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U.S. GEOLOGICAL SURVEY

**PRELIMINARY DETERMINATION OF EPICENTERS
MONTHLY LISTING**

JULY-SEPTEMBER 1997

NATIONAL EARTHQUAKE INFORMATION CENTER

Open-File Report

97-600-C



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1999

Preliminary Determination of Epicenters

Monthly Listing

National Earthquake Information Center

JULY 1997

ORIGIN TIME				GEOGRAPHIC		DEPTH		MAGNITUDE		SD	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS	
UTC				COORDINATES		GS				NO.		
DAY	HR	MN	SEC	LAT	LONG		MB	Msz		STA		
										USED		
01	00	08	01.5?	5.91 S	148.72 E	100 G	4.2		0.7	9	NEW BRITAIN REGION, P.N.G.	
01	00	49	26.1?	39.37 N	21.01 E	10 G			1.1	8	GREECE	
01	00	50	12.3	1.694 N	126.592 E	33 N	4.7		1.2	33	NORTHERN MOLUCCA SEA	
01	01	15	14.3?	5.54 S	145.27 E	70 ?	3.9		1.1	9	EASTERN NEW GUINEA REG., P.N.G.	
01	01	40	35.3?	55.575 N	158.428 W	71				19	ALASKA PENINSULA. <AEIC>.	
01	03	15	11.3?	33.185 N	115.588 W	4				3	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).	
01	03	40	07.3	42.655 N	144.596 E	65 D	5.1		0.8	223	HOKKAIDO, JAPAN REGION. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 03:40:07.3; Lat 42.41 N; Lon 144.46 E; Dep 82.4; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=-6.00, Plg=35, Azm=355; (N) Val=0.01, Plg=6, Azm=89; (P) Val=-6.01, Plg=54, Azm=188; Best double couple: Mo=6.0*10**16 Nm; NP1: Strike=57, Dip=11, Slip=-123; NP2: Strike=270, Dip=81, Slip=-84.	
01	04	27	45.1?	42.008 N	23.554 E	10 G			1.0	13	BULGARIA	
01	06	17	05.7?	35.91 S	71.58 W	140 G			0.3	10	CENTRAL CHILE. MD 3.1 (SAN).	
01	06	55	10.5?	0.68 S	135.40 E	33 N	4.2		1.0	10	IRIAN JAYA REGION, INDONESIA	
01	07	33	09.3	9.270 S	138.984 E	10 G	4.8		1.2	28	ARAFURA SEA	
01	09	00	16.1*	36.079 N	139.838 E	46 D			1.0	17	EASTERN HONSHU, JAPAN	
01	09	05	40.1?	31.62 S	70.11 W	145 G			0.4	10	CHILE-ARGENTINA BORDER REGION. MD 3.4 (SAN).	
01	09	07	26.1	29.639 N	129.368 E	183 D	4.5		0.9	54	RYUKYU ISLANDS	
01	09	51	22.5*	28.450 N	143.336 E	40 D	4.0		1.2	13	BONIN ISLANDS REGION	
01	10	01	36.3*	28.501 N	143.201 E	39 D	4.2		1.1	20	BONIN ISLANDS REGION	
01	10	36	16.8?	43.198 N	5.922 E	10 G			0.5	13	NEAR SOUTH COAST OF FRANCE. ML 2.7 (STR). Mining induced event in the Gardanne area.	
01	10	37	35.2*	31.083 S	178.595 W	200 G	4.2		0.7	13	KERMADEC ISLANDS REGION	
01	11	16	18.3?	45.98 S	72.71 W	33 N	4.1		1.3	9	SOUTHERN CHILE	
01	11	25	43.4*	41.299 N	20.473 E	10 G			0.9	11	ALBANIA. ML 3.0 (IJU).	
01	11	30	18.2?	22.77 S	63.64 W	573 ?	3.9		0.5	7	SALTA PROVINCE, ARGENTINA	
01	11	37	34.2*	14.964 S	173.914 W	33 N	4.2		0.9	12	SAMOA ISLANDS REGION	
01	11	42	48.2	18.842 N	146.943 E	33 N	4.6 4.2		1.0	47	MARIANA ISLANDS	
01	11	55	44.5*	24.864 N	95.289 E	150 G	3.9		1.1	15	MYANMAR	
01	12	29	17.2*	36.509 S	52.393 E	10 G	4.6 4.3		1.0	18	SOUTHWEST INDIAN RIDGE	
01	12	34	10.2*	18.796 N	147.197 E	33 N	4.2 4.1		1.2	20	MARIANA ISLANDS REGION	
01	13	05	15.8?	35.794 N	117.636 W	5				11	CENTRAL CALIFORNIA. <PAS-P>. ML 2.9 (PAS).	
01	14	27	47.9*	42.363 N	142.850 E	79 D	4.0		1.0	24	HOKKAIDO, JAPAN REGION	
01	15	22	07.6*	28.403 N	143.570 E	33 N	4.2		1.1	18	BONIN ISLANDS REGION	
01	16	31	32.1?	20.91 S	178.84 W	600 G	4.0		0.9	11	FIJI ISLANDS REGION	
01	17	15	41.3*	15.082 S	173.767 W	33 N	4.4		1.2	28	TONGA ISLANDS	
01	17	37	52.5?	35.794 N	117.636 W	5				31	CENTRAL CALIFORNIA. <PAS-P>. ML 3.1 (PAS).	
01	18	15	17.7?	43.417 N	5.401 E	10 G			0.9	16	NEAR SOUTH COAST OF FRANCE. ML 3.0 (STR). Mining induced event in the Gardanne area.	
01	18	19	42.2?	19.12 N	121.41 E	33 N			1.4	8	PHILIPPINE ISLANDS REGION	
01	18	24	24.4	19.080 N	121.196 E	33 N	5.1		0.9	70	PHILIPPINE ISLANDS REGION. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 18:24:26.5; Lat 19.23 N; Lon 121.14 E; Dep 27.2; Half- duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=-1.58, Plg=65, Azm=153; (N) Val=0.11, Plg=16, Azm=26; (P) Val=-1.69, Plg=19, Azm=290; Best double couple: Mo=1.6*10**17 Nm; NP1: Strike=356, Dip=29, Slip=56; NP2: Strike=213, Dip=66, Slip=107.	
01	18	31	23.7*	1.656 N	98.752 E	100 G	4.2		1.0	11	NORTHERN SUMATERA, INDONESIA	
01	19	13	05.6?	61.500 N	152.108 W	9				72	SOUTHERN ALASKA. <AEIC>. ML 3.1 (AEIC), 3.2 (PMR).	
01	20	00	34.6	0.072 N	123.362 E	100 G	4.7		1.1	51	MINAHASSA PENINSULA, SULAWESI	
01	21	12	20.5?	33.14 N	67.85 W	10 G	3.6		0.8	6	NORTH ATLANTIC OCEAN	
01	21	39	23.3?	24.84 S	177.13 W	200 G	4.1		1.3	9	SOUTH OF FIJI ISLANDS	
01	23	04	31.6*	8.821 S	124.124 E	33 N	4.1		0.9	9	TIMOR REGION, INDONESIA	
01	23	33	06.1*	0.036 S	126.104 E	33 N	4.5		1.0	16	SOUTHERN MOLUCCA SEA	
01	23	43	10.2?	0.12 S	125.77 E	33 N	4.2		0.9	9	SOUTHERN MOLUCCA SEA	
02	00	03	23.0?	31.281 N	115.472 W	6 G	4.0			80	BAJA CALIFORNIA, MEXICO. <PAS-P>. ML 4.3 (PAS). MD 4.3 (ECX). Felt in the epicentral area.	

02	02	15	18.4*	31.831 S	70.453 W	151 *	1.0	16	CHILE-ARGENTINA BORDER REGION. MD 4.2 (SAN).	
02	02	58	21.7*	37.172 N	3.703 W	10 G	0.8	10	SPAIN. mbLg 2.4 (MDD).	
02	03	20	02.0	42.707 N	0.726 E	10 G	1.1	76	PYRENEES. ML 4.0 (LDG), 3.9 (STR). Felt (IV) in the eastern Pyrenees and (III) in the Benasque area, Spain.	
02	04	46	50.9*	44.67 N	7.20 E	5 G	0.4	5	NORTHERN ITALY. ML 2.0 (LDG).	
02	05	09	31.3*	63.042 N	150.727 W	118		28	CENTRAL ALASKA. <AEIC>.	
02	05	31	31.5*	2.040 N	98.701 E	100 G	4.7	1.0	8	NORTHERN SUMATERA, INDONESIA
02	05	33	30.9*	14.448 S	167.277 E	100 G	4.5	0.8	11	VANUATU ISLANDS
02	05	58	43.2*	24.29 N	141.83 E	193 ?		1.2	5	VOLCANO ISLANDS REGION
02	06	14	23.2	12.804 N	142.502 E	186 *	4.4	0.8	26	SOUTH OF MARIANA ISLANDS
02	06	59	34.1*	34.000 S	179.505 W	33 N	4.7	1.0	26	SOUTH OF KERMADEC ISLANDS
02	07	18	51.6*	9.86 N	104.49 W	10 G	4.2	1.4	9	OFF COAST OF MEXICO
02	07	22	36.0*	58.285 N	154.751 W	11		39	ALASKA PENINSULA. <AEIC>. ML 3.5 (AEIC), 3.2 (PMR).	
02	07	28	10.8*	20.050 S	68.902 W	119 D	4.1	1.5	13	CHILE-BOLIVIA BORDER REGION
02	08	01	28.4*	51.77 N	175.73 W	33 N		0.6	4	ANDREANOF ISLANDS, ALEUTIAN IS.
02	08	26	57.2*	5.609 S	128.393 E	300 G	4.0	1.2	11	BANDA SEA
02	09	38	40.7	36.443 N	3.104 W	10 G	4.6 4.3	1.3	118	STRAIT OF GIBRALTAR. mbLg 4.6 (MDD). Felt (IV) in the Adra area, Spain.
02	09	43	42.3*	32.001 S	66.933 W	133 ?	4.5	1.2	15	SAN LUIS PROVINCE, ARGENTINA. MD 4.2 (SAN).
02	09	51	58.4*	36.574 N	3.161 W	10 G		1.0	16	STRAIT OF GIBRALTAR. mbLg 3.2 (MDD).
02	09	52	42.9*	36.613 N	3.079 W	10 G		1.1	10	STRAIT OF GIBRALTAR. mbLg 2.6 (MDD).
02	09	55	12.1*	40.423 N	125.577 W	5			41	OFF COAST OF NORTHERN CALIFORNIA. <GM-P>. Mw 3.8 (BRK). MD 3.4 (GM). ML 3.9 (BRK). Scalar Moment (BRK): Mo=6.3*10**14 Nm.
02	10	04	57.5*	36.52 N	3.19 W	10 G		1.2	7	STRAIT OF GIBRALTAR. mbLg 2.8 (MDD).
02	10	05	36.1*	28.655 N	142.955 E	33 N		1.0	11	BONIN ISLANDS REGION
02	10	13	09.2*	6.980 S	154.774 E	33 N		1.3	10	SOLOMON ISLANDS
02	10	33	08.6*	15.236 N	144.639 E	33 N		0.9	9	MARIANA ISLANDS REGION
02	10	51	43.4*	35.190 N	25.271 E	33 N	3.7	1.3	15	CRETE
02	11	03	20.8*	1.129 S	100.164 E	100 G	3.9	0.9	11	SOUTHERN SUMATERA, INDONESIA
02	11	46	41.0*	22.862 S	66.617 W	230 *	4.2	1.2	32	JUJUY PROVINCE, ARGENTINA
02	12	01	13.1	42.716 N	0.660 E	10 G		1.1	16	PYRENEES. mbLg 3.2 (MDD). ML 3.0 (LDG), 2.7 (STR).
02	12	01	58.7*	34.424 N	73.721 E	33 N		1.0	12	PAKISTAN
02	12	40	50.2*	65.143 N	133.811 W	0 G			72	NORTHERN YUKON TERRITORY, CANADA. <PGC-P>. ML 4.4 (PGC), 4.5 (AEIC).
02	12	53	05.1	36.383 N	3.224 W	10 G	4.0	1.3	54	STRAIT OF GIBRALTAR. mbLg 4.4 (MDD). Felt (V) in the Adra area, Spain.
02	13	39	04.4*	12.436 N	144.135 E	66 *	3.8	0.9	13	SOUTH OF MARIANA ISLANDS
02	13	52	43.5*	36.096 N	117.667 W	1			28	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.3 (PAS), 3.2 (GS).
02	14	16	29.2*	12.271 N	144.312 E	58 ?	3.8	1.4	15	SOUTH OF MARIANA ISLANDS
02	15	20	21.4*	36.616 N	3.151 W	5 G		0.6	7	STRAIT OF GIBRALTAR. mbLg 2.9 (MDD).
02	15	50	48.0*	18.140 N	66.946 W	33 N		0.3	5	PUERTO RICO REGION. MD 2.4 (MPR).
02	16	25	47.4*	43.445 N	5.431 E	10 G		0.5	15	NEAR SOUTH COAST OF FRANCE. ML 2.6 (STR). Mining induced event in the Gardanne area.
02	16	56	48.8*	36.442 N	3.187 W	10 G		1.2	13	STRAIT OF GIBRALTAR. mbLg 3.0 (MDD).
02	17	33	05.7	36.445 N	3.180 W	10 G	4.0	1.2	49	STRAIT OF GIBRALTAR. mbLg 4.2 (MDD). Felt (IV) in the Adra area, Spain.
02	17	39	16.3	44.227 N	7.704 E	10 G		0.8	26	NORTHERN ITALY. ML 2.8 (LDG), 2.6 (STR).
02	17	58	30.4*	42.514 N	139.686 E	33 N		1.4	5	HOKKAIDO, JAPAN REGION
02	18	10	40.6*	36.263 N	3.255 W	10 G		0.8	6	STRAIT OF GIBRALTAR. mbLg 2.8 (MDD).
02	18	11	23.3*	6.030 S	147.708 E	33 N	4.2	0.7	11	EASTERN NEW GUINEA REG., P.N.G.
02	18	27	54.3	40.176 N	142.674 E	33 N	4.5 4.0	1.2	36	NEAR EAST COAST OF HONSHU, JAPAN
02	19	48	56.2*	6.555 S	128.377 E	398 ?	4.4	1.4	16	BANDA SEA
02	19	50	45.5*	30.11 N	94.57 E	33 N	3.9	1.5	8	XIZANG
02	19	59	50.1*	10.14 N	126.21 E	33 N		1.2	7	PHILIPPINE ISLANDS REGION
02	20	23	23.9*	10.057 S	161.130 E	115 D		0.8	12	SOLOMON ISLANDS
02	20	40	52.2*	47.436 N	10.866 E	10 G		0.7	7	AUSTRIA. ML 1.7 (VIE).
02	22	28	05.4*	43.609 N	89.863 E	33 N		0.7	12	NORTHERN XINJIANG, CHINA
02	23	30	42.3*	36.394 N	3.194 W	10 G		0.9	10	STRAIT OF GIBRALTAR. mbLg 3.0 (MDD).
02	23	43	51.5*	42.781 N	7.082 W	10 G		0.9	7	SPAIN. mbLg 3.3 (MDD). Felt (II) in the Sarria-Becerrea area.
03	00	18	07.2*	36.365 N	3.220 W	10 G		1.1	12	STRAIT OF GIBRALTAR. mbLg 3.2 (MDD).
03	00	50	36.5	47.223 N	10.885 E	10 G		0.9	8	AUSTRIA. ML 2.0 (VIE), 1.7 (FUR).
03	01	39	10.2	44.584 N	10.170 E	10 G		1.1	18	NORTHERN ITALY. ML 2.3 (VIE).
03	02	16	17.8*	59.29 S	26.69 W	150 G		1.1	12	SOUTH SANDWICH ISLANDS REGION
03	02	17	08.5*	38.732 N	21.519 E	33 N	3.6	0.6	12	GREECE
03	03	53	45.0*	63.352 N	151.320 W	13			39	CENTRAL ALASKA. <AEIC>. ML 3.5 (AEIC), 3.8 (PMR). Felt at Kantishna.
03	04	26	43.7*	36.412 N	3.240 W	10 G		1.1	13	STRAIT OF GIBRALTAR. mbLg 3.0 (MDD).
03	04	34	50.7	45.586 N	6.068 E	10 G		1.4	19	FRANCE. ML 2.5 (LDG).
03	04	44	18.6*	18.456 N	121.175 E	33 N	4.0	1.1	15	LUZON, PHILIPPINE ISLANDS
03	04	47	19.0	3.026 N	79.328 W	33 N	4.6	1.4	55	SOUTH OF PANAMA
03	04	53	13.6*	18.259 N	67.210 W	33 N		0.3	6	MONA PASSAGE. MD 2.8 (MPR).
03	05	19	47.3*	6.723 S	130.033 E	150 G	4.3	1.4	7	BANDA SEA
03	05	57	34.5*	52.414 N	158.552 E	33 N		0.2	6	NEAR EAST COAST OF KAMCHATKA
03	06	18	51.9*	34.974 N	116.811 W	0			22	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
03	06	22	54.6*	60.397 N	43.025 W	10 G	3.8	1.2	13	WESTERN GREENLAND
03	06	34	31.1*	16.240 S	73.575 W	62 *		1.0	15	NEAR COAST OF PERU
03	08	01	40.8*	26.408 N	143.679 E	33 N		0.8	5	BONIN ISLANDS REGION
03	08	06	04.4*	37.75 N	140.61 E	10 G		0.9	5	EASTERN HONSHU, JAPAN
03	10	02	00.3*	36.331 N	3.223 W	10 G		1.2	12	STRAIT OF GIBRALTAR. mbLg 3.2 (MDD).
03	10	20	54.3	3.744 S	140.069 E	33 N	5.0 4.3	1.0	49	IRIAN JAYA, INDONESIA. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 10:21:02.6; Lat 3.61 S; Lon 140.24 E; Dep 19.2; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=0.72, Plg=5, Azm=289; (N) Val=0.39, Plg=58, Azm=191; (P) Val=-1.11, Plg=31, Azm=22; Best double couple: Mo=9.1*10**16 Nm; NP1: Strike=61, Dip=65, Slip=-20; NP2: Strike=160, Dip=72, Slip=-153.
03	10	46	01.6*	18.10 S	168.56 E	100 G		0.9	7	VANUATU ISLANDS
03	11	29	28.1*	44.35 N	7.68 E	10 G		0.3	5	NORTHERN ITALY. ML 2.3 (LDG).
03	12	04	48.5*	32.49 S	71.77 W	10 G		0.4	9	NEAR COAST OF CENTRAL CHILE. MD 3.7 (SAN).
03	12	59	30.1*	36.369 N	71.191 E	242 *	4.1	1.0	21	AFGHANISTAN-TAJIKISTAN BORD REG.

03	13	07	30.8%	37.897	N	29.323	E	10	G	1.1	6	TURKEY. MD 3.4 (ISK).	
03	13	16	02.1%	59.900	N	150.968	W	44			27	KENAI PENINSULA, ALASKA. <AEIC>. ML 3.5 (AEIC), 3.6 (PMR).	
03	13	56	30.2*	41.902	S	88.283	E	10	G	4.3	13	SOUTHEAST INDIAN RIDGE	
03	15	24	33.5%	59.728	N	152.635	W	87			19	SOUTHERN ALASKA. <AEIC>.	
03	15	48	07.6%	36.35	N	3.23	W	33	N		1.4	5	STRAIT OF GIBRALTAR. mbLg 2.9 (MDD).
03	16	10	29.8	51.409	N	179.397	W	33	N	4.8	1.2	77	ANDREANOF ISLANDS, ALEUTIAN IS.
03	17	05	08.9*	52.453	N	168.623	W	33	N	4.5	1.4	28	FOX ISLANDS, ALEUTIAN ISLANDS
03	17	49	37.5%	35.791	N	117.638	W	5		4.0	63	CENTRAL CALIFORNIA. <PAS-P>. Mw 4.1 (BRK). ML 4.3 (PAS), 4.5 (BRK). Felt (IV) at China Lake. Also felt in the Ridgecrest area.	
Moment Tensor (BRK): Dep 5; Principal axes (scale 10**15 Nm): (T) Val=-1.62, Plg=4, Azm=294; (N) Val=0.00, Plg=77, Azm=40; (P) Val=-1.62, Plg=12, Azm=203; Best double couple: Mo=1.7*10**15 Nm; NP1: Strike=248, Dip=84, Slip=-11; NP2: Strike=339, Dip=79, Slip=-174.													
03	18	07	13.7	50.978	N	156.258	E	63	D	4.8	1.0	70	KURIL ISLANDS
03	19	09	46.5%	37.252	N	3.721	W	10	G		1.3	8	SPAIN. mbLg 2.3 (MDD).
03	19	17	50.9%	32.193	N	115.412	W	6	G		21	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.5 (PAS). MD 3.5 (ECX).	
03	20	00	48.3	51.688	N	16.182	E	10	G		1.0	22	POLAND. ML 3.9 (GRF), 3.6 (VIE).
03	20	14	42.2*	36.29	N	3.20	W	33	N		1.4	14	STRAIT OF GIBRALTAR. mbLg 3.2 (MDD):
03	20	23	15.3	36.635	N	3.287	W	33	N	4.5	1.5	44	STRAIT OF GIBRALTAR. mbLg 4.1 (MDD). Felt (IV) in the Adra area, Spain.
03	21	17	58.9*	15.080	N	122.596	E	33	N	4.5	0.5	12	PHILIPPINE ISLANDS REGION
03	21	31	11.1	47.413	N	1.521	W	5	G		0.8	11	FRANCE. ML 2.7 (LDG).
03	22	25	05.5*	56.45	N	167.65	W	33	N		1.1	9	PRIBILOF ISLANDS
03	22	40	57.6*	43.819	N	20.968	E	10	G		1.2	10	NORTHWESTERN BALKAN REGION
03	22	52	38.4*	23.95	S	179.93	W	454	D	4.2	0.7	12	SOUTH OF FIJI ISLANDS
03	23	28	36.2*	9.469	S	74.975	W	33	N		1.3	8	CENTRAL PERU
03	23	54	59.6*	42.04	S	89.01	E	10	G	4.8	1.3	6	SOUTHEAST INDIAN RIDGE
04	00	31	00.8	45.754	N	26.780	E	91	*		0.7	16	ROMANIA
04	01	25	53.8*	31.324	N	140.907	E	14		4.4	0.7	11	SOUTH OF HONSHU, JAPAN
04	02	14	36.5*	15.679	N	120.932	E	122	D	4.0	1.2	11	LUZON, PHILIPPINE ISLANDS
04	02	58	30.2%	59.887	N	153.725	W	139				35	SOUTHERN ALASKA. <AEIC>.
04	03	14	17.7%	62.847	N	149.803	W	81				34	CENTRAL ALASKA. <AEIC>.
04	03	36	20.3*	3.99	S	80.82	W	33	N		1.6	10	PERU-ECUADOR BORDER REGION
04	03	38	52.1	9.066	N	80.595	W	10	G		0.4	6	PANAMA
04	03	48	22.3%	57.719	S	25.952	W	100	G		0.7	9	SOUTH SANDWICH ISLANDS REGION
04	04	52	15.7	51.174	N	178.787	E	33	N	4.3	0.9	41	RAT ISLANDS, ALEUTIAN ISLANDS
04	05	00	13.5*	51.10	N	178.52	E	33	N		0.8	5	RAT ISLANDS, ALEUTIAN ISLANDS
04	05	01	58.2*	18.361	N	120.690	E	33	N	4.1	0.9	14	LUZON, PHILIPPINE ISLANDS
04	05	09	57.4%	44.732	N	6.866	E	5	G		1.1	8	FRANCE. ML 2.0 (LDG).
04	05	12	28.3*	31.28	S	179.28	W	33	N	4.4	0.9	9	KERMADEC ISLANDS REGION
04	05	16	30.4%	35.855	N	4.477	W	10	G		0.7	11	STRAIT OF GIBRALTAR. mbLg 3.1 (MDD).
04	05	29	26.4*	35.17	N	4.51	W	33	N		1.1	20	STRAIT OF GIBRALTAR. mbLg 3.5 (MDD).
04	05	54	36.5*	20.90	S	168.14	E	33	N	4.5	1.3	12	LOYALTY ISLANDS
04	05	55	11.7*	34.027	N	136.809	E	366		3.5	0.9	15	WESTERN HONSHU, JAPAN
04	06	13	34.2*	31.28	S	70.47	W	150	G		0.3	10	CHILE-ARGENTINA BORDER REGION. MD 3.2 (SAN).
04	08	00	34.1%	39.249	N	27.347	E	10	G		0.4	5	TURKEY. MD 3.0 (ISK).
04	08	18	08.3%	44.498	N	7.314	E	10	G		0.6	5	NORTHERN ITALY. ML 2.2 (LDG).
04	08	36	53.9%	42.035	N	23.399	E	10	G		1.2	6	BULGARIA
04	09	27	04.9*	4.295	N	126.924	E	33	N	3.9	0.8	12	TALAUD ISLANDS, INDONESIA
04	09	54	02.7	58.055	S	11.180	W	10	G	5.5 5.2	1.0	109	SOUTHWESTERN ATLANTIC OCEAN. Mw 5.5 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 09:54:09.2; Lat 58.39 S; Lon 10.95 W; Dep 15.0 Fix; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=-1.48, Plg=0, Azm=123; (N) Val=0.43, Plg=90, Azm=180; (P) Val=-1.91, Plg=0, Azm=33; Best double couple: Mo=1.7*10**17 Nm; NP1: Strike=168, Dip=90, Slip=-180; NP2: Strike=258, Dip=90, Slip=0.													
04	10	07	22.6*	34.54	S	70.34	W	5	G		0.4	8	CHILE-ARGENTINA BORDER REGION. MD 3.6 (SAN).
04	10	45	38.7%	47.717	N	120.019	W	6			49	WASHINGTON. <SEA-P>. MD 3.6 (SEA). ML 3.3 (GS). Felt.	
04	10	52	43.1*	12.422	N	86.762	W	33	N	4.0	0.4	10	NICARAGUA
04	10	57	39.9	56.559	N	168.157	W	33	N	4.2	0.9	27	PRIBILOF ISLANDS
04	11	04	02.1	51.417	N	178.582	W	33	N	5.3 4.4	1.0	213	ANDREANOF ISLANDS, ALEUTIAN IS. Mw 5.1 (HRV). Felt on Adak.
Centroid, Moment Tensor (HRV): Centroid origin time 11:04:05.7; Lat 51.42 N Fix; Lon 178.58 W Fix; Dep 71.8; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.88, Plg=59, Azm=278; (N) Val=1.75, Plg=21, Azm=49; (P) Val=-6.64, Plg=21, Azm=148; Best double couple: Mo=5.8*10**16 Nm; NP1: Strike=270, Dip=30, Slip=136; NP2: Strike=41, Dip=69, Slip=67.													
04	11	29	34.5%	44.343	N	7.522	E	5	G		0.2	5	NORTHERN ITALY. ML 2.3 (LDG).
04	11	39	33.3*	5.45	S	140.59	E	33	N	3.6	1.0	7	IRIAN JAYA, INDONESIA
04	11	49	37.0*	13.62	S	166.40	E	33	N	4.2	1.4	7	VANUATU ISLANDS
04	11	57	15.0*	28.493	N	143.201	E	39	D	4.0	1.4	10	BONIN ISLANDS REGION
04	12	08	38.7	43.959	N	7.348	E	10	G		0.7	34	NEAR SOUTH COAST OF FRANCE. MD 3.1 (STR). ML 2.9 (LDG).
04	12	44	06.6%	59.542	N	151.395	W	41		4.4	125	KENAI PENINSULA, ALASKA. <AEIC>. ML 4.1 (AEIC).	
04	12	44	57.0	30.383	N	96.877	E	33	N	4.0	1.1	18	XIZANG
04	12	56	39.5%	33.963	S	71.094	W	70	G		0.2	11	NEAR COAST OF CENTRAL CHILE. MD 3.3 (SAN).
04	13	13	59.6	30.333	N	96.977	E	33	N	4.4	1.1	22	XIZANG
04	13	30	01.3*	36.292	N	141.554	E	33	N		0.3	7	NEAR EAST COAST OF HONSHU, JAPAN
04	13	38	23.2%	33.608	S	70.621	W	80	G		0.2	9	CHILE-ARGENTINA BORDER REGION
04	14	25	10.3%	53.431	N	165.612	W	15			10	FOX ISLANDS, ALEUTIAN ISLANDS. <AEIC>. ML 3.3 (AEIC).	
04	14	41	04.0*	0.935	N	27.921	W	10	G	4.6 4.5	1.1	21	CENTRAL MID-ATLANTIC RIDGE
04	14	47	39.0%	62.120	N	150.546	W	2				35	CENTRAL ALASKA. <AEIC>. ML 2.5 (AEIC).
04	14	50	17.6*	42.496	N	143.973	E	87	?	4.0	1.1	14	HOKKAIDO, JAPAN REGION
04	15	18	58.0%	66.070	N	149.023	W	10	G			30	NORTHERN ALASKA. <AEIC>. ML 2.9 (AEIC).
04	15	39	36.6*	8.67	S	157.54	E	33	N	3.9	0.6	8	SOLOMON ISLANDS
04	16	05	18.8*	7.242	S	155.982	E	33	N	3.8	0.8	12	SOLOMON ISLANDS
04	16	50	44.0	33.075	N	60.100	E	10	G	4.5	1.1	29	NORTHERN IRAN
04	17	05	56.5*	38.163	N	99.762	E	33	N		1.5	11	QINGHAI, CHINA
04	18	00	29.5*	11.79	N	143.97	E	33	N		1.5	10	SOUTH OF MARIANA ISLANDS

