51.1	4.013	S	136.241	E	10	G	4.9		1.2	39	WEST IRIAN REGION
	15	03	14	40.4*	4.583	S	135.920	E	10	G			1.0	11	WEST IRIAN REGION
	15	03	36	05.0*	4.076	S	136.025	E	10	G	4.8		0.3	6	WEST IRIAN REGION
	15	03	50	14.2*	19.078	S	68.553	W	33	N			0.9	6	CHILE-BOLIVIA BORDER REGION
	15	04	45	45.2*	24.503	S	67.214	W	198	*			1.0	10	CHILE-ARGENTINA BORDER REGION
	15	05	09	10.3*	4.316	S	135.781	E	10	G	5.3		1.5	11	WEST IRIAN REGION
	15	05	35	11.4*	4.290	S	135.788	E	10	G	5.1		1.5	7	WEST IRIAN REGION
	15	07	05	55.5	29.732	S	179.181	W	326	*	5.2		1.4	55	KERMADEC ISLANDS REGION
	15	07	33	35.2?	29.27	S	178.90	W	258	?	4.5		1.6	10	KERMADEC ISLANDS
f	15	07	57	53.5	17.974	N	97.158	W	65		5.9		1.0	317	OAXACA, MEXICO. Ms 6.1 (PAS), mb 5.7 (BRK). Felt (VI) in the epicentral area. Felt (V) at Tecamachalco and Puebla, (IV) at Mexico City, (III) at Ticuman and Cuernavaca. Also felt at Jalapa, Tlaxcala, Oaxaca and Veracruz.
	15	08	23	12.2*	63.330	N	166.146	W	15	G	4.5		1.2	19	BERING STRAIT. ML 4.2 (PMR). Felt (III) at Emmanak, Alaska.
	15	09	04	42.8?	4.03	S	135.94	E	10	G	3.9		1.8	7	WEST IRIAN REGION
	15	09	09	46.5	36.149	N	120.136	W	10	G			0.8	11	CENTRAL CALIFORNIA. ML 2.6 (BRK).
	15	09	23	26.9?	20.53	S	70.32	W	33	N			1.4	6	NEAR COAST OF NORTHERN CHILE
a	15	11	25	04.3	19.216	S	175.576	W	247		5.7		1.1	270	TONGA ISLANDS
	15	12	20	56.7	40.362	N	139.223	E	23	D	5.2		0.9	118	NEAR WEST COAST OF HONSHU, JAPAN
	15	12	24	50.4&	62.915	N	149.579	W	45					30	CENTRAL ALASKA. <AGS-P>.
	15	12	35	15.3	4.187	S	136.234	E	10	G	4.9		1.3	21	WEST IRIAN REGION
	15	14	22	13.1	0.157	N	120.382	E	80	?	4.8		1.1	34	MINAHASSA PENINSULA
	15	14	50	06.7*	18.310	S	172.183	E	33	N	4.4		1.7	20	VANUATU ISLANDS REGION
a	15	17	31	00.8	16.771	S	173.880	W	81	D	5.8		1.3	208	TONGA ISLANDS. mb 6.1 (BRK).
	15	18	18	36.1	47.953	N	7.721	E	10	G			0.3	6	SWITZERLAND. ML 2.9 (LDG).
	15	19	06	57.7?	33.13	S	72.15	W	33	N			1.6	13	OFF COAST OF CENTRAL CHILE
	15	19	27	54.6*	41.103	N	20.803	E	10	G			1.8	7	ALBANIA
	15	21	59	23.5*	37.175	N	21.702	E	61	?	4.1		1.1	10	SOUTHERN GREECE
	15	22	04	07.9*	40.372	N	29.607	E	10	G			1.5	8	TURKEY
a	15	22	58	42.6	10.809	S	119.298	E	39	D	5.4	4.0	1.3	99	SUMBA ISLAND REGION
	15	23	39	09.7*	4.316	S	135.894	E	10	G	4.7		1.3	10	WEST IRIAN REGION
	16	00	21	12.3*	6.110	S	148.470	E	79	*	5.0		1.1	21	NEW BRITAIN REGION
	16	00	27	28.6	44.314	N	7.471	E	10	G			0.7	23	NORTHERN ITALY. ML 3.3 (LDG).
	16	00	36	01.6	44.306	N	7.514	E	11				0.3	15	NORTHERN ITALY. ML 2.9 (LDG).
	16	00	40	40.2*	44.313	N	7.411	E	10	G			0.2	6	NORTHERN ITALY. ML 2.8 (LDG).
	16	01	52	46.1*	4.778	S	136.227	E	10	G	4.1		1.3	5	WEST IRIAN REGION
	16	02	42	02.6*	17.099	N	94.849	W	101	*	4.6		1.2	23	CHIAPAS, MEXICO
	16	02	54	02.0	15.296	S	174.153	W	139	D	4.9		1.3	98	TONGA ISLANDS
	16	03	06	20.6*	28.294	N	140.800	E	33	N	4.7		1.3	21	BONIN ISLANDS REGION
	16	04	16	56.2?	44.06	N	9.63	E	10	G			1.6	7	NORTHERN ITALY. ML 2.8 (LDG).
	16	06	42	05.6*	7.873	S	127.370	E	106	*	4.8		1.5	27	BANDA SEA
	16	07	08	24.3	20.805	S	173.493	W	33	N	5.1		0.9	55	TONGA ISLANDS
	16	07	28	21.3	6.981	S	129.426	E	86	D	5.2		1.1	72	BANDA SEA
	16	08	27	45.2?	8.23	N	93.77	E	33	N	4.5		1.3	7	NICOBAR ISLANDS REGION
	16	10	54	28.6	50.114	N	5.463	E	10	G			0.7	6	BELGIUM. mbLg 2.2 (DOU).
	16	11	02	20.6*	31.825	S	66.905	W	33	N			1.3	8	LA RIOJA PROVINCE, ARGENTINA
	16	12	48	52.3&	59.701	N	152.226	W	90					19	SOUTHERN ALASKA. <AGS-P>.
	16	14	15	09.9*	15.864	S	166.200	E	102	*	4.8		1.2	23	VANUATU ISLANDS
	16	14	20	42.0&	62.264	N	150.777	W	55					23	CENTRAL ALASKA. <AGS-P>.
	16	16	58	22.5*	4.273	S	136.342	E	10	G	4.6		1.1	12	WEST IRIAN REGION
	16	19	10	16.4?	37.01	N	140.08	E	28	*			0.4	6	HONSHU, JAPAN
	16	20	37	34.9*	31.284	N	49.470	E	33	N	4.4		1.2	10	WESTERN IRAN
	16	20	50	11.8*	56.037	N	5.075	W	11				0.2	9	UNITED KINGDOM. ML 2.9 (EDI). Felt (IV) at Dunoon, Helensburgh and Greenock. Also felt at Lochgilphead, Rothesay and western Glasgow.
	16	21	51	08.2*	8.482	N	58.478	E	10	G	4.7		0.8	12	CARLSBERG RIDGE
	17	00	01	36.9	49.039	N	6.583	E	10	G			1.1	11	GERMANY. ML 3.0 (LDG).
	17	01	57	06.2*	9.348	N	126.742	E	33	N	4.8		0.8	12	MINDANAO, PHILIPPINE ISLANDS
	17	02	41	17.6?	13.13	N	144.84	E	107				1.0	16	MARIANA ISLANDS. Felt (III) on Guam.
	17	03	23	57.8*	28.546	N	140.271	E	33	N	4.8		1.4	30	BONIN ISLANDS REGION
	17	03	29	04.0%	39.039	N	29.725	E	10	G			1.4	6	TURKEY
	17	03	33	50.4&	60.143	N	152.414	W	75					28	SOUTHERN ALASKA. <AGS-P>.
	17	03	39	46.3	39.128	N	29.570	E	10	G			1.3	11	TURKEY
a	17	03	48	54.0	2.084	N	128.546	E	240	D	5.3		1.2	139	HALMAHERA
	17	03	57	50.5	26.114	S	27.978	E	5	G			1.0	8	REPUBLIC OF SOUTH AFRICA
	17	04	25	25.9*	39.388	N	26.279	E	10	G			0.9	9	TURKEY
	17	04	40	49.7?	17.52	N	105.72	W	10	G	4.2		1.1	20	OFF COAST OF JALISCO, MEXICO
	17	04	41	58.8	40.747	N	27.478	E	10	G			0.4	8	TURKEY
	17	06	53	33.7	41.887	N	23.019	E	10	G			1.3	33	GREECE-BULGARIA BORDER REGION. ML 4.6 (ATH). Felt (V) in the Delcevo, Yugoslavia area.
	17	07	45	42.7*	10.771	S	164.313	E	33	N	4.5		1.3	10	SANTA CRUZ ISLANDS REGION
	17	07	56	20.5	42.013	N	19.187	E	10	G			0.6	7	YUGOSLAVIA. ML 2.3 (TTG).
	17	09	56	38.1	28.081	N	140.684	E	33	N	5.1		1.0	47	BONIN ISLANDS REGION
	17	10	25	48.7*	28.012	N	140.638	E	33	N	4.8		1.1	17	BONIN ISLANDS REGION
	17	10	27	38.0*	28.069	N	140.754	E	33	N	4.7		0.9	16	BONIN ISLANDS REGION

	17	10	39	29.7*	13.720	N	90.842	W	33	N	4.6	3.6	1.1	46	NEAR COAST OF GUATEMALA
	17	10	57	10.7*	10.576	S	41.094	E	10	G	5.0		1.5	8	NORTHWEST OF MADAGASCAR
	17	13	26	50.9*	36.173	S	101.604	W	10	G	4.3		0.7	10	SOUTHERN PACIFIC OCEAN
	17	13	45	17.5	23.924	N	121.538	E	21		3.9		1.3	11	TAIWAN
	17	14	22	15.4*	26.572	S	27.777	E	5	G			1.6	10	REPUBLIC OF SOUTH AFRICA
	17	14	36	52.3*	3.014	S	135.699	E	10	G	4.3		1.2	8	WEST IRIAN REGION
	17	14	42	32.0	22.470	N	121.290	E	76		4.6		0.7	14	TAIWAN REGION
	17	18	47	47.9*	42.879	N	0.064	W	10	G			1.2	11	PYRENEES. ML 3.1 (LDG).
	17	19	52	45.8	63.091	N	149.512	W	114	?			0.4	9	CENTRAL ALASKA
	17	19	57	08.4	28.096	S	66.871	W	166		5.0		1.3	47	CATAMARCA PROVINCE, ARGENTINA
	17	20	45	36.6?	26.62	N	142.51	E	33	N	4.8		1.2	11	BONIN ISLANDS REGION
	17	21	09	28.0*	28.250	N	140.814	E	33	N	4.8		1.6	26	BONIN ISLANDS REGION
	17	21	15	38.4*	41.852	N	23.043	E	10	G			1.5	6	GREECE-BULGARIA BORDER REGION
	17	22	13	47.1*	8.168	S	118.770	E	33	N	4.6		1.4	17	SUMBAWA ISLAND REGION
	17	22	32	41.1*	3.469	S	146.178	E	33	N	4.6		1.4	16	BISMARCK SEA
a	18	00	10	34.8	31.627	N	49.447	E	33	N	5.2	4.4	1.2	176	WESTERN IRAN. Felt at Masjed-Soleyman.
	18	00	25	52.1	36.071	N	139.854	E	33	N			0.5	7	HONSHU, JAPAN
	18	01	13	57.5	5.405	S	146.912	E	227		4.9		0.9	32	EAST PAPUA NEW GUINEA REGION
	18	01	16	00.4*	35.853	N	140.115	E	33	N			0.8	7	NEAR EAST COAST OF HONSHU, JAPAN
a	18	01	27	17.6	49.642	N	155.751	E	56	D	5.5		0.9	307	KURIL ISLANDS. Ms 5.1 (BRK). Felt (IV) at Severo-Kurilsk.
a	18	02	15	52.9	3.402	S	146.369	E	33	N	5.3	4.6	1.0	50	BISMARCK SEA
	18	02	35	26.1	3.467	S	146.222	E	33	N	4.8		1.0	19	BISMARCK SEA
	18	03	26	09.8%	38.943	N	28.683	E	10	G			1.3	10	TURKEY
	18	03	50	32.9?	21.27	S	177.70	W	435	?	4.6		1.1	12	FIJI ISLANDS REGION
	18	03	59	09.1	4.036	N	76.830	W	102	*	4.9		1.2	44	COLOMBIA
	18	04	00	08.5*	37.896	N	12.713	E	10	G			0.7	10	SICILY
	18	05	17	45.0&	37.450	N	118.685	W	4					21	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.3 (BRK), 3.4 (PAS).
	18	05	51	40.9*	17.186	S	167.352	E	33	N	4.9		1.7	54	VANUATU ISLANDS
	18	06	56	12.3	39.354	S	71.411	W	33	N	4.9		1.1	38	S. CHILE-ARGENTINA BORDER REGION
	18	07	45	45.5?	1.63	S	121.34	E	33	N			1.0	7	SULAWESI
	18	09	55	15.6*	3.322	S	129.714	E	33	N	4.1		0.8	10	CERAM
	18	11	23	20.4*	31.574	N	131.895	E	33	N	4.5		1.5	13	KYUSHU, JAPAN
	18	13	07	48.5*	28.412	N	140.439	E	33	N			1.6	23	BONIN ISLANDS REGION
	18	13	49	51.0&	60.265	N	141.883	W	8					23	SOUTHEASTERN ALASKA. <AGS-P>.
	18	15	24	34.7*	41.689	N	22.307	E	10	G			0.8	5	YUGOSLAVIA
	18	15	54	04.6	33.548	N	97.051	W	5	G			1.0	12	CENTRAL TEXAS. mbLg 3.3 (NEIS), 3.3 (TUL). Felt (V) at Sanger, (IV) at Valley View and Era. Felt (III) at Gainesville, Muenster and Saint Ja.
	18	18	40	51.8*	17.841	S	173.899	W	127	?	4.6		1.5	18	TONGA ISLANDS
	18	19	20	41.4	18.052	S	178.403	W	564		5.0		1.2	78	FIJI ISLANDS REGION
	18	21	13	12.5%	39.071	N	25.996	E	10	G			0.3	6	AEGEAN SEA
	18	22	42	09.1&	59.695	N	152.592	W	77					21	SOUTHERN ALASKA. <AGS-P>.
	18	23	23	13.9*	58.953	S	26.537	W	123	?	4.7		0.9	25	SOUTH SANDWICH ISLANDS REGION
	18	23	53	18.5	47.801	N	154.016	E	33	N	4.8	4.6	0.9	66	KURIL ISLANDS
	18	23	58	25.0	49.381	S	8.069	W	10	G	4.6		1.1	21	SOUTH ATLANTIC RIDGE
	19	00	04	59.7?	49.34	S	8.13	W	10	G	4.7	5.1	1.5	9	SOUTH ATLANTIC RIDGE
a	19	00	21	57.0	49.426	S	8.049	W	10	G	5.0		1.0	22	SOUTH ATLANTIC RIDGE
	19	02	34	28.5*	24.166	N	125.215	E	33	N	4.9		1.0	17	SOUTHWESTERN RYUKYU ISLANDS
	19	04	54	22.2	39.583	N	18.486	E	10	G	3.7		0.7	19	SOUTHERN ITALY. ML 4.1 (ATH).
	19	05	00	44.9*	43.558	N	5.552	E	10	G			1.3	7	NEAR SOUTH COAST OF FRANCE. ML 2.9 (LDG).
	19	05	08	44.8*	43.046	N	0.620	W	10	G			1.4	9	PYRENEES. ML 2.9 (LDG).
	19	06	51	19.3?	32.38	S	71.95	W	33	N			0.3	10	NEAR COAST OF CENTRAL CHILE
	19	06	53	21.9&	61.715	N	151.525	W	88					38	SOUTHERN ALASKA. <AGS-P>.
	19	06	56	37.6*	32.808	S	71.557	W	33	N			0.9	17	NEAR COAST OF CENTRAL CHILE
	19	07	35	03.6&	34.460	N	119.380	W	15					17	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS). Felt (V) at Santa Barbara and (IV) at Summerland.
	19	08	06	20.2*	18.104	S	175.606	W	300	*	4.9		1.3	74	TONGA ISLANDS
	19	08	34	53.5?	51.50	N	179.40	W	33	N	4.6		1.3	5	ANDREANOF ISLANDS, ALEUTIAN IS.
	19	09	36	24.2%	45.721	N	26.807	E	65	?			0.8	6	ROMANIA
	19	09	52	53.9?	28.43	N	141.34	E	33	N	5.0		1.5	24	BONIN ISLANDS REGION
	19	10	00	53.6	43.318	N	21.072	E	10	G			0.6	6	YUGOSLAVIA
	19	10	54	48.2	28.130	S	70.745	W	54	D	5.1		1.2	69	CENTRAL CHILE. Felt (V) in the Vina del Mar area. Also felt at Santiago.
f	19	13	17	47.3	18.190	N	102.533	W	28		6.8	8.1	1.3	311	MICHOACAN, MEXICO. Ms 7.9 (BRK), 7.9 (PAS). Casualties and extensive damage in central Mexico. See special summary on page 20.
	19	14	15	13.2?	17.80	N	103 97	W	33	N			0.6	5	NEAR COAST OF MICHOACAN, MEXICO
	19	15	08	53.9	46.499	N	0.856	E	10				1.3	15	FRANCE. ML 2.8 (LDG).
	19	15	14	16.5	46.477	N	0.842	E	10	G			1.2	14	FRANCE. ML 2.8 (LDG).
	19	15	27	02.9*	17.656	N	101.926	W	33	N	4.0		1.2	14	NEAR COAST OF GUERRERO, MEXICO
	19	15	50	40.8	17.959	N	102.408	W	33	N	4.8		1.1	60	NEAR COAST OF MICHOACAN, MEXICO
	19	16	06	33.3*	18.231	N	102.765	W	33	N	4.0		1.6	28	MICHOACAN, MEXICO
	19	16	43	43.5?	24.50	N	122.55	E	33	N			1.1	7	TAIWAN REGION
	19	17	24	24.0	36.320	N	21.648	E	47		4.5		1.3	155	SOUTHERN GREECE
	19	17	25	35.6*	44.311	N	110.927	W	5	G			0.8	10	YELLOWSTONE NATIONAL PARK, WYO. ML 2.7 (NEIS).
	19	17	51	51.4?	17.58	N	101.82	W	33	N			0.4	4	NEAR COAST OF GUERRERO, MEXICO
	19	18	26	16.1*	18.331	N	102.670	W	33	N	4.2		1.5	21	MICHOACAN, MEXICO
	19	18	29	30.6	17.789	N	101 489	W	33	N	5.0		1.0	50	NEAR COAST OF GUERRERO, MEXICO
	19	18	35	41.4	28.080	N	140.881	E	45	*	5.0		1.0	26	BONIN ISLANDS REGION
	19	19	03	57.1%	38.829	N	29.259	E	10	G			0.9	6	TURKEY
	19	19	17	47.5?	38.86	N	75.63	E	10	G	4.5		1.7	7	SOUTHERN XINJIANG, CHINA
	19	19	37	59.4	26.032	N	140.706	E	33	N	5.0		1.0	40	BONIN ISLANDS REGION
	19	19	51	48.4*	18.561	N	103.079	W	33	N	4.4		0.5	7	NEAR COAST OF MICHOACAN, MEXICO
	19	20	38	38.6	22.316	S	69.025	W	100	D	4.9		1.2	53	NORTHERN CHILE
	19	20	48	42.2&	62.156	N	151.692	W	98					21	CENTRAL ALASKA. <AGS-P>.
	19	21	05	53.5%	40.623	N	27.284	E	10	G			1.1	5	TURKEY
	19	21	12	34.3*	33.361	S	66.513	W	33	N			1.1	7	SAN LUIS PROVINCE, ARGENTINA
	19	21	31	00.9*	37.362	N	71.455	E	33	N	4.7		1.5	15	AFGHANISTAN-USSR BORDER REGION
	19	22	10	31.4?	10.18	N	104.14	W	10	G	4.1	4.0	1.0	11	OFF COAST OF MEXICO
	19	22	41	45.8*	61.149	S	56.411	W	10	G	4.8		0.8	11	SOUTH SHETLAND ISLANDS
	19	22	59	18.0*	17.776	N	101.695	W	33	N	3.6		0.9	8	NEAR COAST OF GUERRERO, MEXICO