ID	Lat	Long	Alt	Region	Area	Pop	Density	Notes
04 18 24 38.46	63.014 N	149.661 W	94	CENTRAL ALASKA. <AEIC>.	35			TAIWAN. Mw 5.1 (HRV).
04 18 37 33.3	22.972 N	120.928 E	33 N	Centroid, Moment Tensor (HRV): Centroid origin time	84	4.9	4.7	18:37:34.7; Lat 23.58 N; Lon 120.52 E; Dep 33.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.67, Plg=27, Azm=243; (N) Val=0.61, Plg=14, Azm=145; (P) Val=-5.27, Plg=59, Azm=31; Best double couple: Mo=5.0*10**16 Nm; NP1: Strike=4, Dip=22, Slip=-49; NP2: Strike=141, Dip=74, Slip=-105.
04 19 27 38.17	27.83 S	65.91 E	10 G	SOUTH INDIAN OCEAN	1.5			
04 19 58 03.87	26.98 S	65.97 E	10 G	SOUTHWEST INDIAN RIDGE	0.9	4.2		
04 20 24 38.67	36.54 N	3.11 W	10 G	STRAIT OF GIBRALTAR. mbLg 2.5 (MDD).	1.5			
04 21 04 59.97	27.60 S	65.79 E	10 G	SOUTH INDIAN OCEAN	1.1			
04 21 20 55.9*	27.407 N	56.163 E	33 N	SOUTHERN IRAN	0.8	4.0		
04 21 24 44.07	51.17 N	170.20 W	33 N	FOX ISLANDS, ALEUTIAN ISLANDS	1.3			
04 21 36 28.48	39.242 N	29.448 E	10 G	TURKEY. MD 3.2 (ISK).	0.7			
04 22 27 42.07	27.82 S	65.33 E	10 G	SOUTH INDIAN OCEAN	0.3			
04 22 51 17.18	44.336 N	7.181 E	5 G	NORTHERN ITALY. ML 2.0 (LDG).	0.2			
04 22 55 51.77	27.67 S	65.65 E	10 G	SOUTH INDIAN OCEAN	0.8			
04 22 57 29.48	44.338 N	7.192 E	5 G	NORTHERN ITALY. ML 2.2 (LDG).	0.2			
04 23 23 57.47	27.69 S	65.67 E	10 G	SOUTH INDIAN OCEAN	0.9	5.0	4.8	
04 23 31 18.2	28.467 N	143.247 E	38 D	BONIN ISLANDS REGION	1.0	4.6		
04 23 33 22.88	28.356 N	143.529 E	37 D	BONIN ISLANDS REGION	1.1			
04 23 52 04.5	45.532 S	76.307 W	10 G	OFF COAST OF SOUTHERN CHILE. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time	31	4.9	4.6	23:52:04.4; Lat 45.63 S; Lon 76.92 W; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=9.36, Plg=0, Azm=219; (N) Val=-2.35, Plg=90, Azm=180; (P) Val=-7.01, Plg=0, Azm=129; Best double couple: Mo=8.2*10**16 Nm; NP1: Strike=264, Dip=90, Slip=-180; NP2: Strike=354, Dip=90, Slip=0.
05 00 19 37.8	46.789 N	152.835 E	64 D	KURIL ISLANDS	1.1	4.5		
05 00 56 33.0	8.559 N	82.810 W	33 N	PANAMA-COSTA RICA BORDER REGION	1.4			
05 01 12 12.46	59.986 N	148.550 W	16	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.6 (AEIC).	1.3			
05 01 20 50.8*	27.680 S	65.678 E	10 G	SOUTH INDIAN OCEAN	0.7			
05 03 09 18.27	17.34 S	178.97 W	550 G	FIJI ISLANDS REGION	0.3	3.7		
05 03 14 17.5	15.196 S	174.083 W	100 D	TONGA ISLANDS. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time	134	4.9		03:14:25.7; Lat 14.92 S; Lon 173.58 W; Dep 97.7; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.02, Plg=26, Azm=143; (N) Val=0.04, Plg=24, Azm=41; (P) Val=-1.06, Plg=54, Azm=274; Best double couple: Mo=1.0*10**17 Nm; NP1: Strike=275, Dip=29, Slip=-33; NP2: Strike=34, Dip=75, Slip=-115.
05 03 38 08.9*	27.510 S	65.743 E	10 G	SOUTH INDIAN OCEAN	1.1	5.0		
05 03 43 30.5*	16.746 S	179.011 W	300 G	FIJI ISLANDS REGION	0.9	4.0		
05 04 10 25.68	18.277 N	67.077 W	10 G	MONA PASSAGE. MD 2.5 (MPR).	1.3			
05 04 20 03.1*	27.630 S	65.695 E	10 G	SOUTH INDIAN OCEAN	1.1	4.9		
05 04 32 27.3	43.047 N	0.426 W	5 G	PYRENEES. MD 2.8 (STR). ML 2.8 (LDG).	1.3			
05 04 59 32.47	18.83 N	66.86 W	33 N	PUERTO RICO REGION. MD 3.6 (MPR).	0.6			
05 05 49 10.9*	3.577 S	141.387 E	33 N	NEW GUINEA, PAPUA NEW GUINEA	1.5	3.8		
05 06 09 31.1	5.955 S	151.012 E	33 N	NEW BRITAIN REGION, P.N.G.	1.0	4.8	4.5	
05 06 22 53.5*	28.803 N	86.862 E	33 N	XIZANG	1.5	4.8		
05 06 27 07.7*	34.813 N	138.401 E	33 N	NEAR S. COAST OF HONSHU, JAPAN	0.9			
05 08 12 55.4*	10.384 N	140.658 E	33 N	WESTERN CAROLINE ISLANDS	1.2	4.7		
05 08 50 09.57	27.67 S	65.92 E	10 G	SOUTH INDIAN OCEAN	1.1			
05 08 54 17.0*	22.778 N	94.554 E	100 G	MYANMAR	0.5	4.0		
05 09 04 33.0*	5.748 S	150.936 E	33 N	NEW BRITAIN REGION, P.N.G.	1.2	3.9		

05	19	50	13.9*	51.142 N	15.795 E	5 G	0.8	5	POLAND. MG 2.4 (WAR).
05	20	08	13.3*	27.692 S	65.652 E	10 G	1.0	14	SOUTH INDIAN OCEAN
05	20	18	07.8	37.578 N	16.797 E	33 N	1.1	24	IONIAN SEA. MD 3.6 (ROM).
05	20	18	11.6	38.031 N	139.298 E	38 *	0.8	12	NEAR WEST COAST OF HONSHU, JAPAN
05	20	55	27.3*	27.490 S	65.210 E	10 G	0.6	10	SOUTH INDIAN OCEAN
05	21	07	36.0	37.041 N	135.311 E	385	0.8	24	SEA OF JAPAN
05	22	09	24.2	38.035 N	139.329 E	33 N	0.8	15	NEAR WEST COAST OF HONSHU, JAPAN
05	22	33	10.6*	37.165 N	3.734 W	10 G	0.8	7	SPAIN. mbLg 2.3 (MDD).
05	22	46	41.0	11.547 S	164.802 E	33 N	1.0	164	SANTA CRUZ ISLANDS REGION. Mw 5.4 (HRV), 5.3 (GS). Moment Tensor (GS): Dep 13; Principal axes (scale 10**17 Nm): (T) Val=-1.05, Plg=8, Azm=241; (N) Val=-0.02, Plg=13, Azm=333; (P) Val=-1.04, Plg=74, Azm=121; Best double couple: Mo=1.0*10**17 Nm; NP1: Strike=316, Dip=39, Slip=-112; NP2: Strike=163, Dip=54, Slip=-74. Centroid, Moment Tensor (HRV): Centroid origin time 22:46:43.4; Lat 11.57 S; Lon 164.69 E; Dep 28.3 Fix; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=-1.64, Plg=2, Azm=255; (N) Val=-0.22, Plg=16, Azm=164; (P) Val=-1.42, Plg=74, Azm=353; Best double couple: Mo=1.5*10**17 Nm; NP1: Strike=0, Dip=45, Slip=-68; NP2: Strike=150, Dip=49, Slip=-111.
05	23	11	51.3*	45.983 N	2.765 E	10 G	0.6	6	FRANCE. ML 1.5 (LDG).
05	23	21	30.1	22.022 S	179.326 W	587 D	1.0	154	SOUTH OF FIJI ISLANDS. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 23:21:34.3; Lat 21.89 S; Lon 179.07 W; Dep 607.3; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=-1.02, Plg=10, Azm=121; (N) Val=0.09, Plg=2, Azm=211; (P) Val=-1.11, Plg=80, Azm=315; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=208, Dip=35, Slip=-94; NP2: Strike=33, Dip=55, Slip=-87.
06	00	20	06.07	27.76 S	65.80 E	10 G	1.0	11	SOUTH INDIAN OCEAN
06	01	21	50.4*	45.535 N	3.706 E	5 G	1.1	8	FRANCE. ML 2.4 (LDG).
06	01	28	15.97	5.78 S	151.36 E	33 N	0.9	9	NEW BRITAIN REGION, P.N.G.
06	01	36	39.6	11.650 N	86.983 W	33 N	1.2	74	NEAR COAST OF NICARAGUA
06	01	51	47.9	42.870 N	131.328 E	542 D	0.8	151	E. RUSSIA-N.E. CHINA BORDER REG.
06	02	31	35.8*	28.603 N	143.212 E	36 D	0.9	11	BONIN ISLANDS REGION
06	03	30	00.37	27.74 S	65.82 E	10 G	1.1	10	SOUTH INDIAN OCEAN
06	03	37	53.3*	15.056 S	173.820 W	33 N	0.7	21	TONGA ISLANDS
06	03	59	38.1*	7.506 N	75.195 W	59 D	0.9	11	NORTHERN COLOMBIA
06	04	26	08.3*	45.037 N	147.019 E	150 D	1.1	24	KURIL ISLANDS
06	04	54	11.3*	47.595 N	27.631 W	10 G	0.5	8	NORTHERN MID-ATLANTIC RIDGE
06	05	30	05.0	47.511 N	27.505 W	10 G	1.0	84	NORTHERN MID-ATLANTIC RIDGE
06	06	38	25.87	33.45 S	177.97 E	600 G	0.9	19	NORTH OF NEW ZEALAND
06	07	47	47.47	17.04 S	168.40 E	150 G	1.1	7	VANUATU ISLANDS
06	09	54	00.7	30.058 S	71.872 W	19 G	1.2	189	NEAR COAST OF CENTRAL CHILE. Mw 6.8 (GS), 6.8 (HRV). Me 6.1 (GS). Ms 6.3 (BRK). Felt (III) at Coquimbo, La Serena, Ovalle and Vicuna. Broadband Source Parameters (GS): Dep 23; NP1: Strike=350, Dip=25, Slip=90; NP2: Strike=170, Dip=65, Slip=90; Radiated energy 3.7*10**13 Nm. Two events about 3.0 seconds apart. Depth based on first event. Moment Tensor (GS): Dep 5; Principal axes (scale 10**19 Nm): (T) Val=-1.98, Plg=63, Azm=69; (N) Val=-0.19, Plg=3, Azm=333; (P) Val=-1.79, Plg=27, Azm=241; Best double couple: Mo=1.9*10**19 Nm; NP1: Strike=323, Dip=18, Slip=80; NP2: Strike=154, Dip=72, Slip=93. Centroid, Moment Tensor (HRV): Centroid origin time 09:54:09.5; Lat 30.22 S; Lon 72.21 W; Dep 15.0 Bdy; Half-duration 5.0 sec; Principal axes (scale 10**19 Nm): (T) Val=-1.97, Plg=66, Azm=86; (N) Val=-0.09, Plg=1, Azm=178; (P) Val=-1.88, Plg=24, Azm=269; Best double couple: Mo=1.9*10**19 Nm; NP1: Strike=0, Dip=21, Slip=92; NP2: Strike=178, Dip=69, Slip=89. Scalar Moment (PPT): Mo=4.0*10**19 Nm.
06	10	16	05.0	30.055 S	71.873 W	33 N	0.8	47	NEAR COAST OF CENTRAL CHILE
06	10	19	48.37	40.43 N	28.94 E	10 G	0.3	4	TURKEY. MD 2.6 (ISK).
06	10	24	26.5*	30.085 S	72.053 W	27 D	0.9	18	OFF COAST OF CENTRAL CHILE
06	10	32	12.2*	30.208 S	72.367 W	33 N	1.0	17	OFF COAST OF CENTRAL CHILE. MD 4.1 (SAN).
06	10	42	39.0	47.617 N	27.589 W	10 G	0.8	83	NORTHERN MID-ATLANTIC RIDGE
06	10	54	42.4	44.284 N	7.339 W	10 G	0.9	16	NORTH ATLANTIC OCEAN. mbLg 3.2 (MDD). ML 2.9 (LDG).
06	11	05	59.9	29.920 S	71.819 W	33 N	1.0	38	NEAR COAST OF CENTRAL CHILE. MD 4.3 (SAN).
06	11	36	59.3*	17.560 S	179.170 W	600 G	1.0	32	FIJI ISLANDS REGION
06	12	17	52.6	28.504 N	143.187 E	39 D	1.1	41	BONIN ISLANDS REGION
06	12	55	15.3*	43.249 N	151.119 E	33 N	0.7	7	EAST OF KURIL ISLANDS
06	13	16	06.7*	44.339 N	7.318 E	5 G	0.3	5	NORTHERN ITALY. ML 2.0 (LDG).
06	14	46	55.5*	43.158 N	149.518 E	33 N	0.7	9	EAST OF KURIL ISLANDS
06	15	04	50.7*	61.579 N	150.075 W	45		28	SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).
06	15	31	33.57	13.51 N	91.10 W	100 G	1.4	11	NEAR COAST OF GUATEMALA
06	16	49	46.47	27.51 S	65.95 E	10 G	1.4	8	SOUTH INDIAN OCEAN
06	17	28	25.0*	45.549 N	3.671 E	5 G	0.4	6	FRANCE. ML 2.0 (LDG).
06	17	38	44.57	15.99 S	168.07 E	200 G	1.5	8	VANUATU ISLANDS
06	17	54	24.5	4.845 N	127.637 E	200 G	0.9	27	TALAUD ISLANDS, INDONESIA
06	18	01	33.4*	45.935 N	7.019 E	5 G	0.1	6	NORTHERN ITALY. ML 2.4 (LDG).
06	18	23	42.7*	27.961 N	67.337 E	33 N	0.9	8	PAKISTAN
06	18	47	33.5*	30.282 S	71.789 W	33 N	1.0	11	NEAR COAST OF CENTRAL CHILE
06	20	13	25.1	33.451 N	141.662 E	33 N	1.0	79	OFF EAST COAST OF HONSHU, JAPAN
06	20	13	37.0	16.157 N	87.917 W	33 N	1.2	179	CARIBBEAN SEA. Mw 6.1 (GS), 5.8 (HRV). Felt in the San Pedro Sula area, Honduras and in the Dangriga area, Belize. Moment Tensor (GS): Dep 37; Principal axes (scale 10**18 Nm): (T) Val=-1.66, Plg=12, Azm=284; (N) Val=-0.12, Plg=74, Azm=145; (P) Val=-1.78, Plg=10, Azm=16; Best double couple: Mo=1.7*10**18 Nm; NP1: Strike=60, Dip=74, Slip=1; NP2: Strike=330, Dip=89, Slip=164.

Centroid, Moment Tensor (HRV): Centroid origin time 20:13:34.0; Lat 16.00 N; Lon 88.00 W; Dep 15.0 Fix; Half-duration 2.0 sec; Principal axes (scale 10**17 Nm): (T) Val=6.27, Plg=2, Azm=109; (N) Val=0.21, Plg=72, Azm=205; (P) Val=-6.48, Plg=18, Azm=18; Best double couple: Mo=6.4*10**17 Nm; NP1: Strike=155, Dip=76, Slip=-169; NP2: Strike=62, Dip=79, Slip=-14.

06 20 27 28.7? 11.59 S 118.25 E 33 N 4.6 1.5 9 SOUTH OF SUMBAWA, INDONESIA

06 21 07 16.4* 0.946 N 97.528 E 33 N 0.7 15 NORTHERN SUMATERA, INDONESIA

06 21 15 11.1* 36.383 N 71.160 E 150 G 4.0 0.9 13 AFGHANISTAN-TAJIKISTAN BORD REG.

06 21 36 51.6 2.578 N 126.904 E 100 G 4.8 1.0 23 NORTHERN MOLUCCA SEA

06 22 20 02.9 13.129 S 166.454 E 33 N 4.7 1.2 58 VANUATU ISLANDS

06 22 28 09.6* 16.892 N 147.580 E 33 D 1.5 15 MARIANA ISLANDS REGION

06 22 28 57.6 45.515 N 10.409 E 10 G 0.9 64 NORTHERN ITALY. MD 3.6 (STR). ML 3.5 (FUR), 3.4 (VIE), 3.3 (LDG).

06 23 15 20.4 30.164 S 71.863 W 33 N 5.3 5.2 1.0 119 NEAR COAST OF CENTRAL CHILE. Mw 5.8 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 23:15:23.7; Lat 30.26 S; Lon 72.46 W; Dep 15.0 Fix; Half-duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=5.08, Plg=69, Azm=102; (N) Val=0.20, Plg=4, Azm=1; (P) Val=-5.28, Plg=21, Azm=269; Best double couple: Mo=5.2*10**17 Nm; NP1: Strike=352, Dip=24, Slip=80; NP2: Strike=183, Dip=66, Slip=95.

06 23 25 34.2 36.418 N 26.610 E 150 G 3.9 0.6 23 DODECANESE ISLANDS

06 23 33 02.4* 2.764 S 126.451 E 33 N 4.4 0.8 11 CERAM SEA

06 23 58 48.8* 7.368 S 128.231 E 33 N 4.1 1.5 17 BANDA SEA

07 00 17 24.6 6.826 N 72.880 W 160 D 4.6 1.0 50 NORTHERN COLOMBIA

07 01 03 36.4* 20.361 S 68.856 W 144 ? 4.2 1.0 10 CHILE-BOLIVIA BORDER REGION

07 01 42 36.8 11.184 N 62.250 W 123 3.7 0.9 22 WINDWARD ISLANDS

07 01 51 00.7 13.481 S 166.461 E 33 N 4.6 1.2 39 VANUATU ISLANDS

07 02 11 52.5? 32.32 S 71.88 W 33 N 0.3 8 NEAR COAST OF CENTRAL CHILE

07 02 14 40.3? 15.73 S 173.54 W 33 N 4.3 0.5 7 TONGA ISLANDS

07 02 29 39.2* 2.740 S 88.424 E 10 G 4.2 1.0 19 SOUTH INDIAN OCEAN

07 02 37 45.9? 36.13 S 73.22 W 20 G 0.8 9 NEAR COAST OF CENTRAL CHILE

07 02 47 26.8* 7.044 N 73.189 W 150 G 3.3 0.8 9 NORTHERN COLOMBIA

07 02 56 07.76 40.470 N 125.993 W 20 14 OFF COAST OF NORTHERN CALIFORNIA. <GM-P>. MD 3.0 (GM). ML 3.0 (BRK).

07 03 17 16.4* 45.703 N 10.320 E 10 G 0.8 9 NORTHERN ITALY. ML 2.3 (VIE).

07 04 04 11.5? 5.03 S 151.06 E 33 N 3.8 0.5 5 NEW BRITAIN REGION, P.N.G.

07 04 28 29.3* 11.039 N 124.634 E 33 N 4.7 1.4 11 LEYTE, PHILIPPINE ISLANDS

07 04 31 24.5? 31.99 S 69.72 W 160 G 0.4 9 SAN JUAN PROVINCE, ARGENTINA

07 05 01 10.6 9.743 S 117.728 E 115 * 4.5 1.2 21 SUMBAWA REGION, INDONESIA

07 06 11 16.7 35.844 N 22.246 E 69 D 3.8 0.9 61 CENTRAL MEDITERRANEAN SEA

07 06 11 41.3? 0.03 S 17.41 W 10 G 3.9 1.4 9 NORTH OF ASCENSION ISLAND

07 06 54 30.2* 38.101 N 27.005 W 10 G 3.6 0.7 8 AZORES ISLANDS

07 07 44 09.3* 37.132 N 6.777 E 10 G 0.9 11 WESTERN MEDITERRANEAN SEA. ML 3.7 (LDG).

07 08 24 16.0? 6.25 S 75.87 W 137 ? 3.5 0.8 12 NORTHERN PERU

07 08 52 06.1* 13.168 N 146.641 E 33 N 4.3 1.2 11 SOUTH OF MARIANA ISLANDS

07 09 15 50.2 6.057 S 147.447 E 64 D 5.2 5.0 0.9 69 EASTERN NEW GUINEA REG., P.N.G. Mw 5.8 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 09:15:57.5; Lat 6.40 S; Lon 147.59 E; Dep 56.0 Bdy; Half-duration 1.9 sec; Principal axes (scale 10**17 Nm): (T) Val=5.19, Plg=64, Azm=3; (N) Val=0.30, Plg=2, Azm=269; (P) Val=-5.49, Plg=26, Azm=178; Best double couple: Mo=5.3*10**17 Nm; NP1: Strike=263, Dip=19, Slip=84; NP2: Strike=90, Dip=71, Slip=92.

07 09 24 06.5? 34.44 S 70.37 W 10 G 0.6 11 CHILE-ARGENTINA BORDER REGION

07 09 44 33.0 2.725 S 138.886 E 33 N 5.1 4.8 1.1 68 IRIAN JAYA, INDONESIA. Mw 5.3 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 09:44:40.1; Lat 2.74 S; Lon 139.09 E; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.03, Plg=68, Azm=195; (N) Val=0.11, Plg=2, Azm=290; (P) Val=-1.14, Plg=22, Azm=20; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=114, Dip=23, Slip=95; NP2: Strike=289, Dip=67, Slip=88.

07 11 19 04.8 1.071 N 97.599 E 25 D 4.9 1.0 84 NORTHERN SUMATERA, INDONESIA. Mw 5.5 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 11:19:04.2; Lat 0.50 N; Lon 97.00 E; Dep 42.9; Half-duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=1.88, Plg=55, Azm=80; (N) Val=0.85, Plg=19, Azm=320; (P) Val=-2.73, Plg=28, Azm=220; Best double couple: Mo=2.3*10**17 Nm; NP1: Strike=269, Dip=24, Slip=36; NP2: Strike=145, Dip=76, Slip=110.

07 11 24 37.7 1.070 N 97.595 E 29 D 5.4 5.7 0.9 166 NORTHERN SUMATERA, INDONESIA. Mw 5.9 (GS), 5.9 (HRV). Me 5.3 (GS).

Broadband Source Parameters (GS): Dep 22; NP1: Strike=135, Dip=80, Slip=105; NP2: Strike=258, Dip=18, Slip=34; Radiated energy 2.3*10**12 Nm.

Moment Tensor (GS): Dep 22; Principal axes (scale 10**17 Nm): (T) Val=7.35, Plg=55, Azm=62; (N) Val=0.00, Plg=21, Azm=299; (P) Val=-7.35, Plg=27, Azm=197; Best double couple: Mo=7.3*10**17 Nm; NP1: Strike=247, Dip=26, Slip=35; NP2: Strike=125, Dip=75, Slip=112.

Centroid, Moment Tensor (HRV): Centroid origin time 11:24:41.8; Lat 0.86 N; Lon 97.16 E; Dep 32.2; Half-duration 2.1 sec; Principal axes (scale 10**17 Nm): (T) Val=6.74, Plg=59, Azm=55; (N) Val=1.00, Plg=6, Azm=316; (P) Val=-7.74, Plg=31, Azm=222; Best double couple: Mo=7.2*10**17 Nm; NP1: Strike=294, Dip=15, Slip=68; NP2: Strike=137, Dip=76, Slip=96.