	19	23	05	15.2*	6.814	N	72.972	W	171	*		1.9	12	NORTHERN COLOMBIA. Felt at Bucaramanga.
	19	23	10	30.0?	10.18	N	103.91	W	10	G	4.3 4.5	1.2	16	OFF COAST OF MEXICO
	19	23	26	54.9&	43.118	N	110.926	W	8				12	WYOMING. <GLD>. ML 3.5 (NEIS). Felt at Alpine.
	20	00	26	04.4	28.101	N	140.829	E	45	*	4.9	1.2	63	BONIN ISLANDS REGION. Felt (II JMA) on Chichi-shima.
	20	01	00	19.7%	40.868	N	27.878	E	10	G		0.2	5	TURKEY
	20	01	34	39.4*	28.367	N	140.615	E	33	N	4.8	1.3	17	BONIN ISLANDS REGION. Felt on Chichi-shima.
	20	02	37	33.7%	46.266	N	7.390	E	10	G		0.4	6	SWITZERLAND
	20	02	41	54.7*	27.839	N	140.736	E	33	N	4.8	1.4	12	BONIN ISLANDS REGION. Felt on Chichi-shima.
	20	03	06	21.4*	28.030	N	140.878	E	48	*	5.0	1.1	17	BONIN ISLANDS REGION. Felt on Chichi-shima.
	20	03	13	05.2*	28.046	N	140.760	E	33	N	4.9	1.1	24	BONIN ISLANDS REGION. Felt on Chichi-shima.
	20	03	34	58.1	17.569	N	101.561	W	33	N	4.7 4.2	1.1	62	NEAR COAST OF GUERRERO, MEXICO
	20	03	41	15.2*	28.078	N	140.855	E	33	N	5.1 5.3	1.2	28	BONIN ISLANDS REGION. Felt on Chichi-shima.
	20	03	42	40.0	17.524	N	101.575	W	33	N	4.5 4.0	1.3	55	NEAR COAST OF GUERRERO, MEXICO
	20	04	05	48.8*	10.658	S	41.106	E	10	G	4.6	0.8	10	NORTHWEST OF MADAGASCAR
	20	05	02	01.7	64.797	N	146.720	W	33	N		1.0	8	CENTRAL ALASKA
	20	05	07	53.5*	44.349	N	110.919	W	5	G		1.2	7	YELLOWSTONE NATIONAL PARK, WYO. ML 2.9 (NEIS).
	20	05	53	53.5*	36.183	N	71.355	E	131	?	4.5	1.6	17	AFGHANISTAN-USSR BORDER REGION
	20	06	29	40.2*	40.776	N	42.588	E	10	G	4.5	1.1	14	TURKEY
	20	06	54	11.0?	17.89	N	101.64	W	33	N		1.1	5	NEAR COAST OF GUERRERO, MEXICO
	20	07	30	22.5*	24.459	N	123.533	E	33	N		0.2	6	SOUTHWESTERN RYUKYU ISLANDS
	20	07	38	26.8*	17.770	N	101.455	W	33	N	4.2 4.1	1.4	30	NEAR COAST OF GUERRERO, MEXICO
	20	08	04	06.5&	34.390	N	119.790	W	10				8	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS). Felt (V) at Goleta, (III) at Santa Barbara and Summerland.
	20	08	14	48.4*	17.417	N	102.131	W	33	N	3.8	1.0	13	NEAR COAST OF MICHOACAN, MEXICO
	20	09	02	34.7%	34.144	S	71.275	W	33	N		0.5	9	NEAR COAST OF CENTRAL CHILE
	20	09	02	47.2	16.256	N	98.558	W	23	D	4.9	0.9	63	NEAR COAST OF GUERRERO, MEXICO
	20	09	41	13.7	40.346	N	25.816	E	10	G		1.0	7	AEGEAN SEA
	20	09	51	51.0*	17.569	N	102.066	W	33	N	3.9	1.0	12	NEAR COAST OF MICHOACAN, MEXICO
	20	10	40	23.3	33.679	N	134.750	E	33	N	3.8	0.9	18	SHIKOKU, JAPAN
	20	10	54	54.1?	18.63	N	102.95	W	33	N	3.9	0.9	8	MICHOACAN, MEXICO
	20	10	57	10.5*	11.818	N	87.900	W	33	N	4.4	1.0	14	NEAR COAST OF NICARAGUA
	20	12	57	52.3*	17.586	N	101.793	W	33	N	4.0	0.9	15	NEAR COAST OF GUERRERO, MEXICO
	20	13	19	13.8*	17.740	N	102.023	W	33	N	3.6	1.1	11	NEAR COAST OF MICHOACAN, MEXICO
	20	14	26	43.9*	24.517	N	122.162	E	10	G	4.0	0.7	6	TAIWAN REGION
	20	14	30	03.6	26.269	S	28.113	E	5	G		1.2	9	REPUBLIC OF SOUTH AFRICA
	20	14	30	46.0*	28.337	N	140.947	E	33	N	5.3	1.4	18	BONIN ISLANDS REGION
a	20	15	01	23.5	24.593	N	122.280	E	18		5.3 5.1	1.1	155	TAIWAN REGION. Felt on northeastern Taiwan.
	20	15	22	56.8*	24.609	N	122.145	E	33	N		1.9	7	TAIWAN REGION
	20	15	52	51.9	46.294	N	1.655	E	10			1.6	11	FRANCE. ML 2.3 (LDG).
	20	16	12	24.2*	15.596	S	174.703	W	300		4.5	1.1	20	TONGA ISLANDS
	20	18	01	04.4*	26.453	S	177.115	W	146	D	5.0	1.2	43	SOUTH OF FIJI ISLANDS
	20	19	16	23.0?	4.43	S	101.74	E	33	N	4.6	1.5	8	SOUTHERN SUMATERA
	20	19	22	11.4	17.757	N	101.601	W	33	N	4.2	1.2	32	NEAR COAST OF GUERRERO, MEXICO
	20	19	22	19.0*	18.150	N	66.911	W	33	N		0.8	5	PUERTO RICO REGION. Felt at Ponce, Quebrodillas, Ensenada, Maricao and Lares.
	20	19	29	57.1	18.064	N	102.685	W	33	N	4.9 4.1	1.1	84	MICHOACAN, MEXICO
	20	20	03	39.4*	17.824	N	101.765	W	33	N	3.8	1.4	18	NEAR COAST OF GUERRERO, MEXICO
	20	22	46	04.7*	5.391	S	151.878	E	68	*	4.3	0.7	7	NEW BRITAIN REGION
	21	00	30	55.3&	37.130	N	121.518	W	7				11	CENTRAL CALIFORNIA. <BRK>. ML 2.7 (BRK).
	21	01	33	11.4	5.362	S	153.498	E	67	*	4.7	0.9	18	NEW IRELAND REGION
f	21	01	37	13.4	17.802	N	101.647	W	31		6.3 7.6	1.2	344	NEAR COAST OF GUERRERO, MEXICO. Ms 7.5 (PAL), 7.2 (BRK). Additional casualties and damage (VI) in the Mexico City area. Felt in many parts of central Mexico. Local tsunami recorded at Acapulco with maximum amplitude (peak-to-trough) of 1.4 meters. Water well fluctuations recorded at Santa Fe, New Mexico.
	21	02	52	59.8*	33.376	S	72.000	W	33	N	3.9	1.4	22	OFF COAST OF CENTRAL CHILE. Felt (IV) in the Valparaiso area.
	21	03	09	34.1	11.184	N	61.612	W	33	N		0.3	8	WINDWARD ISLANDS. Felt (II) on Trinidad.
	21	03	20	03.6%	45.598	N	3.644	E	10	G		0.7	10	FRANCE. ML 2.4 (LDG).
	21	03	24	37.7?	17.98	N	100.62	W	33	N		0.1	5	GUERRERO, MEXICO
	21	03	39	59.4	51.273	N	15.691	E	10	G		1.2	24	POLAND. ML 4.3 (GRF), 3.8 (VKA).
	21	04	40	53.2*	17.362	N	101.612	W	33	N	3.6	1.3	11	NEAR COAST OF GUERRERO, MEXICO
	21	04	51	36.5	28.006	N	140.754	E	24	*	5.3	0.9	16	BONIN ISLANDS REGION. Felt (I JMA) on Chichi-shima.
	21	05	20	53.0*	28.359	N	140.824	E	33	N	4.9	1.3	13	BONIN ISLANDS REGION
	21	05	21	25.2	37.428	N	118.546	W	5	G		0.5	19	CALIFORNIA-NEVADA BORDER REGION. ML 3.4 (BRK), 3.8 (PAS).
	21	05	59	16.2&	59.788	N	153.335	W	108				28	SOUTHERN ALASKA. <AGS-P>.
	21	07	31	42.1	28.096	N	140.701	E	10		5.1	0.8	77	BONIN ISLANDS REGION. Felt (I JMA) on Chichi-shima.
	21	07	52	26.2*	55.322	S	1.573	W	10	G	4.8	0.7	10	BOUVET ISLAND REGION
	21	09	11	46.1?	17.64	N	101.82	W	33	N	3.5	1.4	5	NEAR COAST OF GUERRERO, MEXICO
	21	10	13	08.3	39.037	N	22.198	E	38		4.7	1.1	160	GREECE. ML 4.1 (ATH). Felt in central Greece.
	21	10	54	44.4	46.678	S	13.423	W	10	G	5.4 5.5	1.1	92	SOUTH ATLANTIC RIDGE
	21	10	59	45.5*	38.968	N	22.221	E	10	G		1.1	6	GREECE. ML 3.1 (ATH).
	21	11	57	51.6?	40.50	N	125.62	W	10	G		0.6	8	OFF COAST OF NORTHERN CALIFORNIA. ML 2.9 (BRK).
	21	13	24	21.1*	36.715	N	71.758	E	33	N	4.4	0.9	8	AFGHANISTAN-USSR BORDER REGION
	21	13	39	29.6*	18.267	N	101.953	W	33	N	3.5	1.6	13	GUERRERO, MEXICO
	21	13	50	15.4	46.759	S	165.817	E	22	*	4.9	1.1	28	OFF W COAST OF S. ISLAND, N.Z.
a	21	14	39	36.2	3.710	S	102.481	W	10	G	5.3 5.1	1.1	85	NORTHERN EASTER I. CORDILLERA
	21	15	12	06.3?	33.94	S	178.85	W	33	N	4.7	1.3	10	SOUTH OF KERMADEC ISLANDS
	21	16	12	12.9*	4.114	S	136.039	E	33	N	3.5	0.7	6	WEST IRIAN REGION
	21	18	19	08.3?	35.07	N	139.46	E	33	N		1.5	7	NEAR S. COAST OF HONSHU, JAPAN
	21	19	03	14.6	28.519	N	141.722	E	33	N	4.4	1.1	19	BONIN ISLANDS REGION
	21	20	26	17.9?	29.87	S	71.85	W	33	N		0.6	7	NEAR COAST OF CENTRAL CHILE
	21	20	38	54.7?	17.94	N	101.30	W	33	N		1.3	6	NEAR COAST OF GUERRERO, MEXICO
	21	22	10	35.9?	30.00	S	175.33	W	33	N	4.9	1.0	8	KERMADEC ISLANDS REGION. Felt on Raoul Island.
	21	22	17	08.2%	40.582	N	29.028	E	10	G		0.8	7	TURKEY
	21	22	59	10.1%	40.635	N	29.046	E	10	G		1.0	6	TURKEY
	21	23	20	04.8	39.925	N	23.892	E	18			0.8	19	AEGEAN SEA. ML 3.1 (ATH).
	21	23	22	12.6%	40.587	N	29.014	E	10	G		0.8	6	TURKEY
	21	23	51	14.4*	42.779	N	14.038	E	10	G		0.3	5	CENTRAL ITALY. ML 3.3 (TRI), 3.3 (KBA), 3.3 (LJU).
	22	00	06	43.7	28.095	N	140.752	E	35	*	5.1	1.1	30	BONIN ISLANDS REGION
	22	00	58	01.0?	28.02	N	140.96	E	33	N	5.0	1.2	6	BONIN ISLANDS REGION

	22	01 39 12.8	28.129	N	140.729	E	13		5.0		1.0	56	BONIN ISLANDS REGION. Felt (II JMA) on Chichi-shima.
	22	02 43 36.0	28.161	N	140.775	E	39	*	5.0		1.0	62	BONIN ISLANDS REGION. Felt (I JMA) on Chichi-shima.
	22	03 22 01.8*	28.018	N	140.751	E	33	N	4.8	5.1	1.1	13	BONIN ISLANDS REGION
	22	03 48 32.2*	11.293	S	118.787	E	33	N	5.0		1.5	13	SOUTH OF SUMBAWA ISLAND
	22	03 59 35.2*	35.944	N	139.960	E	33	N			1.5	6	NEAR S. COAST OF HONSHU, JAPAN
	22	04 02 15.4%	40.584	N	29.041	E	10	G			1.3	5	TURKEY
	22	04 03 38.1%	40.562	N	29.080	E	10	G			0.9	7	TURKEY
	22	04 13 59.1	4.237	S	136.034	E	10	G	4.9		1.2	16	WEST IRIAN REGION
a	22	05 15 43.5	8.913	S	122.367	E	100	D	5.3		1.2	100	FLORES ISLAND REGION
	22	05 43 00.3&	59.108	N	151.320	W	53		4.6			65	KENAI PENINSULA, ALASKA. <AGS-P>. Felt (III) at Homer.
	22	07 48 59.8?	17.10	N	101.75	W	33	N	4.3		1.0	8	NEAR COAST OF GUERRERO, MEXICO
	22	08 21 45.9*	28.085	N	140.943	E	10	G			1.5	24	BONIN ISLANDS REGION
	22	09 47 47.7*	30.264	S	141.472	E	33	N			1.2	7	NEW SOUTH WALES, AUSTRALIA. ML 3.3 (CMS), 3.2 (STK).
	22	10 26 18.2	24.134	S	66.943	W	203		4.3		1.4	26	SALTA PROVINCE, ARGENTINA
	22	11 10 37.7*	22.959	N	121.382	E	10	G			0.1	7	TAIWAN REGION
	22	11 19 07.8*	24.408	N	121.867	E	10	G			0.6	6	TAIWAN
	22	12 06 46.1?	1.06	S	23.82	W	10	G	4.5		1.0	5	CENTRAL MID-ATLANTIC RIDGE
	22	13 34 28.8	7.164	S	130.352	E	76	*	5.0		1.0	50	TANIMBAR ISLANDS REGION
	22	13 56 39.8%	39.092	N	27.644	E	10	G			0.2	5	TURKEY
	22	14 29 54.2	42.913	N	17.621	E	23				1.2	68	ADRIATIC SEA. ML 5.0 (LJU), 4.7 (KBA). Felt in the Mostar area, Yugoslavia.
	22	16 38 31.0*	39.517	N	18.530	E	10	G			0.6	5	SOUTHERN ITALY
	22	17 33 20.1*	51.005	N	178.988	E	33	N	4.6		0.7	8	RAT ISLANDS, ALEUTIAN ISLANDS
	22	17 59 08.6*	16.510	S	167.337	E	20	*	4.1		1.0	10	VANUATU ISLANDS
	22	18 14 34.2?	10.41	S	123.05	E	131	*	4.6		1.4	12	TIMOR
a	22	18 23 12.2	12.510	N	44.316	W	10	G	5.7	5.5	0.8	275	NORTH ATLANTIC RIDGE. Ms 5.8 (BRK).
	22	18 44 27.5%	39.023	N	30.325	E	10	G			1.3	7	TURKEY
	22	19 07 04.8&	61.164	N	150.214	W	42					31	SOUTHERN ALASKA. <AGS-P>. ML 3.1 (PMR). Felt at Anchorage.
	22	19 18 57.2%	38.994	N	30.039	E	10	G			0.9	5	TURKEY
	22	20 29 22.6*	12.421	S	166.672	E	33	N			0.9	9	SANTA CRUZ ISLANDS
	22	21 16 36.4*	18.035	N	103.524	W	33	N	4.1		0.9	7	NEAR COAST OF MICHOACAN, MEXICO
	22	21 18 18.3*	3.802	N	126.536	E	33	N	4.8		0.7	15	TALAUD ISLANDS
	22	22 04 13.6&	62.541	N	150.168	W	79					18	CENTRAL ALASKA. <AGS-P>.
	22	22 10 05.6?	22.24	S	173.90	E	33	N			0.9	10	LOYALTY ISLANDS REGION
	22	23 17 50.6*	28.267	N	140.813	E	54	*	4.3		1.4	28	BONIN ISLANDS REGION
	22	23 33 01.8?	33.01	N	48.10	E	33	N	4.3		0.1	5	WESTERN IRAN
	22	23 55 01.3	28.058	N	140.792	E	33	*	5.0		1.0	39	BONIN ISLANDS REGION. Felt (I JMA) on Chichi-shima.
	23	01 03 43.0*	34.629	N	95.164	W	5	G			1.1	8	OKLAHOMA. mbLg 2.9 (TUL).
	23	02 16 49.3*	31.980	S	69.030	W	33	N			0.1	5	SAN JUAN PROVINCE, ARGENTINA
	23	02 21 36.4*	9.730	N	73.437	W	33	N			0.9	5	NORTHERN COLOMBIA
	23	03 01 24.6	3.321	N	65.309	E	10	G	5.1	4.9	1.0	128	CARLSBERG RIDGE
	23	03 03 24.3?	38.96	N	29.74	E	10	G			1.5	5	TURKEY
	23	03 10 08.4?	3.17	N	65.43	E	10	G	4.8		1.6	8	CARLSBERG RIDGE
a	23	05 08 10.6	4.104	S	136.331	E	10	G	5.5	5.2	1.1	149	WEST IRIAN REGION
	23	05 24 36.2	4.126	S	136.384	E	10	G	5.2		1.1	54	WEST IRIAN REGION
	23	05 37 21.3	52.284	N	169.518	W	33	N	4.9	4.8	0.9	52	FOX ISLANDS, ALEUTIAN ISLANDS
	23	05 40 16.1	3.207	N	65.344	E	10	G	5.2		0.8	78	CARLSBERG RIDGE
	23	06 18 28.9&	60.521	N	151.209	W	54					37	KENAI PENINSULA, ALASKA. <AGS-P>.
	23	06 37 59.9*	39.602	S	73.547	W	33	N	4.1		0.9	8	NEAR COAST OF CENTRAL CHILE
	23	07 45 49.2	42.042	N	143.203	E	62		4.7		1.1	71	HOKKAIDO, JAPAN REGION. Felt (II JMA) at Urakawa and (I JMA) at Obihiro.
	23	07 54 12.3*	41.194	N	22.784	E	10	G			1.5	5	YUGOSLAVIA
	23	08 19 41.4	40.390	N	23.449	E	10	G			1.0	9	GREECE
	23	09 10 26.4	37.460	N	118.623	W	5	G			0.6	21	CALIFORNIA-NEVADA BORDER REGION. ML 3.5 (BRK), 3.6 (PAS).
	23	09 45 04.7*	17.994	N	103.203	W	33	N	3.8		1.5	17	NEAR COAST OF MICHOACAN, MEXICO
	23	10 06 25.4&	60.488	N	147.305	W	21					45	SOUTHERN ALASKA. <AGS-P>.
	23	10 46 09.4	12.626	N	44.377	W	10	G	4.6	4.0	0.8	35	NORTH ATLANTIC RIDGE
	23	10 47 45.0%	46.220	N	2.632	E	10	G			0.4	7	FRANCE. ML 2.0 (LDG).
	23	11 33 48.6*	27.559	N	139.581	E	33	N	3.8		0.4	5	BONIN ISLANDS REGION
	23	12 08 51.8	47.346	N	11.280	E	10	G			1.1	28	AUSTRIA. ML 3.5 (GRF), 3.4 (KBA), 3.2 (FUR), 3.2 (LDG), 2.9 (TRI). Felt (IV) at Zirl.
	23	13 04 17.5*	43.387	N	19.915	E	10	G			1.5	5	YUGOSLAVIA
	23	13 16 53.9%	60.508	N	5.496	E	0	G			0.7	5	SOUTHERN NORWAY. DUR 1.9 (BER). Probable explosion.
	23	13 29 36.8%	46.752	N	5.905	E	10	G			1.3	9	FRANCE. ML 2.9 (LDG).
	23	14 26 10.1	9.707	S	159.833	E	32		4.9		1.0	36	SOLOMON ISLANDS. Felt (IV) at Honiara.
	23	15 45 01.5*	32.343	S	122.498	E	33	N			1.1	8	WESTERN AUSTRALIA
	23	16 26 24.0%	60.724	N	5.568	E	0	G			0.6	5	SOUTHERN NORWAY. DUR 2.1 (BER). Probable explosion.
	23	16 33 03.1?	37.12	N	67.63	E	33	N	4.1		0.2	5	AFGHANISTAN-USSR BORDER REGION
	23	17 27 25.6*	31.413	S	68.102	W	26	*			0.7	6	SAN JUAN PROVINCE, ARGENTINA
o	23	17 28 41.9	17.772	S	13.740	W	10	G	5.2	5.0	0.8	121	SOUTH ATLANTIC RIDGE
	23	19 13 38.3?	51.59	N	16.23	E	10	G			0.7	8	POLAND. ML 3.4 (GRF).
	23	19 31 32.9*	17.255	N	101.432	W	33	N	4.5		0.5	10	NEAR COAST OF GUERRERO, MEXICO
	23	19 57 35.9%	39.902	N	28.227	E	10	G			0.3	7	TURKEY
	23	19 57 51.1?	5.07	S	135.97	E	33	N			1.4	5	WEST IRIAN REGION
	23	21 02 54.8?	11.16	S	165.41	E	33	N			0.8	6	SANTA CRUZ ISLANDS
	23	22 07 18.6*	44.263	N	114.162	W	5	G			0.2	6	WESTERN IDAHO. ML 2.8 (NEIS).
	23	22 19 57.1	38.782	N	26.917	E	12				1.2	23	AEGEAN SEA. ML 3.9 (ATH).
	23	22 35 02.3*	14.668	S	167.261	E	196	*	4.8		1.3	28	VANUATU ISLANDS
	23	23 13 02.9%	41.162	N	28.963	E	10	G			0.9	8	TURKEY
	23	23 33 47.3	13.333	N	144.307	E	125		4.7		0.6	44	MARIANA ISLANDS. Felt (III) on Guam.
	23	23 48 21.5*	39.041	N	24.237	E	10	G			0.2	5	AEGEAN SEA. ML 3.0 (ATH).
	24	00 25 27.0?	17.81	N	101.36	W	33	N	3.7		1.2	8	NEAR COAST OF GUERRERO, MEXICO
	24	00 49 41.8?	33.89	S	72.55	W	33	N			1.1	6	OFF COAST OF CENTRAL CHILE
	24	01 37 02.1*	28.445	N	140.456	E	33	N	4.6		1.2	33	BONIN ISLANDS REGION
	24	01 37 39.3&	62.188	N	151.122	W	77					39	CENTRAL ALASKA. <AGS-P>.
	24	01 47 18.2*	28.053	N	140.968	E	33	N	5.0		1.1	9	BONIN ISLANDS REGION
	24	01 52 15.9	11.147	N	140.469	E	33	N	5.0		1.2	47	WEST CAROLINE ISLANDS
	24	02 10 17.3?	30.83	S	178.00	W	33	N			1.5	10	KERMADEC ISLANDS
	24	02 13 58.1	67.533	N	157.518	W	33	N	3.9		0.6	9	ALASKA. ML 3.9 (PMR).
	24	05 13 52.3?	36.62	N	140.17	E	33	N			0.5	5	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) at Mito.
	24	05 33 45.1	3.461	S	68.411	E	10	G	4.9		0.9	67	CHAGOS ARCHIPELAGO REGION

	24	06	43	46.7?	25.49	S	179.71	E	533	?	4.8	0.7	10	SOUTH OF FIJI ISLANDS
	24	07	03	13.9	18.046	N	101.911	W	33	N	4.5	1.4	45	GUERRERO, MEXICO
	24	07	05	56.3	26.782	N	61.845	E	33	N	4.7	0.5	27	SOUTHERN IRAN
	24	07	21	30.2&	37.485	N	121.690	W	8				28	CENTRAL CALIFORNIA. <BRK>. ML 3.5 (BRK). Mo=6.0*10**21 (BRK). Felt (IV) at San Jose and Fremont. Also felt at San Leandra.
	24	07	38	37.3?	36.21	N	20.71	E	10	G	3.8	1.1	12	MEDITERRANEAN SEA. ML 4.1 (ATH).
	24	08	19	29.3*	44.434	N	114.276	W	5	G		0.7	9	WESTERN IDAHO. ML 2.8 (NEIS).
	24	08	41	51.9	14.395	S	167.176	E	214	*	4.8	1.1	55	VANUATU ISLANDS
	24	09	39	13.3?	17.42	N	105.84	W	33	N	3.9	1.0	7	OFF COAST OF JALISCO, MEXICO
	24	10	17	35.7&	62.431	N	151.468	W	89				32	CENTRAL ALASKA. <AGS-P>.
	24	10	49	45.5&	38.798	N	122.783	W	2	G			12	NORTHERN CALIFORNIA. <BRK>. ML 3.0 (BRK).
	24	11	33	10.7*	13.964	N	144.584	E	147		4.5	0.7	14	MARIANA ISLANDS. Felt (II) on Guam.
	24	12	41	33.2*	27.544	S	72.127	W	33	N		1.3	9	OFF COAST OF NORTHERN CHILE
	24	13	14	13.7	6.121	S	148.766	E	79	*	3.9	0.9	10	NEW BRITAIN REGION
	24	15	05	41.0?	17.48	N	101.11	W	33	N		0.6	6	NEAR COAST OF GUERRERO, MEXICO
o	24	15	37	44.7	28.105	N	140.828	E	41		5.1 4.4	0.9	87	BONIN ISLANDS REGION. Felt (I JMA) on Chichi-shima.
	24	17	02	28.1*	28.269	N	140.887	E	33	N	5.0	1.5	28	BONIN ISLANDS REGION
	24	18	35	57.8?	17.60	N	102.11	W	33	N		1.1	7	NEAR COAST OF MICHOACAN, MEXICO
	24	19	14	55.0	44.786	N	111.161	W	5	G		0.9	11	HEBGEN LAKE REGION. ML 2.9 (NEIS).
	24	19	19	11.5	44.773	N	111.163	W	5	G		0.9	11	HEBGEN LAKE REGION. ML 2.9 (NEIS).
	24	19	44	36.7*	17.036	S	177.866	E	64		4.8	1.2	36	FIJI ISLANDS
a	24	20	28	52.4	6.405	S	130.037	E	147		5.6	1.1	175	BANDA SEA. Felt (II) at Saumlaki, Tanimbar Islands.
	24	21	16	46.9*	28.388	N	129.650	E	50		4.9	0.7	12	RYUKYU ISLANDS
	24	22	37	25.9*	17.841	N	102.341	W	33	N	4.5	1.3	51	NEAR COAST OF MICHOACAN, MEXICO
	24	22	39	54.6	21.222	N	146.128	E	33	N	4.9	0.8	45	MARIANA ISLANDS REGION
	24	22	56	22.2*	39.552	N	19.197	E	10	G		1.2	9	GREECE-ALBANIA BORDER REGION
	24	23	00	07.2*	80.394	N	3.380	W	10	G	3.9	1.9	6	NORTH OF SVALBARD
	25	01	47	03.2	39.317	N	75.419	E	10	G	4.6 4.2	1.0	68	SOUTHERN XINJIANG, CHINA
	25	02	29	31.5*	13.173	N	144.005	E	33	N	5.2	0.9	13	MARIANA ISLANDS. Felt (III) on Guam.
	25	03	06	20.2?	17.06	N	101.80	W	33	N		1.5	6	NEAR COAST OF GUERRERO, MEXICO
	25	03	54	43.8?	17.86	N	101.86	W	33	N	3.7	1.5	7	NEAR COAST OF GUERRERO, MEXICO
	25	04	16	36.3?	2.62	S	146.00	E	33	N	4.1	1.1	7	ADMIRALTY ISLANDS REGION
	25	04	50	10.7?	9.20	S	108.84	W	10	G	4.4	1.4	17	NORTHERN EASTER I. CORDILLERA
	25	05	05	41.9?	34.42	N	21.80	E	10	G		1.2	6	MEDITERRANEAN SEA. ML 3.6 (ATH).
	25	05	24	30.2*	19.633	S	177.786	W	580	*	4.9	1.4	26	FIJI ISLANDS REGION
	25	06	20	59.8	37.934	N	142.122	E	44	*	4.6	1.2	26	OFF EAST COAST OF HONSHU, JAPAN. Felt (II JMA) at Ishinomaki and (I JMA) at Fukushima, Ofunato, Miyako and Sendai.
	25	06	32	22.2?	3.96	S	101.98	E	33	N	4.0	1.0	6	SOUTHERN SUMATERA
	25	07	02	50.3?	16.93	N	103.73	W	33	N	3.8	1.2	8	OFF COAST OF MICHOACAN, MEXICO
	25	07	06	45.7	12.443	N	44.333	W	10	G	5.3 5.0	0.8	150	NORTH ATLANTIC RIDGE
	25	07	29	44.2*	4.386	S	144.816	E	10	G	3.7	1.4	8	NEAR N COAST OF PAPUA NEW GUINEA
a	25	07	43	57.0	18.208	N	102.740	W	30	*	5.3 5.2	1.1	168	MICHOACAN, MEXICO. Ms 5.2 (BRK), 5.0 (PAS). Two weakened buildings collapsed at Ciudad Guzman. Felt at Mexico City.
	25	08	11	56.3*	39.416	N	75.690	E	10	G	4.3	1.1	9	SOUTHERN XINJIANG, CHINA
	25	09	38	01.9	16.083	S	174.914	W	329	*	4.3	0.6	18	TONGA ISLANDS
	25	10	37	44.4	12.523	N	44.320	W	10	G	5.0 4.8	0.8	75	NORTH ATLANTIC RIDGE
a	25	12	09	57.0	9.283	N	84.033	W	38		5.2 5.0	1.2	148	COSTA RICA. Felt in central Costa Rica.
	25	12	39	35.2%	60.274	N	5.397	E	0	G		0.9	5	SOUTHERN NORWAY. DUR 1.7 (BER). Probable explosion.
	25	13	18	18.8?	58.30	N	6.05	E	0	G		0.4	6	SOUTHERN NORWAY. DUR 1.8 (BER). Probable explosion.
	25	13	47	45.7	12.010	N	143.548	E	29	*	5.1 4.6	1.0	75	SOUTH OF MARIANA ISLANDS
	25	14	39	21.8*	28.286	N	140.704	E	33	N	5.0	1.5	32	BONIN ISLANDS REGION
	25	15	22	14.8	44.321	N	21.663	E	10	G		1.3	8	YUGOSLAVIA
	25	15	22	34.2?	59.38	N	6.72	E	0	G		0.5	6	SOUTHERN NORWAY. DUR 1.4 (BER). Probable explosion.
	25	15	39	54.3	36.567	N	71.370	E	33	N	4.5	0.9	15	AFGHANISTAN-USSR BORDER REGION
	25	16	29	19.7	54.758	N	159.723	W	33	N	4.8	0.8	71	SOUTH OF ALASKA. ML 4.4 (PMR). Felt (II) at Sand Point.
	25	16	49	02.8?	17.89	S	174.41	W	33	N	4.3	1.5	7	TONGA ISLANDS
	25	17	19	13.1?	17.58	N	146.24	E	33	N	4.3	1.3	9	MARIANA ISLANDS
	25	18	04	22.3*	12.481	N	143.393	E	25	*	4.9	0.9	19	SOUTH OF MARIANA ISLANDS
	25	18	43	14.5?	61.20	N	7.76	E	10	G		0.3	5	SOUTHERN NORWAY. DUR 1.9 (BER).
	25	20	30	03.0	6.752	S	149.785	E	33	N	4.7	0.9	12	NEW BRITAIN REGION
	25	20	50	52.8	59.763	N	154.601	W	189	D	4.6	1.1	136	SOUTHERN ALASKA. Felt (IV) at Kenai, (III) at Cooper Landing, Homer, Skwentna, Saldatna and Suttan. Felt (II) at Anchorage, Palmer, Moose Pass and Seward.
	25	21	23	17.5	44.600	N	10.360	E	10	G		1.1	18	NORTHERN ITALY. ML 3.3 (LDG).
	25	21	28	55.3?	51.36	N	15.98	E	10	G		1.0	7	POLAND. ML 3.4 (VKA).
	25	21	44	20.5	46.328	N	7.393	E	10	G		0.9	6	SWITZERLAND
	25	22	27	15.1?	28.01	N	140.81	E	33	N	4.2	0.8	7	BONIN ISLANDS REGION
	25	22	31	17.8*	28.014	N	140.876	E	33	N	4.9	1.0	11	BONIN ISLANDS REGION
	25	22	42	00.3?	34.04	S	178.25	W	33	N	4.3	0.8	5	SOUTH OF KERMADEC ISLANDS
	25	23	19	00.8*	36.600	N	71.152	E	33	N	4.4	0.8	5	AFGHANISTAN-USSR BORDER REGION
	25	23	49	55.7&	35.590	N	120.783	W	2				11	CENTRAL CALIFORNIA. <BRK>. ML 3.0 (BRK).
	26	00	17	35.5*	38.566	N	75.036	E	10	G	4.5	1.3	8	SOUTHERN XINJIANG, CHINA
	26	01	14	01.4*	37.716	N	72.043	E	33	N	4.5	0.4	5	TAJIK SSR
	26	02	53	39.1&	31.930	N	115.890	W	6	G			8	BAJA CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
	26	03	15	52.0*	27.946	N	140.812	E	33	N	4.6	1.2	14	BONIN ISLANDS REGION
	26	04	05	12.9?	25.55	N	100.13	E	33	N	4.4	1.6	6	YUNNAN PROVINCE, CHINA
	26	04	05	50.4?	36.33	N	27.77	E	33	N		1.4	5	DODECANESE ISLANDS
	26	04	16	21.1*	15.958	S	173.240	W	33	N	4.8	0.9	29	TONGA ISLANDS
	26	05	04	36.3	24.026	S	66.694	W	214		4.0	0.8	17	SALTA PROVINCE, ARGENTINA
	26	05	53	13.7?	36.01	N	69.42	E	33	N	4.3	0.2	5	HINDU KUSH REGION
	26	06	32	56.2?	39.30	N	28.84	E	10	G		0.4	5	TURKEY
	26	06	43	01.0&	60.365	N	153.519	W	166				42	SOUTHERN ALASKA. <AGS-P>.
f	26	07	27	51.1	34.693	S	178.656	W	52	D	6.3 7.0	1.1	448	SOUTH OF KERMADEC ISLANDS. Ms 7.0 (BRK), 6.8 (PAS), 6.8 (PAL). Felt on Raoul Island. Also felt in the eastern and southern parts of North Island and at Christchurch and Dunedin, South Island, New Zealand.
	26	07	40	14.6?	34.88	S	178.87	W	33	N		1.9	5	SOUTH OF KERMADEC ISLANDS
	26	08	01	58.7?	35.22	S	178.26	W	33	N	4.5	1.6	9	EAST OF NORTH ISLAND, N.Z.
	26	08	03	24.5	18.333	N	71.978	W	20	*	4.9	0.9	67	DOMINICAN REPUBLIC REGION
	26	08	33	27.1	33.623	S	71.598	W	47	D	5.6 5.7	1.1	122	NEAR COAST OF CENTRAL CHILE. Felt (VI) at San Antonio.