07 11 44 20.7 0.969 N 97.523 E 28 D 4.3 0.7 23 NORTHERN SUMATERA, INDONESIA

07 11 49 22.4* 45.447 N 146.148 E 200 G 3.8 1.1 15 KURIL ISLANDS

07 12 10 30.6 0.978 N 97.523 E 27 D 4.5 0.7 34 NORTHERN SUMATERA, INDONESIA

07	12	25	20.4%	0.985	N	97.528	E	25	D	0.8	14	NORTHERN SUMATERA, INDONESIA	
07	12	31	15.3	30.292	S	72.072	W	27	D	4.5	0.9	35	OFF COAST OF CENTRAL CHILE
07	13	13	35.8*	13.362	S	166.303	E	33	N		0.4	6	VANUATU ISLANDS
07	13	15	50.6%	63.086	N	150.793	W	126				21	CENTRAL ALASKA. <AEIC>.
07	13	25	08.8	43.617	N	127.401	W	10	G	4.7 4.6	0.8	185	OFF COAST OF OREGON
07	13	52	25.6*	3.723	S	131.321	E	33	N	4.2	1.2	16	IRIAN JAYA REGION, INDONESIA
07	14	01	06.1*	42.446	N	1.007	E	10	G		0.5	8	PYRENEES. MD 3.0 (STR). ML 2.7 (LDG).
07	14	34	42.6*	53.561	N	160.005	E	33	N	4.4	0.9	9	NEAR EAST COAST OF KAMCHATKA
07	17	47	58.3%	63.390	N	151.309	W	17				25	CENTRAL ALASKA. <AEIC>. ML 3.5 (AEIC), 3.8 (PMR).
07	19	04	17.4%	54.524	N	161.410	W	0				13	ALASKA PENINSULA. <AEIC>. ML 3.2 (AEIC).
07	19	30	36.7	29.985	S	72.192	W	33	N	4.5	1.1	26	OFF COAST OF CENTRAL CHILE
07	19	32	40.2	48.290	N	154.266	E	40	D	4.7	1.0	46	KURIL ISLANDS
07	19	39	44.2*	38.302	N	26.824	W	10	G	4.1	0.7	12	AZORES ISLANDS
07	19	54	57.8*	29.71	S	177.51	W	33	N	4.5	0.9	12	KERMADEC ISLANDS, NEW ZEALAND
07	20	47	22.2%	38.806	N	122.822	W	2				22	NORTHERN CALIFORNIA. <GM-P>. MD 3.1 (GM). ML 3.0 (BRK).
07	21	42	46.4	75.044	N	3.869	W	10	G	4.7 3.9	1.0	66	GREENLAND SEA
07	21	48	50.7%	54.077	N	165.311	W	110		4.0		12	FOX ISLANDS, ALEUTIAN ISLANDS. <AEIC>.
07	22	21	10.3*	6.898	S	154.746	E	33	N	4.3	1.1	20	SOLOMON ISLANDS
07	22	31	18.5%	61.583	N	150.895	W	65				15	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).
07	22	43	18.0*	31.18	S	68.14	W	150	G		0.9	11	SAN JUAN PROVINCE, ARGENTINA. MD 3.7 (SAN).
07	22	49	27.0%	44.442	N	6.742	E	5	G		0.5	5	FRANCE. ML 1.9 (LDG).
07	22	57	35.5	14.443	S	167.810	E	33	N	4.7 4.3	1.3	61	VANUATU ISLANDS
08	01	10	57.1	4.360	S	153.669	E	242	D	5.0	0.8	52	NEW IRELAND REGION, P.N.G. Mw 5.2 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time													
01:10:57.4; Lat 4.39 S; Lon 153.76 E; Dep 208.8; Half-													
duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)													
Val=-7.24, Plg=26, Azm=11; (N) Val=-1.58, Plg=30, Azm=264;													
(P) Val=-8.82, Plg=48, Azm=134; Best double couple:													
Mo=8.0*10**16 Nm; NP1: Strike=147, Dip=33, Slip=-24; NP2:													
Strike=257, Dip=77, Slip=-121.													
08	01	15	01.0	30.258	S	72.011	W	33	N	4.5	1.0	48	OFF COAST OF CENTRAL CHILE. MD 4.4 (SAN).
08	01	49	53.6	8.034	S	118.722	E	150	G	4.9	1.1	42	SUMBAWA REGION, INDONESIA
08	02	06	03.0*	17.486	S	178.405	W	500	G	4.0	0.7	13	FIJI ISLANDS REGION
08	02	16	33.1*	38.625	N	142.981	E	33	N		0.8	8	NEAR EAST COAST OF HONSHU, JAPAN
08	02	24	07.3	23.799	N	142.696	E	33	N	5.8 5.6	0.9	276	VOLCANO ISLANDS REGION. Mw 5.8 (GS), 5.8 (HRV). Me 5.8 (GS).
Broadband Source Parameters (GS): Dep 24; NP1: Strike=100,													
Dip=80, Slip=-120; NP2: Strike=353, Dip=31, Slip=-19;													
Radiated energy 1.0*10**13 Nm.													
Moment Tensor (GS): Dep 25; Principal axes (scale 10**17													
Nm): (T) Val=5.33, Plg=20, Azm=148; (N) Val=0.14, Plg=24,													
Azm=247; (P) Val=-5.47, Plg=57, Azm=22; Best double couple:													
Mo=5.4*10**17 Nm; NP1: Strike=202, Dip=33, Slip=-140; NP2:													
Strike=77, Dip=70, Slip=-64.													
Centroid, Moment Tensor (HRV): Centroid origin time													
02:24:10.5; Lat 23.79 N; Lon 142.96 E; Dep 41.2 Fix; Half-													
duration 1.9 sec; Principal axes (scale 10**17 Nm): (T)													
Val=5.03, Plg=23, Azm=149; (N) Val=0.66, Plg=29, Azm=253;													
(P) Val=-5.69, Plg=51, Azm=28; Best double couple:													
Mo=5.4*10**17 Nm; NP1: Strike=198, Dip=34, Slip=-150; NP2:													
Strike=83, Dip=74, Slip=-59.													
08	02	40	12.9	23.790	N	142.674	E	33	N	4.9	1.0	84	VOLCANO ISLANDS REGION
08	03	00	18.9*	23.78	N	142.99	E	33	N	4.2	1.3	11	VOLCANO ISLANDS REGION
08	03	23	22.9	9.384	S	80.387	W	38	D	4.9 4.6	0.8	66	OFF COAST OF NORTHERN PERU
08	04	21	35.6*	42.83	N	7.14	W	10	G		0.2	4	SPAIN. mbLg 3.1 (MDD). Felt (II) in the Sarria-Becerrea area.
08	05	57	37.1*	21.677	S	68.098	W	134	*		1.4	17	CHILE-BOLIVIA BORDER REGION
08	06	11	15.6	40.642	N	48.608	E	33	N	4.3	0.5	14	EASTERN CAUCASUS
08	08	13	41.9	39.250	N	16.573	E	10	G	3.9	1.0	40	SOUTHERN ITALY. MD 3.6 (ROM).
08	08	28	51.8%	57.636	N	154.461	W	48				43	KODIAK ISLAND REGION. <AEIC>. ML 3.5 (AEIC).
08	08	59	00.1*	12.770	N	89.545	W	21	D	4.6	1.4	40	OFF COAST OF CENTRAL AMERICA
08	09	13	01.0	15.378	S	167.661	E	100	G	4.6	0.9	40	VANUATU ISLANDS
08	09	47	21.8%	44.359	N	7.715	E	5	G		0.4	6	NORTHERN ITALY. ML 2.4 (LDG).
08	09	48	18.5*	57.912	S	9.249	W	10	G	4.5	1.0	9	SOUTHWESTERN ATLANTIC OCEAN
08	11	03	37.6	30.396	N	138.288	E	428	D	5.0	0.8	188	SOUTH OF HONSHU, JAPAN
08	11	34	57.5%	44.341	N	7.554	E	5	G		0.2	6	NORTHERN ITALY. ML 2.2 (LDG).
08	12	11	15.0	51.372	N	178.582	W	33	N	5.5 5.4	1.0	270	ANDREANOF ISLANDS, ALEUTIAN IS. Mw 5.9 (HRV), 5.8 (GS). Me
5.4 (GS). ML 5.6 (PMR). Felt (III) on Adak.													
Broadband Source Parameters (GS): Dep 26; NP1: Strike=240,													
Dip=35, Slip=110; NP2: Strike=36, Dip=57, Slip=77; Radiated													
energy 2.5*10**12 Nm.													
Moment Tensor (GS): Dep 22; Principal axes (scale 10**17													
Nm): (T) Val=6.30, Plg=59, Azm=300; (N) Val=0.17, Plg=23,													
Azm=76; (P) Val=-6.47, Plg=19, Azm=174; Best double couple:													
Mo=6.4*10**17 Nm; NP1: Strike=297, Dip=33, Slip=136; NP2:													
Strike=66, Dip=68, Slip=65.													
Centroid, Moment Tensor (HRV): Centroid origin time													
12:11:18.6; Lat 51.36 N; Lon 178.29 W; Dep 36.0 Bdy; Half-													
duration 2.1 sec; Principal axes (scale 10**17 Nm): (T)													
Val=6.52, Plg=68, Azm=306; (N) Val=0.44, Plg=10, Azm=61;													
(P) Val=-6.95, Plg=19, Azm=155; Best double couple:													
Mo=6.7*10**17 Nm; NP1: Strike=261, Dip=27, Slip=112; NP2:													
Strike=57, Dip=65, Slip=79.													
08	12	36	54.6%	63.572	N	150.006	W	126				39	CENTRAL ALASKA. <AEIC>.
08	12	48	52.6*	22.585	S	66.159	W	250	G	4.2	1.0	26	JUJUY PROVINCE, ARGENTINA
08	12	49	37.8*	20.67	S	178.47	W	550	G	4.1	1.1	13	FIJI ISLANDS REGION
08	13	18	16.0*	54.146	S	133.445	W	29	D	4.8 5.0	1.3	55	PACIFIC-ANTARCTIC RIDGE. Mw 5.4 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time													
13:18:22.6; Lat 53.96 S; Lon 133.46 W; Dep 15.0 Fix; Half-													
duration 1.0 sec; Principal axes (scale 10**17 Nm): (T)													
Val=-1.14, Plg=1, Azm=174; (N) Val=0.37, Plg=53, Azm=266;													
(P) Val=-1.51, Plg=37, Azm=84; Best double couple:													
Mo=1.3*10**17 Nm; NP1: Strike=225, Dip=64, Slip=-153; NP2:													
Strike=123, Dip=66, Slip=-29.													
08	14	11	02.3*	1.314	S	134.690	E	33	N	3.8	1.0	9	IRIAN JAYA REGION, INDONESIA

08	14	40	38.5*	34.350 N	141.087 E	53 D	4.2	1.1	15	OFF EAST COAST OF HONSHU, JAPAN
08	15	12	59.9*	18.252 N	120.890 E	33 N	4.2	1.4	27	LUZON, PHILIPPINE ISLANDS
08	15	38	41.1*	5.016 N	128.871 E	200 G	4.0	1.0	16	EAST OF PHILIPPINE ISLANDS
08	16	26	29.6	24.034 N	122.334 E	33 N	4.9	1.1	40	TAIWAN REGION
08	16	47	16.5*	6.008 N	126.137 E	33 N	4.2	1.0	14	MINDANAO, PHILIPPINE ISLANDS
08	17	57	05.5*	22.548 S	67.959 W	141 *	4.0	0.9	15	CHILE-BOLIVIA BORDER REGION
08	18	30	59.9*	37.651 N	118.927 W	7			8	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.8 (GM).
08	18	45	38.2*	43.722 N	7.749 E	5 G		0.7	18	NEAR SOUTH COAST OF FRANCE. MD 2.2 (STR).
08	19	20	15.7*	37.654 N	118.932 W	8			7	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.9 (GM). ML 2.8 (GS).
08	19	26	58.5*	31.292 N	66.631 E	33 N		1.3	10	AFGHANISTAN
08	19	28	33.8*	24.03 N	122.59 E	150 G		1.0	7	TAIWAN REGION
08	19	55	36.3*	23.705 N	142.780 E	100 G	4.0	0.8	10	VOLCANO ISLANDS REGION
08	20	15	03.4	43.098 N	19.396 E	10 G		1.0	19	NORTHWESTERN BALKAN REGION
08	21	16	49.8*	29.834 N	88.313 E	33 N	3.7	0.8	10	XIZANG
08	21	26	51.1*	60.280 N	140.989 W	6			29	SOUTHEASTERN ALASKA. <AEIC>. ML 3.2 (AEIC).
08	21	34	30.9*	28.413 S	113.875 E	10 G	4.3	0.9	10	WESTERN AUSTRALIA
08	21	35	39.9*	37.652 N	118.929 W	7			12	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.1 (GM).
08	23	21	41.4*	25.632 N	96.157 E	33 N		0.8	7	MYANMAR
08	23	38	48.9*	20.61 S	177.98 W	500 G	3.9	1.0	12	FIJI ISLANDS REGION
09	00	00	05.0	51.425 N	178.524 W	33 N	4.5	0.9	85	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.7 (PMR).
09	00	28	06.9	24.245 S	179.808 E	550 G	4.0	0.9	32	SOUTH OF FIJI ISLANDS
09	00	55	59.1	39.570 N	143.492 E	42 *		0.4	13	OFF EAST COAST OF HONSHU, JAPAN
09	01	17	49.9	28.004 N	53.748 E	33 N	4.6	0.7	67	SOUTHERN IRAN
09	01	43	51.2*	12.377 S	143.450 E	32 D		0.9	13	SOUTH OF MARIANA ISLANDS
09	02	07	01.8	12.078 S	166.663 E	98 D	4.8	1.0	36	SANTA CRUZ ISLANDS
09	02	21	41.4*	29.262 N	139.520 E	438 *		0.5	9	SOUTH OF HONSHU, JAPAN
09	03	06	21.6*	28.875 N	129.109 E	50 G		1.3	13	RYUKYU ISLANDS
09	05	07	31.4*	62.810 N	150.723 W	93			10	CENTRAL ALASKA. <AEIC>.
09	06	26	43.6*	36.780 N	4.498 W	50 G		0.4	7	STRAIT OF GIBRALTAR
09	07	15	43.0*	36.72 N	3.00 W	10 G		1.5	4	STRAIT OF GIBRALTAR. mbLg 2.6 (MDD).
09	07	18	52.9*	29.896 N	88.397 E	33 N	4.1	0.9	15	XIZANG
09	08	02	12.4*	52.49 N	171.35 E	33 N		0.9	6	NEAR ISLANDS, ALEUTIAN ISLANDS
09	08	58	21.5*	51.26 N	179.16 W	33 N	3.4	0.4	6	ANDREANOF ISLANDS, ALEUTIAN IS.
09	09	36	07.0	35.434 N	139.989 E	64 D	5.2	0.8	212	NEAR S. COAST OF HONSHU, JAPAN. Mw 5.1 (HRV). Felt (III JMA) in Chiba, southern Ibaraki, eastern Kanagawa and northern Saitama Prefectures. Also felt (III JMA) in the Tokyo area. Centroid, Moment Tensor (HRV): Centroid origin time 09:36:09.6; Lat 35.40 N; Lon 140.09 E; Dep 70.0; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.42, Plg=78, Azm=248; (N) Val=0.64, Plg=7, Azm=12; (P) Val=-6.06, Plg=10, Azm=103; Best double couple: Mo=5.7*10**16 Nm; NP1: Strike=201, Dip=36, Slip=102; NP2: Strike=7, Dip=55, Slip=82.
09	09	53	28.9*	3.28 S	138.67 E	33 N	3.9	1.5	8	IRIAN JAYA, INDONESIA
09	10	51	45.5*	62.735 N	149.415 W	78		38		CENTRAL ALASKA. <AEIC>.
09	11	45	44.0	44.438 N	10.457 E	10 G		1.0	30	NORTHERN ITALY. ML 3.1 (LDG), 2.8 (STR), 2.8 (VIE).
09	11	54	15.8*	23.62 S	179.71 E	600 G	4.0	0.6	11	SOUTH OF FIJI ISLANDS
09	12	17	27.0*	53.952 N	164.147 W	33 N	3.3	1.4	8	UNIMAK ISLAND REGION
09	12	21	23.2*	16.736 S	174.154 W	104 D		0.9	9	TONGA ISLANDS
09	13	03	53.1*	18.46 N	67.43 W	15 G		0.1	4	MONA PASSAGE. MD 2.6 (MPR).
09	13	43	18.9*	18.84 N	119.60 E	33 N		1.1	10	PHILIPPINE ISLANDS REGION
09	13	53	52.8	9.618 S	159.734 E	33 N	4.8	0.9	44	SOLOMON ISLANDS
09	14	47	16.8	52.220 N	31.594 W	10 G	5.3 4.9	0.9	237	NORTHERN MID-ATLANTIC RIDGE. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 14:47:21.0; Lat 52.26 N; Lon 31.30 W; Dep 15.0 Fix; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.50, Plg=0, Azm=230; (N) Val=-0.36, Plg=90, Azm=180; (P) Val=-1.14, Plg=0, Azm=140; Best double couple: Mo=1.3*10**17 Nm; NP1: Strike=275, Dip=90, Slip=-180; NP2: Strike=5, Dip=90, Slip=0.
09	14	50	08.6*	11.94 N	86.70 W	50 G	4.6	1.3	14	NEAR COAST OF NICARAGUA
09	15	40	49.9*	28.024 N	53.736 E	33 N	3.9	0.7	11	SOUTHERN IRAN
09	15	54	04.5*	16.041 N	95.392 W	33 N	4.4	1.3	20	OAXACA, MEXICO
09	15	57	30.5*	56.986 S	26.537 W	100 G	4.6	0.9	8	SOUTH SANDWICH ISLANDS REGION
09	16	09	08.6*	60.62 S	50.88 W	10 G		1.1	8	SCOTIA SEA
09	16	14	47.6*	37.934 N	122.026 W	12			22	CENTRAL CALIFORNIA. <GM-P>. MD 3.0 (GM). ML 2.9 (BRK), 2.9 (GS). Felt at Concord, Pleasant Hill and Walnut Creek.
09	16	24	55.3*	43.128 N	78.416 E	33 N	4.1	1.1	13	LAKE ISSYK-KUL REGION
09	16	58	44.8*	27.381 N	54.578 E	33 N	4.1	0.8	15	SOUTHERN IRAN
09	17	39	15.9	28.397 N	57.179 E	33 N	4.7	0.9	80	SOUTHERN IRAN
09	17	44	15.6*	59.715 N	151.965 W	51			44	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.8 (AEIC).
09	18	24	32.1*	27.302 N	126.885 E	150 G	4.0	1.1	15	NORTHWEST OF RYUKYU ISLANDS
09	18	42	05.3*	33.608 S	70.677 W	80 G		0.9	9	CHILE-ARGENTINA BORDER REGION. MD 2.5 (SAN).
09	19	24	13.1	10.598 N	63.486 W	20	6.2 6.8	1.3	350	NEAR COAST OF VENEZUELA. Mw 7.0 (HRV), 6.9 (GS). Me 6.5 (GS). Ms 7.0 (BRK). At least 81 people killed, 522 injured, 3,000 homeless, extensive damage and landslides in the Cariaco-Cumana area. Several people injured in the Barcelona-Puerto La Cruz area. Some damage on Isla de Margarita. Power, telephone and water services disrupted on Isla Coche and Isla de Margarita. Felt in much of northeastern Venezuela and as far west as Maracaibo. Felt (V) on Trinidad. Also felt on Tobago. Broadband Source Parameters (GS): Dep 10; NP1: Strike=175, Dip=88, Slip=-45; NP2: Strike=267, Dip=45, Slip=-177; Radiated energy 1.1*10**14 Nm. Moment Tensor (GS): Dep 25; Principal axes (scale 10**19 Nm): (T) Val=2.55, Plg=5, Azm=223; (N) Val=0.09, Plg=73, Azm=331; (P) Val=-2.63, Plg=16, Azm=132; Best double couple: Mo=2.6*10**19 Nm; NP1: Strike=268, Dip=75, Slip=-173; NP2: Strike=177, Dip=83, Slip=-15. Centroid, Moment Tensor (HRV): Centroid origin time 19:24:23.4; Lat 10.70 N; Lon 63.63 W; Dep 15.0 Bdy; Half-

duration 7.4 sec; Principal axes (scale 10**19 Nm): (T) Val=3.17, Plg=17, Azm=223; (N) Val=-0.16, Plg=62, Azm=349; (P) Val=-3.01, Plg=21, Azm=126; Best double couple: Mo=3.1*10**19 Nm; NP1: Strike=266, Dip=62, Slip=-177; NP2: Strike=174, Dip=87, Slip=-28. Scalar Moment (PPT): Mo=6.0*10**19 Nm.

19	26	22.0*	10.647 N	62.689 W	10 G	5.3	1.2	21	NEAR COAST OF VENEZUELA
09	20	04 02.2*	10.651 N	63.568 W	10 G	4.1	1.4	19	NEAR COAST OF VENEZUELA
09	20	06 14.1	10.498 N	63.527 W	10 G	5.2	0.9	167	NEAR COAST OF VENEZUELA
09	20	35 09.2	44.025 N	10.823 E	10 G		1.3	69	NORTHERN ITALY. ML 3.8 (STR), 3.5 (LDG), 3.4 (VIE).
09	20	53 43.6	10.493 N	63.501 W	10 G	4.6	1.0	60	NEAR COAST OF VENEZUELA
09	20	55 49.3*	10.358 N	63.466 W	10 G		0.6	12	NEAR COAST OF VENEZUELA
09	21	46 43.07	0.55 N	126.26 E	33 N	4.4	0.8	8	NORTHERN MOLUCCA SEA
09	22	20 26.07	5.49 N	72.88 W	265 ?	3.4	0.1	5	COLOMBIA
09	22	21 29.2	10.581 N	63.447 W	10 G	4.7	1.4	56	NEAR COAST OF VENEZUELA
09	22	25 32.8	36.356 N	71.091 E	228	3.8	0.5	39	AFGHANISTAN-TAJIKISTAN BORD REG.
09	23	15 38.57	1.01 S	138.86 E	33 N	3.5	1.2	7	NEAR NORTH COAST OF IRIAN JAYA
09	23	57 16.0*	11.155 N	63.244 W	10 G		1.1	9	CARIBBEAN SEA
09	23	57 28.4*	11.024 N	63.512 W	10 G		0.7	15	CARIBBEAN SEA
10	00	59 53.5*	62.863 N	150.626 W	97			21	CENTRAL ALASKA. <AEIC>.
10	01	01 58.9*	11.000 N	63.585 W	10 G	4.3	1.3	11	CARIBBEAN SEA
10	01	21 34.3	35.723 N	28.123 E	33 N	3.9	1.3	44	EASTERN MEDITERRANEAN SEA
10	01	39 15.9*	31.906 S	119.678 E	10 G		1.2	7	WESTERN AUSTRALIA
10	01	42 57.8*	1.280 S	132.831 E	33 N	4.3	1.5	13	IRIAN JAYA REGION, INDONESIA
10	02	46 52.7*	15.346 S	167.389 E	100 G	4.5	0.9	27	VANUATU ISLANDS
10	03	12 25.4*	3.841 S	142.377 E	33 N	3.7	1.1	6	NEAR N COAST OF NEW GUINEA, PNG.
10	03	23 31.8*	44.228 N	7.520 E	5 G		0.1	5	NORTHERN ITALY. ML 1.5 (LDG).
10	03	33 42.4	51.668 N	16.286 E	5 G		0.4	11	POLAND. ML 3.0 (VIE).
10	03	40 29.4	7.989 N	126.591 E	50 G	5.3 4.5	1.0	131	MINDANAO, PHILIPPINE ISLANDS. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 03:40:34.1; Lat 7.73 N; Lon 126.72 E; Dep 54.9 Fix; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.19, Plg=62, Azm=351; (N) Val=-0.34, Plg=22, Azm=212; (P) Val=-0.85, Plg=17, Azm=115; Best double couple: Mo=1.0*10**17 Nm; NP1: Strike=176, Dip=34, Slip=48; NP2: Strike=43, Dip=65, Slip=114.
10	04	01 36.8	1.170 S	132.875 E	33 N	5.0 4.7	1.2	55	IRIAN JAYA REGION, INDONESIA. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 04:01:36.0; Lat 1.01 S; Lon 133.05 E; Dep 29.8; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.43, Plg=26, Azm=310; (N) Val=-0.20, Plg=55, Azm=84; (P) Val=-1.23, Plg=22, Azm=209; Best double couple: Mo=1.3*10**17 Nm; NP1: Strike=349, Dip=55, Slip=177; NP2: Strike=80, Dip=87, Slip=35.
10	04	09 48.6*	2.788 N	125.091 E	100 G	4.3	0.9	14	TALAUD ISLANDS, INDONESIA
10	04	21 40.1	3.206 N	97.851 E	33 N	4.4	1.1	21	NORTHERN SUMATERA, INDONESIA
10	04	50 11.1*	44.461 N	6.916 E	5 G		0.4	6	FRANCE. ML 1.8 (LDG).
10	05	12 07.8*	28.350 N	130.319 E	33 N	3.7	1.3	12	RYUKYU ISLANDS
10	05	31 24.8*	33.528 S	68.520 W	10 G		0.7	11	MENDOZA PROVINCE, ARGENTINA. MD 3.9 (SAN).
10	06	37 13.1	28.444 N	138.970 E	503 D	4.1	1.1	46	BONIN ISLANDS REGION
10	06	49 27.9*	49.231 N	127.881 W	10 G	3.6		31	VANCOUVER ISLAND REGION. <PGC-P>. ML 4.0 (PGC).
10	07	10 32.9	47.658 S	32.103 E	10 G	4.4	0.7	18	PRINCE EDWARD ISLANDS REGION
10	07	14 19.4*	37.651 N	118.938 W	7			11	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.1 (GM).
10	08	19 57.9	21.783 N	121.740 E	33 N	4.8	0.9	55	TAIWAN REGION
10	08	54 21.6*	59.328 N	154.699 W	0			26	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).
10	09	06 45.4*	1.037 N	98.001 E	33 N	3.9	0.7	17	NORTHERN SUMATERA, INDONESIA
10	09	25 52.2*	12.736 N	145.443 E	33 N	4.0	0.5	8	SOUTH OF MARIANA ISLANDS
10	09	29 18.2*	28.474 N	143.301 E	34 D	4.5	1.3	22	BONIN ISLANDS REGION
10	09	31 55.47	4.92 S	129.46 E	33 N	3.4	1.2	6	BANDA SEA
10	10	01 35.47	15.19 S	173.61 W	33 N	4.5	1.5	15	TONGA ISLANDS
10	11	16 04.2*	46.134 N	14.787 E	10 G		0.2	5	NORTHWESTERN BALKAN REGION
10	11	28 09.87	30.40 N	67.36 E	33 N	4.0	1.3	8	PAKISTAN
10	12	07 57.5*	5.941 S	146.617 E	127	3.6	0.7	10	EASTERN NEW GUINEA REG., P.N.G.
10	12	19 00.07	1.27 N	120.65 E	33 N	4.1	0.9	11	MINAHASSA PENINSULA, SULAWESI
10	13	06 26.2	29.910 S	71.835 W	33 N	4.5	0.9	34	NEAR COAST OF CENTRAL CHILE. MD 4.7 (SAN). Felt (III) at Coquimbo.
10	13	10 48.1	10.747 S	113.716 E	33 N	5.1 4.9	1.3	92	SOUTH OF JAWA, INDONESIA. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 13:10:54.7; Lat 10.56 S; Lon 113.95 E; Dep 58.7; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.43, Plg=11, Azm=10; (N) Val=-0.55, Plg=62, Azm=120; (P) Val=-0.88, Plg=25, Azm=275; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=55, Dip=64, Slip=-169; NP2: Strike=320, Dip=80, Slip=-26.
10	13	57 51.0*	45.040 N	74.830 W	18 G			3	SOUTHERN ONTARIO, CANADA. <OTT-P>. mblg 2.9 (OTT). Felt at Cornwall.
10	13	59 54.7	29.814 N	94.923 E	33 N	4.8	0.9	62	EASTERN XIZANG-INDIA BORDER REG.
10	14	01 52.1*	44.460 N	7.557 E	10 G		0.5	8	NORTHERN ITALY. ML 2.6 (LDG).
10	14	03 37.7	11.311 N	60.719 W	5 G	3.7	1.3	9	WINDWARD ISLANDS
10	14	17 58.7	43.960 N	7.320 E	10 G		0.9	25	NEAR SOUTH COAST OF FRANCE. ML 2.7 (STR), 2.7 (LDG).
10	14	53 11.5	11.256 S	118.001 E	33 N	5.4 5.5	1.4	108	SOUTH OF SUMBAWA, INDONESIA. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 14:53:19.3; Lat 11.06 S; Lon 117.89 E; Dep 35.0 Bdy; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.44, Plg=9, Azm=123; (N) Val=0.30, Plg=9, Azm=215; (P) Val=-1.74, Plg=77, Azm=346; Best double couple: Mo=1.6*10**17 Nm; NP1: Strike=203, Dip=36, Slip=-105; NP2: Strike=41, Dip=55, Slip=-80.
10	14	55 49.4	22.733 S	70.894 W	33 N	5.1 5.3	1.1	74	NEAR COAST OF NORTHERN CHILE. Mw 5.9 (HRV). Felt (IV) at Mejillones and (III) at Maria Elena and Michilla. Centroid, Moment Tensor (HRV): Centroid origin time 14:55:52.6; Lat 22.95 S; Lon 71.25 W; Dep 15.0 Fix; Half-duration 1.8 sec; Principal axes (scale 10**17 Nm): (T)

Val=7.31, Plg=62, Azm=89; (N) Val=0.00, Plg=3, Azm=185; (P) Val=-7.30, Plg=28, Azm=276; Best double couple: Mo=7.3*10**17 Nm; NP1: Strike=14, Dip=17, Slip=100; NP2: Strike=184, Dip=73, Slip=87.

10 15 16 22.7* 24.022 S 177.811 W 300 G 4.3 1.2 21 SOUTH OF FIJI ISLANDS

10 15 50 37.9* 38.99 N 40.45 E 10 G 3.7 1.5 9 TURKEY

10 15 58 34.4* 33.360 S 71.262 W 50 G 0.3 9 NEAR COAST OF CENTRAL CHILE. MD 3.2 (SAN).

10 17 57 13.1 6.053 S 148.718 E 55 D 5.1 4.5 1.1 81 NEW BRITAIN REGION, P.N.G. Mw 5.1 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 17:57:22.1; Lat 6.08 S; Lon 148.72 E; Dep 49.5; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.24, Plg=81, Azm=0; (N) Val=0.85, Plg=1, Azm=266; (P) Val=-6.09, Plg=9, Azm=176; Best double couple: Mo=5.7*10**16 Nm; NP1: Strike=265, Dip=36, Slip=89; NP2: Strike=86, Dip=54, Slip=91.

10 18 06 30.6* 10.028 N 92.443 E 50 G 1.0 8 ANDAMAN ISLANDS, INDIA

10 18 37 20.6* 18.11 N 67.70 W 20 G 0.1 4 MONA PASSAGE. MD 2.8 (MPR).

10 18 38 16.4* 22.215 S 11.103 W 10 G 4.6 1.0 24 SOUTHERN MID-ATLANTIC RIDGE

10 18 48 39.9 44.329 N 129.351 W 10 G 4.6 1.1 73 OFF COAST OF OREGON

10 18 52 53.7* 21.280 S 67.439 W 50 G 3.9 1.0 7 CHILE-BOLIVIA BORDER REGION

10 19 10 44.2* 5.95 S 147.49 E 33 N 3.7 1.2 8 EASTERN NEW GUINEA REG., P.N.G.

10 19 24 12.0* 10.672 N 63.563 W 10 G 1.0 24 NEAR COAST OF VENEZUELA

10 19 46 37.2* 8.718 N 126.554 E 33 N 4.2 1.1 10 MINDANAO, PHILIPPINE ISLANDS

10 19 57 33.3* 37.744 N 3.863 W 10 G 0.8 5 SPAIN. mbLg 2.3 (MDD).

10 20 21 10.3* 59.582 N 151.903 W 58 34 KENAI PENINSULA, ALASKA. <AEIC>. ML 3.1 (AEIC).

10 20 43 04.3* 33.02 S 179.05 W 33 N 4.4 1.3 13 SOUTH OF KERMADec ISLANDS

10 21 41 15.9* 23.698 S 179.825 W 550 G 4.1 0.7 12 SOUTH OF FIJI ISLANDS

10 22 04 43.0* 33.267 S 70.410 W 100 G 0.4 10 CHILE-ARGENTINA BORDER REGION. MD 2.6 (SAN).

10 22 17 06.5* 51.657 N 143.269 E 33 N 1.5 8 SAKHALIN ISLAND

10 22 46 53.8* 56.90 S 26.43 W 33 N 4.3 1.1 7 SOUTH SANDWICH ISLANDS REGION

10 23 24 21.1 51.325 N 179.227 W 33 N 4.7 1.0 85 ANDREANOF ISLANDS, ALEUTIAN IS.