	26	08	38	53.7?	35.25	S	176.88	W	33	N	5.1		1.3	9	EAST OF NORTH ISLAND, N.Z.
	26	08	53	43.4*	6.239	S	147.672	E	55	*	4.5		1.4	18	EAST PAPUA NEW GUINEA REGION
	26	09	06	49.8?	35.01	S	178.84	W	33	N	4.5		1.5	8	EAST OF NORTH ISLAND, N.Z.
	26	09	20	06.4*	35.026	S	178.853	W	33	N	4.5		1.2	12	EAST OF NORTH ISLAND, N.Z.
	26	09	24	18.4?	35.16	S	178.79	W	33	N	4.1		2.0	6	EAST OF NORTH ISLAND, N.Z.
	26	10	10	28.5&	62.040	N	151.956	W	102					45	CENTRAL ALASKA <AGS-P>.
	26	10	35	21.7*	35.162	S	178.891	W	33	N	4.5		1.5	11	EAST OF NORTH ISLAND, N.Z.
	26	10	44	03.2?	34.95	S	177.78	W	33	N	4.6		1.4	6	SOUTH OF KERMADEC ISLANDS
	26	11	51	35.6*	35.047	S	178.709	W	33	N	4.5		1.2	15	EAST OF NORTH ISLAND, N.Z.
	26	12	17	00.5*	35.185	S	178.843	W	33	N	4.6		1.4	14	EAST OF NORTH ISLAND, N.Z.
	26	12	19	23.6*	35.120	S	178.749	W	33	N	4.4		1.4	13	EAST OF NORTH ISLAND, N.Z.
	26	12	24	54.4*	42.442	N	24.875	E	10	G			1.0	6	BULGARIA
	26	12	41	12.7%	40.638	N	29.182	E	10	G			0.9	9	TURKEY
	26	13	24	46.0	35.773	N	139.752	E	33	N			0.2	6	NEAR S COAST OF HONSHU, JAPAN
	26	14	47	45.4*	15.199	S	173.528	W	33	N	4.5		0.9	16	TONGA ISLANDS
	26	15	00	53.0*	35.130	S	179.060	W	33	N	4.4		1.3	11	EAST OF NORTH ISLAND, N.Z.
	26	15	01	46.7?	35.48	S	179.10	W	33	N	4.7		0.7	8	EAST OF NORTH ISLAND, N.Z.
	26	15	33	27.3	35.052	S	178.742	W	33	N	5.2		0.9	26	EAST OF NORTH ISLAND, N.Z.
	26	15	50	27.5&	62.304	N	151.402	W	90					25	CENTRAL ALASKA <AGS-P>.
	26	16	09	25.9	35.072	S	178.761	W	33	N	5.0		1.1	22	EAST OF NORTH ISLAND, N.Z.
	26	17	09	28.1*	28.143	N	140.590	E	33	N	4.8		1.4	21	BONIN ISLANDS REGION
	26	17	17	22.9*	16.321	S	172.624	W	33	N	3.8		0.6	9	SAMOA ISLANDS REGION
	26	17	35	26.0*	9.289	S	120.253	E	33	N	4.8		1.5	18	SUMBA ISLAND REGION
	26	18	35	00.6	5.319	S	150.745	E	194		5.1		1.1	43	NEW BRITAIN REGION
	26	18	52	10.0*	35.179	S	178.959	W	33	N	4.8		1.3	16	EAST OF NORTH ISLAND, N.Z.
	26	20	54	21.8?	34.74	S	178.51	W	33	N	4.5		1.5	5	SOUTH OF KERMADEC ISLANDS
	26	20	57	45.0?	37.61	N	70.79	E	33	N	4.5		0.6	5	AFGHANISTAN-USSR BORDER REGION
	26	21	03	18.7*	31.776	S	70.715	W	33	N			1.3	7	CHILE-ARGENTINA BORDER REGION. Felt (IV) in the Choapo-Illopel oreo.
	26	21	11	00.3*	4.155	S	152.818	E	48	*	4.1		1.1	9	NEW BRITAIN REGION
	26	21	52	15.2	35.230	S	178.719	W	33	N	5.2		1.1	23	EAST OF NORTH ISLAND, N.Z.
	26	22	10	02.7*	35.135	S	178.881	W	33	N	4.8		1.2	9	EAST OF NORTH ISLAND, N.Z.
	26	22	12	36.9*	34.892	S	178.736	W	33	N	4.6		0.6	9	SOUTH OF KERMADEC ISLANDS
	26	22	46	15.7*	35.069	S	178.831	W	33	N	4.6		1.3	15	EAST OF NORTH ISLAND, N.Z.
	26	22	54	25.6*	3.401	S	145.910	E	33	N	4.3		1.6	10	NEAR N COAST OF PAPUA NEW GUINEA
	26	23	06	42.6?	35.11	S	178.36	W	33	N	4.6		0.5	5	EAST OF NORTH ISLAND, N.Z.
	26	23	56	37.0	33.619	N	134.780	E	25		4.7		1.2	46	SHIKOKU, JAPAN. Felt (III JMA) at Muroto-misaki, (II JMA) at Okayama and Tokushima and (I JMA) at Wakayama and Kochi.
	27	00	17	33.1?	35.27	S	179.09	W	33	N	4.8		1.0	6	EAST OF NORTH ISLAND, N.Z.
	27	01	18	18.8*	36.772	N	21.877	E	33	N			0.9	5	SOUTHERN GREECE. ML 3.3 (ATH).
	27	01	20	54.3*	7.754	S	158.208	E	33	N	4.0		0.9	9	SOLOMON ISLANDS
	27	01	29	50.4?	36.51	N	21.84	E	33	N			1.5	6	SOUTHERN GREECE. ML 3.6 (ATH).
	27	01	49	58.4*	41.864	N	19.312	E	10	G			1.1	6	ALBANIA. ML 2.4 (TTG).
	27	01	56	41.3?	35.28	S	178.96	E	33	N	4.7		1.5	9	OFF E. COAST OF N. ISLAND, N.Z.
	27	02	06	29.1	46.921	N	153.533	E	33	N	4.8		0.8	72	KURIL ISLANDS
	27	02	14	48.6*	6.335	S	146.705	E	119	*	3.9		0.3	6	EAST PAPUA NEW GUINEA REGION
	27	03	11	53.4*	35.185	S	178.870	W	33	N	5.4		1.5	16	EAST OF NORTH ISLAND, N.Z.
f	27	03	39	08.5	9.829	S	159.854	E	32		6.2	6.9	1.1	348	SOLOMON ISLANDS. Ms 6.8 (BRK), 6.6 (PAS). Several houses destroyed. Felt (VII) at Viso and (VI) at Honiaro. Felt throughout Guodaconol. Several landslides on southern Guodolcanol.
	27	05	13	25.2*	24.139	N	121.816	E	33	N			0.7	7	TAIWAN
	27	05	16	40.6*	35.022	S	178.839	W	33	N	4.6		1.2	13	EAST OF NORTH ISLAND, N.Z.
	27	06	29	20.8*	35.100	S	178.669	W	33	N	4.7		1.4	19	EAST OF NORTH ISLAND, N.Z.
	27	06	41	06.3*	2.209	N	100.295	W	10	G	4.7	4.5	1.2	33	EAST CENTRAL PACIFIC OCEAN
	27	06	57	41.2?	16.31	N	104.95	W	33	N	4.2		0.5	9	OFF COAST OF MICHOACAN, MEXICO
	27	07	47	05.2	28.053	N	140.737	E	27		4.8		1.1	57	BONIN ISLANDS REGION. Felt (I JMA) on Chichi-shima.
	27	08	19	25.1	9.791	S	159.697	E	37	*	4.6		1.1	22	SOLOMON ISLANDS. Felt (II) at Honiara.
	27	08	54	43.8*	5.199	S	77.249	W	122	*	4.7		1.1	22	NORTHERN PERU
	27	09	25	20.4?	39.47	N	28.83	E	10	G			0.7	5	TURKEY
	27	09	40	17.0%	59.370	N	6.740	E	0	G			0.6	7	SOUTHERN NORWAY. DUR 2.0 (BER). Probable explosian.
a	27	10	10	18.9	22.171	S	174.606	W	33	N	5.8	6.2	1.3	237	TONGA ISLANDS REGION. Ms 6.4 (BRK), 5.8 (PAS).
	27	10	17	26.7	34.043	S	72.097	W	33	N	5.1	5.3	1.2	62	NEAR COAST OF CENTRAL CHILE. Felt (III) at Santiago.
	27	11	16	26.9	17.970	N	101.993	W	33	N	4.7		1.2	51	NEAR COAST OF GUERRERO, MEXICO
	27	12	10	08.6	4.260	N	124.913	E	33	N	5.2		1.1	27	CELEBES SEA
	27	12	15	47.1&	59.590	N	153.489	W	114					34	SOUTHERN ALASKA. <AGS-P>.
	27	13	11	54.5	11.236	N	140.440	E	33	N	4.5		1.1	18	WEST CAROLINE ISLANDS
	27	13	24	26.2*	42.466	N	18.427	E	10	G			0.6	9	YUGOSLAVIA. Felt (V) at Herceg Novi and (IV) in the Boko Kotorsko oreo.
	27	14	15	00.0&	37.090	N	116.002	W	0		4.6			64	SOUTHERN NEVADA. <DOE>. ML 4.5 (BRK). 37° 05' 23.31" N., 116° 00' 06.36" W., Surface Elev. 1312 m., Depth of Buriol 366 m., Shot Time 141500.081, "PONIL", Nevada Test Site (Dept. of Energy).
	27	16	28	29.4?	12.64	S	168.23	E	33	N			1.0	6	SANTA CRUZ ISLANDS REGION
	27	16	37	59.0*	35.109	S	178.252	W	33	N	4.9	5.1	1.1	16	EAST OF NORTH ISLAND, N.Z.
a	27	16	39	48.7	34.506	N	26.599	E	61	D	5.6		1.2	275	CRETE. Felt at Jerusalem, Israel. Also felt in Egypt.
	27	18	58	19.4*	28.387	N	140.688	E	19	*	4.6		1.5	33	BONIN ISLANDS REGION
	27	19	24	33.7&	32.350	N	119.090	W	6	G				4	OFF COAST OF CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
	27	21	23	36.4*	23.584	N	120.375	E	10	G			0.3	5	TAIWAN
	27	21	23	49.4*	34.785	S	178.961	W	33	N	4.8		1.4	13	SOUTH OF KERMADEC ISLANDS
	27	21	59	04.7*	34.820	S	179.119	W	33	N	4.9		1.3	16	SOUTH OF KERMADEC ISLANDS
	27	22	39	02.7*	34.973	S	179.241	W	33	N	4.9		1.5	16	SOUTH OF KERMADEC ISLANDS
	27	23	53	30.8?	34.79	S	179.17	W	33	N	4.5		1.0	8	SOUTH OF KERMADEC ISLANDS
	27	23	53	57.2	6.834	N	72.781	W	183	*	4	4	0.4	14	NORTHERN COLOMBIA
	28	00	06	24.4	36.318	N	71.220	E	81	*	5.1		1.1	113	AFGHANISTAN-USSR BORDER REGION. Felt (III) at Ishkashim and Khorog, USSR.
	28	00	22	45.9	28.032	N	140.860	E	33	N	4.8		0.8	24	BONIN ISLANDS REGION
	28	00	50	33.1?	34.80	S	175.43	W	33	N	4.5		1.0	8	SOUTH OF KERMAOEC ISLANDS
	28	01	00	06.6?	8.43	S	130.10	E	123	?	4.4		1.0	6	TANIMBAR ISLANDS REGION
	28	01	13	33.5*	35.136	S	178.827	W	33	N	5.0		1.3	26	EAST OF NORTH ISLAND, N.Z.
	28	02	59	14.4*	35.045	S	178.381	W	33	N	5.1		1.1	17	EAST OF NORTH ISLAND, N.Z.
a	28	03	52	46.6	17.274	N	101.182	W	33	N	5.1	5.0	1.1	119	NEAR COAST OF GUERRERO, MEXICO. Ms 4.9 (BRK). Felt

													(III) at Mexico City.
	28	04	20	39.4	6.494	S	129.859	E	179		5.1	1.0	42 BANDA SEA
	28	05	09	41.7	27.516	S	176.470	W	33	N	4.8 4.9	1.0	28 KERMADEC ISLANDS REGION
a	28	05	50	41.0	20.896	S	174.077	W	33	N	5.2 5.0	1.3	86 TONGA ISLANDS
	28	06	50	24.8*	31.166	S	67.965	W	10	G		0.7	5 SAN JUAN PROVINCE, ARGENTINA
	28	07	55	15.7*	51.278	N	15.510	E	10	G		0.7	9 POLAND. ML 3.4 (KBA), 3.4 (VKA).
	28	09	01	50.0&	62.205	N	150.953	W	66				35 CENTRAL ALASKA. <AGS-P>.
	28	09	11	32.3*	35.057	S	178.863	W	33	N	4.7	1.4	15 EAST OF NORTH ISLAND, N.Z.
	28	09	20	22.1	28.118	N	140.780	E	13		5.1	1.1	59 BONIN ISLANDS REGION
	28	10	50	17.9*	35.082	S	178.931	W	33	N	4.7	1.0	9 EAST OF NORTH ISLAND, N.Z.
	28	11	42	32.7?	0.07	N	29.08	W	10	G	4.8	1.2	10 CENTRAL MID-ATLANTIC RIDGE
	28	11	49	24.2	27.988	N	140.820	E	33	N	5.1	0.6	16 BONIN ISLANDS REGION
	28	12	11	03.1	28.053	N	140.776	E	40	*	5.0	1.0	60 BONIN ISLANDS REGION. Felt (I JMA) on Chichi-shimo.
	28	12	14	55.8	43.923	N	16.537	E	10	G		1.3	47 YUGOSLAVIA. ML 4.1 (KBA), 4.1 (TRI), 3.8 (TTG), 3.8 (VKA). Felt at Knin and Split.
	28	12	18	52.8?	28.69	N	141.63	E	33	N	4.6	1.4	12 BONIN ISLANDS REGION
	28	12	48	01.2%	44.288	N	6.766	E	10	G		0.3	7 FRANCE. ML 3.0 (LDG).
	28	13	38	39.1*	35.053	S	178.745	W	33	N	4.5	1.5	13 EAST OF NORTH ISLAND, N.Z.
	28	13	54	19.9*	34.937	S	179.058	W	33	N	4.4	1.1	9 SOUTH OF KERMADEC ISLANDS
	28	14	41	14.7?	16.52	N	99.97	W	33	N	3.9	0.9	8 NEAR COAST OF GUERRERO, MEXICO
a	28	14	50	15.2	41.581	N	22.254	E	7		5.0	1.1	200 YUGOSLAVIA. ML 5.3 (SKO), 5.2 (TTG), 4.9 (ATH). Sixteen people injured and about 500 buildings damaged (VII) in the Demir Kapijo-Negotino area.
	28	14	59	13.3*	41.459	N	22.346	E	10	G		0.8	5 YUGOSLAVIA. Felt (III) in the Demir Kapijo-Negotino area.
	28	15	33	47.7	41.458	N	22.255	E	10	G		1.2	8 YUGOSLAVIA. Felt (IV) in the Demir Kapijo-Negotino area.
	28	15	45	42.1*	41.468	N	22.422	E	10	G		1.2	5 YUGOSLAVIA. Felt (IV) in the Demir Kapijo-Negotino area.
	28	17	07	49.4*	35.189	S	178.813	W	33	N	4.9	1.0	17 EAST OF NORTH ISLAND, N.Z.
	28	17	24	29.8	24.187	S	66.973	W	193		4.5	1.2	27 SALTA PROVINCE, ARGENTINA
	28	18	54	23.9*	41.459	N	22.290	E	10	G		0.7	5 YUGOSLAVIA
	28	19	04	08.0*	41.510	N	22.310	E	10	G		0.6	5 YUGOSLAVIA
	28	19	05	21.9?	38.89	N	74.60	E	33	N		0.1	5 TAJIK-XINJIANG BORDER REGION
	28	19	08	59.2*	35.264	S	178.915	W	33	N	4.8	1.2	17 EAST OF NORTH ISLAND, N.Z.
	28	19	53	48.5?	41.80	N	141.90	E	33	N	4.6	0.7	6 HOKKAIDO, JAPAN REGION
	28	20	05	46.1*	0.968	N	98.692	E	93	?		1.5	6 NORTHERN SUMATERA
	28	20	36	39.4	15.157	S	167.974	E	33	N	4.5	0.9	19 VANUATU ISLANDS
	28	20	55	09.7	56.514	N	3.543	E	10	G		1.1	26 NORTH SEA. DUR 2.6 (BER), ML 3.3 (EDI).
	28	21	11	48.9	37.252	N	116.270	W	5	G		0.6	11 SOUTHERN NEVADA. ML 3.3 (PAS).
	28	21	17	51.2?	15.95	S	172.57	W	33	N	4.7	1.2	15 SAMOA ISLANDS REGION
	28	22	02	38.6*	24.375	S	67.000	W	210	*		0.2	6 CHILE-ARGENTINA BORDER REGION
	28	22	52	20.1*	15.683	S	173.235	W	33	N	4.7	0.7	23 TONGA ISLANDS
	28	23	03	32.3&	60.322	N	152.888	W	125				18 SOUTHERN ALASKA. <AGS-P>.
	28	23	27	29.7*	28.137	N	140.778	E	33	N	4.9	1.2	20 BONIN ISLANDS REGION
	28	23	41	06.1*	35.871	N	139.568	E	106	?		0.6	8 NEAR S. COAST OF HONSHU, JAPAN
	29	00	11	00.6?	28.04	N	140.61	E	33	N	4.8	1.6	19 BONIN ISLANDS REGION
	29	00	36	13.5	41.441	N	22.312	E	10	G		1.2	27 YUGOSLAVIA. Felt (V) in the Demir Kapijo-Negotino area.
	29	00	46	36.0	28.059	N	140.818	E	51	*	4.9	0.9	30 BONIN ISLANDS REGION
	29	00	57	42.2*	31.310	S	69.844	W	33	N		0.5	5 SAN JUAN PROVINCE, ARGENTINA
	29	01	24	54.9	41.502	N	22.270	E	10	G		1.1	6 YUGOSLAVIA. Felt (IV) in the Demir Kapijo-Negotino area.
	29	01	29	05.0?	4.88	S	124.40	E	33	N	4.4	1.5	9 BANDA SEA
	29	02	19	32.3?	33.92	S	71.92	W	33	N		0.7	10 NEAR COAST OF CENTRAL CHILE
	29	02	32	39.3	34.302	S	179.528	W	33	N	4.9	1.3	41 SOUTH OF KERMADEC ISLANDS
	29	02	44	32.2*	31.105	S	68.598	W	10	G		1.3	6 SAN JUAN PROVINCE, ARGENTINA
	29	02	53	54.8*	32.177	S	66.847	W	10	G		1.4	13 SAN LUIS PROVINCE, ARGENTINA
	29	04	23	28.1?	34.51	S	71.51	W	33	N		0.5	9 NEAR COAST OF CENTRAL CHILE
	29	04	55	45.0*	2.195	N	126.586	E	33	N	5.0	1.3	18 MOLUCCA PASSAGE
a	29	05	28	18.9	23.288	S	179.241	E	541		4.9	1.0	100 SOUTH OF FIJI ISLANDS
	29	05	45	50.0*	15.817	S	166.617	E	33	N	4.2	1.3	21 VANUATU ISLANDS
	29	06	07	54.0?	39.36	N	75.92	E	10	G	4.5	0.5	5 SOUTHERN XINJIANG, CHINA
	29	06	35	05.8*	10.807	N	140.604	E	33	N	4.4	0.8	12 WEST CAROLINE ISLANDS
	29	07	06	02.2	52.260	N	173.685	E	33	N	4.8	0.9	78 NEAR ISLANDS, ALEUTIAN ISLANDS. ML 4.5 (PMR). Felt (IV) on Shemya.
	29	07	32	08.0%	39.392	N	27.896	E	10	G		0.3	5 TURKEY
	29	07	44	12.2	39.214	N	23.835	E	10	G		0.8	12 AEGEAN SEA. ML 3.2 (ATH).
	29	08	50	33.0?	42.72	S	83.46	W	10	G	4.5	1.2	12 WEST CHILE RISE
	29	08	59	41.1?	16.07	N	99.99	W	33	N	4.0	1.5	8 NEAR COAST OF GUERRERO, MEXICO
	29	09	51	41.5	41.468	N	22.264	E	10	G		1.0	6 YUGOSLAVIA. Felt (IV) in the Demir Kapijo-Negotino area.
	29	10	55	25.4*	36.672	N	71.032	E	33	N	4.4	1.5	7 AFGHANISTAN-USSR BORDER REGION
	29	11	08	00.6	41.470	N	22.371	E	10	G		0.9	5 YUGOSLAVIA
	29	12	33	39.1*	10.024	S	107.648	E	33	N	4.6	1.0	10 SOUTH OF JAVA
	29	12	48	43.4*	20.872	S	69.072	W	140	*	4.2	1.4	23 NORTHERN CHILE
	29	13	24	50.7*	12.425	N	144.069	E	42	*	4.8	1.0	20 SOUTH OF MARIANA ISLANDS
	29	14	22	56.6?	35.00	S	179.72	W	33	N	4.6	1.6	11 EAST OF NORTH ISLAND, N.Z.
	29	14	28	59.7*	35.164	S	178.672	W	33	N	4.8	1.4	12 EAST OF NORTH ISLAND, N.Z.
	29	14	37	22.7*	35.002	S	179.462	W	33	N	4.9	1.6	17 EAST OF NORTH ISLAND, N.Z.
	29	15	53	42.1	11 281	N	139.966	E	33	N	4.9	1.2	25 WEST CAROLINE ISLANDS
	29	16	39	20.1?	30.17	S	178.32	W	33	N	4.8	1 4	10 KERMADEC ISLANDS
	29	17	22	41.7*	64.260	N	151.169	W	10	G		1.6	7 CENTRAL ALASKA. ML 3.4 (PMR).
	29	19	04	44.2&	62.542	N	151.543	W	96				16 CENTRAL ALASKA. <AGS-P>.
	29	19	16	08.5	23.564	S	66.747	W	218		4.5	1.3	40 JUJUY PROVINCE, ARGENTINA
	29	19	27	17.1*	15.667	S	174.638	W	33	N	4.6 4.3	1.2	34 TONGA ISLANDS
	29	20	12	58.7?	13.12	S	115.47	E	33	N	3.3	0.9	5 NORTHWEST OF AUSTRALIA
	29	20	16	16.9*	6.166	S	151.395	E	65	?	3.6	1.3	7 NEW BRITAIN REGION
	29	21	34	54.6	36.319	N	120.276	W	10	G		0.9	10 CENTRAL CALIFORNIA. ML 2.7 (BRK).
	29	21	50	25.2*	28.052	N	140.497	E	33	N	4.8	1.5	25 BONIN ISLANDS REGION
	29	22	48	11.4?	5.51	S	129.41	E	220	?	4.5	0.7	6 BANDA SEA
	29	23	36	02.5	46.942	N	8.347	E	10	G		0.8	13 SWITZERLAND. ML 3.0 (LDG). Felt in central Switzerland.
	29	23	50	25.2%	37.498	N	30.062	E	10	G		1.2	6 TURKEY
	30	00	12	27.0*	34.856	S	178.812	W	33	N	5.1	1.2	13 SOUTH OF KERMADEC IS.ANDS