10 23 25 16.3* 34.70 S 54.58 E 10 G 4.1 0.6 6 SOUTHWEST INDIAN RIDGE

10 23 29 18.3 57.914 S 25.302 W 33 N 4.9 1.0 45 SOUTH SANDWICH ISLANDS REGION

10 23 41 42.9 34.694 S 54.607 E 10 G 5.3 5.0 1.0 139 SOUTHWEST INDIAN RIDGE. Mw 5.4 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 23:41:46.6; Lat 34.58 S; Lon 54.69 E; Dep 15.0 Fix; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=-1.54, Plg=1, Azm=12; (N) Val=-0.18, Plg=1, Azm=282; (P) Val=-1.37, Plg=89, Azm=135; Best double couple: Mo=1.5*10**17 Nm; NP1: Strike=103, Dip=44, Slip=-89; NP2: Strike=281, Dip=46, Slip=-91.

10 23 47 37.2* 32.102 N 49.721 E 33 N 1.4 11 WESTERN IRAN

10 23 56 45.4 35.757 N 26.971 E 33 N 3.8 1.2 30 CRETE

11 00 35 23.3* 48.290 N 154.796 E 33 N 4.3 1.1 19 KURIL ISLANDS

11 00 41 48.1* 34.916 S 54.399 E 10 G 4.7 0.9 26 SOUTHWEST INDIAN RIDGE

11 00 54 33.4 37.166 N 1.923 W 5 G 0.6 10 SPAIN. mbLg 3.0 (MDD).

11 01 21 07.8 46.625 N 10.229 E 5 G 0.9 34 NORTHERN ITALY. ML 2.7 (GRF), 2.6 (FUR), 2.6 (VIE), 2.5 (LDG).

11 01 21 38.3* 8.796 N 127.255 E 33 N 4.5 1.0 14 PHILIPPINE ISLANDS REGION

11 01 26 01.0* 47.580 N 122.530 W 1 7 WASHINGTON. <SEA-P>. MD 2.2 (SEA). Felt.

11 01 28 55.3* 47.594 N 122.551 W 8 28 WASHINGTON. <SEA-P>. MD 3.6 (SEA). Felt on Bainbridge Island and in the Seattle area.

11 01 43 54.5* 31.865 N 50.395 E 10 G 0.7 7 NORTHERN IRAN

11 02 02 13.0* 44.747 N 5.192 E 5 G 0.8 6 FRANCE. ML 1.9 (LDG).

11 02 03 49.8 44.269 N 129.360 W 10 G 4.9 5.0 1.2 134 OFF COAST OF OREGON. Mw 5.4 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 02:03:54.3; Lat 44.11 N; Lon 129.65 W; Dep 15.0 Fix; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=-1.43, Plg=1, Azm=256; (N) Val=-0.08, Plg=78, Azm=348; (P) Val=-1.35, Plg=12, Azm=165; Best double couple: Mo=1.4*10**17 Nm; NP1: Strike=301, Dip=81, Slip=-172; NP2: Strike=210, Dip=82, Slip=-9.

11 02 22 45.8* 61.021 N 150.068 W 38 88 SOUTHERN ALASKA. <AEIC>. ML 3.6 (AEIC), 3.6 (PMR). Felt (III) at Anchorage.

11 02 32 42.2 18.859 S 69.444 W 106 D 5.1 1.0 174 NORTHERN CHILE. Mw 5.4 (HRV). Felt (IV) at Arica and (II) at Pisagua. Also felt (II) at Arequipa, Peru.
Centroid, Moment Tensor (HRV): Centroid origin time 02:32:47.8; Lat 18.93 S; Lon 69.71 W; Dep 131.3; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.67, Plg=33, Azm=78; (N) Val=-0.19, Plg=3, Azm=170; (P) Val=-1.48, Plg=57, Azm=265; Best double couple: Mo=1.6*10**17 Nm; NP1: Strike=154, Dip=12, Slip=-106; NP2: Strike=351, Dip=78, Slip=-86.

11 02 59 15.9 35.150 N 24.951 E 70 G 0.8 18 CRETE

11 03 16 37.8 48.735 N 7.630 E 5 G 0.7 13 FRANCE. ML 2.3 (LDG).

11 03 23 50.2* 44.353 N 129.454 W 10 G 3.5 1.4 14 OFF COAST OF OREGON

11 06 14 54.1* 2.538 N 79.536 W 30 D 4.1 1.3 15 SOUTH OF PANAMA

11 06 17 42.7* 32.603 N 138.396 E 311 * 1.0 9 SOUTH OF HONSHU, JAPAN

11 06 37 51.5 38.822 N 119.641 W 5 G 0.9 10 CALIFORNIA-NEVADA BORDER REGION. MD 2.8 (GM).

11 06 40 23.0* 34.475 N 118.081 W 10 28 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS), 2.8 (GS).

11 06 59 28.7* 37.596 N 118.910 W 6 10 CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.0 (GM). ML 2.9 (GS).

11 07 30 36.1* 18.12 S 168.95 E 220 G 4.2 1.1 12 VANUATU ISLANDS

11 08 50 09.8 13.117 S 168.324 E 19 D 4.9 4.4 1.2 92 VANUATU ISLANDS

11 09 21 09.6* 71.839 N 0.794 W 10 G 3.7 1.1 9 JAN MAYEN ISLAND REGION

11 09 50 04.5* 3.808 S 121.497 E 33 N 4.0 1.2 13 SULAWESI, INDONESIA

11 09 55 12.5 5.697 S 110.796 E 574 D 5.6 1.0 191 JAVA SEA. Mw 6.0 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 09:55:17.3; Lat 5.70 S; Lon 110.65 E; Dep 592.1; Half-duration 2.3 sec; Principal axes (scale 10**17 Nm): (T) Val=9.35, Plg=18, Azm=23; (N) Val=0.40, Plg=42, Azm=130; (P) Val=-9.75, Plg=43, Azm=276; Best double couple: Mo=9.6*10**17 Nm; NP1: Strike=69, Dip=46, Slip=-158; NP2:

Strike=324, Dip=75, Slip=-46.

11	10	00	21.8	5.709 S	110.704 E	571 D	4.9	1.1	46	JAVA SEA
11	10	20	08.6*	7.345 S	129.478 E	33 N	4.3	1.3	17	BANDA SEA
11	10	22	42.5*	26.457 N	111.858 W	10 G	3.5	1.4	18	GULF OF CALIFORNIA
11	10	33	50.6*	35.546 S	54.596 E	10 G	4.5	1.1	21	SOUTH INDIAN OCEAN
11	10	57	31.0*	44.071 N	7.003 E	5 G		0.4	7	NORTHERN ITALY. ML 2.1 (LDG).
11	12	35	51.5	0.838 N	126.106 E	58 *	5.2 4.3	1.2	96	NORTHERN MOLUCCA SEA. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 12:35:53.9; Lat 0.78 N; Lon 126.07 E; Dep 81.7; Half- duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=-1.09, Plg=20, Azm=111; (N) Val=-0.20, Plg=70, Azm=281; (P) Val=-0.89, Plg=3, Azm=20; Best double couple: Mo=9.9*10**16 Nm; NP1: Strike=154, Dip=74, Slip=168; NP2: Strike=247, Dip=79, Slip=16.
11	14	54	49.0	21.818 N	94.884 E	138 D	5.3	0.8	229	MYANMAR. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 14:54:52.9; Lat 21.41 N; Lon 94.64 E; Dep 150.4; Half- duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=-1.41, Plg=48, Azm=44; (N) Val=-0.41, Plg=33, Azm=268; (P) Val=-1.00, Plg=23, Azm=162; Best double couple: Mo=1.2*10**17 Nm; NP1: Strike=208, Dip=37, Slip=24; NP2: Strike=98, Dip=76, Slip=124.
11	15	13	24.4*	53.824 N	165.172 W	66			3	FOX ISLANDS, ALEUTIAN ISLANDS. <AEIC>. ML 2.7 (AEIC).
11	15	32	48.3	44.809 N	146.658 E	155 D	4.8	0.9	195	KURIL ISLANDS
11	15	39	46.8*	61.466 N	151.997 W	4			5	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).
11	16	23	55.1*	39.31 N	140.73 E	153 ?		1.5	5	EASTERN HONSHU, JAPAN
11	16	24	07.1*	15.59 S	176.86 W	300 G	3.5	0.5	10	FIJI ISLANDS REGION
11	17	28	40.4	44.562 N	6.976 E	5 G		0.5	8	FRANCE. ML 2.3 (LDG).
11	17	46	18.6*	52.218 N	169.663 W	33 N	3.8	0.9	8	FOX ISLANDS, ALEUTIAN ISLANDS
11	17	50	20.6*	44.537 N	128.970 W	10 G	3.5	1.4	20	OFF COAST OF OREGON
11	17	52	08.0	0.519 N	126.117 E	56 *	4.7	0.9	29	NORTHERN MOLUCCA SEA
11	17	52	21.8	44.328 N	129.389 W	10 G	4.0 3.7	0.9	69	OFF COAST OF OREGON
11	18	57	20.4*	59.175 N	152.469 W	64			12	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).
11	20	32	49.0*	42.012 N	124.596 W	21			10	NEAR COAST OF OREGON. <SEA-P>. MD 2.7 (SEA). Felt.
11	21	08	30.7*	19.392 N	92.153 W	33 N	4.1	1.1	17	BAY OF CAMPECHE
11	23	00	47.9*	13.644 S	166.378 E	33 N	4.5	1.2	22	VANUATU ISLANDS
11	23	19	04.8*	16.021 N	46.999 W	10 G	4.3	0.9	10	NORTHERN MID-ATLANTIC RIDGE
12	00	47	12.5	10.627 N	63.323 W	10 G	4.6	1.2	47	NEAR COAST OF VENEZUELA
12	01	10	46.6*	18.018 S	175.143 W	214 *	4.1	0.9	28	TONGA ISLANDS
12	01	18	37.2	40.145 N	70.353 E	65 D	3.8	0.9	16	TAJIKISTAN
12	01	23	34.5	10.769 N	63.412 W	10 G	4.1	1.1	17	NEAR COAST OF VENEZUELA
12	01	51	19.3*	1.424 S	136.654 E	33 N	4.3	1.5	12	IRIAN JAYA REGION, INDONESIA
12	01	57	18.9*	33.181 S	70.368 W	100 G		0.9	9	CHILE-ARGENTINA BORDER REGION. MD 2.3 (SAN).
12	02	37	38.9*	19.025 N	145.269 E	600 G	3.8	1.2	14	MARIANA ISLANDS
12	02	44	46.9*	37.625 N	3.547 W	10 G		0.8	7	SPAIN. mbLg 2.4 (MDD).
12	03	45	53.2*	71.93 N	155.13 W	10 G		0.6	6	NORTHERN ALASKA
12	04	24	23.7*	7.35 S	128.42 E	33 N		1.4	12	BANDA SEA
12	05	09	47.9*	30.25 S	72.57 W	33 N		0.2	10	OFF COAST OF CENTRAL CHILE. MD 4.3 (SAN).
12	08	15	18.9*	8.289 N	82.727 W	10 G		0.9	7	PANAMA-COSTA RICA BORDER REGION
12	08	25	03.7*	12.53 N	87.32 W	100 G	4.0	1.0	10	NEAR COAST OF NICARAGUA
12	08	47	53.3*	27.75 N	143.53 E	33 N	4.0	1.5	7	BONIN ISLANDS REGION
12	09	58	33.2*	33.219 S	68.022 W	10 G		0.8	12	MENDOZA PROVINCE, ARGENTINA. MD 4.0 (SAN).
12	10	45	57.0*	2.83 S	67.74 E	10 G		0.9	7	CARLSBERG RIDGE
12	11	13	17.9*	34.025 N	116.092 W	6			27	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS), 2.8 (GS).
12	12	17	12.4*	33.101 S	71.398 W	50 G		0.3	9	NEAR COAST OF CENTRAL CHILE. MD 3.4 (SAN).
12	12	24	29.7*	44.070 N	129.585 W	10 G		0.6	29	OFF COAST OF OREGON
12	12	52	51.8*	51.39 N	175.43 E	33 N		0.7	6	RAT ISLANDS, ALEUTIAN ISLANDS
12	12	53	49.8*	6.36 S	147.37 E	33 N	3.6	0.2	6	EASTERN NEW GUINEA REG., P.N.G.
12	13	13	25.3*	18.617 N	66.740 W	50 G		0.5	7	PUERTO RICO REGION. MD 3.0 (MPR).
12	13	39	08.1	54.737 N	111.397 E	10 G	4.3	1.1	17	LAKE BAYKAL REGION, RUSSIA
12	15	18	00.9*	11.430 N	60.968 W	10 G		0.6	7	WINDWARD ISLANDS
12	15	18	22.8	47.209 N	11.351 E	10 G		1.1	55	AUSTRIA. ML 3.3 (GRF), 3.3 (STR), 3.1 (VIE), 3.1 (LDG), 3.0 (FUR). Felt (IV) at Axams.
12	16	13	24.5*	5.190 S	152.956 E	33 N	4.5	0.9	14	NEW BRITAIN REGION, P.N.G.
12	16	24	10.3	21.231 S	68.154 W	123 D	5.2	1.0	175	CHILE-BOLIVIA BORDER REGION. Mw 5.3 (HRV). Felt (IV) at San Pedro de Atacama and (III) at Calama and Chuquicamata, Chile. Centroid, Moment Tensor (HRV): Centroid origin time 16:24:14.5; Lat 21.50 S; Lon 68.39 W; Dep 141.0; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=-9.54, Plg=11, Azm=53; (N) Val=-1.48, Plg=23, Azm=148; (P) Val=-8.06, Plg=64, Azm=300; Best double couple: Mo=8.8*10**16 Nm; NP1: Strike=117, Dip=40, Slip=-129; NP2: Strike=343, Dip=60, Slip=-63.
12	16	46	17.1*	34.153 N	117.335 W	8			26	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.7 (PAS), 2.9 (GS).
12	17	22	02.4*	19.013 S	168.949 E	131 ?	4.0	0.8	17	VANUATU ISLANDS
12	17	47	59.4*	35.556 N	140.440 E	73 *		0.9	7	NEAR EAST COAST OF HONSHU, JAPAN
12	18	05	40.7*	34.155 N	117.329 W	9			33	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS), 3.4 (GS). Felt in the San Bernardino area.
12	19	23	33.9*	51.54 N	16.06 E	5 G		0.1	5	POLAND. ML 2.9 (VIE).
12	19	50	27.4	43.047 N	0.612 W	10 G		0.9	14	KURIL ISLANDS
12	20	03	04.2*	51.408 N	16.184 E	5 G		0.4	8	PYRENEES. ML 2.3 (LDG), 2.0 (STR).
12	20	27	39.6	6.192 S	130.430 E	182 *	4.3	0.5	7	POLAND. ML 3.0 (VIE).
12	21	10	28.4*	11.279 N	60.666 W	10 G		1.1	22	BANDA SEA
12	21	52	57.0*	51.078 N	15.769 E	5 G		0.3	7	WINDWARD ISLANDS
12	22	01	32.1	9.052 S	110.668 E	33 N	4.4	0.6	6	POLAND. ML 2.9 (VIE).
12	22	02	10.4*	42.862 N	46.239 E	33 N	3.3	0.8	38	SOUTH OF JAWA, INDONESIA
12	22	05	59.4*	9.68 S	110.57 E	33 N		1.4	7	EASTERN CAUCASUS
12	22	09	28.3*	9.142 S	110.489 E	33 N	4.1	1.1	8	SOUTH OF JAWA, INDONESIA
12	22	20	40.7*	31.914 S	70.184 W	100 G		1.2	11	SOUTH OF JAWA, INDONESIA
12	22	36	03.7*	9.083 S	110.510 E	33 N	3.9	0.6	11	CHILE-ARGENTINA BORDER REGION. MD 3.3 (SAN).
12	22	49	17.1	9.045 S	110.527 E	33 N	4.6 4.9	0.7	15	SOUTH OF JAWA, INDONESIA
								0.9	47	SOUTH OF JAWA, INDONESIA. Mw 5.3 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 22:49:26.0; Lat 9.24 S; Lon 110.31 E; Dep 50.2; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.13, Plg=67, Azm=75; (N) Val=0.00, Plg=18, Azm=295; (P) Val=-1.13, Plg=14, Azm=200; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=267, Dip=35, Slip=57; NP2: Strike=125, Dip=61, Slip=111.

12	22	51	47.47	10.87	S	110.98	E	33	N	4.1	0.9	9	SOUTH OF JAWA, INDONESIA
12	23	00	56.0*	8.997	S	110.652	E	33	N	3.7	0.6	16	JAWA, INDONESIA
12	23	05	54.0*	11.073	N	126.118	E	33	N	4.4	1.2	19	PHILIPPINE ISLANDS REGION
12	23	41	09.7*	29.869	N	88.446	E	33	N		0.8	11	XIZANG
12	23	43	12.3*	37.159	N	3.858	W	10	G		1.6	6	SPAIN. mbLg 2.1 (MDD).
12	23	55	33.8	13.575	N	120.880	E	150	G	4.6	0.9	31	MINDORO, PHILIPPINE ISLANDS
13	00	12	53.5	19.979	S	177.714	W	450	G	4.0	0.7	24	FIJI ISLANDS REGION
13	00	42	06.5	10.402	N	63.697	W	10	G	4.3	1.2	20	NEAR COAST OF VENEZUELA
13	01	02	21.6*	46.226	N	152.796	E	33	N	4.3	1.2	31	KURIL ISLANDS
13	01	07	12.7	8.967	S	110.610	E	33	N	4.6	0.7	37	JAWA, INDONESIA
13	01	09	30.2*	39.652	N	77.243	E	33	N	3.6	0.4	8	SOUTHERN XINJIANG, CHINA
13	01	26	29.0*	9.223	S	113.325	E	33	N	4.3	1.3	13	SOUTH OF JAWA, INDONESIA
13	01	29	23.7*	34.151	N	117.332	W	9				24	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS), 2.9 (GS).
13	01	31	13.5	19.251	S	178.974	W	500	G		0.7	7	FIJI ISLANDS REGION
13	01	42	58.8	29.618	N	68.429	E	33	N	4.4	1.1	44	PAKISTAN
13	01	54	38.8	29.549	N	68.398	E	33	N	4.5	0.9	51	PAKISTAN
13	02	05	30.2*	4.85	N	60.86	E	10	G		0.2	5	CARLSBERG RIDGE
13	02	24	25.2*	8.31	S	129.72	E	150	G	4.2	1.4	8	TIMOR SEA
13	02	43	00.5*	8.66	S	110.99	E	33	N		1.1	6	JAWA, INDONESIA
13	02	59	16.5*	46.804	N	11.945	E	10	G		0.1	6	NORTHERN ITALY. ML 1.7 (VIE).
13	03	13	19.1*	32.65	S	70.11	W	120	G		0.3	9	CHILE-ARGENTINA BORDER REGION. MD 2.9 (SAN).
13	04	34	23.1*	59.596	N	153.090	W	114		3.6		28	SOUTHERN ALASKA. <AEIC>.
13	04	51	26.8*	8.970	S	111.016	E	33	N		1.0	14	JAWA, INDONESIA
13	05	02	51.6*	16.584	S	174.742	W	203	D	4.4	0.9	25	TONGA ISLANDS
13	05	15	46.7*	8.853	S	110.713	E	33	N		1.2	14	JAWA, INDONESIA
13	05	33	25.8*	7.26	S	146.73	E	33	N	3.0	1.5	8	EASTERN NEW GUINEA REG., P.N.G.
13	05	48	19.5*	35.813	N	22.481	E	33	N		0.9	6	CENTRAL MEDITERRANEAN SEA
13	05	59	13.1*	6.030	N	72.982	W	33	N	4.0	1.1	14	NORTHERN COLOMBIA
13	06	08	08.6*	2.85	S	148.07	E	33	N	3.5	0.4	6	ADMIRALTY ISLANDS REGION, P.N.G.
13	06	12	35.7	9.002	N	80.521	W	10	G		0.8	9	PANAMA
13	07	02	49.1*	15.411	S	174.651	W	100	G		1.1	11	TONGA ISLANDS
13	07	25	16.8*	14.01	S	178.01	W	33	N		1.3	8	FIJI ISLANDS REGION
13	08	55	21.2*	8.88	S	110.84	E	33	N		1.3	10	JAWA, INDONESIA
13	10	14	00.5*	19.22	S	177.75	W	500	G	3.8	0.7	9	FIJI ISLANDS REGION
13	10	35	18.5*	37.218	N	3.757	W	10	G		0.8	9	SPAIN. mbLg 2.4 (MDD).
13	10	53	49.3*	41.67	S	85.37	E	10	G	4.3	1.5	7	SOUTHEAST INDIAN RIDGE
13	11	21	09.5	32.132	S	68.250	W	119		3.9	1.0	30	MENDOZA PROVINCE, ARGENTINA. MD 4.3 (SAN).
13	11	53	36.7*	28.451	N	143.650	E	33	N	4.1	1.7	9	BONIN ISLANDS REGION
13	13	27	10.9*	51.64	N	173.53	E	33	N		0.2	5	NEAR ISLANDS, ALEUTIAN ISLANDS
13	13	56	40.9*	1.92	S	128.21	E	33	N	4.1	0.6	8	HALMAHERA, INDONESIA
13	14	34	06.3*	9.017	S	110.652	E	33	N	4.6	1.2	33	SOUTH OF JAWA, INDONESIA
13	14	43	00.9	7.353	S	126.692	E	296	D	5.0	0.9	103	BANDA SEA. Mw 5.3 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 14:43:05.3; Lat 7.33 S; Lon 126.72 E; Dep 313.0; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.18, Plg=61, Azm=173; (N) Val=-0.17, Plg=28, Azm=335; (P) Val=-1.02, Plg=8, Azm=69; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=188, Dip=45, Slip=132; NP2: Strike=316, Dip=59, Slip=56.

13	15	02	02.8*	8.967	S	110.693	E	33	N	3.5	0.9	10	JAWA, INDONESIA
13	15	02	02.9*	13.918	N	124.947	E	33	N		0.9	7	LUZON, PHILIPPINE ISLANDS
13	15	13	39.5*	24.007	S	66.937	W	181	*	4.3	1.1	32	SALTA PROVINCE, ARGENTINA
13	15	25	42.1*	29.603	N	68.317	E	33	N	4.2	1.2	11	PAKISTAN
13	15	34	06.4*	15.436	S	173.288	W	33	N	4.4	0.9	32	TONGA ISLANDS
13	16	13	08.5*	15.292	N	41.930	E	10	G	4.2	0.9	19	RED SEA
13	16	13	24.4*	54.225	N	169.292	E	33	N	3.7	1.3	17	KOMANDORSKY ISLANDS REGION
13	16	36	08.5*	9.39	S	109.42	E	33	N	3.7	1.2	8	SOUTH OF JAWA, INDONESIA
13	17	33	31.9*	16.385	S	173.616	W	33	N	4.4	1.0	10	TONGA ISLANDS
13	18	01	48.7*	33.498	S	70.254	W	100	G		0.3	10	CHILE-ARGENTINA BORDER REGION. MD 2.8 (SAN).
13	18	10	19.9	23.626	S	68.118	W	125	D	5.2	1.1	162	NORTHERN CHILE. Mw 5.3 (HRV). Felt (IV) at San Pedro de Atacama and (III) at Calama.

Centroid, Moment Tensor (HRV): Centroid origin time 18:10:25.5; Lat 23.34 S; Lon 68.53 W; Dep 140.5; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.25, Plg=31, Azm=52; (N) Val=-0.34, Plg=58, Azm=249; (P) Val=-0.90, Plg=8, Azm=146; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=193, Dip=63, Slip=18; NP2: Strike=95, Dip=74, Slip=152.

13	18	12	14.6*	45.58	N	26.50	E	150	G		0.6	5	ROMANIA
13	18	50	38.0*	15.186	N	41.986	E	10	G	4.2	0.8	22	RED SEA
13	19	39	18.9	36.917	N	95.381	E	33	N	4.6	0.6	34	QINGHAI, CHINA
13	19	49	00.5*	36.072	N	69.019	E	131	?		0.6	7	HINDU KUSH REGION, AFGHANISTAN
13	19	51	36.3*	6.336	S	148.590	E	33	N	3.5	1.1	8	NEW BRITAIN REGION, P.N.G.
13	19	54	26.0*	60.131	N	152.826	W	89				16	SOUTHERN ALASKA. <AEIC>.
13	20	28	17.0	30.769	S	72.144	W	33	N	4.0	0.5	15	OFF COAST OF CENTRAL CHILE. MD 4.6 (SAN).
13	22	25	42.0*	32.902	N	60.242	E	10	G	4.1	1.0	16	NORTHERN IRAN. Felt at Birjand and Qayen.
13	22	26	36.8*	49.17	N	128.80	W	10	G	3.3	1.3	5	VANCOUVER ISLAND REGION
13	23	09	45.3*	1.274	N	85.151	W	33	N	4.5	1.3	42	OFF COAST OF ECUADOR
13	23	51	11.6*	1.267	S	80.485	W	33	N	4.3	1.2	21	NEAR COAST OF ECUADOR
14	00	37	23.0	45.866	N	26.675	E	140		3.6	1.4	31	ROMANIA
14	00	43	05.0*	15.76	S	174.34	W	33	N	4.1	0.8	7	TONGA ISLANDS
14	01	03	39.9*	52.065	N	172.738	E	33	N	3.8	0.6	14	NEAR ISLANDS, ALEUTIAN ISLANDS
14	01	35	30.6*	31.79	S	71.06	W	100	G		0.5	10	NEAR COAST OF CENTRAL CHILE. MD 3.1 (SAN).
14	01	41	46.0*	59.813	N	152.472	W	76				37	SOUTHERN ALASKA. <AEIC>.
14	02	15	33.8*	3.59	N	128.94	E	33	N	3.9	1.3	8	NORTH OF HALMAHERA, INDONESIA
14	02	57	56.5	45.858	N	7.064	E	5	G		1.1	49	NORTHERN ITALY. ML 3.1 (STR), 3.0 (LDG).