30	00	37	08.2	24.952	S	67.919	W	127	5.0	1.1	88	CHILE-ARGENTINA BORDER REGION
30	01	58	44.7	28.077	N	140.768	E	46 *	4.8	1.2	59	BONIN ISLANDS REGION
30	02	12	12.6*	31.820	S	69.372	W	33 N		1.0	6	SAN JUAN PROVINCE, ARGENTINA
30	02	28	01.0	43.099	N	0.365	W	10 G		0.9	21	PYRENEES. ML 3.8 (LDG).
30	02	29	40.9?	44.54	N	7.45	E	10 G		0.3	5	NORTHERN ITALY. ML 2.7 (LDG).
30	03	36	46.0?	18.35	N	103.04	W	33 N		1.2	5	NEAR COAST OF MICHOACAN, MEXICO
30	03	58	11.6*	19.384	N	105.039	W	33 N	4.2	1.5	33	NEAR COAST OF JALISCO, MEXICO
30	04	08	56.3&	43.420	N	73.541	W	5 G			3	NEW YORK. <PAL>. CL 2.7 (PAL). Felt (IV) at Cleverdale and Fort Ann. Felt (II) at Lake Luzerne and Bakers Mills.
30	04	51	03.8*	7.914	N	137.251	E	33 N	4.4	1.0	18	WEST CAROLINE ISLANDS
30	09	12	02.7?	5.93	N	73.07	W	139 *	4.3	1.0	11	COLOMBIA
30	09	17	16.2	28.080	N	140.380	E	11	4.6	1.1	23	BONIN ISLANDS REGION
30	09	38	12.4*	34.266	N	135.277	E	23 *	4.2	1.0	7	NEAR S. COAST OF SOUTHERN HONSHU. Felt (I JMA) at Wakayama.
30	09	45	39.7&	36.582	N	121.225	W	7			17	CENTRAL CALIFORNIA. <BRK>. ML 3.2 (BRK). Mo=2.0*10**21 (BRK).
30	09	46	07.1&	58.467	N	155.831	W	136			26	ALASKA PENINSULA. <AGS-P>.
30	10	01	34.2	52.299	N	169.299	W	33 N	4.7 4.3	0.9	61	FOX ISLANDS, ALEUTIAN ISLANDS
30	11	02	09.6	19.046	S	169.322	E	204 *	4.5	0.9	9	VANUATU ISLANDS
30	11	16	25.5	47.625	N	0.405	E	10 G	3.8	1.0	65	FRANCE. ML 4.7 (LDG). Felt at Orleans, Poitiers and Tours.
30	12	11	14.0	47.577	N	0.356	E	10 G		0.5	9	FRANCE. ML 2.7 (LDG).
30	12	17	31.7*	38.579	N	75.746	E	10 G		0.7	8	SOUTHERN XINJIANG, CHINA
30	12	46	29.5?	34.89	S	178.38	W	33 N	4.6	0.4	7	SOUTH OF KERMADEC ISLANDS
30	13	24	27.4	42.454	N	18.523	E	10 G		0.9	14	YUGOSLAVIA. ML 4.4 (TRI). Felt (V) at Herceg Navi and in the Boka Kotorska area.
30	14	12	02.4%	38.760	N	27.699	E	10 G		0.8	7	TURKEY
30	14	50	00.3*	41.505	N	22.227	E	10 G		0.5	6	YUGOSLAVIA. ML 2.0 (KNT).
30	15	00	47.9*	34.568	N	140.500	E	75	4.9	1.0	20	NEAR EAST COAST OF HONSHU, JAPAN
30	15	38	37.2*	35.180	S	178.403	W	33 N	4.5	0.7	8	EAST OF NORTH ISLAND, N.Z.
30	15	39	14.5	40.264	N	27.086	E	10 G		1.2	12	TURKEY
30	16	12	03.4	27.207	S	71.839	W	33 N		1.1	15	NEAR COAST OF NORTHERN CHILE
30	16	19	47.1	17.167	N	93.977	E	10 G	4.8 4.1	0.9	49	BAY OF BENGAL
30	16	59	05.4%	38.825	N	26.991	E	10 G		1.1	11	AEGEAN SEA
30	18	01	17.9*	38.625	N	21.406	E	10 G		1.5	5	GREECE. ML 3.1 (ATH).
30	20	08	57.0&	61.863	N	149.842	W	46			39	SOUTHERN ALASKA. <AGS-P>.
30	20	26	30.2?	33.22	S	72.11	W	33 N		1.3	15	OFF COAST OF CENTRAL CHILE
30	22	33	17.6*	27.941	N	140.648	E	33 N	5.0	1.0	17	BONIN ISLANDS REGION
30	23	08	22.6*	50.776	N	130.146	W	10 G	4.2	1.5	18	VANCOUVER ISLAND REGION
30	23	11	57.0*	27.989	N	140.755	E	33 N	5.0	1.3	26	BONIN ISLANDS REGION
30	23	20	14.0*	39.203	N	23.673	E	10 G		0.6	7	AEGEAN SEA. ML 2.8 (ATH).

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

01 01 00 55.54 19.780N 75.282W 10km
5.1mb (58 abs.) 4.5Msz (2 abs.)
CUBA REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 22C
Centraid Lacatian:
Origin Time 01:01: 0.6 1.6
Lat 19.67N 0.14 Lan 75.20W 0.18
Dep 10.0 FIX Half-duratian 1.3
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	4.64	81	103
N	-0.38	6	233
P	-4.26	7	323

Best Double Couple:Ma=4.4*10**23
NP1:Strike= 61 Dip=38 Slip= 100
NP2: 228 53 82

01 08 28 21.53 38.910S 92.051W 10km
5.2mb (8 abs.) 5.1Msz (4 abs.)
WEST CHILE RISE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 27C
Centraid Lacatian:
Origin Time 08:28:23.2 0.2
Lat 38.98S 0.04 Lan 92.00W 0.05
Dep 10.0 FIX Half-duration 2.2
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	2.26	0	225
N	-0.22	90	180
P	-2.05	0	135

Best Double Couple:Mo=2.2*10**24
NP1:Strike=270 Dip=90 Slip= 180
NP2: 0 90 0

03 23 32 47.50 1.409N 128.153E 114km
5.7mb (41 abs.)
HALMAHERA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=290 Dip=60 Slip= 75
NP2: 138 33 114
Principal Axes:

	Plg=	Azm=
T	71	166
P	14	31

Comment: The focal mechanism is moderately well controlled and corresponds to reverse faulting with a small strike-slip campanent. The preferred foul: plane is NP2.
MOMENT TENSOR SOLUTION
Dep 98 Na. af sta: 4
Principal Axes:
Scale 10**24 d-cm

	Val=	Plg=	Azm=
T	8.81	50	257
N	0.07	40	82
P	-8.88	2	350

Best Double Couple:Mo=8.8*10**24
NP1:Strike= 46 Dip=55 Slip= 39
NP2: 292 59 138
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 27C
Centraid Lacatian:
Origin Time 23:32:49.7 0.3
Lat 1.44N 0.03 Lan 128.29E 0.04
Dep 103.1 1.6 Half-duratian 2.9
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	5.39	65	231
N	-1.70	24	73
P	-3.69	8	339

Best Double Couple:Ma=4.5*10**24
NP1:Strike= 44 Dip=42 Slip= 53
NP2: 269 57 118

05 03 53 12.04 7.364S 128.472E 143km
5.3mb (18 abs.)
BANDA SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 15C
Centroid Lacatian:
Origin Time 03:53:16.9 1.0
Lat 7.57S 0.13 Lon 128.28E 0.17
Dep 137.9 6.9 Half-duratian 1.3
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	4.97	61	201
N	2.08	12	313
P	-7.05	26	49

Best Double Couple:Mo=6.0*10**23
NP1:Strike=165 Dip=21 Slip= 124
NP2: 309 72 78

05 05 11 35.35 64.440S 176.978E 10km
4.9mb (3 abs.) 4.7Msz (1 abs.)
BALLENY ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 13C
Centraid Lacatian:
Origin Time 05:11:43.1 0.9
Lat 64.64S 0.18 Lan 176.48E 0.28
Dep 10.0 FIX Half-duratian 1.4
Principal Axes:
Scale 10**23 D-CM

	Val=	Plg=	Azm=
T	7.83	0	169
N	-2.72	90	180
P	-5.11	0	79

Best Double Couple:Ma=6.5*10**23
NP1:Strike=214 Dip=90 Slip= 180
NP2: 304 90 0

05 08 37 45.25 56.838S 24.583W 33km
5.1mb (12 abs.) 5.2Msz (2 abs.)
SOUTH SANDWICH ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 27C
Centraid Lacatian:
Origin Time 08:37:49.3 0.3
Lat 57.07S 0.04 Lan 24.77W 0.09
Dep 10.0 FIX Half-duratian 2.0
Principal Axes:
Scale 10**24 D-CM

	Val=	Plg=	Azm=
T	2.46	62	230
N	0.08	11	342
P	-2.55	25	77

Best Double Couple:Ma=2.5*10**24
NP1:Strike=190 Dip=22 Slip= 120
NP2: 338 71 78

05 16 30 55.86 28.020N 139.407E 500km
4.9mb (30 abs.)
BONIN ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN

L.P.B.: 15S, 25C
Centroid Location:
Origin Time 16:31: 0.3 0.5
Lat 28.00N 0.04 Lon 139.40E 0.07
Dep 515.5 3.6 Half-duration 1.7
Principal Axes:
Scale 10**24 D-CM
T Val= 1.13 Plg= 2 Azm=324
N 0.15 14 55
P -1.28 76 228
Best Double Couple:Mo=1.2*10**24
NP1:Strike= 41 Dip=45 Slip=-110
NP2: 247 48 -71

05 18 30 23.26 25.405N 97.696E 33km
5.0mb (42 obs.) 5.1Msz (3 obs.)
BURMA-CHINA BORDER REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 29C
Centroid Location:
Origin Time 18:30:26.2 0.3
Lat 25.29N 0.06 Lon 98.23E 0.08
Dep 60.7 4.8 Half-duration 2.2
Principal Axes:
Scale 10**24 D-CM
T Val= 2.20 Plg=19 Azm=333
N -0.09 65 111
P -2.11 16 237
Best Double Couple:Mo=2.1*10**24
NP1:Strike= 14 Dip=65 Slip= 177
NP2: 105 87 25

07 00 22 01.57 3.079S 130.348E 26km
5.6mb (31 obs.) 5.6Msz (9 obs.)
CERAM
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 27C
Centroid Location:
Origin Time 00:22: 2.7 0.4
Lat 3.08S 0.04 Lon 130.27E 0.05
Dep 34.8 2.8 Half-duration 2.8
Principal Axes:
Scale 10**24 D-CM
T Val= 4.49 Plg=62 Azm=239
N 1.06 8 134
P -5.55 27 39
Best Double Couple:Mo=5.0*10**24
NP1:Strike=109 Dip=20 Slip= 64
NP2: 316 72 99

07 04 40 30.06 3.136S 130.279E 24km
5.5mb (20 obs.) 5.4Msz (5 obs.)
CERAM
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 24C
Centroid Location:
Origin Time 04:40:33.6 0.4
Lat 3.27S 0.03 Lon 130.22E 0.05
Dep 46.0 FIX Half-duration 2.3
Principal Axes:
Scale 10**24 D-CM
T Val= 4.56 Plg=56 Azm=272
N -0.08 21 149
P -4.48 26 48
Best Double Couple:Mo=4.5*10**24
NP1:Strike=100 Dip=26 Slip= 38
NP2: 335 74 111

07 10 20 50.21 37.445N 21.235E 31km
5.3mb (72 obs.) 5.3Msz (8 obs.)
SOUTHERN GREECE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 23C
Centroid Location:
Origin Time 10:20:54.5 0.8
Lat 37.35N 0.11 Lon 21.53E 0.11
Dep 10.0 BDY Half-duration 2.0
Principal Axes:
Scale 10**24 D-CM
T Val= 1.72 Plg=14 Azm=348
N 0.13 35 88
P -1.85 51 240
Best Double Couple:Mo=1.8*10**24
NP1:Strike= 40 Dip=44 Slip=-147
NP2: 285 68 -51

08 22 46 05.50 20.959S 178.938W 621km
5.1mb (31 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 17C
Centroid Location:
Origin Time 22:46:14.1 2.2
Lat 20.42S 0.16 Lon 179.07W 0.17
Dep 651.111.9 Half-duration 1.4
Principal Axes:
Scale 10**23 D-CM
T Val= 6.63 Plg=29 Azm=141
N -0.62 13 43
P -6.01 58 292
Best Double Couple:Mo=6.3*10**23
NP1:Strike=263 Dip=20 Slip= -49
NP2: 40 75 -103

09 09 33 12.39 6.464S 149.865E 14km
5.5mb (28 obs.) 5.2Msz (5 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 33C
Centroid Location:
Origin Time 09:33:17.7 0.3
Lat 6.78S 0.03 Lon 150.03E 0.04
Dep 10.1 FIX Half-duration 2.3
Principal Axes:
Scale 10**24 D-CM
T Val= 3.17 Plg=21 Azm=163
N 0.02 4 72
P -3.19 69 331
Best Double Couple:Mo=3.2*10**24
NP1:Strike=260 Dip=25 Slip= -81
NP2: 70 66 -94

09 15 18 03.14 46.343N 153.360E 33km
5.4mb (66 obs.) 5.2Msz (6 obs.)
KURIL ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 25C
Centroid Location:
Origin Time 15:18: 5.5 0.4
Lat 46.21N 0.05 Lon 152.96E 0.09
Dep 10.0 FIX Half-duration 1.8
Principal Axes:
Scale 10**24 D-CM
T Val= 1.60 Plg=61 Azm=254
N -0.01 21 30
P -1.59 18 127
Best Double Couple:Mo=1.6*10**24
NP1:Strike=247 Dip=33 Slip= 132
NP2: 20 66 67

10 01 26 04.42 60.394N 168.809E 17km
5.7mb (84 obs.) 4.4Msz (1 obs.)
EASTERN SIBERIA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 25C
Centroid Location:
Origin Time 01:26: 6.8 0.8
Lat 60.34N 0.07 Lon 169.57E 0.24
Dep 10.0 BDY Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM
T Val= 7.91 Plg=58 Azm= 54
N -0.31 31 217
P -7.60 8 312
Best Double Couple:Mo=7.8*10**23
NP1:Strike= 72 Dip=46 Slip= 136
NP2: 196 60 53

10 02 30 55.37 6.480S 149.871E 29km
5.1mb (7 obs.) 4.8Msz (1 obs.)
NEW BRITAIN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 32C
Centroid Location:
Origin Time 02:30:58.3 0.5
Lat 6.57S 0.05 Lon 149.98E 0.06
Dep 20.1 4.7 Half-duration 1.8
Principal Axes:
Scale 10**24 D-CM
T Val= 1.47 Plg=26 Azm=187
N -0.02 11 92
P -1.45 61 340
Best Double Couple:Mo=1.5*10**24
NP1:Strike=302 Dip=22 Slip= -58
NP2: 88 72 -102

10 04 07 47.44 6.394S 149.733E 10km
5.8mb (41 obs.) 6.3Msz (22 obs.)
NEW BRITAIN REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 50 Dip=88 Slip=-135
NP2: 318 45 -3
Principal Axes:
T Plg=28 Azm=175
P 32 284
Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting with a large normal component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 16 No. of sta: 11
Principal Axes:
Scale 10**25 d-cm
T Val= 6.65 Plg= 8 Azm=183
N -0.13 52 82
P -6.51 36 279
Best Double Couple:Mo=6.6*10**25
NP1:Strike=315 Dip=58 Slip= -22
NP2: 56 72 -147
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 23S, 55C M.W.: 14S, 30C
Centroid Location:
Origin Time 04:07:57.1 0.2
Lat 6.55S 0.01 Lon 150.08E 0.02
Dep 22.5 0.7 Half-duration 7.0
Principal Axes:
Scale 10**25 D-CM
T Val= 5.16 Plg=18 Azm=161
N 0.67 6 69
P -5.83 71 321
Best Double Couple:Mo=5.5*10**25
NP1:Strike=260 Dip=28 Slip= -77
NP2: 66 63 -97

10 06 39 01.74 27.208N 139.848E 501km
5.8mb (103 obs.)
BONIN ISLANDS REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=342 Dip=77 Slip= -45
NP2: 85 46 -162
Principal Axes:
T Plg=19 Azm= 40
P 40 293
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 497 No. of sta: 11
Principal Axes:
Scale 10**25 d-cm
T Val= 4.86 Plg=18 Azm= 38
N -0.89 47 149
P -3.98 37 294
Best Double Couple:Mo=4.4*10**25
NP1:Strike= 83 Dip=50 Slip=-164
NP2: 343 78 -41
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 19S, 36C
Centroid Location:
Origin Time 06:39: 6.3 0.2
Lat 27.14N 0.01 Lon 139.91E 0.03
Dep 496.9 1.1 Half-duration 5.8
Principal Axes:
Scale 10**25 D-CM
T Val= 4.41 Plg=21 Azm= 35
N 0.33 20 133
P -4.75 60 263
Best Double Couple:Mo=4.6*10**25
NP1:Strike= 93 Dip=30 Slip=-135
NP2: 321 69 -68

11 17 47 35.98 15.388S 173.535W 68km
5.8mb (43 obs.)
TONGA ISLANDS
MOMENT TENSOR SOLUTION
Dep 87 No. of sta: 11
Principal Axes:
Scale 10**24 d-cm
T Val= 4.81 Plg=64 Azm=221
N -0.50 22 76
P -4.31 13 340
Best Double Couple:Mo=4.6*10**24
NP1:Strike= 43 Dip=37 Slip= 51

NP2: 268 62 115
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 19S, 38C
Centroid Location:
Origin Time 17:47:44.3 0.2
Lat 15.22S 0.02 Lon 173.46W 0.02
Dep 76.6 1.7 Half-duration 3.1
Principal Axes:
Scale 10**24 D-CM
T Val= 6.44 Plg=59 Azm=274
N -0.58 15 32
P -5.86 26 129
Best Double Couple:Mo=6.1*10**24
NP1:Strike=250 Dip=24 Slip= 131
NP2: 27 72 74