14	04	24	18.8	46.274	N	13.059	E	10	G	1.2	58	AUSTRIA. ML 3.6 (GRF), 3.5 (STR), 3.1 (LDG), 3.1 (VIE).	
14	04	54	05.67	31.92	S	70.72	W	100	G	0.4	9	CHILE-ARGENTINA BORDER REGION. MD 2.7 (SAN).	
14	05	06	06.1	59.259	S	26.324	W	73	D	0.9	24	SOUTH SANDWICH ISLANDS REGION	
14	05	41	20.26	63.180	N	150.783	W	138			41	CENTRAL ALASKA. <AEIC>.	
14	06	11	11.86	37.180	N	122.324	W	15			31	CENTRAL CALIFORNIA. <GM-P>. Mw 3.5 (BRK). MD 3.6 (GM). ML 3.8 (BRK), 3.6 (GS). Felt at Santa Cruz and in the Santa Cruz Mountains. Felt as far north as Atherton and in the San Francisco Bay area.	
												Moment Tensor (BRK): Dep 11; Principal axes (scale 10**14 Nm): (T) Val=-2.13, Plg=56, Azm=108; (N) Val=0.00, Plg=29, Azm=322; (P) Val=-2.13, Plg=16, Azm=223; Best double couple: Mo=2.1*10**14 Nm; NP1: Strike=156, Dip=67, Slip=122; NP2: Strike=278, Dip=39, Slip=39.	
14	07	15	10.5*	11.944	N	39.235	E	10	G	3.8	0.9	7	ETHIOPIA
14	09	12	22.88	36.802	N	2.958	W	10	G		0.9	16	STRAIT OF GIBRALTAR. mbLg 3.2 (MDD). Felt (III) in the Adra area, Spain.
14	09	31	41.6	45.464	N	6.472	E	5	G		0.8	30	FRANCE. ML 2.8 (LDG), 2.4 (STR).
14	09	43	43.0	36.936	N	95.318	E	14	D	4.8	0.8	66	QINGHAI, CHINA
14	10	02	53.18	44.414	N	8.461	E	5	G		0.5	7	NORTHERN ITALY. ML 2.2 (LDG).
14	10	20	37.56	32.631	N	115.904	W	6				24	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.2 (PAS), 3.1 (GS). MD 3.3 (ECX).
14	10	21	06.27	11.17	N	87.80	W	33	N	4.3	1.3	13	NEAR COAST OF NICARAGUA
14	10	52	37.4*	18.331	N	145.350	E	122	*	4.2	1.0	25	MARIANA ISLANDS
14	11	05	00.37	1.58	N	127.33	E	33	N	3.5	0.9	6	HALMAHERA, INDONESIA
14	11	10	24.78	7.429	N	127.333	E	33	N		1.0	7	PHILIPPINE ISLANDS REGION
14	11	24	57.9	33.619	N	4.156	W	10	G	4.3	1.3	30	MOROCCO. mbLg 3.7 (MDD).
14	11	57	38.7*	24.193	N	125.228	E	33	N		1.1	11	SOUTHWESTERN RYUKYU ISLANDS
14	12	49	21.1	36.066	N	69.251	E	90	*	4.3	0.8	63	HINDU KUSH REGION, AFGHANISTAN
14	12	54	46.57	6.78	S	112.09	E	33	N	4.2	0.9	8	JAWA, INDONESIA
14	13	28	59.4*	23.740	S	67.193	W	194	?	4.2	1.1	9	CHILE-ARGENTINA BORDER REGION
14	13	29	18.3*	15.491	N	42.219	E	10	G	4.4	0.9	17	WESTERN ARABIAN PENINSULA
14	13	30	51.4*	10.947	N	126.084	E	33	N	4.8	1.5	18	PHILIPPINE ISLANDS REGION
14	13	32	06.8	35.402	N	140.021	E	18	*		1.0	13	NEAR EAST COAST OF HONSHU, JAPAN
14	13	59	10.5	38.957	N	70.538	E	33	N	4.3	0.9	26	AFGHANISTAN-TAJIKISTAN BORD REG.
14	14	36	03.2*	9.415	S	110.269	E	33	N	3.8	0.9	8	SOUTH OF JAWA, INDONESIA
14	14	47	29.27	23.26	S	179.75	E	600	G		1.3	10	SOUTH OF FIJI ISLANDS
14	14	54	35.56	35.771	N	117.657	W	6				34	CENTRAL CALIFORNIA. <PAS-P>. ML 3.0 (PAS), 3.2 (GS).
14	15	22	11.6*	17.901	S	178.342	W	462	*	4.5	0.9	22	FIJI ISLANDS REGION
14	15	41	03.2*	7.471	S	126.597	E	292	*		1.0	18	BANDA SEA
14	15	49	51.4	35.944	N	1.167	E	10	G	4.7 4.3	1.0	119	NORTHERN ALGERIA. Felt in the Relizane area.
14	16	09	35.5	43.249	N	146.381	E	33	N	5.9 5.8	0.8	414	KURIL ISLANDS. Mw 6.1 (GS), 6.1 (HRV). Me 6.1 (GS). Felt (IV) at Yuzhno-Kurilsk.
													Broadband Source Parameters (GS): Dep 29; NP1: Strike=255, Dip=40, Slip=140; NP2: Strike=18, Dip=66, Slip=57; Radiated energy 2.7*10**13 Nm.
													Moment Tensor (GS): Dep 35; Principal axes (scale 10**18 Nm): (T) Val=-1.49, Plg=66, Azm=254; (N) Val=-0.02, Plg=12, Azm=12; (P) Val=-1.47, Plg=21, Azm=106; Best double couple: Mo=1.5*10**18 Nm; NP1: Strike=216, Dip=26, Slip=117; NP2: Strike=7, Dip=67, Slip=77.
													Centroid, Moment Tensor (HRV): Centroid origin time 16:09:40.5; Lat 43.19 N; Lon 146.47 E; Dep 34.0 Bdy; Half-duration 2.9 sec; Principal axes (scale 10**18 Nm): (T) Val=1.73, Plg=60, Azm=250; (N) Val=0.14, Plg=19, Azm=17; (P) Val=-1.87, Plg=22, Azm=115; Best double couple: Mo=1.8*10**18 Nm; NP1: Strike=236, Dip=28, Slip=133; NP2: Strike=9, Dip=70, Slip=70.
14	16	28	02.38	35.485	N	78.412	E	33	N		0.9	7	EASTERN KASHMIR
14	17	54	07.88	45.246	N	6.797	E	5	G		0.9	7	FRANCE. ML 2.1 (LDG).
14	18	41	42.78	23.930	N	121.724	E	33	N		1.4	11	TAIWAN
14	20	29	26.0*	23.379	N	143.935	E	33	N	3.7	1.4	13	VOLCANO ISLANDS REGION
14	21	02	46.88	15.338	S	174.400	W	33	N		0.5	8	TONGA ISLANDS
14	21	16	11.1*	10.481	N	63.639	W	10	G	3.7	1.5	11	NEAR COAST OF VENEZUELA
14	21	54	22.4*	31.509	S	69.778	W	140	G		0.6	12	SAN JUAN PROVINCE, ARGENTINA. MD 3.4 (SAN).
14	21	55	56.7*	64.961	N	164.722	W	10	G		1.0	10	NORTHERN ALASKA. ML 4.4 (AEIC). Felt at Nome.
14	22	11	27.5*	15.082	S	174.013	W	33	N	4.3	0.8	10	TONGA ISLANDS
14	22	42	21.36	60.968	N	147.578	W	32				87	SOUTHERN ALASKA. <AEIC>. ML 4.0 (AEIC), 3.9 (PMR). Felt (II) at Valdez.
14	23	00	50.96	37.512	N	118.550	W	11				9	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.0 (GM).
14	23	41	59.06	59.540	N	76.310	W	18	G	4.2		25	NORTHERN QUEBEC, CANADA. <OTT-P>. mbLg 4.5 (OTT).
14	23	52	16.67	15.77	S	179.15	W	33	N	4.1	0.8	11	FIJI ISLANDS REGION
15	00	01	02.0*	5.704	S	149.237	E	150	G	4.3	1.2	12	NEW BRITAIN REGION, P.N.G.
15	00	18	52.17	4.54	S	144.68	E	33	N		1.0	6	NEAR N COAST OF NEW GUINEA, PNG.
15	00	37	15.2*	1.465	S	134.143	E	33	N	4.1	0.7	9	IRIAN JAYA REGION, INDONESIA
15	01	26	29.17	17.48	N	97.49	W	108	D	4.0	1.4	15	OAXACA, MEXICO
15	02	04	15.4*	58.660	S	25.403	W	33	N	4.4	0.9	26	SOUTH SANDWICH ISLANDS REGION
15	02	24	45.57	1.58	N	127.03	E	100	G	4.3	0.4	10	HALMAHERA, INDONESIA
15	02	55	59.5*	15.475	S	177.694	W	400	G	3.8	0.7	17	FIJI ISLANDS REGION
15	03	24	00.7*	4.505	N	76.581	W	93	D	3.6	1.4	20	COLOMBIA
15	03	24	58.9*	36.495	N	70.722	E	202	D		0.7	12	HINDU KUSH REGION, AFGHANISTAN
15	03	30	27.0	3.693	S	131.467	E	33	N	4.9	1.4	33	IRIAN JAYA REGION, INDONESIA
15	03	36	34.4	3.465	N	126.470	E	33	N	4.6	1.1	26	TALAUD ISLANDS, INDONESIA
15	03	53	58.3	23.183	S	63.424	W	33	N	4.7	1.1	41	SALTA PROVINCE, ARGENTINA
15	04	21	29.5*	16.912	N	85.705	W	43	D	4.3	1.0	19	CARIBBEAN SEA
15	04	39	23.0	36.903	N	95.265	E	15	D	4.8	0.7	62	QINGHAI, CHINA
15	04	45	15.2*	10.595	N	122.441	E	33	N	4.6	1.2	26	PANAY, PHILIPPINE ISLANDS
15	04	56	31.7	47.481	N	12.592	E	5	G		0.7	8	AUSTRIA. ML 2.5 (VIE).
15	05	01	00.18	44.035	N	3.231	W	5	G		0.6	10	BAY OF BISCAY. ML 2.6 (LDG).
15	05	39	48.87	9.34	S	110.11	E	33	N		1.1	6	SOUTH OF JAWA, INDONESIA
15	06	07	58.26	66.416	N	155.535	W	70				13	NORTHERN ALASKA. <AEIC>.
15	06	18	48.5*	52.278	N	157.138	E	135	D	4.3	0.8	28	KAMCHATKA
15	06	26	17.1	5.679	S	131.628	E	87	*	4.8	1.1	40	BANDA SEA
15	06	56	39.87	28.11	N	141.99	E	33	N	4.0	1.5	8	BONIN ISLANDS REGION

15	07	57	08.17	11.92	N	89.23	W	33	N	4.2	1.3	9	OFF COAST OF CENTRAL AMERICA
15	09	59	22.0	30.158	N	108.144	E	33	N	4.5	1.0	24	SICHUAN, CHINA
15	10	41	51.7*	3.450	N	73.761	W	33	N		1.0	7	COLOMBIA
15	10	47	49.6*	44.334	N	7.507	E	5	G		0.6	6	NORTHERN ITALY. ML 2.3 (LDG).
15	11	05	31.3	24.711	N	122.448	E	103	D	5.6	1.0	292	TAIWAN REGION. Mw 5.6 (GS), 5.6 (HRV). mb 6.2 (BRK). Felt (III JMA) in eastern Hua-lien and I-lan; (I JMA) in the western part of Taiwan. Felt in much of Taiwan. Moment Tensor (GS): Dep 93; Principal axes (scale 10**17 Nm): (T) Val=-2.65, Plg=64, Azm=65; (N) Val=0.01, Plg=7, Azm=169; (P) Val=-2.65, Plg=25, Azm=263; Best double couple: Mo=2.7*10**17 Nm; NP1: Strike=8, Dip=21, Slip=110; NP2: Strike=167, Dip=70, Slip=83. Centroid, Moment Tensor (HRV): Centroid origin time 11:05:33.7; Lat 24.52 N; Lon 122.28 E; Dep 108.7; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.57, Plg=59, Azm=57; (N) Val=-0.26, Plg=16, Azm=176; (P) Val=-2.31, Plg=26, Azm=273; Best double couple: Mo=2.4*10**17 Nm; NP1: Strike=35, Dip=24, Slip=132; NP2: Strike=170, Dip=72, Slip=73.
15	12	14	32.5*	5.360	S	152.661	E	33	N	4.5	1.2	17	NEW BRITAIN REGION, P.N.G.
15	12	32	46.1	15.868	S	72.768	W	97	D	4.7	1.0	70	SOUTHERN PERU
15	12	58	18.9*	44.490	N	7.596	E	10	G		0.2	6	NORTHERN ITALY. ML 2.3 (LDG).
15	13	08	52.8*	12.560	N	123.143	E	33	N	4.6	1.1	10	LUZON, PHILIPPINE ISLANDS
15	13	13	33.9*	36.998	N	3.744	W	10	G		0.7	6	STRAIT OF GIBRALTAR. mbLg 2.6 (MDD).
15	13	38	27.4*	53.649	N	165.029	W	16			13	FOX ISLANDS, ALEUTIAN ISLANDS. <AEIC>. ML 2.6 (AEIC).	
15	13	58	36.1*	40.664	N	48.893	E	33	N	4.0	0.9	14	EASTERN CAUCASUS
15	14	34	09.9*	34.038	N	117.239	W	15			27	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).	
15	15	40	31.0*	3.58	N	128.63	E	33	N	4.2	1.3	11	NORTH OF HALMAHERA, INDONESIA
15	17	01	53.5*	60.220	N	147.278	W	7			24	SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC).	
15	17	06	06.7*	6.180	S	146.880	E	100	G	3.9	1.1	14	EASTERN NEW GUINEA REG., P.N.G.
15	17	21	10.5*	58.666	N	153.810	W	76			17	KODIAK ISLAND REGION. <AEIC>.	
15	17	35	34.3*	23.411	S	66.662	W	200	G	4.4	1.1	27	JUJUY PROVINCE, ARGENTINA
15	17	43	59.9	8.850	N	82.830	W	33	N	4.7 4.3	1.1	101	PANAMA-COSTA RICA BORDER REGION. Slight damage at David, Panama.
15	18	52	27.1*	31.699	S	70.785	W	90	G		0.4	11	CHILE-ARGENTINA BORDER REGION. MD 3.4 (SAN).
15	19	27	13.1*	16.877	S	72.629	W	73	?	4.3	1.1	21	NEAR COAST OF PERU
15	19	45	18.6*	17.267	S	168.497	E	250	G	4.5	0.8	23	VANUATU ISLANDS
15	20	35	40.9	43.250	N	0.348	W	5	G		1.1	35	PYRENEES. mbLg 3.4 (MDD). ML 3.3 (LDG), 2.9 (STR). Felt (III) in the Bearn region, France.
15	21	00	41.5	38.333	N	26.798	W	10	G	4.5 4.0	0.9	81	AZORES ISLANDS
15	21	32	41.6*	33.607	N	141.702	E	33	N	4.3	0.9	8	OFF EAST COAST OF HONSHU, JAPAN
15	22	31	50.5*	43.577	N	7.858	E	5	G		0.0	5	NEAR SOUTH COAST OF FRANCE. ML 1.7 (LDG).
15	22	35	02.3*	35.31	S	71.35	W	110	G		0.3	10	CENTRAL CHILE. MD 3.5 (SAN).
15	22	40	06.6	45.448	N	10.464	E	5	G		0.9	17	NORTHERN ITALY. ML 2.4 (VIE), 2.3 (LDG).
15	22	54	09.7*	43.745	N	2.515	W	5	G		0.7	11	SPAIN. ML 2.5 (LDG).
15	22	55	41.9*	44.477	N	6.885	E	5	G		0.3	9	FRANCE. ML 2.1 (LDG).
15	22	58	04.7*	60.105	N	152.745	W	105			25	SOUTHERN ALASKA. <AEIC>.	
16	01	11	33.2*	42.87	N	1.06	E	10	G		0.5	4	PYRENEES. ML 2.4 (LDG).
16	01	59	55.7*	7.99	S	109.54	W	10	G	3.5	0.9	8	CENTRAL EAST PACIFIC RISE
16	02	10	00.0	21.899	S	176.903	W	183	D	4.6	1.0	73	FIJI ISLANDS REGION
16	03	52	38.6*	10.820	S	161.771	E	33	N	4.8	1.0	14	SOLOMON ISLANDS
16	04	27	13.5*	6.794	N	73.045	W	175	*	4.2	0.8	24	NORTHERN COLOMBIA
16	05	19	58.2*	3.508	N	128.802	E	33	N	4.7	1.2	12	NORTH OF HALMAHERA, INDONESIA
16	06	04	06.7*	57.450	N	156.371	W	0		3.9	48	ALASKA PENINSULA. <AEIC>. ML 3.8 (AEIC), 3.9 (PMR).	
16	06	21	12.0	28.555	N	43.631	W	10	G	4.4 4.0	0.7	23	NORTHERN MID-ATLANTIC RIDGE
16	07	15	32.7*	59.967	N	151.643	W	49			101	KENAI PENINSULA, ALASKA. <AEIC>. ML 3.9 (AEIC), 3.6 (PMR).	
16	07	32	24.2	8.120	S	74.316	W	159	D	4.6	0.8	106	PERU-BRAZIL BORDER REGION
16	08	37	19.0*	44.32	N	7.55	E	10	G		0.4	5	NORTHERN ITALY. ML 2.2 (LDG).
16	09	39	25.6*	51.33	N	178.66	W	33	N	4.1	0.6	7	ANDREANOF ISLANDS, ALEUTIAN IS.
16	09	46	03.3*	2.224	S	138.293	E	33	N		0.9	8	IRIAN JAYA, INDONESIA
16	10	06	07.1	39.099	N	25.202	E	10	G	4.6 3.9	1.2	144	AEGEAN SEA. ML 4.5 (THE). Felt at Burhaniye, Turkey.
16	10	14	12.0*	39.615	N	120.063	W	12			3	NORTHERN CALIFORNIA. <GM-P>. MD 2.8 (GM).	
16	10	36	38.3*	28.474	N	43.857	W	10	G	4.2	1.3	25	NORTHERN MID-ATLANTIC RIDGE
16	10	43	27.2*	28.489	N	43.664	W	10	G	4.6	0.9	24	NORTHERN MID-ATLANTIC RIDGE
16	10	44	30.8*	28.371	N	43.551	W	10	G	4.3	0.9	15	NORTHERN MID-ATLANTIC RIDGE
16	10	47	27.5	28.642	N	43.758	W	10	G	4.7 4.7	0.9	74	NORTHERN MID-ATLANTIC RIDGE
16	10	53	10.0	28.453	N	43.700	W	10	G	4.9 5.1	1.1	98	NORTHERN MID-ATLANTIC RIDGE. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 10:53:16.9; Lat 28.60 N; Lon 43.50 W; Dep 15.0 Fix; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=-1.44, Plg=0, Azm=100; (N) Val=0.12, Plg=0, Azm=10; (P) Val=-1.57, Plg=90, Azm=180; Best double couple: Mo=1.5*10**17 Nm; NP1: Strike=190, Dip=45, Slip=-90; NP2: Strike=10, Dip=45, Slip=-90.
16	12	20	40.7*	8.86	S	112.02	E	100	G	4.0	1.2	6	JAWA, INDONESIA
16	14	35	27.8	7.468	S	129.440	E	33	N	4.9	1.1	54	BANDA SEA
16	14	56	48.17	24.42	N	124.80	E	33	N		0.6	5	SOUTHWESTERN RYUKYU ISLANDS
16	15	01	48.6*	60.478	N	145.085	W	17			41	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).	
16	15	58	02.4*	6.394	S	131.050	E	33	N	4.5	1.4	22	TANIMBAR ISLANDS REG., INDONESIA
16	16	31	53.6	22.642	S	67.920	W	157		4.5	1.0	43	CHILE-BOLIVIA BORDER REGION
16	16	39	58.5*	39.388	N	119.854	W	0			3	NEVADA. <GM-P>. MD 2.8 (GM).	
16	17	02	42.2*	0.054	N	97.208	E	33	N		1.1	10	NORTHERN SUMATERA, INDONESIA
16	18	43	32.9*	51.847	N	179.059	W	33	N	4.3	1.0	10	ANDREANOF ISLANDS, ALEUTIAN IS.
16	19	01	25.4	3.895	N	96.330	E	100	G		1.1	20	NORTHERN SUMATERA, INDONESIA
16	19	25	03.2	39.830	N	143.829	E	10	G	4.3	0.8	25	OFF EAST COAST OF HONSHU, JAPAN
16	19	39	32.7*	40.383	N	125.087	W	6		3.8	72	OFF COAST OF NORTHERN CALIFORNIA. <GM-P>. Mw 4.2 (BRK). MD 3.9 (GM). ML 4.2 (BRK), 4.0 (GS). Moment Tensor (BRK): Dep 18; Principal axes (scale 10**15 Nm): (T) Val=3.02, Plg=1, Azm=40; (N) Val=0.00, Plg=89, Azm=211; (P) Val=-3.02, Plg=0, Azm=310; Best double couple: Mo=2.0*10**15 Nm; NP1: Strike=175, Dip=90, Slip=0; NP2: Strike=85, Dip=90, Slip=180.	
16	19	55	45.4*	40.390	N	125.075	W	3			17	OFF COAST OF NORTHERN CALIFORNIA. <GM-P>. MD 3.4 (GM). ML	

16 20 35 20.4 23.331 S 66.872 W 180 * 4.6 1.4 36 3.5 (BRK).

16 20 43 30.9* 47.728 N 17.273 E 10 G 1.1 5 JUJUY PROVINCE, ARGENTINA

16 20 57 15.8 1.850 S 138.751 E 33 N 4.4 0.8 14 HUNGARY. ML 2.6 (VIE), 2.5 (BRA).

16 21 08 45.4 50.526 N 29.684 W 10 G 4.6 4.1 1.4 87 NEAR NORTH COAST OF IRIAN JAYA

16 21 31 52.7 45.507 N 10.465 E 10 G 1.1 41 NORTHERN MID-ATLANTIC RIDGE

16 21 38 44.6 45.018 N 121.881 W 4 10 NORTHERN ITALY. ML 3.4 (STR), 3.4 (GRF), 3.1 (FUR), 3.0 (VIE), 2.9 (LDG).

16 22 50 31.5 44.445 N 7.284 E 10 G 0.2 13 WASHINGTON-OREGON BORDER REGION. <SEA-P>. MD 2.6 (SEA).

16 22 54 47.2 2.475 S 139.461 E 33 N 4.5 1.4 26 NORTHERN ITALY. ML 2.3 (LDG), 2.0 (STR).

16 22 58 27.4 59.967 N 153.338 W 137 58 NEAR NORTH COAST OF IRIAN JAYA

16 23 49 30.9* 43.231 N 12.992 E 10 G 1.3 34 SOUTHERN ALASKA. <AEIC>.

17 00 02 12.97 6.32 S 151.37 E 33 N 4.3 1.4 9 CENTRAL ITALY. ML 3.1 (LDG).

17 01 29 38.8* 7.350 S 119.954 E 550 G 4.4 1.0 12 NEW BRITAIN REGION, P.N.G.

17 01 35 39.0 58.913 N 154.559 W 117 19 FLORES SEA

17 02 33 11.97 32.32 S 71.61 W 10 G 0.5 10 ALASKA PENINSULA. <AEIC>.

17 03 55 08.8 51.651 N 16.194 E 5 G 0.8 26 NEAR COAST OF CENTRAL CHILE. MD 4.1 (SAN).

17 04 31 45.47 38.97 N 2.77 W 10 G 0.6 4 POLAND. ML 3.7 (VIE).

17 06 29 51.2 62.677 N 152.298 W 6 19 SPAIN. mbLg 2.8 (MDD).

17 07 01 34.4 22.919 S 175.289 W 33 N 4.9 4.8 1.0 50 CENTRAL ALASKA. <AEIC>. ML 3.0 (AEIC), 3.7 (PMR).

Centroid, Moment Tensor (HRV): Centroid origin time
07:01:36.2; Lat 23.29 S; Lon 174.67 W; Dep 15.0 Fix; Half-
duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
Val=4.51, Plg=71, Azm=248; (N) Val=-0.50, Plg=13, Azm=21;
(P) Val=-4.01, Plg=14, Azm=114; Best double couple:
Mo=4.3*10**16 Nm; NP1: Strike=222, Dip=34, Slip=114; NP2:
Strike=13, Dip=60, Slip=75.

17 07 03 08.07 23.59 S 175.02 W 33 N 4.7 0.8 16 TONGA ISLANDS REGION

17 07 17 41.0 63.259 N 151.143 W 12 26 CENTRAL ALASKA. <AEIC>. ML 3.7 (AEIC), 4.0 (PMR).

17 07 46 11.7 11.154 S 116.825 E 33 N 4.5 1.5 34 SOUTH OF SUMBAWA, INDONESIA

17 07 59 37.57 18.51 N 66.15 W 100 G 0.3 10 PUERTO RICO REGION. MD 3.0 (MPR).

17 08 45 15.4 7.738 S 108.058 E 90 4.6 1.1 45 JAWA, INDONESIA

17 08 54 41.8 34.253 S 71.039 W 70 G 0.1 10 NEAR COAST OF CENTRAL CHILE. MD 3.0 (SAN).

17 10 09 00.5 43.505 N 144.948 E 138 ? 4.4 1.1 28 HOKKAIDO, JAPAN REGION

17 10 21 59.6 4.638 S 153.693 E 100 G 4.5 1.1 13 NEW IRELAND REGION, P.N.G.

17 10 39 26.8 24.129 N 143.015 E 50 G 3.9 0.9 18 VOLCANO ISLANDS REGION

17 11 08 18.3 24.544 N 95.504 E 33 N 1.2 7 MYANMAR

17 12 02 51.5 42.432 N 111.198 W 5 G 1.1 44 EASTERN IDAHO. ML 4.1 (BUT), 4.0 (GS). Felt at Georgetown.

Also felt at Afton and Auburn, Wyoming.

17 12 42 49.8 9.869 S 119.303 E 33 N 4.8 1.4 71 SUMBA REGION, INDONESIA

17 12 45 36.3 3.774 N 74.027 W 42 4.9 4.0 1.0 102 COLOMBIA. Felt at Bogota and Villavicencio. Also felt in Caqueta Department.

17 13 35 18.87 25.47 S 178.88 E 600 G 4.0 0.8 11 SOUTH OF FIJI ISLANDS

17 14 15 58.8 57.981 S 25.472 W 33 N 4.5 1.1 16 SOUTH SANDWICH ISLANDS REGION

17 14 19 48.4 51.972 N 178.929 E 100 G 4.3 1.1 35 RAT ISLANDS, ALEUTIAN ISLANDS

17 14 27 27.8 64.245 N 150.014 W 30 17 CENTRAL ALASKA. <AEIC>. ML 2.5 (AEIC).

17 15 25 23.7 36.318 N 70.155 E 238 * 1.0 12 HINDU KUSH REGION, AFGHANISTAN

17 15 42 08.5 18.178 N 145.618 E 221 D 4.6 1.1 102 MARIANA ISLANDS

17 17 56 08.1 37.461 S 177.414 E 33 N 4.4 1.1 20 OFF E. COAST OF N. ISLAND, N.Z. Felt at Whakatane.

17 18 23 48.9 30.26 S 71.81 W 5 G 0.7 12 NEAR COAST OF CENTRAL CHILE. MD 4.3 (SAN).

17 18 46 52.9 44.740 N 6.806 E 5 G 0.7 7 FRANCE. ML 2.0 (LDG).

17 18 55 22.7 4.268 S 142.169 E 118 * 4.1 1.4 15 NEW GUINEA, PAPUA NEW GUINEA

17 19 18 24.3 13.964 N 93.577 W 33 N 4.3 1.2 18 OFF COAST OF CHIAPAS, MEXICO

17 19 46 37.2 36.965 N 121.597 W 7 38 CENTRAL CALIFORNIA. <GM-P>. Mw 3.9 (BRK). MD 3.9 (GM). ML 4.1 (BRK), 3.9 (GS). Felt at Monterey, Redwood City, Salinas, San Benito, San Francisco, San Jose and Santa Cruz.

Moment Tensor (BRK): Dep 11; Principal axes (scale 10**14 Nm): (T) Val=9.15, Plg=0, Azm=261; (N) Val=0.00, Plg=87, Azm=351; (P) Val=-9.15, Plg=3, Azm=171; Best double couple: Mo=8.5*10**14 Nm; NP1: Strike=216, Dip=88, Slip=-2; NP2: Strike=306, Dip=88, Slip=178.

17 19 48 25.27 14.25 N 92.93 W 33 N 4.5 1.1 17 NEAR COAST OF CHIAPAS, MEXICO

17 20 09 47.0 51.568 N 16.228 E 5 G 1.3 8 POLAND

17 21 41 33.5 34.514 S 70.380 W 5 G 0.3 10 CHILE-ARGENTINA BORDER REGION. MD 3.8 (SAN).

17 21 54 55.5 34.520 S 70.371 W 5 G 0.4 10 CHILE-ARGENTINA BORDER REGION. MD 3.9 (SAN).

17 23 19 00.6 34.095 N 28.425 E 33 N 3.9 0.6 35 EASTERN MEDITERRANEAN SEA

17 23 33 53.27 38.84 N 3.01 W 10 G 0.6 4 SPAIN. mbLg 2.9 (MDD).

18 00 16 01.6 52.909 N 166.859 W 0 4.3 36 FOX ISLANDS, ALEUTIAN ISLANDS. <AEIC>. ML 3.8 (AEIC).

18 00 16 25.57 21.40 S 174.55 W 100 G 1.1 10 TONGA ISLANDS

18 00 51 28.8 37.635 N 118.865 W 6 17 CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.1 (GM). ML 3.1 (BRK).

18 01 22 25.6 63.238 N 151.321 W 5 25 CENTRAL ALASKA. <AEIC>. ML 2.6 (AEIC), 2.9 (PMR).

18 01 45 12.3 2.448 N 31.609 E 10 G 4.7 1.0 51 UGANDA

18 01 45 22.6 36.125 N 28.140 E 33 N 3.7 1.3 31 DODECANESE ISLANDS

18 02 24 32.37 2.86 N 127.76 E 33 N 3.8 1.1 9 NORTHERN MOLOCCA SEA

18 02 44 24.7 2.328 N 31.561 E 10 G 4.6 0.8 21 UGANDA

18 02 47 04.7 51.400 N 178.496 E 33 N 1.0 8 RAT ISLANDS, ALEUTIAN ISLANDS

18 02 50 02.4 2.484 N 31.491 E 10 G 4.7 1.1 34 UGANDA

18 03 01 31.2 61.646 N 151.866 W 98 33 SOUTHERN ALASKA. <AEIC>.

18 03 17 24.1 2.349 N 31.570 E 10 G 4.8 1.1 56 UGANDA

18 04 31 18.8 41.757 N 23.678 E 10 G 1.0 5 GREECE-BULGARIA BORDER REGION

18 04 36 08.9 37.657 N 142.465 E 38 D 4.2 1.2 37 OFF EAST COAST OF HONSHU, JAPAN

18 04 50 12.6 51.67 N 170.33 W 33 N 0.9 5 FOX ISLANDS, ALEUTIAN ISLANDS

18 05 22 55.5 33.175 S 70.963 W 70 G 0.2 10 CHILE-ARGENTINA BORDER REGION. MD 2.5 (SAN).

18 05 31 15.4 11.104 S 114.500 E 50 G 3.8 1.1 13 SOUTH OF BALI, INDONESIA

18 05 57 43.8 31.626 S 69.165 W 136 4.2 1.1 25 SAN JUAN PROVINCE, ARGENTINA. MD 4.1 (SAN).

18 06 03 47.0 33.029 N 140.536 E 100 G 0.2 5 SOUTH OF HONSHU, JAPAN

18 07 33 57.4 41.101 N 45.140 E 33 N 4.2 1.2 34 EASTERN CAUCASUS. About 5,000 houses damaged in the Noyemberyan area, Armenia. Felt (III) at Tbilisi, Georgia.