11 18 23 01.67 54.324S 132.002W 10km
5.3mb (13 obs.) 5.5Msz (2 obs.)
SOUTH PACIFIC CORDILLERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 34C
Centroid Location:
Origin Time 18:23:10.4 0.2
Lat 54.65S 0.04 Lon 132.16W 0.05
Dep 10.0 FIX Half-duratior 3.3
Principal Axes:
Scale 10**24 D-CM
T Val= 8.91 Plg=27 Azm=332
N -1.85 60 180
P -7.06 12 68
Best Double Couple:Mo=8.0*10**24
NP1:Strike=113 Dip=62 Slip= 11
NP2: 18 80 151

11 19 20 30.66 54.388S 132.403W 10km
5.4mb (14 obs.) 5.5Msz (4 obs.)
SOUTH PACIFIC CORDILLERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 32C
Centroid Location:
Origin Time 19:20:39.2 0.2
Lat 54.70S 0.03 Lon 132.25W 0.05
Dep 10.0 FIX Half-duration 3.4
Principal Axes:
Scale 10**24 D-CM
T Val= 10.59 Plg=29 Azm=329
N -1.77 56 184
P -8.82 16 69
Best Double Couple:Mo=9.7*10**24
NP1:Strike=112 Dip=57 Slip= 10
NP2: 17 82 147

11 20 45 49.54 39.356N 75.407E 15km
5.8mb (89 obs.) 6.5Msz (17 obs.)
SOUTHERN XINJIANG, CHINA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 21S, 54C M.W.: 11S, 22C
Centroid Location:
Origin Time 20:46: 1.4 0.3
Lat 39.53N 0.02 Lon 75.34E 0.04
Dep 34.0 1.3 Half-duration 4.7
Principal Axes:
Scale 10**25 D-CM
T Val= 2.12 Plg=83 Azm=270
N -0.02 7 104
P -2.10 2 14
Best Double Couple:Mo=2.1*10**25
NP1:Strike= 96 Dip=44 Slip= 80
NP2: 290 47 100

15 01 29 23.31 4.090S 136.243E 10km
5.7mb (27 obs.) 6.3Msz (19 obs.)
WEST IRIAN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 20S, 43C
Centroid Location:
Origin Time 01:29:31.9 0.2
Lat 4.05S 0.03 Lon 136.51E 0.03
Dep 10.0 FIX Half-duration 4.9
Principal Axes:
Scale 10**25 D-CM
T Val= 2.57 Plg=16 Azm=312
N 1.44 57 68
P -4.01 28 214
Best Double Couple:Mo=3.3*10**25
NP1:Strike=356 Dip=59 Slip=-171
NP2: 261 82 -32

15 02 42 54.89 4.130S 136.049E 10km
5.9mb (39 obs.) 6.3Msz (13 obs.)
WEST IRIAN REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 92 Dip=68 Slip= 35
NP2: 347 58 154
Principal Axes:
T Plg=40 Azm=313
P 6 218
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 29 No. of sta: 6
Principal Axes:
Scale 10**25 d-cm
T Val= 3.23 Plg=62 Azm=279
N 0.03 22 142
P -3.27 17 45
Best Double Couple:Mo=3.3*10**25
NP1:Strike=106 Dip=33 Slip= 48
NP2: 333 66 114
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 20S, 41C
Centroid Location:
Origin Time 02:42:59.1 0.4
Lat 4.09S 0.04 Lon 135.82E 0.04
Dep 10.0 FIX Half-duration 5.2
Principal Axes:
Scale 10**25 D-CM
T Val= 3.19 Plg= 9 Azm=130
N 0.28 76 1
P -3.47 11 222
Best Double Couple:Mo=3.3*10**25
NP1:Strike=266 Dip=76 Slip= -1
NP2: 356 89 -166

15 07 57 53.59 17.974N 97.158W 65km
5.9mb (98 obs.)
OAXACA, MEXICO
MOMENT TENSOR SOLUTION
Dep 90 No. of sta: 15
Principal Axes:
Scale 10**25 d-cm
T Val= 1.36 Plg= 6 Azm=229
N -0.22 1 139
P -1.14 84 36
Best Double Couple:Mo=1.3*10**25
NP1:Strike=320 Dip=39 Slip= -88
NP2: 137 51 -92
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 36C
Centroid Location:
Origin Time 07:57:51.8 0.3
Lat 17.70N 0.03 Lon 96.85W 0.03
Dep 71.3 1.3 Half-duration 3.8
Principal Axes:
Scale 10**25 D-CM
T Val= 1.31 Plg= 6 Azm=200
N -0.26 0 290
P -1.05 84 22
Best Double Couple:Mo=1.2*10**25
NP1:Strike=290 Dip=39 Slip= -90
NP2: 110 51 -90

15 11 25 04.33 19.216S 175.576W 247km
5.7mb (48 obs.)
TONGA ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 40 Dip=80 Slip=-125
NP2: 296 36 -17
Principal Axes:
T Plg=27 Azm=157
P 44 276
Comment: The focal mechanism is moderately well controlled and corresponds to normal faulting with a large left-lateral strike-slip component. The preferred fault plane is NP2
MOMENT TENSOR SOLUTION
Dep 245 No. of sta: 7
Principal Axes:
Scale 10**24 d-cm
T Val= 4.14 Plg=2 Azm=122
N 0.05 15 24
P -4.20 59 268
Best Double Couple:Mo=4.2*10**24
NP1:Strike=245 Dip=23 Slip= -47
NP2: 19 73 -106
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 29C
Centroid Location:
Origin Time 11:25:10.8 0.4
Lat 19.19S 0.04 Lon 175.58W 0.04
Dep 258.0 1.5 Half-durotion 2.7
Principal Axes:
Scale 10**24 D-CM
T Val= 4.16 Plg=27 Azm=130
N 0.16 17 31
P -4.32 58 272
Best Double Couple:Mo=4.2*10**24
NP1:Strike=255 Dip=24 Slip= -43
NP2: 26 74 -108

15 17 31 00.86 16.771S 173.880W 81km
5.8mb (52 obs.)
TONGA ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=310 Dip=80 Slip= -80
NP2: 85 14 -135
Principal Axes:
T Plg=34 Azm= 31
P 54 232
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 83 No. of sta: 12
Principal Axes:
Scale 10**24 d-cm
T Val= 5.94 Plg=42 Azm= 64
N 0.11 27 307
P -6.05 36 195
Best Double Couple:Mo=6.0*10**24
NP1:Strike=225 Dip=27 Slip= 7
NP2: 129 87 117
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 18S, 39C
Centroid Location:
Origin Time 17:31: 6.6 0.2
Lat 16.89S 0.02 Lon 173.43W 0.02
Dep 67.4 1.8 Half-duration 3.1
Principal Axes:
Scale 10**24 D-CM
T Val= 8.40 Plg=50 Azm= 79
N -3.26 25 316
P -5.14 30 211
Best Double Couple:Mo=6.8*10**24
NP1:Strike=253 Dip=27 Slip= 24
NP2: 141 79 115

15 22 58 42 63 10.809S 119.298E 39km
5.4mb (30 obs.) 4.0Msz (1 obs.)
SUMBA ISLAND REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 19C
Centroid Location:
Origin Time 22:58:43.4 0.7
Lat 11.08S 0.11 Lon 119.54E 0.12
Dep 41.7 8.8 Half-duration 1.6
Principal Axes:
Scale 10**23 D-CM
T Val= 7.39 Plg=35 Azm= 54
N 4.01 7 319
P -11.39 54 219
Best Double Couple:Mo=9.4*10**23
NP1:Strike=178 Dip=12 Slip= -51
NP2: 318 81 -98

17 03 48 54.05 2.084N 128.546E 240km
5.3mb (26 obs.)
HALMAHERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 24C
Centroid Location:
Origin Time 03:48:55.9 0.3
Lat 2.09N 0.03 Lon 128.42E 0.04
Dep 229.0 2.1 Half-duration 2.6
Principal Axes:
Scale 10**24 D-CM
T Val= 4.78 Plg=19 Azm=173
N -0.64 48 285

P -4.13 36 69
Best Double Couple:Mo=4.4*10**24
NP1:Strike=217 Dip=50 Slip=-166
NP2: 118 79 -41

18 00 10 34.88 31.627N 49.447E 33km
5.2mb (56 obs.) 4.4Msz (4 obs.)
WESTERN IRAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 15C
Centroid Location:
Origin Time 00:10:38.7 1.0
Lat 31.45N 0.11 Lon 49.62E 0.09
Dep 11.0 BDY Half-duration 1.7
Principal Axes:
Scale 10**23 D-CM
T Val= 10.33 Plg=76 Azm=294
N 1.46 9 161
P -11.79 10 69
Best Double Couple:Mo=1.1*10**24
NP1:Strike=147 Dip=36 Slip= 74
NP2: 347 55 102

18 01 27 17.60 49.642N 155.751E 56km
5.5mb (90 obs.)
KURIL ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 26C
Centroid Location:
Origin Time 01:27:20.7 0.3
Lat 49.61N 0.05 Lon 155.65E 0.06
Dep 55.9 3.7 Half-durotion 1.9
Principal Axes:
Scale 10**24 D-CM
T Val= 1.72 Plg=49 Azm=136
N -0.22 29 5
P -1.51 26 259
Best Double Couple:Mo=1.6*10**24
NP1:Strike=304 Dip=33 Slip= 24
NP2: 193 77 120

18 02 15 52.92 3.402S 146.369E 33km
5.3mb (6 obs.) 4.6Msz (1 obs.)
BISMARCK SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 20C
Centroid Location:
Origin Time 02:15:55.7 0.6
Lat 3.52S 0.06 Lon 146.23E 0.06
Dep 28.2 7.4 Half-duration 1.8
Principal Axes:
Scale 10**24 D-CM
T Val= 1.57 Plg= 4 Azm=133
N 0.15 85 358
P -1.72 4 223
Best Double Couple:Mo=1.6*10**24
NP1:Strike=268 Dip=85 Slip= 0
NP2: 358 90 -175

19 00 21 57.00 49.426S 8.049W 10km
5.0mb (2 obs.)
SOUTH ATLANTIC RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 19C
Centraid Locotion:
Origin Time 00:22: 1.5 1.0
Lat 49.52S 0.10 Lon 8.23W 0.16
Dep 10.0 FIX Half-durotion 1.7
Principal Axes:
Scale 10**24 D-CM
T Val= 1.99 Plg=18 Azm= 92
N 0.15 14 186
P -2.13 67 313
Best Double Couple:Mo=2.1*10**24
NP1:Strike=160 Dip=30 Slip=-120
NP2: 13 64 -74

19 13 17 47.35 18.190N 102.533W 28km
6.8mb (79 obs.) 8.1Msz (15 obs.)
MICHOACAN, MEXICO
FAULT PLANE SOLUTION: P-Woves
NP1:Strike=118 Dip=79 Slip= 90
NP2: 298 11 90
Principal Axes:
T Plg=56 Azm= 28
P 34 208
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
M.W.: 19S, 48C
Centroid Locotion:
Origin Time 13:18:24.5 0.2
Lat 17.91N 0.01 Lon 101.99W 0.02
Dep 21.3 0.7 Half-duration 38.4
Principal Axes:
Scale 10**27 D-CM
T Val= 11.41 Plg=62 Azm= 9
N -0.86 4 107
P -10.56 28 199
Best Double Couple:Mo=1.1*10**28
NP1:Strike=301 Dip=18 Slip= 105
NP2: 106 73 85

20 15 01 23.57 24.593N 122.280E 18km
5.3mb (44 obs.) 5.1Msz (5 obs.)
TAIWAN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 19C
Centroid Location:
Origin Time 15:01:22.6 0.4
Lat 24.42N 0.05 Lan 122.20E 0.08
Dep 10.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**24 D-CM
T Val= 1.82 Plg=18 Azm=358
N -0.04 5 267
P -1.78 71 162
Best Double Couple:Mo=1.8*10**24
NP1:Strike= 96 Dip=27 Slip= -79
NP2: 264 63 -95

21 01 37 13.47 17.802N 101.647W 31km
6.3mb (82 obs.) 7.6Msz (13 obs.)
NEAR COAST OF GUERRERO, MEXICO
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=120 Dip=77 Slip= 90
NP2: 300 13 90
Principal Axes:
T Plg=58 Azm= 30
P 32 210
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 27 No. of sta: 7
Principal Axes:
Scale 10**27 d-cm
T Val= 2.42 Plg=41 Azm= 69
N -0.01 27 313
P -2.40 37 201
Best Double Couple:Mo=2.4*10**27
NP1:Strike=229 Dip=27 Slip= 6
NP2: 134 88 117
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 21C M.W.: 18S, 43C
Centraid Location:
Origin Time 01:37:32.2 0.2
Lat 17.57N 0.01 Lon 101.42W 0.02
Dep 20.8 0.8 Half-duration 22.8
Principal Axes:
Scale 10**27 D-CM
T Val= 2.58 Plg=62 Azm= 33
N -0.19 1 300
P -2.40 28 209
Best Double Couple:Mo=2.5*10**27
NP1:Strike=296 Dip=17 Slip= 85
NP2: 121 73 91

21 14 39 36.21 3.710S 102.481W 10km
5.3mb (24 obs.) 5.1Msz (4 obs.)
NORTHERN EASTER I. CORDILLERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 21C
Centroid Locatian:
Origin Time 14:39:42.5 0.4
Lat 3.71S FIX;Lon 102.51W FIX
Dep 10.0 FIX Half-duratian 2.2
Principal Axes:
Scale 10**24 D-CM
T Val= 2.99 Plg=15 Azm=319
N -0.54 74 120
P -2.45 5 228
Best Double Couple:Mo=2.7*10**24
NP1:Strike= 3 Dip=76 Slip= 173
NP2: 94 83 14

22 05 15 43.51 8.913S 122.367E 100km
5.3mb (21 obs.)
FLORES ISLAND REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 15C
Centroid Location:
Origin Time 05:15:46.5 0.9
Lat 8.67S 0.09 Lon 122.40E 0.10
Dep 84.4 9.7 Half-duration 1.5
Principal Axes:
Scale 10**23 D-CM
T Val= 6.59 Plg=19 Azm=295
N 2.80 37 41
P -9.38 46 184
Best Double Couple:Mo=8.0*10**23
NP1:Strike=342 Dip=42 Slip=-156
NP2: 234 74 -51

22 18 23 12.27 12.510N 44.316W 10km
5.7mb (94 obs.) 5.5Msz (21 obs.)
NORTH ATLANTIC RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 30C
Centroid Location:
Origin Time 18:23:19.3 0.2
Lat 12.46N 0.03 Lon 44.47W 0.04
Dep 10.0 FIX Half-duration 2.7
Principal Axes:
Scale 10**24 D-CM
T Val= 4.68 Plg=71 Azm=235
N 0.38 11 357
P -5.06 16 90
Best Double Couple:Mo=4.9*10**24
NP1:Strike=196 Dip=31 Slip= 111
NP2: 352 62 78

23 05 08 10.68 4.104S 136.331E 10km
5.5mb (28 obs.) 5.2Msz (2 obs.)
WEST IRIAN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 9S, 16C
Centroid Location:
Origin Time 05:08:26.0 1.9
Lat 2.94S 0.17 Lon 136.26E 0.13
Dep 14.4 5.4 Half-durotion 1.6
Principal Axes:
Scale 10**23 D-CM
T Val= 9.79 Plg=62 Azm= 93
N 3.52 19 322
P -13.31 20 225
Best Double Couple:Mo=1.2*10**24
NP1:Strike=286 Dip=30 Slip= 50
NP2: 150 67 111

23 17 28 41.99 17.772S 13.740W 10km
5.2mb (49 obs.) 5.0Msz (7 obs.)
SOUTH ATLANTIC RIDGE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 28C
Centroid Location:
Origin Time 17:28:44.4 0.9
Lat 18.00S 0.09 Lan 13.75W 0.07
Dep 10.0 FIX Half-duration 1.7
Principal Axes:
Scale 10**24 D-CM
T Val= 1.37 Plg= 2 Azm=240
N -0.08 18 149
P -1.29 72 334
Best Double Couple:Mo=1.3*10**24
NP1:Strike=347 Dip=46 Slip= -65
NP2: 133 49 -113

24 15 37 44.78 28.105N 140.828E 41km
5.1mb (26 obs.) 4.4Msz (1 obs.)
BONIN ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 19C
Centroid Location:
Origin Time 15:37:45.8 0.9
Lat 28.08N 0.12 Lon 140.41E 0.11
Dep 23.1 8.4 Half-duration 1.2
Principal Axes:
Scale 10**23 D-CM
T Val= 2.92 Plg= 9 Azm=248
N 0.16 9 157

P -3.08 77 21
Best Double Couple:Mo=3.0*10**23
NP1:Strike=349 Dip=37 Slip= -75
NP2: 150 54 -101

24 20 28 52.45 6.405S 130.037E 147km
5.6mb (34 obs.)
BANDA SEA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 25 Dip=80 Slip= 90
NP2: 205 10 90
Principal Axes:
T Plg=55 Azm=295
P 35 115
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 142 No. of sta: 6
Principal Axes:
Scale 10**24 d-cm
T Val= 10.62 Plg=51 Azm=325
N -1.36 28 195
P -9.26 25 90
Best Double Couple:Mo=9.9*10**24
NP1:Strike=136 Dip=32 Slip= 27
NP2: 22 76 119
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 30C
Centroid Location:
Origin Time 20:28:59.4 0.3
Lat 6.50S 0.03 Lon 129.95E 0.04
Dep 163.1 1.2 Half-duration 3.0
Principal Axes:
Scale 10**24 D-CM
T Val= 10.28 Plg=38 Azm=282
N -2.52 2 14
P -7.76 52 106
Best Double Couple:Mo=9.0*10**24
NP1:Strike=357 Dip= 7 Slip=-106
NP2: 194 83 -88

25 07 43 57.06 18.208N 102.740W 30km
5.3mb (55 obs.) 5.2Msz (9 obs.)
MICHOACAN, MEXICO
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 26C
Centroid Location:
Origin Time 07:44: 1.4 0.5
Lat 17.93N 0.06 Lon 102.92W 0.06
Dep 22.9 2.3 Half-duration 2.6
Principal Axes:
Scale 10**24 D-CM
T Val= 4.14 Plg=69 Azm= 21
N 0.22 0 112
P -4.36 21 202
Best Double Couple:Mo=4.3*10**24
NP1:Strike=293 Dip=24 Slip= 91
NP2: 112 66 90

25 12 09 57.03 9.283N 84.033W 38km
5.2mb (56 obs.) 5.0Msz (13 obs.)
COSTA RICA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 28C
Centroid Location:
Origin Time 12:10: 2.0 0.4
Lat 9.40N 0.04 Lon 84.12W 0.05
Dep 35.6 3.4 Half-duration 2.0
Principal Axes:
Scale 10**24 D-CM
T Val= 1.52 Plg=60 Azm= 52
N 0.72 12 300
P -2.24 27 204
Best Double Couple:Mo=1.9*10**24
NP1:Strike=266 Dip=21 Slip= 54
NP2: 124 73 103

26 07 27 51.13 34.693S 17B.656W 52km
6.3mb (54 obs.) 7.0Msz (24 obs.)
SOUTH OF KERMADEC ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=225 Dip=50 Slip= 40
NP2: 107 61 132
Principal Axes:
T Plg=53 Azm= 70
P 6 168
Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting with a large reverse component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 56 No. of sta: 10
Principal Axes:
Scale 10**26 d-cm
T Val= 2.24 Plg=67 Azm= 79
N 0.45 22 272
P -2.68 4 180
Best Double Couple:Mo=2.5*10**26
NP1:Strike=248 Dip=45 Slip= 58
NP2: 110 53 118
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 18S, 42C M.W.: 11S, 24C
Centroid Location:
Origin Time 07:27:58.9 0.2
Lat 34.79S 0.02 Lon 178.40W 0.02
Dep 61.0 1.0 Half-duration 10.4
Principal Axes:
Scale 10**26 D-CM
T Val= 2.09 Plg=51 Azm= 46
N 0.66 39 233
P -2.75 3 140
Best Double Couple:Mo=2.4*10**26
NP1:Strike=196 Dip=54 Slip= 39
NP2: 81 60 137