18 07 44 59.0 44.413 N 148.383 E 50 G 3.9 1.3 21 KURIL ISLANDS

18 08 18 23.9 51.800 N 175.105 W 33 N 4.3 1.3 13 ANDREANOF ISLANDS, ALEUTIAN IS.

18 08 54 54.2 3.636 N 126.429 E 33 N 4.0 0.9 10 TALAUD ISLANDS, INDONESIA

18 09 02 51.0 14.812 N 120.245 E 100 G 4.4 1.0 14 LUZON, PHILIPPINE ISLANDS

18	09	19	57.2?	51.16	N	178.89	W	33	N	4.1	0.3	6	ANDREANOF ISLANDS, ALEUTIAN IS.	
18	09	25	15.7?	3.27	S	127.83	E	33	N	4.0	0.9	8	SERAM, INDONESIA	
18	11	17	38.9*	4.591	S	153.872	E	33	N	4.5	0.9	12	NEW IRELAND REGION, P.N.G.	
18	12	15	09.8&	58.907	N	154.674	W	128				31	ALASKA PENINSULA. <AEIC>.	
18	12	33	56.3	1.024	N	126.205	E	70	G	4.2	0.8	17	NORTHERN MOLUCCA SEA	
18	12	55	21.0*	2.367	S	128.386	E	73	?	4.0	1.2	15	CERAM SEA	
18	14	45	51.2	60.534	S	24.975	W	33	N	4.9	4.4	0.9	47	SOUTH SANDWICH ISLANDS REGION. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 14:45:49.6; Lat 61.06 S; Lon 24.26 W; Dep 15.0 Fix; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.39, Plg=3, Azm=324; (N) Val=0.73, Plg=3, Azm=54; (P) Val=-5.12, Plg=85, Azm=187; Best double couple: Mo=4.8*10**16 Nm; NPl: Strike=51, Dip=42, Slip=-95; NP2: Strike=237, Dip=48, Slip=-86.
18	15	31	44.2	37.424	N	20.968	E	33	N	4.3	1.2	47	IONIAN SEA	
18	15	32	39.5%	44.385	N	8.139	E	5	G		0.8	7	NORTHERN ITALY. ML 2.4 (LDG).	
18	17	09	26.1*	36.365	N	70.795	E	190	*		0.8	15	HINDU KUSH REGION, AFGHANISTAN	
18	17	32	23.1*	38.244	N	26.659	W	33	N	4.4	1.1	22	AZORES ISLANDS	
18	18	59	41.9	29.591	N	68.403	E	33	N	5.0	1.0	114	PAKISTAN	
18	19	28	39.4*	11.680	N	125.729	E	33	N		0.9	8	SAMAR, PHILIPPINE ISLANDS	
18	19	39	23.4	26.811	N	91.793	E	47	D	5.0	0.8	111	NORTHEASTERN INDIA	
18	20	03	32.1*	31.609	N	141.231	E	58	*		1.2	13	SOUTH OF HONSHU, JAPAN	
18	20	27	42.0?	36.60	N	24.27	W	33	N		1.1	7	AZORES ISLANDS REGION	
18	21	31	55.7?	21.50	S	169.21	E	33	N		1.5	11	LOYALTY ISLANDS REGION	
18	22	52	43.5	16.008	S	168.411	E	291	D	4.7	1.4	82	VANUATU ISLANDS	
18	23	47	39.3*	23.691	N	142.932	E	33	N	4.3	1.0	15	VOLCANO ISLANDS REGION	
18	23	50	59.3	46.578	N	150.218	E	150	G	5.1	0.8	247	KURIL ISLANDS. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 23:51:01.6; Lat 47.23 N; Lon 151.19 E; Dep 161.2; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=7.56, Plg=30, Azm=330; (N) Val=-1.77, Plg=55, Azm=185; (P) Val=-5.79, Plg=17, Azm=70; Best double couple: Mo=6.7*10**16 Nm; NPl: Strike=113, Dip=57, Slip=10; NP2: Strike=17, Dip=81, Slip=146.	
19	01	10	06.8*	24.560	N	123.185	E	150	G		0.7	9	SOUTHWESTERN RYUKYU ISLANDS	
19	01	11	27.8*	44.950	N	147.339	E	100	D	4.9	1.2	17	KURIL ISLANDS	
19	01	25	42.8	45.042	N	6.535	E	5	G		1.0	33	FRANCE. ML 2.9 (LDG), 2.8 (STR).	
19	04	17	48.6*	17.926	S	176.764	W	19	D	4.6	4.7	1.4	27	FIJI ISLANDS REGION. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 04:17:58.3; Lat 17.73 S; Lon 176.63 W; Dep 15.0 Fix; Half- duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.01, Plg=32, Azm=268; (N) Val=-0.48, Plg=45, Azm=35; (P) Val=-0.53, Plg=29, Azm=158; Best double couple: Mo=7.7*10**16 Nm; NPl: Strike=301, Dip=45, Slip=178; NP2: Strike=33, Dip=88, Slip=45.
19	05	33	57.0%	46.107	N	14.105	E	10	G		0.2	5	NORTHWESTERN BALKAN REGION. ML 1.8 (LJU).	
19	07	32	39.5%	37.202	N	3.707	W	10	G		0.4	5	SPAIN. mbLg 2.1 (MDD).	
19	07	34	35.2	17.358	N	100.196	W	33	N	4.6	3.8	1.1	71	GUERRERO, MEXICO. Felt.
19	09	40	10.9*	2.656	S	134.484	E	33	N		1.0	9	IRIAN JAYA REGION, INDONESIA	
19	10	22	08.7*	21.732	S	169.981	E	33	N	4.5	1.5	22	LOYALTY ISLANDS REGION	
19	10	46	08.5%	37.367	N	7.316	W	10	G		1.1	11	PORTUGAL. mbLg 3.4 (MDD). Felt (III) in the epicentral area.	
19	11	07	22.1*	2.899	S	134.334	E	33	N		1.1	9	IRIAN JAYA REGION, INDONESIA	
19	11	37	07.9	47.313	N	11.214	E	10	G		1.2	11	AUSTRIA. ML 2.4 (GRF), 2.3 (FUR), 2.1 (VIE).	
19	11	54	47.0	51.671	N	16.249	E	5	G		0.7	13	POLAND. ML 3.4 (VIE).	
19	12	04	08.0?	42.81	N	7.28	W	10	G		0.3	4	SPAIN. mbLg 3.2 (MDD).	
19	12	21	29.2?	21.78	S	179.65	W	500	G	4.1	1.0	9	FIJI ISLANDS REGION	
19	12	22	57.3	29.281	S	71.684	W	26	D	5.8	5.5	0.9	263	NEAR COAST OF CENTRAL CHILE. Mw 5.9 (GS), 5.9 (HRV). Me 5.8 (GS). Felt (V) at Vallenar; (IV) at Caldera, Chanaral, Copiapo, El Salvador and Ovalle; (III) at Coquimbo and La Serena. Broadband Source Parameters (GS): Dep 26; NPl: Strike=315, Dip=55, Slip=60; NP2: Strike=180, Dip=45, Slip=126; Radiated energy 1.1*10**13 Nm. Moment Tensor (GS): Dep 29; Principal axes (scale 10**17 Nm): (T) Val=7.06, Plg=50, Azm=156; (N) Val=0.21, Plg=40, Azm=344; (P) Val=-7.26, Plg=4, Azm=251; Best double couple: Mo=7.2*10**17 Nm; NPl: Strike=307, Dip=54, Slip=38; NP2: Strike=192, Dip=60, Slip=137. Centroid, Moment Tensor (HRV): Centroid origin time 12:23:03.6; Lat 29.54 S; Lon 72.05 W; Dep 32.9 Fix; Half- duration 2.0 sec; Principal axes (scale 10**17 Nm): (T) Val=7.54, Plg=55, Azm=156; (N) Val=0.22, Plg=34, Azm=354; (P) Val=-7.76, Plg=9, Azm=258; Best double couple: Mo=7.7*10**17 Nm; NPl: Strike=315, Dip=47, Slip=40; NP2: Strike=195, Dip=62, Slip=129.
19	12	39	50.9%	45.867	N	6.152	E	5	G		1.3	7	FRANCE. ML 2.1 (LDG).	
19	13	12	08.4%	63.670	N	149.284	W	120		3.5		36	CENTRAL ALASKA. <AEIC>.	
19	13	45	19.4*	2.516	N	31.723	E	33	N	4.7	1.0	34	UGANDA	
19	14	04	07.4*	19.828	N	121.622	E	33	N	4.5	0.7	9	PHILIPPINE ISLANDS REGION	
19	14	21	37.5*	2.177	N	31.412	E	33	N	4.6	1.3	24	UGANDA	
19	14	22	08.7	16.333	N	98.216	W	33	N	5.7	6.3	1.2	217	NEAR COAST OF GUERRERO, MEXICO. Mw 6.9 (GS), 6.7 (HRV). Me 6.0 (GS). Ms 6.1 (BRK). Felt in Guerrero and Oaxaca. Also felt at Mexico City. Broadband Source Parameters (GS): Radiated energy 2.3*10**13 Nm. Complex event. Moment Tensor (GS): Dep 4; Principal axes (scale 10**19 Nm): (T) Val=2.45, Plg=56, Azm=27; (N) Val=0.19, Plg=5, Azm=291; (P) Val=-2.64, Plg=34, Azm=197; Best double couple: Mo=2.5*10**19 Nm; NPl: Strike=268, Dip=12, Slip=67; NP2: Strike=111, Dip=79, Slip=95. Centroid, Moment Tensor (HRV): Centroid origin time 14:22:18.3; Lat 15.86 N; Lon 98.26 W; Dep 15.0 Fix; Half- duration 4.9 sec; Principal axes (scale 10**19 Nm): (T)

Val=-1.22, Plg=59, Azm=29; (N) Val=-0.07, Plg=3, Azm=294;
(P) Val=-1.16, Plg=31, Azm=202; Best double couple:
Mo=1.2*10**19 Nm; NP1: Strike=282, Dip=14, Slip=78; NP2:
Strike=115, Dip=76, Slip=93.
Scalar Moment (PPT): Mo=1.5*10**19 Nm.

19 14 54 50.2? 16.11 N 98.09 W 33 N 4.1 1.0 18 NEAR COAST OF GUERRERO, MEXICO
19 16 10 16.5 22.959 S 169.862 E 33 N 5.7 5.4 0.9 183 LOYALTY ISLANDS REGION
19 16 10 37.5* 34.430 N 70.677 E 33 N 3.7 1.5 12 AFGHANISTAN
19 16 18 54.5? 36.97 N 3.86 W 10 G 0.7 4 STRAIT OF GIBRALTAR. mbLg 1.7 (MDD).
19 16 57 55.2* 5.944 N 76.713 W 33 N 1.4 6 COLOMBIA
19 17 01 22.9 33.438 N 141.641 E 33 N 4.9 1.0 76 OFF EAST COAST OF HONSHU, JAPAN
19 17 06 34.3 35.056 N 84.808 W 10 G 0.4 8 TENNESSEE. mbLg 3.5 (GS). Felt.
19 17 21 48.6 6.804 S 130.123 E 100 G 4.6 1.1 26 BANDA SEA
19 17 40 52.1 15.888 N 98.064 W 33 N 4.6 4.1 1.2 67 OFF COAST OF GUERRERO, MEXICO
19 17 55 49.9* 4.648 S 153.907 E 33 N 4.9 0.7 13 NEW IRELAND REGION, P.N.G.
19 18 09 27.7* 18.813 N 147.005 E 26 D 3.9 1.1 27 MARIANA ISLANDS REGION
19 18 27 17.7? 15.71 N 96.83 W 33 N 3.9 1.4 14 NEAR COAST OF OAXACA, MEXICO
19 18 56 35.2 22.657 S 171.628 E 33 N 4.9 4.6 1.0 53 LOYALTY ISLANDS REGION
19 19 29 26.3* 15.802 N 98.244 W 33 N 4.2 1.1 19 OFF COAST OF GUERRERO, MEXICO
19 20 04 12.2? 62.900 N 148.322 W 57 13 CENTRAL ALASKA. <AEIC>. ML 2.8 (AEIC).
19 20 20 48.7 43.648 N 147.503 E 33 N 4.3 1.1 33 KURIL ISLANDS
19 20 39 32.8* 31.432 S 76.863 E 10 G 4.3 0.9 10 MID-INDIAN RIDGE
19 21 16 05.9? 27.66 N 129.94 E 33 N 1.4 13 RYUKYU ISLANDS
19 22 22 58.0? 47.52 S 101.44 E 10 G 4.1 0.3 6 SOUTHEAST INDIAN RIDGE
19 22 33 37.9 47.864 N 16.399 E 10 G 0.8 7 AUSTRIA. ML 2.9 (VIE), 2.5 (BRA). Felt (IV) at Wiener
Neustadt.
19 22 39 47.5? 15.35 N 98.36 W 33 N 4.1 0.9 14 OFF COAST OF GUERRERO, MEXICO
19 22 55 22.6* 29.910 S 177.642 W 33 N 4.8 1.3 28 KERMADEC ISLANDS, NEW ZEALAND
20 00 13 16.5 44.646 N 10.788 E 10 G 1.2 18 NORTHERN ITALY. ML 2.8 (LDG).
20 00 24 47.1 6.506 S 130.432 E 50 G 4.5 1.3 27 BANDA SEA
20 00 30 20.9 52.562 N 167.484 W 14 D 5.6 5.9 1.0 363 FOX ISLANDS, ALEUTIAN ISLANDS. Mw 6.1 (GS), 6.1 (HRV). Me
5.7 (GS).
Broadband Source Parameters (GS): Dep 14; NP1: Strike=240,
Dip=4, Slip=90; NP2: Strike=60, Dip=86, Slip=90; Radiated
energy 7.6*10**12 Nm.
Moment Tensor (GS): Dep 7; Principal axes (scale 10**18 Nm):
(T) Val=-1.60, Plg=50, Azm=334; (N) Val=-0.16, Plg=1,
Azm=65; (P) Val=-1.44, Plg=40, Azm=156; Best double couple:
Mo=1.5*10**18 Nm; NP1: Strike=257, Dip=5, Slip=102; NP2:
Strike=65, Dip=85, Slip=89.
Centroid, Moment Tensor (HRV): Centroid origin time
00:30:26.4; Lat 52.33 N; Lon 167.37 W; Dep 19.0 Bdy; Half-
duration 2.9 sec; Principal axes (scale 10**18 Nm): (T)
Val=-1.46, Plg=65, Azm=339; (N) Val=0.04, Plg=1, Azm=246;
(P) Val=-1.49, Plg=24, Azm=155; Best double couple:
Mo=1.5*10**18 Nm; NP1: Strike=243, Dip=21, Slip=86; NP2:
Strike=66, Dip=70, Slip=91.

20 00 36 51.0* 52.705 N 167.438 W 10 G 4.5 1.0 12 FOX ISLANDS, ALEUTIAN ISLANDS
20 00 38 36.0 52.455 N 167.497 W 10 G 4.6 1.0 61 FOX ISLANDS, ALEUTIAN ISLANDS
20 00 55 25.3 52.547 N 167.473 W 10 G 5.0 1.0 127 FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.7 (PMR).
20 01 47 49.0? 60.134 N 152.408 W 95 24 SOUTHERN ALASKA. <AEIC>.
20 02 54 44.9? 39.39 N 0.29 E 10 G 0.2 4 SPAIN. mbLg 3.0 (MDD).
20 03 08 12.3? 19.66 S 177.88 W 550 G 3.9 0.8 9 FIJI ISLANDS REGION
20 03 39 11.1 41.263 N 19.821 E 33 N 4.5 1.4 119 ALBANIA
20 03 40 24.0? 16.17 N 98.21 W 33 N 4.2 1.2 25 NEAR COAST OF GUERRERO, MEXICO
20 03 43 48.4 41.425 N 19.746 E 33 N 4.0 1.4 54 ALBANIA
20 04 02 10.1* 53.260 N 158.286 E 100 G 0.4 7 NEAR EAST COAST OF KAMCHATKA
20 04 03 43.8? 57.724 N 155.653 W 90 15 ALASKA PENINSULA. <AEIC>.
20 05 25 24.6 41.213 N 19.886 E 33 N 3.7 1.5 45 ALBANIA
20 05 46 47.5 41.259 N 19.785 E 33 N 3.6 1.2 53 ALBANIA
20 05 53 30.3? 52.41 N 168.03 W 10 G 1.0 6 FOX ISLANDS, ALEUTIAN ISLANDS
20 06 05 33.0? 52.77 N 167.50 W 10 G 0.7 6 FOX ISLANDS, ALEUTIAN ISLANDS
20 06 35 03.5* 16.017 N 98.186 W 33 N 4.2 1.2 37 NEAR COAST OF GUERRERO, MEXICO
20 07 11 21.2? 10.596 N 61.442 W 5 G 0.7 6 TRINIDAD
20 08 08 14.8 15.048 S 173.811 W 33 N 4.4 0.5 20 TONGA ISLANDS
20 08 28 49.3 41.216 N 19.685 E 33 N 3.8 1.5 44 ALBANIA
20 09 24 33.8 41.324 N 19.837 E 33 N 3.9 1.3 83 ALBANIA. ML 4.0 (ROM).
20 09 32 22.5 41.514 N 19.737 E 33 N 3.6 1.4 27 ALBANIA
20 09 48 29.7* 41.731 N 19.616 E 33 N 3.7 1.5 21 ALBANIA
20 09 50 52.9* 32.838 N 138.409 E 300 G 0.7 7 SOUTH OF HONSHU, JAPAN
20 09 55 12.8 48.026 N 152.804 E 124 D 4.5 0.8 77 KURIL ISLANDS
20 10 14 22.8 22.982 S 66.301 W 256 D 5.7 0.9 358 JUJUY PROVINCE, ARGENTINA. Mw 6.1 (GS), 6.1 (HRV). Me 5.6
(GS). mb 6.0 (BRK). Felt in parts of Jujuy Province. Felt
(IV) at Calama and Mejillones; (III) at Antofagasta, San
Pedro de Atacama and Tocopilla, Chile.
Broadband Source Parameters (GS): Dep 256; NP1: Strike=55,
Dip=75, Slip=110; NP2: Strike=290, Dip=25, Slip=38;
Radiated energy 6.1*10**12 Nm.
Moment Tensor (GS): Dep 264; Principal axes (scale 10**18
Nm): (T) Val=-1.34, Plg=29, Azm=155; (N) Val=0.41, Plg=11,
Azm=58; (P) Val=-1.74, Plg=59, Azm=309; Best double couple:
Mo=1.5*10**18 Nm; NP1: Strike=273, Dip=19, Slip=54; NP2:
Strike=55, Dip=74, Slip=102.
Centroid, Moment Tensor (HRV): Centroid origin time
10:14:29.5; Lat 22.82 S; Lon 66.12 W; Dep 271.3; Half-
duration 2.6 sec; Principal axes (scale 10**18 Nm): (T)
Val=-1.58, Plg=28, Azm=160; (N) Val=-0.08, Plg=18, Azm=60;
(P) Val=-1.50, Plg=56, Azm=302; Best double couple:
Mo=1.5*10**18 Nm; NP1: Strike=289, Dip=24, Slip=39; NP2:
Strike=55, Dip=75, Slip=109.

20 10 49 43.8 6.114 S 145.370 E 122 D 5.0 0.8 98 NEW GUINEA, PAPUA NEW GUINEA
20 11 06 59.6? 60.082 N 152.938 W 124 27 SOUTHERN ALASKA. <AEIC>.
20 11 49 42.5 3.302 N 128.406 E 33 N 5.1 1.2 53 NORTH OF HALMAHERA, INDONESIA

20	11	51	01.3?	31.85	S	70.12	W	140	G	0.4	10	CHILE-ARGENTINA BORDER REGION. MD 2.9 (SAN).
20	11	52	27.1?	15.97	N	98.11	W	33	N	4.2	1.3	31 OFF COAST OF GUERRERO, MEXICO
20	12	04	00.5?	31.301	N	115.468	W	6	G		5	BAJA CALIFORNIA, MEXICO. <PAS-P>. ML 3.8 (PAS). MD 3.7 (ECX).
20	12	28	15.3*	44.605	N	10.651	E	10	G	1.5	19	NORTHERN ITALY. ML 3.3 (VIE), 3.0 (LDG).
20	13	05	35.2*	77.642	N	9.788	E	10	G	0.8	5	SVALBARD REGION
20	14	26	37.3*	35.875	N	3.803	E	10	G	1.3	30	NORTHERN ALGERIA. MD 4.1 (MDD).
20	14	46	11.4*	9.207	S	127.096	E	100	G	4.2	1.6	14 TIMOR SEA
20	14	51	30.3*	31.551	S	66.799	W	145		0.9	13	LA RIOJA PROVINCE, ARGENTINA
20	15	48	31.8?	31.85	S	178.91	W	150	G	4.1	1.1	15 KERMADEC ISLANDS REGION
20	15	49	43.3?	45.40	N	6.29	E	10	G	0.2	4	FRANCE. ML 1.9 (LDG).
20	17	01	39.8?	38.872	N	123.648	W	7			8	NEAR COAST OF NORTHERN CALIF. <GM-P>. MD 2.8 (GM).
20	17	05	42.0?	38.44	S	175.99	E	100	G	4.5	0.3	6 NORTH ISLAND, NEW ZEALAND. Felt at Marton.
20	17	11	56.0*	41.602	S	85.253	E	10	G	4.7	1.0	25 SOUTHEAST INDIAN RIDGE
20	17	27	03.5*	4.386	S	134.675	E	33	N	4.1	1.4	10 IRIAN JAYA REGION, INDONESIA
20	17	36	48.5*	47.497	S	101.402	E	10	G	4.4	4.5	0.8 10 SOUTHEAST INDIAN RIDGE
20	17	43	48.9	19.055	N	46.093	W	10	G	4.8	4.5	0.9 71 NORTHERN MID-ATLANTIC RIDGE
20	18	34	42.1?	56.59	N	155.41	W	33	N		1.6	8 ALASKA PENINSULA
20	19	08	59.8?	48.689	N	2.114	W	10	G		0.6	6 FRANCE. ML 1.9 (LDG).
20	19	19	38.2?	57.759	N	156.447	W	128			17	ALASKA PENINSULA. <AEIC>.
20	19	33	10.9	17.000	S	178.908	W	490	D	4.5	1.1	177 FIJI ISLANDS REGION
20	19	50	33.6?	33.107	S	71.239	W	50	G		0.4	10 NEAR COAST OF CENTRAL CHILE. MD 3.3 (SAN).
20	20	43	08.2	0.503	N	98.664	E	33	N	4.4	0.7	26 NORTHERN SUMATERA, INDONESIA
20	21	21	16.3*	15.021	S	178.331	W	385	*	4.4	1.0	48 FIJI ISLANDS REGION
20	22	21	15.3*	32.213	N	137.642	E	400	G		1.3	14 SOUTH OF HONSHU, JAPAN
20	23	21	38.1	45.581	N	3.704	E	10	G		0.3	8 FRANCE. ML 2.1 (LDG).
20	23	57	03.6?	48.826	N	2.701	W	10	G		0.5	6 FRANCE. ML 1.7 (LDG).
21	00	24	46.8*	4.565	S	153.812	E	33	N	4.6	1.0	14 NEW IRELAND REGION, P.N.G.
21	00	53	54.8?	25.01	S	179.87	E	500	G	3.6	1.2	8 SOUTH OF FIJI ISLANDS
21	00	54	37.6*	29.382	N	53.250	E	33	N	4.2	1.0	16 SOUTHERN IRAN
21	02	04	56.6*	54.861	S	129.621	W	10	G	4.9	4.8	1.0 39 PACIFIC-ANTARCTIC RIDGE. Mw 5.4 (HRV).
												Centroid, Moment Tensor (HRV): Centroid origin time
												02:05:05.8; Lat 55.11 S; Lon 129.56 W; Dep 15.0 Fix; Half-
												duration 1.2 sec; Principal axes (scale 10**17 Nm): (T)
												Val=-1.70, Plg=19, Azm=336; (N) Val=-0.09, Plg=68, Azm=125;
												(P) Val=-1.61, Plg=11, Azm=242; Best double couple:
												Mo=1.6*10**17 Nm; NP1: Strike=18, Dip=69, Slip=174; NP2:
												Strike=110, Dip=84, Slip=21.
21	02	16	24.4?	18.64	N	66.94	W	33	N		0.6	5 PUERTO RICO REGION. MD 2.6 (MPR).
21	02	46	21.8?	63.291	N	151.191	W	9			16	CENTRAL ALASKA. <AEIC>. ML 2.6 (AEIC), 2.9 (PMR).
21	03	54	59.0?	9.81	N	82.41	W	10	G		0.3	7 PANAMA-COSTA RICA BORDER REGION
21	04	29	02.7*	44.258	N	148.360	E	33	N	4.1	1.4	13 KURIL ISLANDS
21	04	34	16.0*	43.864	N	147.446	E	33	N	4.4	1.1	21 KURIL ISLANDS
21	04	37	58.9*	28.372	N	57.194	E	33	N	4.6	0.9	16 SOUTHERN IRAN
21	04	42	02.0?	15.61	N	98.53	W	33	N	4.1	1.5	7 OFF COAST OF GUERRERO, MEXICO
21	04	58	43.4	28.207	N	57.338	E	33	N	4.5	0.8	43 SOUTHERN IRAN
21	07	46	40.1	8.799	S	108.158	W	10	G	5.0	4.7	1.0 73 CENTRAL EAST PACIFIC RISE. Mw 5.4 (HRV).
												Centroid, Moment Tensor (HRV): Centroid origin time
												07:46:47.8; Lat 8.67 S; Lon 108.00 W; Dep 15.0 Fix; Half-
												duration 1.2 sec; Principal axes (scale 10**17 Nm): (T)
												Val=-1.39, Plg=7, Azm=300; (N) Val=0.16, Plg=70, Azm=50; (P)
												Val=-1.54, Plg=19, Azm=207; Best double couple:
												Mo=1.5*10**17 Nm; NP1: Strike=345, Dip=72, Slip=-172; NP2:
												Strike=252, Dip=82, Slip=-19.
21	08	32	56.3	8.767	S	108.130	W	10	G	4.8	4.3	0.9 85 CENTRAL EAST PACIFIC RISE
21	08	45	49.1	26.857	S	26.619	E	5	G	5.0	1.1	36 REPUBLIC OF SOUTH AFRICA. At least 15 people killed and 46
												injured at the Hartbeestfontein gold mine near
												Stilfontein. Felt as far as Pretoria.
21	09	45	31.8	7.159	S	129.736	E	100	G	4.8	0.9	28 BANDA SEA
21	10	11	06.5?	7.63	S	67.74	E	10	G	4.8	0.9	13 MID-INDIAN RIDGE
21	10	20	49.0?	8.02	S	67.89	E	10	G		0.7	8 MID-INDIAN RIDGE
21	10	26	43.3*	21.815	S	68.314	W	159	*		1.4	12 CHILE-BOLIVIA BORDER REGION
21	10	32	23.1*	56.185	N	156.430	W	100	G		1.3	9 ALASKA PENINSULA
21	10	44	38.2	10.198	N	126.197	E	56	*	5.0	4.8	1.1 75 PHILIPPINE ISLANDS REGION. Mw 5.1 (HRV).
												Centroid, Moment Tensor (HRV): Centroid origin time
												10:44:35.7; Lat 10.13 N; Lon 126.41 E; Dep 65.8; Half-
												duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
												Val=4.65, Plg=22, Azm=276; (N) Val=0.70, Plg=9, Azm=182;
												(P) Val=-5.35, Plg=66, Azm=70; Best double couple:
												Mo=5.0*10**16 Nm; NP1: Strike=23, Dip=25, Slip=-67; NP2:
												Strike=178, Dip=67, Slip=-100.
21	10	56	41.4?	16.75	N	94.69	W	33	N	4.0	1.0	6 OAXACA, MEXICO
21	12	24	39.5?	31.79	S	70.19	W	135	G		0.3	10 CHILE-ARGENTINA BORDER REGION. MD 3.5 (SAN).
21	12	30	29.9	17.410	S	167.620	E	33	N	4.5	4.7	0.9 43 VANUATU ISLANDS. Mw 5.3 (HRV).
												Centroid, Moment Tensor (HRV): Centroid origin time
												12:30:31.7; Lat 17.61 S; Lon 167.65 E; Dep 15.0 Fix; Half-
												duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
												Val=9.55, Plg=57, Azm=66; (N) Val=-0.17, Plg=5, Azm=163;
												(P) Val=-9.38, Plg=33, Azm=255; Best double couple:
												Mo=9.5*10**16 Nm; NP1: Strike=3, Dip=13, Slip=111; NP2:
												Strike=162, Dip=78, Slip=85.
21	13	13	05.2*	17.043	N	100.242	W	33	N	4.1	1.0	15 GUERRERO, MEXICO
21	14	56	21.9*	8.774	S	108.090	W	10	G	4.8	4.2	0.9 52 CENTRAL EAST PACIFIC RISE
21	16	47	04.4	25.930	N	99.764	E	33	N	4.3	1.0	19 YUNNAN, CHINA
21	17	04	54.4?	46.23	N	16.03	E	10	G		0.6	6 NORTHWESTERN BALKAN REGION. ML 2.2 (VIE), 1.6 (LJU).
21	17	43	42.9	29.994	S	72.085	W	33	N		1.1	20 OFF COAST OF CENTRAL CHILE
21	17	54	17.1	29.974	S	71.781	W	33	N	4.9	4.8	1.0 79 NEAR COAST OF CENTRAL CHILE. Mw 5.5 (HRV). Felt (II) at
												Coquimbo and La Serena.
												Centroid, Moment Tensor (HRV): Centroid origin time
												17:54:21.5; Lat 29.86 S; Lon 72.52 W; Dep 15.0 Fix; Half-
												duration 1.3 sec; Principal axes (scale 10**17 Nm): (T)
												Val=1.76, Plg=65, Azm=71; (N) Val=-0.17, Plg=7, Azm=176;
												(P) Val=-1.60, Plg=24, Azm=269; Best double couple:
												Mo=1.7*10**17 Nm; NP1: Strike=14, Dip=22, Slip=109; NP2:

Strike=173, Dip=70, Slip=83.

21	18	09	45.22	17.71	S	67.20	E	10	G	4.7	1.5	6	MID-INDIAN RIDGE	
21	18	19	33.1*	30.201	S	72.251	W	33	N	3.5	1.1	12	OFF COAST OF CENTRAL CHILE	
21	19	31	03.3	29.933	S	72.209	W	33	N		1.2	19	OFF COAST OF CENTRAL CHILE	
21	20	59	23.6	42.898	N	17.744	E	10	G		1.3	62	ADRIATIC SEA. Felt at Dubrovnik, Croatia.	
21	22	24	28.96	40.679	N	124.382	W	21				13	NEAR COAST OF NORTHERN CALIF. <GM-P>. Mw 3.7 (BRK). MD 3.5 (GM). ML 3.5 (GS), 3.4 (BRK). Scalar Moment (BRK): Mo=3.6*10**14 Nm.	
21	22	49	33.6*	38.771	N	141.643	E	100	G	0.5	0.5	7	NEAR EAST COAST OF HONSHU, JAPAN	
21	23	19	39.3	30.328	S	71.917	W	33	N	5.2	5.5	1.1	107	NEAR COAST OF CENTRAL CHILE. Mw 6.0 (GS), 5.9 (HRV). Felt (III) at La Serena. Moment Tensor (GS): Dep 4; Principal axes (scale 10**18 Nm): (T) Val=1.14, Plg=54, Azm=74; (N) Val=-0.07, Plg=0, Azm=343; (P) Val=-1.06, Plg=36, Azm=253; Best double couple: Mo=1.1*10**18 Nm; NP1: Strike=341, Dip=9, Slip=87; NP2: Strike=163, Dip=81, Slip=90. Centroid, Moment Tensor (HRV): Centroid origin time 23:19:49.8; Lat 30.72 S; Lon 71.79 W; Dep 15.0 Fix; Half-duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=8.61, Plg=64, Azm=57; (N) Val=0.66, Plg=14, Azm=179; (P) Val=-9.26, Plg=21, Azm=275; Best double couple: Mo=8.9*10**17 Nm; NP1: Strike=29, Dip=27, Slip=123; NP2: Strike=173, Dip=67, Slip=74.
21	23	47	38.6	11.586	N	142.284	E	33	N	4.7	1.1	27	SOUTH OF MARIANA ISLANDS	
22	00	09	56.7	47.774	N	122.364	W	15	G		0.6	6	WASHINGTON. ML 2.8 (GS).	
22	01	12	41.77	12.45	N	123.46	E	33	N	4.2	0.8	8	LUZON, PHILIPPINE ISLANDS	
22	01	44	56.06	31.885	N	115.768	W	6	G			21	BAJA CALIFORNIA, MEXICO. <PAS-P>. ML 2.9 (PAS). MD 3.3 (ECX).	
22	02	09	31.7	30.358	S	71.827	W	33	N	4.9	4.7	0.9	82	NEAR COAST OF CENTRAL CHILE. Mw 5.4 (HRV). MD 5.1 (SAN). Felt (III) at Coquimbo, La Serena, Ovalle and Santiago. Centroid, Moment Tensor (HRV): Centroid origin time 02:09:35.2; Lat 30.71 S; Lon 72.38 W; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.77, Plg=61, Azm=154; (N) Val=-0.56, Plg=11, Azm=43; (P) Val=-1.21, Plg=26, Azm=308; Best double couple: Mo=1.5*10**17 Nm; NP1: Strike=14, Dip=21, Slip=59; NP2: Strike=227, Dip=72, Slip=101.
22	02	22	51.96	60.763	N	151.711	W	80				41	KENAI PENINSULA, ALASKA. <AEIC>.	
22	02	51	55.07	55.91	S	27.09	W	33	N	4.1	0.7	10	SOUTH SANDWICH ISLANDS REGION	
22	03	32	55.0	30.367	S	71.968	W	33	N	4.3	1.2	25	NEAR COAST OF CENTRAL CHILE. MD 4.6 (SAN).	
22	04	11	17.57	15.75	N	98.02	W	33	N	4.2	1.5	11	OFF COAST OF GUERRERO, MEXICO	
22	04	25	38.9*	30.172	S	71.896	W	33	N	4.5	1.2	14	NEAR COAST OF CENTRAL CHILE	
22	04	54	16.3	51.709	N	16.214	E	5	G		0.4	19	POLAND. ML 4.0 (GRF), 3.7 (VIE).	
22	05	29	25.8*	30.404	S	72.386	W	33	N		1.3	15	OFF COAST OF CENTRAL CHILE. MD 4.4 (SAN).	
22	07	16	37.47	29.32	S	71.71	W	33	N		0.6	11	NEAR COAST OF CENTRAL CHILE. MD 4.4 (SAN).	
22	07	37	41.46	61.518	N	141.564	W	0				30	SOUTHERN ALASKA. <AEIC>. ML 2.8 (AEIC).	
22	08	33	20.7	20.554	S	178.344	W	530	D	4.9	0.8	212	FIJI ISLANDS REGION	
22	08	45	49.37	44.45	N	7.49	E	5	G		0.5	5	NORTHERN ITALY. ML 2.1 (LDG).	
22	08	50	00.9*	52.073	S	15.104	E	25	D		0.8	12	SOUTHWEST OF AFRICA	
22	09	29	11.1*	46.183	N	1.196	E	5	G		0.9	8	FRANCE. ML 2.6 (LDG).	
22	09	50	56.4*	13.714	N	144.923	E	118		4.2	1.0	24	MARIANA ISLANDS. Felt on Guam.	
22	09	51	18.77	44.31	N	7.60	E	5	G		0.8	5	NORTHERN ITALY. ML 2.1 (LDG).	
22	10	01	56.1*	30.438	S	71.932	W	33	N	4.2	0.8	13	NEAR COAST OF CENTRAL CHILE	
22	10	04	15.87	11.64	N	88.20	W	33	N	4.1	0.7	6	OFF COAST OF CENTRAL AMERICA	
22	10	04	59.4*	30.468	N	138.757	E	400	G	4.4	1.2	23	SOUTH OF HONSHU, JAPAN	
22	10	16	54.2	6.226	S	154.682	E	51	D	5.6	5.2	1.0	255	SOLOMON ISLANDS. Mw 5.5 (GS), 5.5 (HRV). Moment Tensor (GS): Dep 39; Principal axes (scale 10**17 Nm): (T) Val=2.01, Plg=84, Azm=213; (N) Val=0.29, Plg=3, Azm=333; (P) Val=-2.30, Plg=5, Azm=64; Best double couple: Mo=2.2*10**17 Nm; NP1: Strike=157, Dip=40, Slip=94; NP2: Strike=331, Dip=50, Slip=86. Centroid, Moment Tensor (HRV): Centroid origin time 10:16:59.1; Lat 6.40 S; Lon 154.73 E; Dep 64.6; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=2.13, Plg=80, Azm=336; (N) Val=-0.04, Plg=9, Azm=132; (P) Val=-2.09, Plg=4, Azm=223; Best double couple: Mo=2.1*10**17 Nm; NP1: Strike=323, Dip=42, Slip=104; NP2: Strike=125, Dip=50, Slip=78.
22	11	00	18.7*	43.032	N	4.721	E	5	G		0.4	8	NEAR SOUTH COAST OF FRANCE. ML 2.7 (LDG).	
22	11	11	00.9	31.357	S	68.586	W	200	G		0.8	11	SAN JUAN PROVINCE, ARGENTINA. MD 4.4 (SAN).	
22	11	11	34.06	61.507	N	141.477	W	0				21	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).	
22	11	21	42.06	36.293	N	120.407	W	6	G			11	CENTRAL CALIFORNIA. <PAS-P>. ML 2.8 (PAS), 2.8 (GS).	
22	11	56	29.97	19.93	S	70.56	W	33	N		1.2	5	NEAR COAST OF NORTHERN CHILE	
22	12	05	24.7*	52.616	N	167.326	W	33	N	4.1	0.6	10	FOX ISLANDS, ALEUTIAN ISLANDS	
22	12	15	01.06	34.017	N	116.325	W	5				4	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).	
22	12	25	36.26	59.599	N	138.670	W	0				22	SOUTHEASTERN ALASKA. <AEIC>. ML 2.7 (AEIC).	
22	13	36	52.26	61.614	N	146.963	W	27				41	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC), 3.1 (PMR).	
22	13	45	00.1	31.743	S	71.408	W	63	D	4.5	0.9	64	NEAR COAST OF CENTRAL CHILE. MD 4.7 (SAN). Felt (IV) at Catemu, Illapel, Llay Llay, Los Vilos, Panquehue and Salamanca; (III) at La Ligua, Papudo, Quillota, San Felipe, Santa Maria and Santiago; (II) at Coquimbo, La Serena and Ovalle.	
22	14	16	01.2*	33.818	N	139.394	E	33	N	3.9	1.1	18	SOUTH OF HONSHU, JAPAN	
22	14	28	14.5	22.912	S	175.271	W	33	N	4.8	5.0	1.1	66	TONGA ISLANDS REGION. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 14:28:16.6; Lat 23.28 S; Lon 174.62 W; Dep 36.0; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.18, Plg=72, Azm=331; (N) Val=1.42, Plg=9, Azm=214; (P) Val=-7.60, Plg=16, Azm=121; Best double couple: Mo=6.9*10**16 Nm; NP1: Strike=198, Dip=30, Slip=72; NP2: Strike=39, Dip=62, Slip=100.
22	15	08	28.6	52.501	N	172.426	E	33	N	4.4	0.9	62	NEAR ISLANDS, ALEUTIAN ISLANDS. ML 4.0 (PMR).	
22	15	23	16.6*	12.538	N	143.748	E	33	N		0.6	8	SOUTH OF MARIANA ISLANDS	
22	15	44	41.7	46.436	N	12.657	E	10	G		0.7	14	NORTHERN ITALY. ML 3.0 (GRF), 2.7 (VIE).	

22	15	45	15.9?	23.54	S	175.03	W	43	D	4.1	1.2	9	TONGA ISLANDS REGION
22	16	06	24.5%	66.262	N	19.343	W	10	G		0.6	8	ICELAND REGION
22	16	21	41.0	66.291	N	18.404	W	10	G	4.7 4.6	1.1	147	ICELAND REGION
22	16	23	26.5%	45.590	N	5.742	E	5	G		0.5	6	FRANCE. ML 2.1 (LDG).
22	16	41	22.2*	66.273	N	18.603	W	10	G	4.1	1.2	8	ICELAND REGION
22	16	53	58.1*	9.511	S	123.828	E	33	N	3.8	1.0	7	TIMOR REGION, INDONESIA
22	17	25	29.0	1.395	N	128.512	E	33	N	4.7	1.3	38	HALMAHERA, INDONESIA
22	17	43	40.2	15.998	N	98.153	W	33	N	4.8 4.1	1.1	75	OFF COAST OF GUERRERO, MEXICO
22	17	59	04.5%	44.119	N	6.891	E	10	G		0.8	7	FRANCE. ML 2.0 (LDG).
22	18	00	21.5*	31.537	S	58.421	E	10	G	4.7 4.6	1.0	21	SOUTHWEST INDIAN RIDGE
22	18	01	32.8*	16.994	N	98.005	W	100	G	4.2	1.4	31	NEAR COAST OF GUERRERO, MEXICO
22	18	42	42.9?	4.39	N	32.54	W	10	G		0.8	5	CENTRAL MID-ATLANTIC RIDGE
22	18	49	56.5	60.249	S	82.169	E	10	G	4.6	0.8	28	SOUTHERN KERGUELEN PLATEAU
22	19	10	35.0	4.619	N	32.688	W	10	G	5.4 5.1	0.9	245	CENTRAL MID-ATLANTIC RIDGE. Mw 5.4 (HRV), 5.3 (GS). Moment Tensor (GS): Dep 6; Principal axes (scale 10**17 Nm): (T) Val=-1.10, Plg=-11, Azm=83; (N) Val=-0.10, Plg=-4, Azm=352; (P) Val=-0.99, Plg=78, Azm=241; Best double couple: Mo=1.0*10**17 Nm; NP1: Strike=178, Dip=34, Slip=-83; NP2: Strike=349, Dip=56, Slip=-95. Centroid, Moment Tensor (HRV): Centroid origin time 19:10:41.0; Lat 4.73 N; Lon 32.79 W; Dep 15.0 Fix; Half- duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=-1.34, Plg=9, Azm=88; (N) Val=0.26, Plg=9, Azm=357; (P) Val=-1.60, Plg=77, Azm=223; Best double couple: Mo=1.5*10**17 Nm; NP1: Strike=188, Dip=37, Slip=-75; NP2: Strike=350, Dip=55, Slip=-101.
22	19	34	49.1	23.134	S	66.541	W	229		4.1	0.9	34	JUJUY PROVINCE, ARGENTINA
22	19	44	21.1%	54.796	N	161.148	W	14				14	ALASKA PENINSULA. <AEIC>. ML 3.0 (AEIC).
22	19	49	12.3?	48.07	N	148.78	E	350	G	3.7	1.2	9	NORTHWEST OF KURIL ISLANDS
22	20	25	15.8*	22.635	S	10.556	W	10	G	4.2	1.1	18	SOUTHERN MID-ATLANTIC RIDGE
22	20	44	04.3?	3.38	S	148.88	E	33	N	3.8	1.3	7	BISMARCK SEA
22	21	22	07.8?	24.07	S	177.40	W	33	N	4.5	1.2	17	SOUTH OF FIJI ISLANDS
22	22	04	40.4	42.763	N	144.846	E	69	D	4.6	1.0	51	HOKKAIDO, JAPAN REGION
22	22	28	19.2*	50.153	S	131.432	E	10	G	4.5	0.9	23	SOUTH OF AUSTRALIA
22	22	53	36.2	15.027	N	122.552	E	33	N	5.1	0.9	65	PHILIPPINE ISLANDS REGION
22	23	23	21.6%	61.174	N	150.882	W	48		4.0		94	SOUTHERN ALASKA. <AEIC>. ML 3.9 (AEIC), 4.0 (PMR). Felt (III) at Tyonek.
23	00	09	34.8%	36.483	N	3.216	W	10	G		0.6	8	STRAIT OF GIBRALTAR. mbLg 3.0 (MDD).
23	00	09	54.0?	6.64	S	130.17	E	100	G	3.8	1.4	9	BANDA SEA
23	00	26	02.7*	20.623	S	169.344	E	33	N	4.8 4.5	1.1	38	VANUATU ISLANDS
23	00	30	38.0%	44.533	N	7.291	E	10	G		0.1	7	NORTHERN ITALY. ML 2.0 (LDG).
23	00	38	16.5%	63.177	N	150.877	W	137				18	CENTRAL ALASKA. <AEIC>.
23	00	48	11.1%	44.132	N	7.459	E	10	G		0.2	5	NORTHERN ITALY. ML 1.6 (LDG).
23	01	00	57.7%	54.583	N	161.130	W	8				18	ALASKA PENINSULA. <AEIC>. ML 3.6 (AEIC).
23	01	32	25.6%	60.219	N	153.147	W	138				19	SOUTHERN ALASKA. <AEIC>.
23	02	10	05.6*	44.670	N	151.744	E	33	N	4.2	1.2	23	EAST OF KURIL ISLANDS
23	03	18	03.8%	40.903	N	123.372	W	25				33	NORTHERN CALIFORNIA. <GM-P>. Mw 4.0 (BRK). MD 3.9 (GM). ML 4.0 (BRK), 3.7 (GS). Felt at Blue Lake and Willow Creek. Moment Tensor (BRK): Dep 33; Principal axes (scale 10**14 Nm): (T) Val=-8.52, Plg=21, Azm=123; (N) Val=0.00, Plg=24, Azm=222; (P) Val=-8.52, Plg=58, Azm=356; Best double couple: Mo=1.1*10**15 Nm; NP1: Strike=52, Dip=70, Slip=-65; NP2: Strike=178, Dip=32, Slip=-139.
23	03	23	45.5	0.025	S	123.003	E	139	D	5.4	1.0	145	MINAHASSA PENINSULA, SULAWESI. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 03:23:50.3; Lat 0.26 N; Lon 123.12 E; Dep 123.5; Half- duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=-1.05, Plg=61, Azm=213; (N) Val=0.01, Plg=4, Azm=310; (P) Val=-1.06, Plg=28, Azm=42; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=142, Dip=17, Slip=103; NP2: Strike=309, Dip=73, Slip=86.
23	03	38	06.3?	2.03	N	98.17	W	10	G	4.2	0.8	17	WEST OF GALAPAGOS ISLANDS
23	03	47	44.7	42.756	N	0.486	E	5	G		1.1	36	PYRENEES. mbLg 3.4 (MDD). ML 3.3 (LDG), 3.2 (STR).
23	06	41	37.0%	54.082	N	164.264	W	17				9	UNIMAK ISLAND REGION. <AEIC>. ML 3.0 (AEIC).
23	07	08	33.0*	14.452	S	167.320	E	33	N		1.0	9	VANUATU ISLANDS
23	07	15	00.5%	56.173	N	161.427	W	188				22	ALASKA PENINSULA. <AEIC>.
23	07	58	38.0*	16.116	N	98.158	W	33	N	4.3	1.1	27	NEAR COAST OF GUERRERO, MEXICO
23	08	34	00.2	22.922	S	175.337	W	33	N	4.6 4.5	0.9	31	TONGA ISLANDS REGION
23	08	54	37.0?	52.40	N	171.28	E	33	N		1.6	6	NEAR ISLANDS, ALEUTIAN ISLANDS
23	08	57	15.4%	45.992	N	118.497	W	9				42	OREGON. <SEA-P>. MD 2.7 (SEA). ML 3.0 (GS).
23	09	14	04.9%	63.187	N	150.789	W	134		4.0		122	CENTRAL ALASKA. <AEIC>.
23	11	09	50.0*	81.475	N	15.293	W	10	G		0.9	7	NEAR NORTH COAST OF GREENLAND
23	12	48	54.1	3.075	N	128.118	E	94	D	4.7	1.1	39	NORTH OF HALMAHERA, INDONESIA
23	12	59	57.9*	5.387	S	152.056	E	33	N	4.7	0.9	24	NEW BRITAIN REGION, P.N.G.
23	13	06	44.1%	63.837	N	149.070	W	120		3.3		86	CENTRAL ALASKA. <AEIC>.
23	13	17	07.4%	35.793	N	3.761	W	10	G		1.1	9	STRAIT OF GIBRALTAR. mbLg 3.1 (MDD).
23	13	56	15.9*	19.174	S	167.567	E	33	N	4.2	1.1	8	VANUATU ISLANDS REGION
23	14	03	29.9	6.098	S	75.947	W	30	D	5.3 4.2	0.8	202	NORTHERN PERU
23	14	06	49.3*	15.220	S	167.450	E	100	G	4.3	1.0	37	VANUATU ISLANDS
23	14	17	37.8%	63.271	N	151.071	W	8				19	CENTRAL ALASKA. <AEIC>. ML 2.9 (AEIC), 3.2 (PMR).
23	14	38	51.7*	4.630	S	152.392	E	33	N	3.8	0.6	8	NEW BRITAIN REGION, P.N.G.
23	14	52	03.6	9.234	S	78.845	W	66	D	5.0	0.8	104	NEAR COAST OF NORTHERN PERU. Felt strongly at Chimbote. Also felt along the coast of central Peru.
23	16	07	36.6*	4.984	S	134.693	E	33	N	3.9	1.4	13	IRIAN JAYA REGION, INDONESIA
23	16	18	30.4	8.324	S	116.786	E	33	N	4.7	1.1	39	SUMBAWA REGION, INDONESIA
23	16	45	38.4*	19.444	S	69.305	W	113	D	4.6	1.1	24	NORTHERN CHILE
23	18	06	18.8*	30.721	S	71.220	W	100	G		1.3	6	NEAR COAST OF CENTRAL CHILE
23	18	08	36.0*	37.078	N	141.081	E	70	*		1.5	16	NEAR EAST COAST OF HONSHU, JAPAN
23	18	15	57.9	46.396	N	6.941	E	10	G		1.2	41	SWITZERLAND. ML 3.1 (STR), 3.0 (LDG), 2.7 (VIE).
23	18	29	41.8*	22.178	S	126.546	E	10	G	3.6	1.4	7	WESTERN AUSTRALIA
23	18	48	05.8*	65.826	N	153.772	W	10	G		0.5	5	NORTHERN ALASKA. ML 3.0 (PMR).
23	19	06	11.0*	24.803	N	125.364	E	50	D	4.8	1.3	34	SOUTHWESTERN RYUKYU ISLANDS
23	21	41	00.4	11.425	N	141.958	E	33	N	4.5	1.1	43	WESTERN CAROLINE ISLANDS

23	21	49	56.9	51.634	N	16.217	E	5	G	0.4	16	POLAND. ML 3.7 (GRF), 3.3 (VIE).		
23	22	03	56.26	40.303	N	124.557	W	19			14	NEAR COAST OF NORTHERN CALIF. <GM-P>. MD 3.4 (GM). ML 3.3 (BRK), 3.3 (GS).		
23	22	14	15.4	30.582	S	71.937	W	33	N	4.8	4.3	1.2	31	NEAR COAST OF CENTRAL CHILE
23	22	21	17.17	16.64	N	121.47	E	33	N			1.2	5	LUZON, PHILIPPINE ISLANDS
23	22	23	28.1	30.532	S	72.008	W	33	N	4.8		1.2	25	OFF COAST OF CENTRAL CHILE. MD 4.8 (SAN).
23	22	34	58.0	30.416	S	72.162	W	33	N	3.9		0.9	18	OFF COAST OF CENTRAL CHILE. MD 4.6 (SAN).
23	23	08	03.3	35.011	S	71.805	W	33	N	3.9		0.9	26	CENTRAL CHILE. MD 4.6 (SAN). Felt (IV) at San Fernando; (III) at Curico, Hualane, Licanen, Rancagua and Talca; (II) at Santiago.
23	23	33	28.0*	49.549	S	117.199	E	10	G	4.9	4.8	1.1	55	SOUTH OF AUSTRALIA. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 23:33:36.2; Lat 49.14 S; Lon 117.11 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=9.48, Plg=5, Azm=47; (N) Val=-0.07, Plg=13, Azm=138; (P) Val=-9.42, Plg=76, Azm=294; Best double couple: Mo=9.4*10**16 Nm; NPl: Strike=123, Dip=41, Slip=-109; NP2: Strike=328, Dip=52, Slip=-74.
24	00	05	37.3*	30.466	S	72.041	W	33	N			1.0	15	OFF COAST OF CENTRAL CHILE
24	00	57	58.6%	45.748	N	14.810	E	10	G			0.0	5	NORTHWESTERN BALKAN REGION. ML 0.9 (LJU).
24	01	44	16.5*	3.005	N	98.789	E	177	*	4.0		0.8	17	NORTHERN SUMATERA, INDONESIA
24	02	56	43.0*	16.796	S	173.896	W	33	N	4.6		1.0	21	TONGA ISLANDS
24	03	09	27.9*	25.086	S	175.401	W	33	N	4.1		1.0	15	SOUTH OF TONGA ISLANDS
24	03	50	38.5%	37.124	N	3.852	W	10	G			0.5	6	SPAIN. mbLg 2.4 (MDD).
24	04	00	14.7*	27.807	N	56.313	E	33	N			1.1	10	SOUTHERN IRAN
24	04	26	29.4*	30.529	S	72.208	W	33	N			1.1	9	OFF COAST OF CENTRAL CHILE
24	04	47	28.4%	36.098	N	117.878	W	2				4.6	46	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.4 (PAS), 3.5 (GS).
24	05	36	51.4	30.549	S	72.069	W	33	N	4.4		1.2	23	OFF COAST OF CENTRAL CHILE. MD 4.5 (SAN).
24	05	53	36.2%	16.38	S	179.06	W	400	G	4.1		1.1	10	FIJI ISLANDS REGION
24	06	27	44.1	30.542	S	72.034	W	33	N			1.1	18	OFF COAST OF CENTRAL CHILE. MD 4.6 (SAN).
24	07	24	37.9*	6.816	N	73.000	W	164	*	4.1		0.9	26	NORTHERN COLOMBIA
24	07	44	40.5%	34.069	S	70.142	W	10	G			0.4	9	CHILE-ARGENTINA BORDER REGION
24	08	17	47.8%	39.324	N	0.077	E	10	G			1.3	6	SPAIN. mbLg 3.2 (MDD).
24	09	42	25.2%	7.30	S	155.54	E	33	N	3.3		1.0	5	SOLOMON ISLANDS
24	09	46	16.0%	15.87	S	173.55	E	33	N	4.4		0.7	9	FIJI ISLANDS REGION
24	09	54	31.1*	27.581	N	139.984	E	481	*	3.8		1.0	28	BONIN ISLANDS REGION
24	09	59	47.1*	30.220	N	142.154	E	32	D	4.3		1.2	24	SOUTH OF HONSHU, JAPAN
24	10	30	58.6*	29.672	S	72.310	W	33	N			0.7	14	OFF COAST OF CENTRAL CHILE
24	11	14	51.2*	31.348	N	142.773	E	33	N	4.2		1.3	28	SOUTH OF HONSHU, JAPAN
24	12	58	32.7*	0.408	N	126.403	E	33	N	4.3		1.1	17	NORTHERN MOLUCCA SEA
24	13	31	06.6%	60.934	N	152.026	W	148				3.3	33	SOUTHERN ALASKA. <AEIC>.
24	13	47	27.2	44.159	N	114.729	W	5	G			0.5	10	WESTERN IDAHO. ML 3.1 (BUT).
24	14	35	41.5*	8.526	S	157.799	E	33	N	3.9		1.4	9	SOLOMON ISLANDS
24	15	22	08.7*	11.452	S	117.776	E	33	N	3.5		0.7	8	SOUTH OF SUMBAWA, INDONESIA
24	15	31	31.7%	37.232	N	2.360	W	10	G			0.4	6	SPAIN. mbLg 2.5 (MDD).
24	16	00	38.3*	6.702	S	105.243	E	61	*	4.2		0.9	20	SUNDA STRAIT
24	16	05	35.8*	20.382	S	68.657	W	140	*	4.3		1.3	14	CHILE-BOLIVIA BORDER REGION
24	16	14	07.9%	33.47	S	70.37	W	100	G			0.2	6	CHILE-ARGENTINA BORDER REGION
24	16	39	31.8%	32.886	S	70.239	W	110	G			0.3	9	CHILE-ARGENTINA BORDER REGION. MD 2.5 (SAN).
24	18	07	09.9%	32.61	S	71.45	W	20	G			0.8	9	NEAR COAST OF CENTRAL CHILE
24	18	22	06.8%	59.182	N	152.548	W	72				5.2	52	SOUTHERN ALASKA. <AEIC>.
24	19	54	39.6	30.578	S	72.021	W	33	N	5.0	5.0	1.0	92	OFF COAST OF CENTRAL CHILE. Mw 5.7 (HRV). Felt (IV) at La Serena and (III) at Ovalle, Pahuano and Papudo. Centroid, Moment Tensor (HRV): Centroid origin time 19:54:43.2; Lat 30.63 S; Lon 72.63 W; Dep 15.0 Fix; Half-duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=-3.70, Plg=76, Azm=86; (N) Val=0.25, Plg=1, Azm=179; (P) Val=-3.94, Plg=14, Azm=269; Best double couple: Mo=3.8*10**17 Nm; NPl: Strike=0, Dip=31, Slip=91; NP2: Strike=179, Dip=59, Slip=89.
24	20	11	46.8*	30.576	S	72.120	W	33	N			1.3	9	OFF COAST OF CENTRAL CHILE
24	20	54	31.4*	30.363	N	96.834	E	33	N			1.3	8	XIZANG
24	21	06	10.4*	30.022	N	96.019	E	33	N	4.1		1.2	11	XIZANG
24	21	25	11.9*	30.612	S	72.458	W	33	N			1.5	7	OFF COAST OF CENTRAL CHILE
24	21	31	20.3%	44.69	N	7.28	E	10	G			1.4	4	NORTHERN ITALY. ML 1.7 (LDG).
24	22	49	23.4%	62.551	N	150.902	W	76				2.5	25	CENTRAL ALASKA. <AEIC>.
24	23	03	21.2%	18.93	N	67.30	W	33	N			0.4	10	MONA PASSAGE. MD 3.7 (MPR).
24	23	19	33.7	26.075	N	95.723	E	92	D	4.5		1.1	27	MYANMAR-INDIA BORDER REGION
24	23	28	53.6%	63.473	N	150.879	W	8				2.6	26	CENTRAL ALASKA. <AEIC>. ML 3.7 (AEIC), 3.9 (PMR). Felt at Kantishna.
24	23	30	40.1%	24.59	S	177.61	W	100	G	4.0		1.0	8	SOUTH OF FIJI ISLANDS
24	23	33	36.2*	20.733	S	68.821	W	113	D	4.1		1.4	19	CHILE-BOLIVIA BORDER REGION
24	23	43	30.8%	35.842	N	120.390	W	7				4.5	45	CENTRAL CALIFORNIA. <GM-P>. MD 3.6 (GM). ML 3.5 (GS), 3.4 (BRK).
25	00	00	29.5*	30.549	S	72.126	W	33	N			0.8	11	OFF COAST OF CENTRAL CHILE
25	00	47	02.4*	43.458	N	140.774	E	200	G	3.9		0.3	12	HOKKAIDO, JAPAN REGION
25	00	51	45.0	30.637	S	72.185	W	33	N	4.8		1.2	21	OFF COAST OF CENTRAL CHILE
25	01	31	43.0%	15.18	S	173.82	W	317	D			0.7	7	TONGA ISLANDS
25	01	39	39.3%	37.08	N	3.76	W	10	G			0.1	4	SPAIN. mbLg 1.8 (MDD).
25	02	41	09.3*	53.053	N	34.613	W	10	G	4.2		1.2	34	NORTH ATLANTIC OCEAN
25	02	43	39.0%	16.30	S	177.17	E	33	N	4.6		1.2	16	FIJI ISLANDS
25	02	46	41.3%	36.364	N	70.742	E	200	G			0.7	6	HINDU KUSH REGION, AFGHANISTAN
25	03	44	19.4%	25.99	S	178.99	W	450	G	3.9		1.0	10	SOUTH OF FIJI ISLANDS
25	04	03	34.5*	30.609	S	72.826	W	33	N			0.6	11	OFF COAST OF CENTRAL CHILE
25	04	21	40.5%	33.477	S	70.253	W	100	G			0.3	8	CHILE-ARGENTINA BORDER REGION
25	04	44	07.9	30.564	S	72.466	W	33	N			1.1	18	OFF COAST OF CENTRAL CHILE
25	05	18	45.8%	32.971	S	70.953	W	33	N			1.0	9	CHILE-ARGENTINA BORDER REGION
25	05	50	06.2	30.483	S	71.970	W	33	N	4.4		1.1	27	NEAR COAST OF CENTRAL CHILE
25	06	47	02.6	30.462	S	71.906	W	33	N	5.6	5.5	1.2	145	NEAR COAST OF CENTRAL CHILE. Mw 6.2 (GS), 6.1 (HRV). Felt (III) at Coquimbo and La Serena; (II) at Valparaiso. Moment Tensor (GS): Dep 3; Principal axes (scale 10**18 Nm): (T) Val=2.57, Plg=57, Azm=79; (N) Val=-0.05, Plg=8,

Azm=337; (P) Val=-2.52, Plg=32, Azm=242; Best double couple: Mo=2.5*10**18 Nm; NP1: Strike=305, Dip=15, Slip=57; NP2: Strike=158, Dip=78, Slip=98.