27 03 39 08.52 9.829S 159.854E 32km
6.2mb (50 obs.) 6.9Msz (31 obs.)
SOLOMON ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=113 Dip=62 Slip= 90
NP2: 293 28 90
Principal Axes:
T Plg=73 Azm= 23
P 17 203
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 14 No. of sta: 9
Principal Axes:
Scale 10**26 d-cm
T Val= 1.08 Plg=43 Azm=334
N 0.01 29 96
P -1.08 33 207
Best Double Couple:Mo=1.1*10**26
NP1:Strike=352 Dip=30 Slip= 168
NP2: 93 84 61
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 18S, 42C M.W.: 9S, 22C
Centroid Location:
Origin Time 03:39:13.0 0.2
Lat 9.97S 0.02 Lon 159.84E 0.02
Dep 29.6 1.0 Half-duration 8.0
Principal Axes:
Scale 10**25 D-CM
T Val= 9.01 Plg=58 Azm=354
N 0.61 15 110
P -9.62 27 208
Best Double Couple:Mo=9.3*10**25
NP1:Strike=331 Dip=22 Slip= 133
NP2: 106 74 74

27 10 10 18.90 22.171S 174.606W 33km
5.8mb (45 obs.) 6.2Msz (32 obs.)
TONGA ISLANDS REGION
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 40 Dip=75 Slip= 90
NP2: 220 15 90
Principal Axes:
T Plg=60 Azm=310
P 30 130
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 25 No. of sta: 10
Principal Axes:
Scale 10**25 d-cm
T Val= 1.61 Plg=82 Azm=212
N 0.01 8 48
P -1.61 2 317
Best Double Couple:Mo=1.6*10**25
NP1:Strike= 39 Dip=43 Slip= 79
NP2: 235 48 101
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 36C
Centroid Location:
Origin Time 10:10:23.8 0.2
Lat 22.17S 0.03 Lon 174.08W 0.03
Dep 11.4 1.2 Half-duration 4.2
Principal Axes:
Scale 10**25 D-CM
T Val= 1.28 Plg=64 Azm=282
N 0.15 4 21
P -1.43 26 113
Best Double Couple:Mo=1.4*10**25
NP1:Strike=214 Dip=20 Slip= 103
NP2: 20 71 85

27 16 39 48.75 34.506N 26.599E 61km
5.6mb (70 obs.)
CRETE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 25C
Centroid Location:
Origin Time 16:39:48.4 0.3
Lat 34.05N 0.03 Lon 26.94E 0.05
Dep 43.8 4.5 Half-duration 2.4
Principal Axes:
Scale 10**24 D-CM
T Val= 3.79 Plg=19 Azm=358
N -0.96 71 180
P -2.84 1 88
Best Double Couple:Mo=3.3*10**24
NP1:Strike=135 Dip=76 Slip= 13
NP2: 41 77 166

28 03 52 46.67 17.274N 101.182W 33km
5.1mb (32 obs.) 5.0Msz (5 obs.)
NEAR COAST OF GUERRERO, MEXICO
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 8S, 17C
Centroid Location:
Origin Time 03:52:42.1 1.1
Lat 16.71N 0.08 Lon 100.76W 0.12
Dep 41.2 8.4 Half-duration 1.7
Principal Axes:
Scale 10**23 D-CM
T Val= 11.72 Plg= 9 Azm=247
N 2.38 72 8
P -14.10 15 154
Best Double Couple:Mo=1.3*10**24
NP1:Strike=291 Dip=72 Slip=-176
NP2: 200 86 -18

28 05 50 41.03 20.896S 174.077W 33km
5.2mb (24 obs.) 5.0Msz (3 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 24C
Centroid Location:
Origin Time 05:50:43.9 0.9
Lat 21.36S 0.08 Lon 173.55W 0.08
Dep 10.8 3.4 Half-duration 1.6
Principal Axes:
Scale 10**23 D-CM
T Val= 11.12 Plg=70 Azm=291
N 2.17 0 22
P -13.29 20 112
Best Double Couple:Mo=1.2*10**24
NP1:Strike=202 Dip=25 Slip= 90
NP2: 22 65 90

28 14 50 15.29 41.581N 22.254E 7km
5.0mb (35 obs.)
YUGOSLAVIA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 22C
Centroid Location:
Origin Time 14:50:20.0 0.6
Lat 41.22N 0.07 Lon 22.18E 0.12
Dep 20.5 7.6 Half-duration 1.6
Principal Axes:
Scale 10**23 D-CM
T Val= 8.89 Plg= 0 Azm=160
N 0.14 61 250
P -9.04 29 70
Best Double Couple:Mo=9.0*10**23
NP1:Strike=209 Dip=70 Slip=-158
NP2: 111 70 -22

THE GREAT MICHOACAN, MEXICO EARTHQUAKE OF SEPTEMBER 19, 1985

At least 9,500 people were killed, about 30,000 were injured, more than 100,000 people were left homeless, and severe damage was caused in parts of Mexico City and in several states of central Mexico. According to some sources, the death toll from this earthquake may be as high as 35,000 It is estimated that the quake seriously affected an area of approximately 625,000 square kilometers, caused between 3 and 4 billion dollars of damage, and was felt by almost 20 million people. Four hundred twelve buildings collapsed and another 3,124 were seriously damaged in Mexico City. About 60 percent of the buildings were destroyed at Ciudad Guzman, Jalisco. Damage also occurred in the states of Colima, Guerrero, Mexico, Michoacan, Morelos, parts of Veracruz and in other areas of Jalisco.

The maximum Modified Mercalli intensity was IX at Mexico City, Ciudad Guzman and the Pacific Coast towns of Lazaro Cardenas, Ixtapa and La Union. Felt reports were received from Mazatlan, Sinaloa to Tuxtla Gutierrez, Chiapas, and as far away as Guatemala City, Guatemala and Houston, Texas. The quake was also felt at Brownsville, McAllen, Corpus Christi, Ingram and El Paso, Texas. It was felt very strongly by people on board the ship "Nedlloyd Kyoto" located at 17° 35.4' North, 102° 36.9' West.

Landslides caused damage at Atenquique, Jalisco and near Jala, Colima. Rockslides were reported along the highways in the Ixtapa area and sand blows and ground cracks were observed at Lazaro Cardenas.

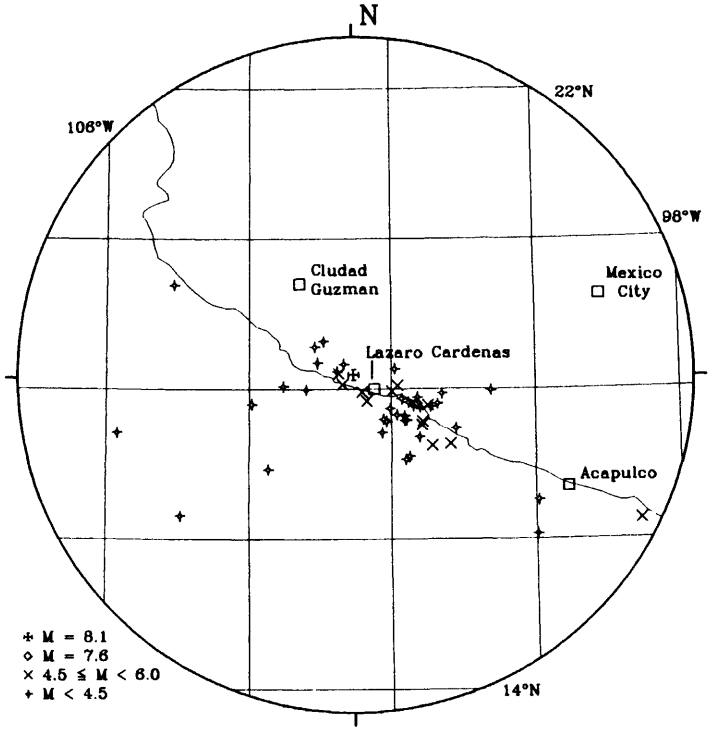
A tsunami was generated which caused some damage at Lazaro Cardenas, Zihuatenejo and Manzanillo. Estimated wave heights were 3 meters at Zihuatenejo and 2.8 meters at Lazaro Cardenas. Tide stations recorded maximum wave heights (peak-to-trough) of 1.4 meters at Acapulco, Mexico, 60 cm. at La Libertad, Ecuador; 58 cm. at Acajutla, El Salvador; 24 cm. at Kahului, Hawaii and at Pago Pago, American Samoa; 22 cm at Hilo, Hawaii; 21 cm. at Baltra Island, Galapagos; 14 cm. at Apia, Samoa; 7 cm. at Rikitea, Gambier Islands; and 5 cm. at Papeete, Tahiti. There were some reports, still unconfirmed, that some ships off the Pacific coast of Mexico observed unusually heavy seas up to 30 meters high near the time of the earthquake, and that some fishing boats were reported missing.

Seiches were observed in East Galveston Bay, Texas and in swimming pools in Texas, New Mexico, Colorado and Idaho. Water well fluctuations were recorded at Ingleside, Texas; Santa Fe, New Mexico; Rolla, Missouri; Hillsborough County, Florida; and Smithsburg, Maryland.

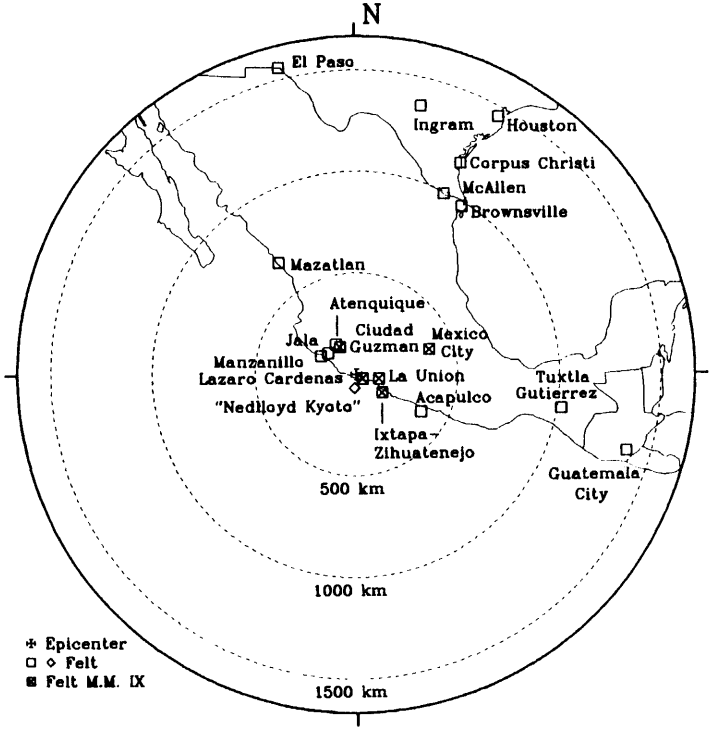
A large percentage of the buildings which were damaged in Mexico City were between 8 and 18 stories high, indicating possible resonance effects with dominant two-second period horizontal ground accelerations which were recorded in the area.

[compiled from press reports, Foreign Broadcast Information Service and personal communication with Cinna Lomnitz, Universidad Nacional Autonoma de Mexico, Mexico City and Lloyd S. Cluff, Pacific Gas and Electric Co., San Francisco.]

Michoacan, Mexico Earthquake and Aftershocks, September 1985



Extent of Felt Reports for Michoacan Earthquake of September 19, 1985



```
29 05 28 18.94  23.288S 179.241E 541km |                                    |
   4.9mb ( 12 obs.)                    |                                    |
   SOUTH OF FIJI ISLANDS               |                                    |
   CENTROID, MOMENT TENSOR     (HRV)   |                                    |
   Data Used: GDSN                     |                                    |
   L.P.B.: 13S, 28C                    |                                    |
   Centraid Locatian:                  |                                    |
   Origin Time        05:28:25.2 0.3   |                                    |
   Lat 23.28S 0.05 Lan 179.18E 0.04    |                                    |
   Dep 566.2 1.9 Half-duratian  2.3    |                                    |
   Principal Axes:                     |                                    |
     Scale 10**24 D-CM                 |                                    |
     T  Val=  2.84  Plg= 8  Azm= 49    |                                    |
     N        0.08      22      315    |                                    |
     P       -2.91      66      157    |                                    |
   Best Double Cauple:Mo=2.9*10**24    |                                    |
    NP1:Strike=162 Dip=42 Slip= -56    |                                    |
    NP2:       300     56      -117    |                                    |
                                       |                                    |
```

Compiled by Willis S. Jacobs, Leanard E. Kerry, Jahn H. Minsch, Russell E. Needham, Waverly J. Persan, Bruce W. Presgrave and William H. Schmieder.

Correctians to Manthly Listing far August, 1985

1. Delete comments far event af 18:07:48.2 UTC an August 21.

2. The fallawing event should be added:

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AUGUST 1985
  22   06 17 39.6  43.125 N  110.814 W    5 G  4.3       0.9   16  WYOMING. ML 4.3 (NEIS). Felt (IV) at Alpine.
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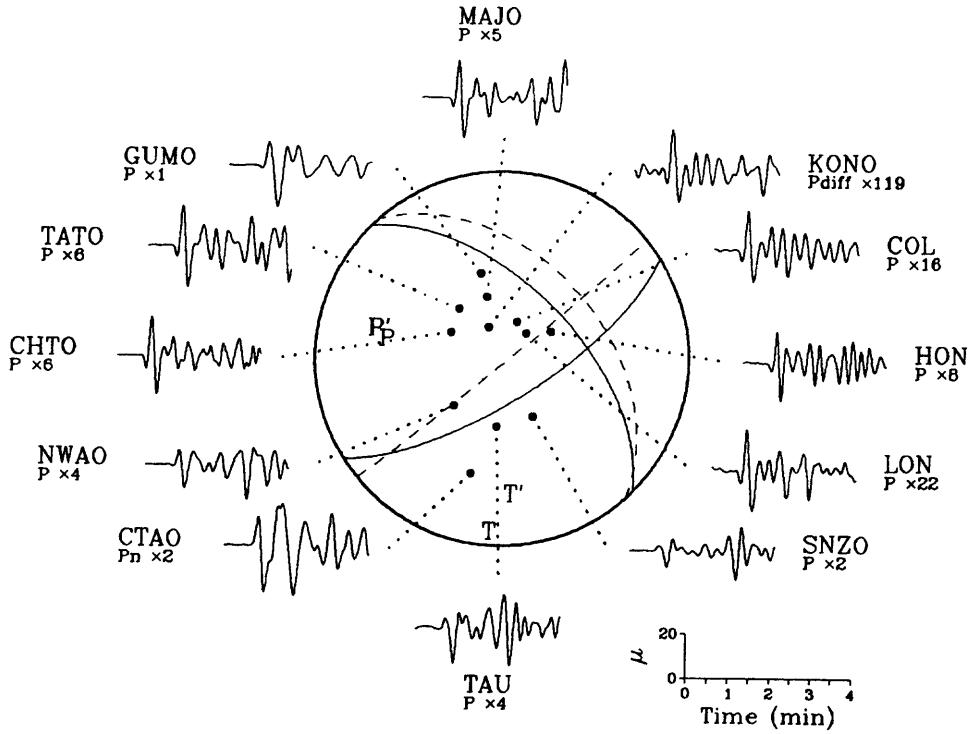
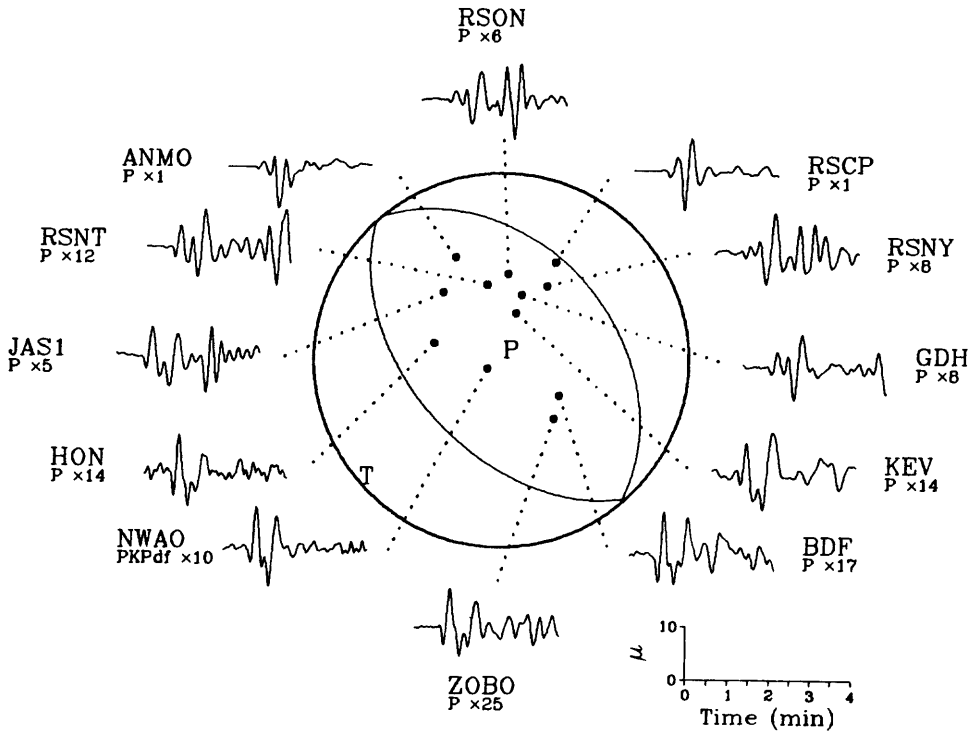
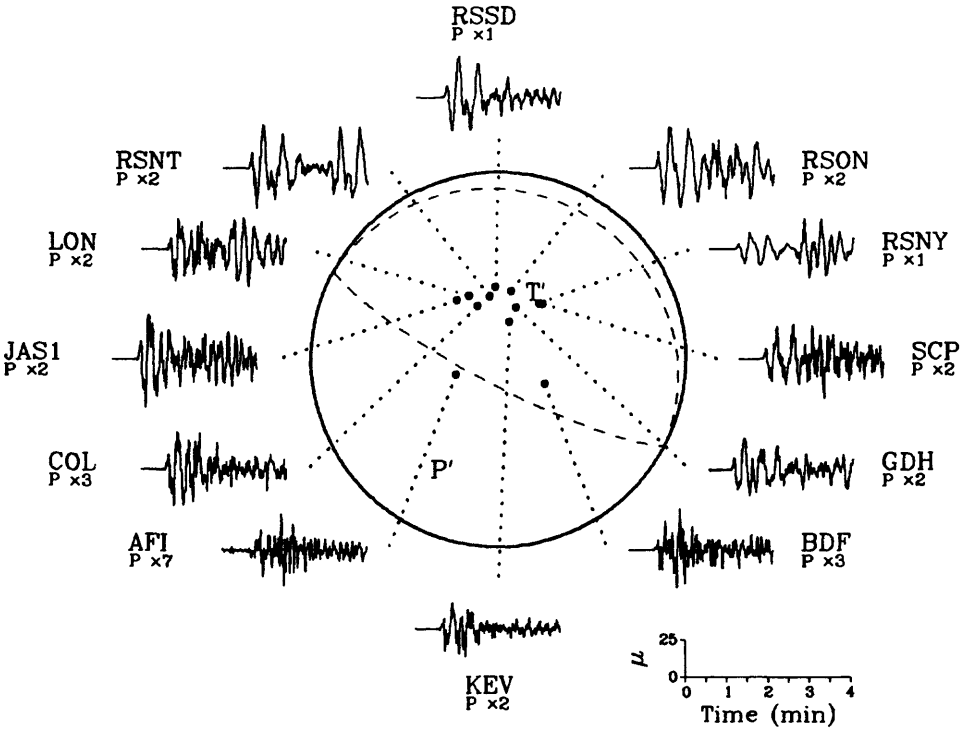
10 September 1985 04:07:47.44
New Britain Region



15 September 1985 07:57:53.59
Oaxaca, Mexico

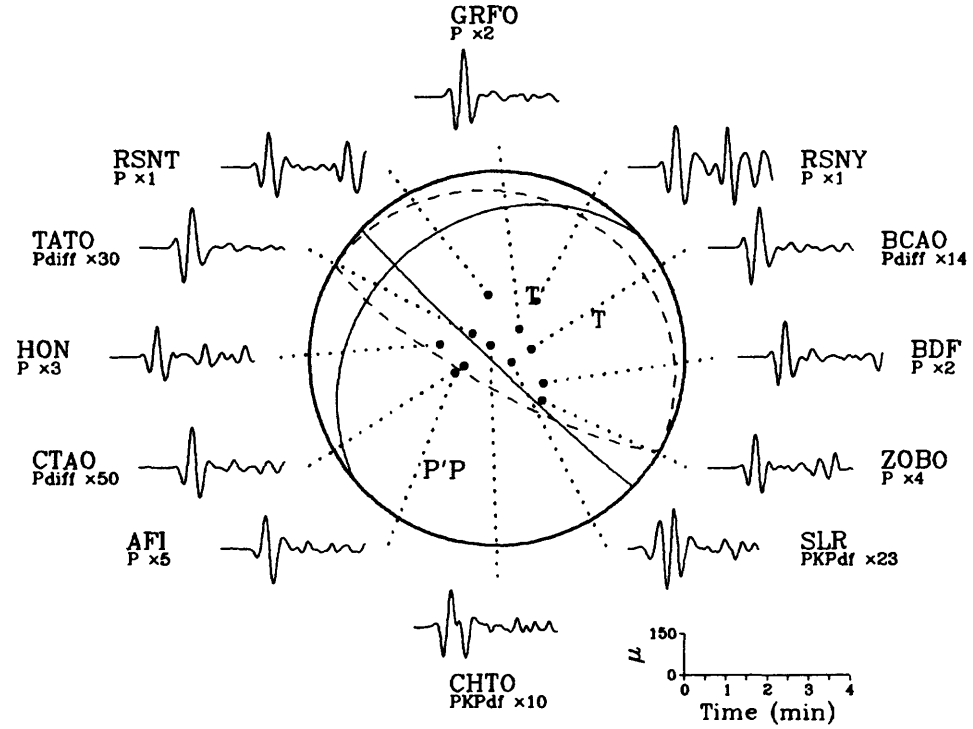


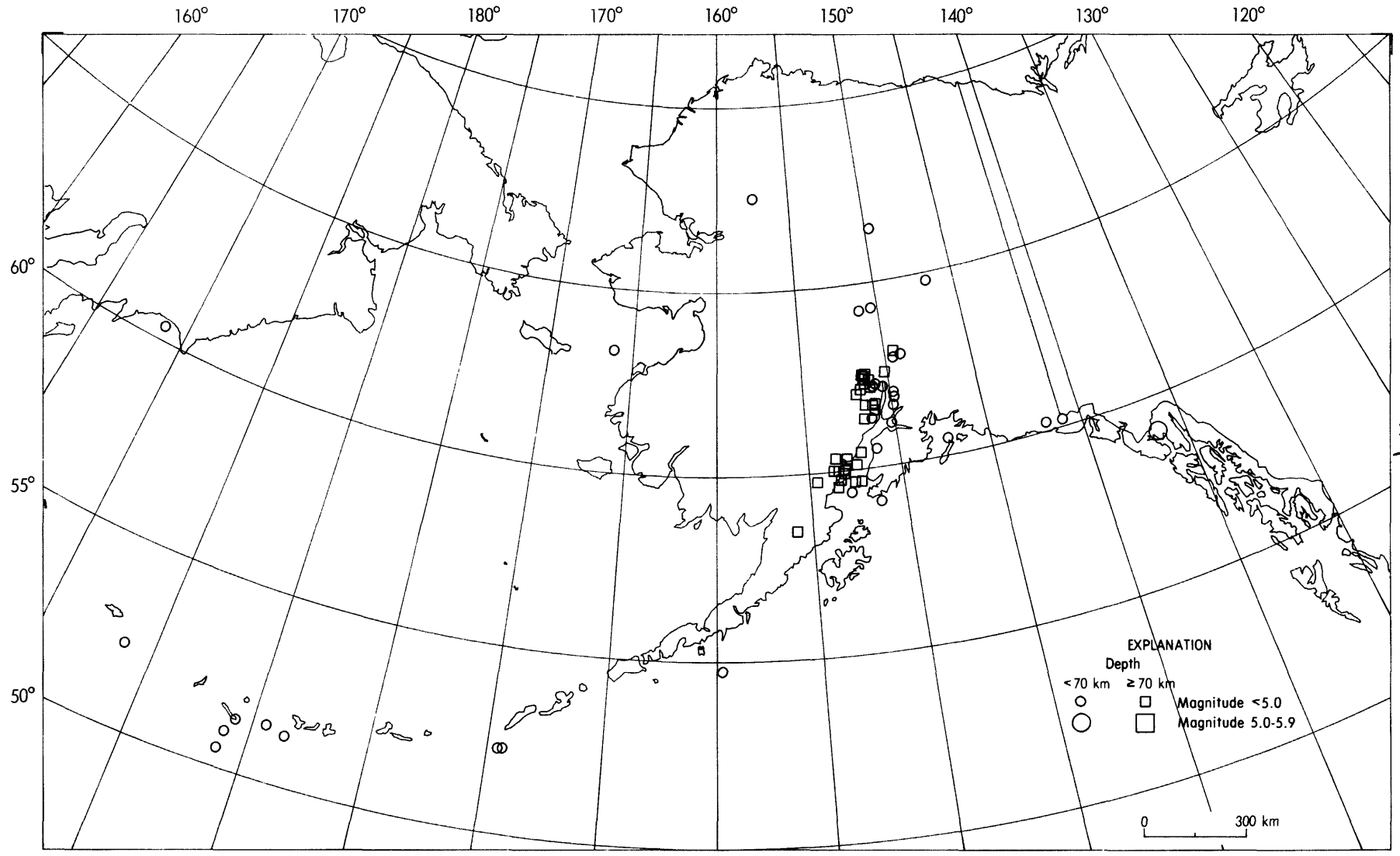
19 September 1985 13:17:47.35
Michoacan, Mexico



Since most of the long-period channels were saturated during this event, intermediate-period band waveforms are shown instead. Note that the approximation for converting counts to displacement is not as useful for this band as for long-period.

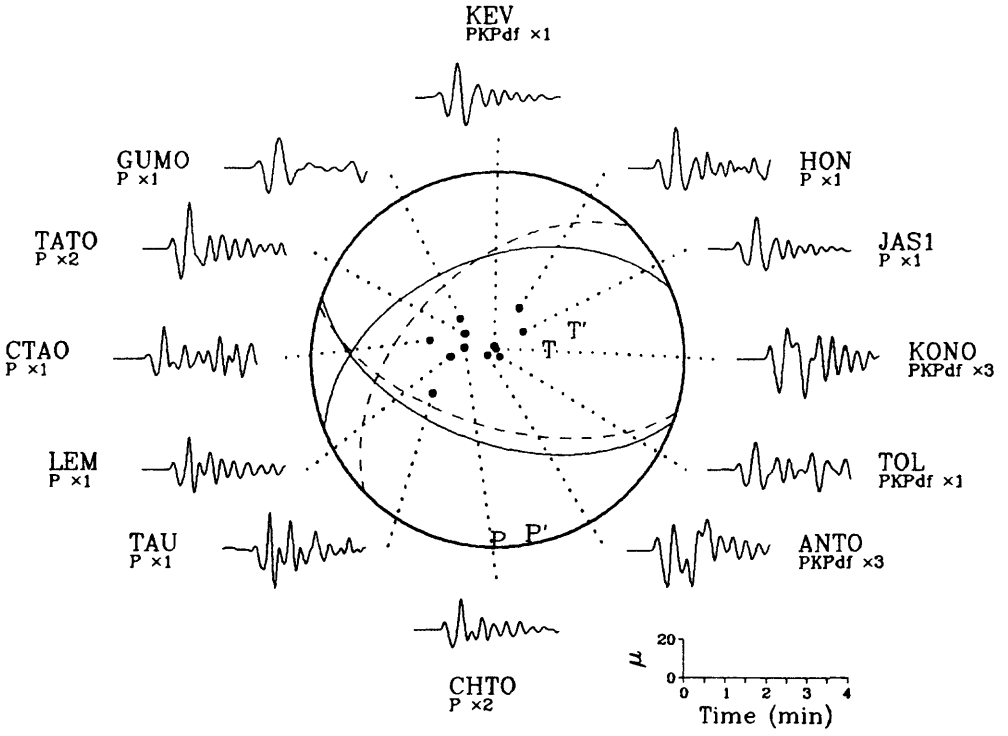
21 September 1985 01:37:13.47
Near Coast of Guerrero, Mexico



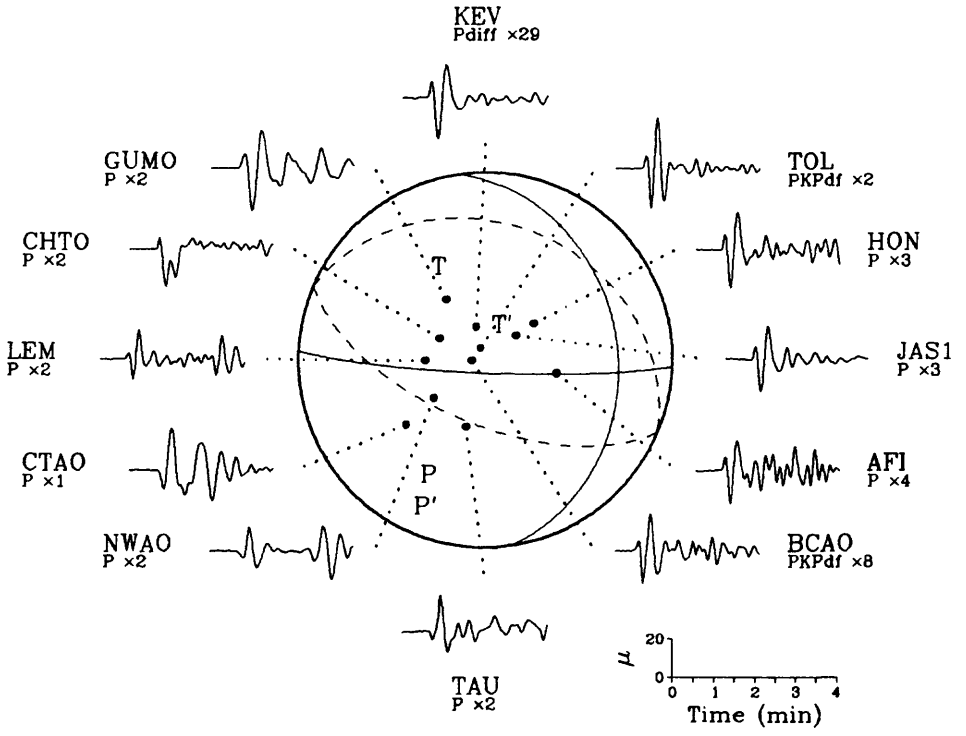


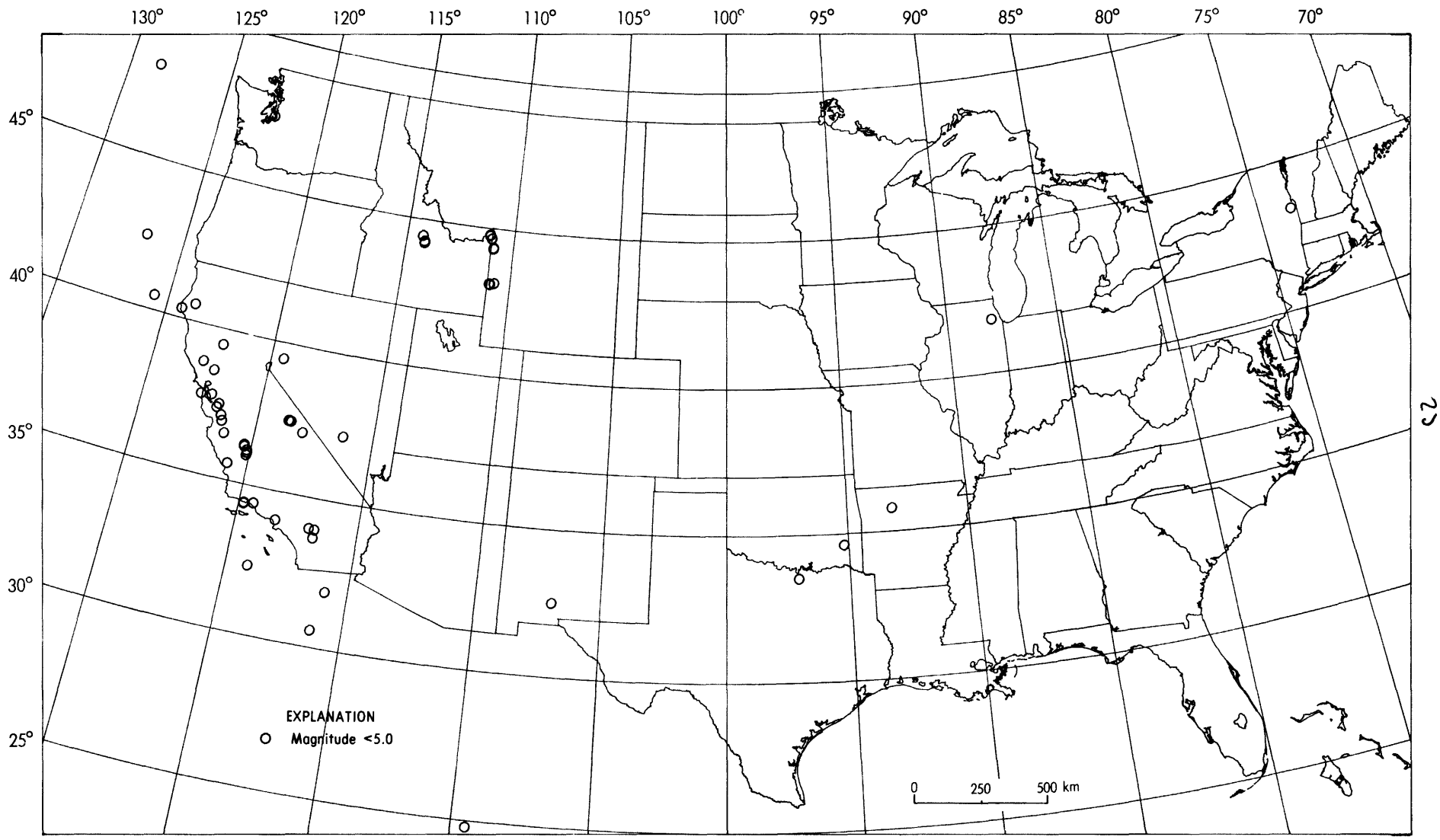
Earthquake epicenters in Alaska for September, 1985 (C. Stover).

26 September 1985 07:27:51.13
South of Kermadec Islands

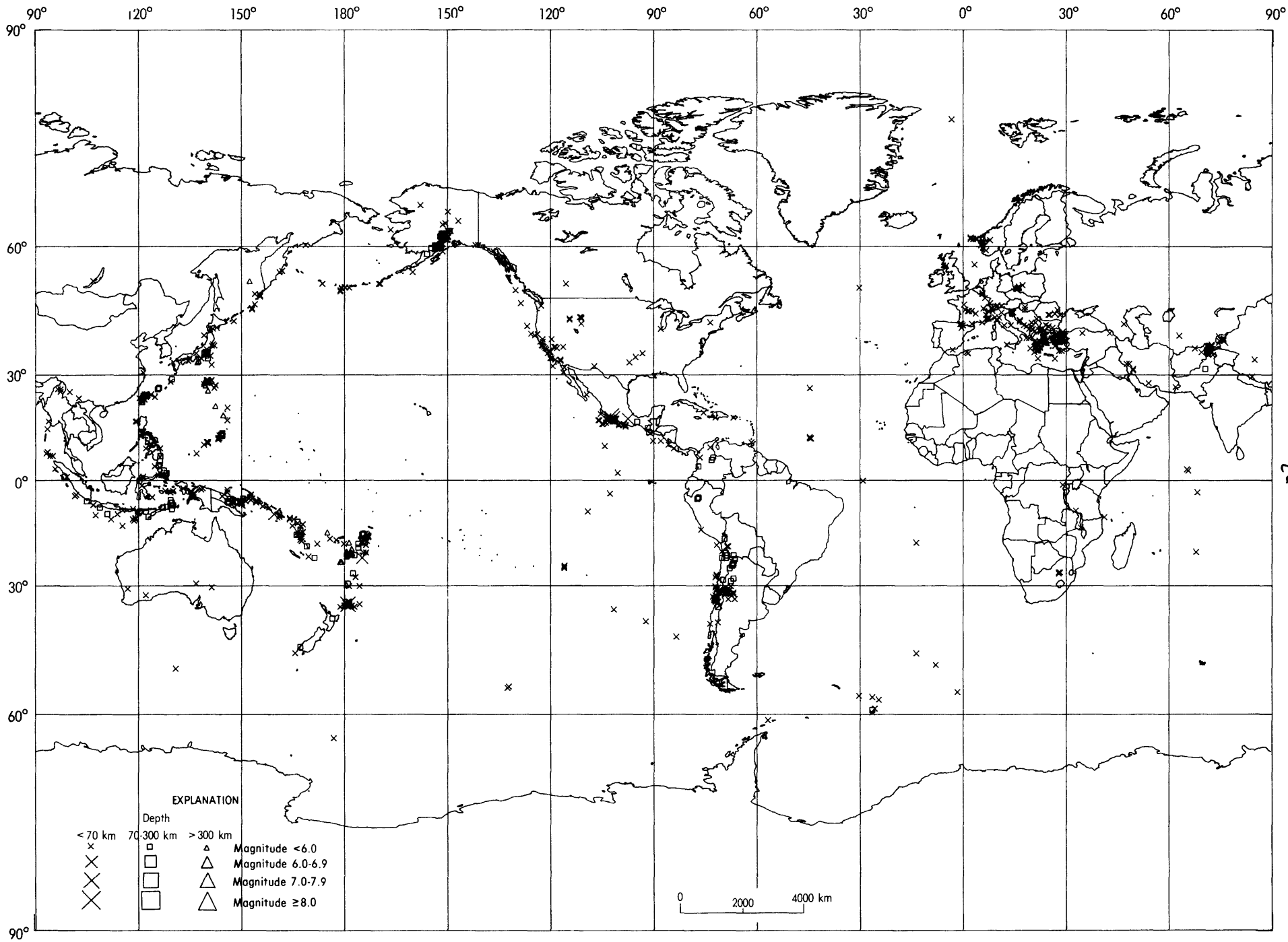


27 September 1985 03:39:08.52
Solomon Islands





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



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

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