Centroid, Moment Tensor (HRV): Centroid origin time 06:47:06.4; Lat 30.54 S; Lon 72.37 W; Dep 15.0 Bdy; Half-duration 2.3 sec; Principal axes (scale 10**18 Nm): (T) Val=1.50, Plg=70, Azm=100; (N) Val=-0.07, Plg=5, Azm=356; (P) Val=-1.43, Plg=20, Azm=264; Best double couple: Mo=1.5*10**18 Nm; NP1: Strike=345, Dip=26, Slip=78; NP2: Strike=178, Dip=65, Slip=96.

25 06 56 48.7* 30.590 S 72.340 W 33 N 0.8 14 OFF COAST OF CENTRAL CHILE

25 07 00 24.4* 32.410 N 115.181 W 6 G 18 CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.0 (PAS). MD 3.4 (ECX). Felt in the epicentral area.

25 07 16 10.0 30.525 S 72.050 W 33 N 4.6 1.1 34 OFF COAST OF CENTRAL CHILE

25 07 20 00.6* 30.582 S 71.977 W 33 N 1.1 9 NEAR COAST OF CENTRAL CHILE

25 07 23 08.4* 30.56 S 72.00 W 33 N 1.4 6 NEAR COAST OF CENTRAL CHILE

25 07 27 52.8* 30.505 S 72.216 W 33 N 1.0 14 OFF COAST OF CENTRAL CHILE

25 07 33 29.0 30.554 S 72.016 W 33 N 5.1 1.3 88 OFF COAST OF CENTRAL CHILE. Mw 6.1 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 07:33:37.8; Lat 30.69 S; Lon 72.30 W; Dep 15.0 Fix; Half-duration 2.2 sec; Principal axes (scale 10**18 Nm): (T) Val=1.44, Plg=69, Azm=111; (N) Val=-0.09, Plg=5, Azm=8; (P) Val=-1.35, Plg=20, Azm=277; Best double couple: Mo=1.4*10**18 Nm; NP1: Strike=358, Dip=25, Slip=79; NP2: Strike=191, Dip=66, Slip=95.

25 07 34 30.7* 30.494 S 71.950 W 33 N 5.4 5.5 1.3 30 NEAR COAST OF CENTRAL CHILE. Felt (IV) at Coquimbo, La Serena and Ovalle; (III) at Canela, Combarbala, Illapel, Monte Patria, Pahuano and Punitaqui; (II) at Salamanca and Valparaíso.

25 07 43 05.8* 30.509 S 71.893 W 33 N 1.3 21 NEAR COAST OF CENTRAL CHILE

25 07 51 21.9* 30.60 S 72.10 W 33 N 1.2 5 OFF COAST OF CENTRAL CHILE

25 07 53 19.2* 30.608 S 72.140 W 33 N 1.3 7 OFF COAST OF CENTRAL CHILE

25 07 57 59.3* 30.586 S 72.065 W 33 N 1.2 6 OFF COAST OF CENTRAL CHILE

25 07 59 09.4* 40.199 N 121.317 W 6 6 NORTHERN CALIFORNIA. <GM-P>. MD 3.0 (GM).

25 08 14 15.2 30.539 S 71.763 W 33 N 4.4 1.5 29 NEAR COAST OF CENTRAL CHILE

25 08 18 56.8* 30.57 S 71.88 W 33 N 1.6 5 NEAR COAST OF CENTRAL CHILE

25 08 27 27.5* 30.577 S 72.208 W 33 N 0.8 12 OFF COAST OF CENTRAL CHILE

25 11 16 10.0 44.515 N 6.964 E 5 G 0.6 14 FRANCE. ML 2.1 (LDG).

25 11 26 55.6* 10.494 S 161.665 E 110 D 4.6 1.0 26 SOLOMON ISLANDS

25 11 36 42.3* 47.127 N 5.572 E 5 G 1.1 9 FRANCE. ML 2.6 (LDG).

25 11 55 10.5* 18.528 S 168.183 E 33 N 4.7 4.6 1.4 43 VANUATU ISLANDS

25 12 34 37.5* 28.267 S 67.318 W 137 * 0.5 10 LA RIOJA PROVINCE, ARGENTINA

25 12 34 37.5 39.953 N 22.475 E 38 * 4.1 1.0 25 GREECE

25 13 15 13.0 30.335 S 71.897 W 33 N 4.7 4.1 1.1 47 NEAR COAST OF CENTRAL CHILE

25 13 41 42.4* 60.440 N 152.099 W 72 33 SOUTHERN ALASKA. <AEIC>.

25 13 42 08.1* 32.278 N 141.587 E 33 N 0.1 5 SOUTH OF HONSHU, JAPAN

25 15 03 52.1* 26.021 S 69.266 W 53 * 5.0 4.2 1.4 29 NORTHERN CHILE

25 15 05 12.1 51.361 N 179.181 W 33 N 4.8 0.9 105 ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.8 (PMR).

25 15 24 48.2* 49.383 N 6.919 E 5 G 0.6 5 GERMANY. ML 2.3 (UCC). Mining induced event in the Lorraine region, France.

25 15 54 16.3 45.711 N 11.052 E 10 G 1.0 33 NORTHERN ITALY. ML 3.3 (VIE), 3.1 (FUR), 2.9 (LDG).

25 16 42 38.9 34.034 S 70.274 W 100 G 4.6 1.2 23 CHILE-ARGENTINA BORDER REGION. MD 4.1 (SAN). Felt (III) at Rancagua and Santiago; (II) at Buin and Maipo, Chile.

25 17 00 19.8 44.992 N 7.382 E 5 G 1.0 59 NORTHERN ITALY. ML 3.6 (LDG), 3.6 (STR).

25 17 25 46.3* 61.727 N 150.665 W 50 21 SOUTHERN ALASKA. <AEIC>. ML 2.9 (AEIC), 3.2 (PMR).

25 17 44 05.3* 44.457 N 7.294 E 5 G 0.2 8 NORTHERN ITALY. ML 2.3 (LDG).

25 18 21 31.4* 45.80 N 26.80 E 150 G 0.3 7 ROMANIA

25 19 17 47.7 51.663 N 16.245 E 5 G 0.9 11 POLAND. ML 3.3 (GRF), 3.2 (VIE).

25 19 49 55.0* 12.085 N 86.423 W 100 G 1.1 10 NICARAGUA

25 19 54 42.6* 43.99 N 9.98 E 5 G 0.8 12 CORSICA. ML 2.5 (LDG).

25 19 55 57.1* 20.858 N 121.429 E 33 N 4.2 0.8 11 PHILIPPINE ISLANDS REGION

25 20 24 08.9* 36.953 N 2.842 W 5 G 0.5 8 STRAIT OF GIBRALTAR. mbLg 2.6 (MDD).

25 20 31 22.0* 8.376 S 108.956 E 100 G 0.9 9 JAWA, INDONESIA

25 20 36 04.8* 36.289 N 70.610 E 100 G 1.1 13 HINDU KUSH REGION, AFGHANISTAN

25 21 29 47.3* 44.114 N 7.082 E 5 G 0.4 6 NORTHERN ITALY. ML 1.8 (LDG).

25 21 50 57.3* 36.73 N 2.59 W 5 G 0.5 4 STRAIT OF GIBRALTAR. mbLg 2.5 (MDD).

25 23 59 08.7 52.278 N 169.497 W 33 N 4.6 4.2 1.1 80 FOX ISLANDS, ALEUTIAN ISLANDS

26 00 32 07.2* 36.93 N 4.64 W 5 G 0.2 4 STRAIT OF GIBRALTAR. mbLg 2.4 (MDD).

26 01 17 48.0* 51.536 N 7.623 E 10 G 1.0 12 GERMANY. ML 2.7 (LDG), 2.5 (UCC).

26 03 14 55.9* 33.399 N 116.354 W 12 64 SOUTHERN CALIFORNIA. <PAS-P>. ML 4.8 (PAS). Felt (IV) at Oceanside and Rancho Mirage; (III) at El Cajon. Also felt at Borrego Springs and San Diego. Felt in Los Angeles, Orange, Riverside, San Bernardino and San Diego Counties.

26 03 21 48.2* 64.662 N 150.035 W 20 18 CENTRAL ALASKA. <AEIC>. ML 2.9 (AEIC), 3.1 (PMR).

26 03 22 39.4* 26.40 S 27.98 E 5 G 1.3 6 REPUBLIC OF SOUTH AFRICA

26 03 34 20.9* 4.420 S 153.114 E 33 N 3.7 0.7 6 NEW IRELAND REGION, P.N.G.

26 03 51 00.5* 24.34 S 179.79 E 500 G 4.0 1.0 10 SOUTH OF FIJI ISLANDS

26 04 27 56.6 42.718 N 12.390 E 10 G 1.2 42 CENTRAL ITALY. ML 3.7 (VIE), 3.5 (LDG).

26 05 09 31.6* 32.273 S 70.354 W 100 G 0.6 13 CHILE-ARGENTINA BORDER REGION. MD 3.9 (SAN).

26 06 09 13.5 5.967 N 82.643 W 10 G 4.2 1.3 31 SOUTH OF PANAMA

26 06 14 10.6* 27.63 S 179.64 E 500 G 4.0 0.7 13 KERMADEC ISLANDS REGION

26 07 12 01.5* 9.840 N 93.240 E 100 G 3.8 0.6 10 NICOBAR ISLANDS, INDIA

26 08 03 03.8 7.995 S 119.873 E 33 N 4.0 1.1 8 FLORES SEA

26 08 29 44.2* 17.676 S 167.086 E 33 N 4.0 0.9 8 VANUATU ISLANDS

26 08 30 21.5* 37.122 N 3.604 W 10 G 1.2 5 SPAIN. mbLg 2.2 (MDD).

26 08 40 21.8* 37.27 N 2.92 W 10 G 0.6 4 SPAIN. mbLg 2.2 (MDD).

26 08 53 48.3 24.710 S 179.885 W 550 G 4.8 0.8 38 SOUTH OF FIJI ISLANDS

26 09 05 52.6* 8.063 S 119.974 E 33 N 4.3 1.3 12 FLORES REGION, INDONESIA

26 09 36 07.6* 32.059 N 130.414 E 33 N 1.0 12 KYUSHU, JAPAN

26 09 51 58.8* 57.505 N 152.349 W 27 32 KODIAK ISLAND REGION. <AEIC>. ML 2.6 (AEIC).

26 10 22 36.6* 51.278 N 178.496 W 33 N 4.1 1.2 13 ANDREANOF ISLANDS, ALEUTIAN IS.

26 10 24 16.9* 34.158 N 117.330 W 9 4.2 40 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.7 (PAS). Felt in the San Bernardino area.

26	10	41	53.2	6.968	N	73.025	W	150	G	4.3	1.3	47	NORTHERN COLOMBIA	
26	11	11	57.4	30.638	S	72.021	W	33	N	4.8	4.5	1.1	70	OFF COAST OF CENTRAL CHILE. Felt (II) at La Serena.
26	11	44	04.67	42.81	N	12.44	E	10	G			1.3	14	CENTRAL ITALY. ML 3.1 (LDG).
26	11	53	14.96	33.328	N	116.393	W	11					27	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS), 3.2 (GS).
26	12	19	16.3	51.688	N	16.217	E	5	G		0.8		34	POLAND. ML 4.2 (GRF), 3.9 (VIE), 3.9 (FUR).
26	12	46	39.76	35.753	N	118.018	W	4					35	CENTRAL CALIFORNIA. <PAS-P>. ML 3.4 (PAS), 3.4 (GS).
26	12	47	35.9	7.569	S	117.085	E	317		4.9	1.1		62	BALI SEA
26	15	00	41.3*	37.822	N	21.399	E	33	N	4.1	1.1		22	SOUTHERN GREECE
26	15	15	31.0*	3.728	S	142.792	E	33	N	3.9	1.4		15	NEAR N COAST OF NEW GUINEA, PNG.
26	15	37	27.1*	12.540	N	125.508	E	33	N	4.6	1.1		27	SAMAR, PHILIPPINE ISLANDS
26	15	53	57.1	0.969	S	137.255	E	33	N	5.0	4.5	1.1	53	IRIAN JAYA REGION, INDONESIA
26	16	36	40.4	36.393	N	70.141	E	234	*	4.6	0.8		43	HINDU KUSH REGION, AFGHANISTAN
26	17	23	45.2*	33.966	S	70.805	W	80	G		0.2		9	CHILE-ARGENTINA BORDER REGION. MD 2.6 (SAN).
26	18	41	07.8*	36.638	N	141.981	E	33	N		1.0		8	NEAR EAST COAST OF HONSHU, JAPAN
26	18	43	24.4	18.644	N	145.855	E	89	D	5.1	1.2		108	MARIANA ISLANDS. Felt strongly on Agrihan.
26	18	53	38.7*	44.829	N	7.103	E	10	G		1.1		7	NORTHERN ITALY. ML 1.6 (LDG).
26	19	01	18.5*	8.30	N	83.02	W	33	N	4.3	1.5		9	COSTA RICA
26	19	01	28.8	51.679	N	16.130	E	5	G		1.0		27	POLAND. ML 4.2 (GRF), 3.8 (VIE).
26	20	21	31.26	62.508	N	150.969	W	81					16	CENTRAL ALASKA. <AEIC>.
26	20	44	20.8	7.309	S	120.369	E	587		5.2	1.0		88	FLORES SEA
26	20	53	41.2	19.783	S	178.069	W	600	G	4.4	0.8		30	FIJI ISLANDS REGION
26	20	58	30.47	45.72	N	7.47	E	10	G		0.4		5	NORTHERN ITALY. ML 2.0 (LDG).
26	21	15	37.3	46.398	N	14.643	E	10	G		1.3		8	NORTHWESTERN BALKAN REGION. ML 2.4 (VIE), 2.0 (LJU).
26	22	35	46.1*	42.285	N	18.282	E	33	N		0.9		24	NORTHWESTERN BALKAN REGION
26	22	36	24.8*	22.854	S	170.514	E	33	N	4.5	1.3		23	LOYALTY ISLANDS REGION
26	22	50	02.6*	39.529	N	143.618	E	33	N	3.9	1.3		16	OFF EAST COAST OF HONSHU, JAPAN
26	23	20	09.6*	18.084	S	178.017	W	650	G	4.2	0.8		26	FIJI ISLANDS REGION
26	23	33	20.97	29.47	N	51.44	E	33	N	3.7	1.4		8	SOUTHERN IRAN
27	00	06	06.28	34.358	N	118.699	W	15					27	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS). Felt.
27	00	40	07.6	43.268	N	146.417	E	33	N	4.5	3.8	0.9	63	KURIL ISLANDS
27	01	25	41.0*	72.502	N	4.735	E	10	G		1.0		5	NORWEGIAN SEA
27	01	46	43.7	50.137	S	131.355	E	10	G	4.8	4.6	1.2	68	SOUTH OF AUSTRALIA
27	01	59	30.8	29.141	N	52.304	E	33	N	4.6	1.0		72	SOUTHERN IRAN
27	02	35	38.5*	42.815	N	7.113	W	10	G		0.6		6	SPAIN. mblg 3.0 (MDD). Felt (III) in the Sarria area.
27	03	43	09.77	52.46	N	167.19	W	33	N	3.9	1.2		7	FOX ISLANDS, ALEUTIAN ISLANDS
27	03	56	30.57	52.59	N	167.96	W	33	N		1.5		5	FOX ISLANDS, ALEUTIAN ISLANDS
27	04	00	24.1	51.605	N	16.442	E	5	G		1.2		12	POLAND. ML 3.3 (GRF), 3.2 (VIE).
27	05	06	03.5*	21.302	S	68.754	W	121	D	4.1	1.1		11	CHILE-BOLIVIA BORDER REGION
27	05	13	34.3*	43.545	N	11.328	E	10	G		0.5		12	CENTRAL ITALY. ML 2.6 (LDG).
27	05	21	29.2	30.517	S	71.862	W	33	N	5.6	5.8	1.2	136	NEAR COAST OF CENTRAL CHILE. Mw 6.3 (HRV), 6.2 (GS). Felt (II) at La Serena.
Moment Tensor (GS): Dep 11; Principal axes (scale 10**18 Nm): (T) Val=-2.58, Plg=42, Azm=55; (N) Val=-0.54, Plg=39, Azm=190; (P) Val=-2.04, Plg=24, Azm=301; Best double couple: Mo=2.3*10**18 Nm; NP1: Strike=80, Dip=40, Slip=164; NP2: Strike=182, Dip=80, Slip=51.														
Centroid, Moment Tensor (HRV): Centroid origin time 05:21:33.8; Lat 30.64 S; Lon 72.41 W; Dep 15.0 Fix; Half-duration 2.7 sec; Principal axes (scale 10**18 Nm): (T) Val=3.05, Plg=64, Azm=90; (N) Val=-0.11, Plg=1, Azm=358; (P) Val=-2.94, Plg=26, Azm=267; Best double couple: Mo=3.0*10**18 Nm; NP1: Strike=354, Dip=19, Slip=86; NP2: Strike=178, Dip=71, Slip=91.														
27	05	29	59.2	2.553	S	127.931	E	50	G	4.9	1.5		44	CERAM SEA
27	05	35	14.6*	30.521	S	71.984	W	33	N	3.8	1.2		10	NEAR COAST OF CENTRAL CHILE
27	05	36	49.97	30.55	S	71.88	W	33	N		0.9		10	NEAR COAST OF CENTRAL CHILE
27	06	35	07.3	30.558	S	72.021	W	33	N	4.9	1.1		70	OFF COAST OF CENTRAL CHILE
27	06	38	45.9*	13.727	S	166.239	E	33	N		1.0		12	VANUATU ISLANDS
27	06	54	24.5	27.339	N	140.151	E	340		4.6	0.8		72	BONIN ISLANDS REGION
27	07	46	55.7	51.721	N	16.091	E	5	G		1.2		15	POLAND. ML 3.4 (GRF), 3.3 (VIE).
27	08	00	39.0*	9.664	S	124.384	E	100	G	4.5	1.7		10	TIMOR REGION, INDONESIA
27	08	13	31.96	35.602	N	116.477	W	6	D				26	CENTRAL CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
27	09	07	55.3	26.181	S	69.251	W	52	D	4.7	1.2		57	NORTHERN CHILE
27	10	07	52.5	35.582	N	21.064	E	33	N	5.5	4.8	1.1	357	CENTRAL MEDITERRANEAN SEA. Mw 5.8 (GS), 5.6 (HRV), 5.5 (CSEM). ML 5.2 (ROM). Felt in the Cairo area, Egypt.
Moment Tensor (GS): Dep 13; Principal axes (scale 10**17 Nm): (T) Val=4.85, Plg=3, Azm=17; (N) Val=0.20, Plg=79, Azm=125; (P) Val=-5.06, Plg=10, Azm=286; Best double couple: Mo=5.0*10**17 Nm; NP1: Strike=62, Dip=80, Slip=-175; NP2: Strike=331, Dip=85, Slip=-10.														
Centroid, Moment Tensor (HRV): Centroid origin time 10:07:56.6; Lat 35.49 N; Lon 20.91 E; Dep 33.0 Fix; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=2.73, Plg=18, Azm=56; (N) Val=-0.43, Plg=65, Azm=188; (P) Val=-2.30, Plg=18, Azm=320; Best double couple: Mo=2.5*10**17 Nm; NP1: Strike=98, Dip=65, Slip=180; NP2: Strike=188, Dip=90, Slip=25.														
Moment Tensor (CSEM): Dep 15; Principal axes: (T) Plg=27, Azm=61; (N) Plg=10, Azm=156; (P) Plg=61, Azm=265; Best double couple: Mo=2.3*10**17 Nm; NP1: Strike=128, Dip=20, Slip=-120; NP2: Strike=340, Dip=73, Slip=-80.														
27	10	11	23.4	9.384	S	119.059	E	100	G	4.3	1.2		19	SUMBA REGION, INDONESIA
27	11	30	32.77	32.34	S	72.08	W	10	G		0.3		9	OFF COAST OF CENTRAL CHILE. MD 3.7 (SAN).
27	12	01	22.0	42.985	N	12.517	E	10	G		1.4		47	CENTRAL ITALY. ML 3.7 (VIE), 3.4 (LDG).
27	12	01	22.77	34.36	S	72.01	W	10	G		0.6		6	NEAR COAST OF CENTRAL CHILE. MD 3.5 (SAN).
27	12	18	45.77	14.88	S	175.25	W	33	N	4.4	0.8		7	SAMOA ISLANDS REGION
27	13	18	46.57	14.87	N	97.99	W	33	N	4.0	1.5		5	OFF COAST OF OAXACA, MEXICO
27	13	56	21.4	3.510	S	145.324	E	33	N	4.8	1.3		41	NEAR N COAST OF NEW GUINEA, PNG.
27	14	31	15.3*	30.345	S	71.801	W	78	*	4.5	1.3		15	NEAR COAST OF CENTRAL CHILE
27	15	10	35.8*	38.675	N	78.388	W	5	G		1.2		7	VIRGINIA. mblg 2.5 (GS). Felt (V) at Brandy Station and Culpeper, (III) at Jeffersonston and (II) at Casanova.
27	15	15	40.06	48.529	N	122.081	W	2					49	WASHINGTON. <SEA-P>. MD 2.6 (SEA).
27	15	40	25.0	21.370	N	45.844	W	10	G	4.9	4.4	0.9	94	NORTHERN MID-ATLANTIC RIDGE. Mw 5.0 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time
15:40:31.7; Lat 21.37 N Fix; Lon 45.84 W Fix; Dep 15.0 Fix;
Half-duration 1.0 sec; Principal axes (scale 10**16 Nm):
(T) Val=3.55, Plg=5, Azm=90; (N) Val=0.43, Plg=9, Azm=181;
(P) Val=-3.98, Plg=80, Azm=329; Best double couple:
Mo=3.8*10**16 Nm; NP1: Strike=170, Dip=40, Slip=-104; NP2:
Strike=8, Dip=51, Slip=-79.

27 16 27 36.6? 7.50 S 155.66 E 33 N 3.8 1.1 10
27 16 30 30.7? 3.60 S 145.57 E 33 N 4.2 1.4 9
27 16 42 13.4 33.923 N 141.450 E 40 * 4.4 1.0 39
27 16 47 50.4* 6.215 S 103.882 E 65 * 4.6 1.1 43
27 17 10 13.8 14.087 S 73.597 W 93 D 4.9 0.9 105

SOLOMON ISLANDS

NEAR N COAST OF NEW GUINEA, PNG.

OFF EAST COAST OF HONSHU, JAPAN

SOUTHWEST OF SUMATERA, INDONESIA

CENTRAL PERU. Mw 5.2 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time
17:10:20.1; Lat 14.18 S; Lon 73.57 W; Dep 117.5; Half-
duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
Val=7.66, Plg=2, Azm=344; (N) Val=-1.69, Plg=15, Azm=74;
(P) Val=-5.97, Plg=74, Azm=248; Best double couple:
Mo=6.8*10**16 Nm; NP1: Strike=58, Dip=45, Slip=-112; NP2:
Strike=268, Dip=49, Slip=-69.

27 17 44 31.9% 36.374 N 70.273 E 233 * 0.7 11
27 18 12 29.9? 30.39 S 72.86 W 50 G 4.3 1.3 8
27 18 32 00.4 33.560 N 122.193 E 10 G 4.8 4.3 1.2 47

HINDU KUSH REGION, AFGHANISTAN

OFF COAST OF CENTRAL CHILE

YELLOW SEA. Felt in eastern Jiangsu Province and at
Shanghai, China.

27 18 50 10.0 19.842 S 177.952 W 600 G 4.4 0.9 44
27 19 06 20.7 20.753 S 178.769 W 600 G 4.8 1.0 116
27 20 22 15.0* 0.927 N 127.605 E 33 N 4.4 1.1 22
27 20 25 38.8 36.986 N 0.982 E 33 N 0.6 21
27 21 49 45.4 10.685 S 113.242 E 41 * 4.2 1.3 28
27 21 58 25.5* 29.968 S 71.491 W 33 N 4.0 1.5 10
27 22 35 58.3 6.039 S 103.850 E 53 * 4.9 1.2 66

FIJI ISLANDS REGION

FIJI ISLANDS REGION

HALMAHERA, INDONESIA

NORTHERN ALGERIA. mblg 3.2 (MDD).

SOUTH OF JAWA, INDONESIA

NEAR COAST OF CENTRAL CHILE

SOUTHWEST OF SUMATERA, INDONESIA. Mw 5.1 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time
22:36:03.3; Lat 6.51 S; Lon 103.87 E; Dep 15.0 Fix; Half-
duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
Val=4.01, Plg=42, Azm=296; (N) Val=3.71, Plg=45, Azm=90;
(P) Val=-7.72, Plg=14, Azm=193; Best double couple:
Mo=5.9*10**16 Nm; NP1: Strike=325, Dip=50, Slip=156; NP2:
Strike=71, Dip=72, Slip=42.

27 22 42 13.3* 11.229 S 166.232 E 100 G 4.3 1.4 14
27 23 07 18.8% 63.335 N 151.249 W 10 29
27 23 33 25.8 27.527 N 56.644 E 33 N 4.9 4.7 0.9 125

SANTA CRUZ ISLANDS

CENTRAL ALASKA. <AEIC>. ML 3.2 (AEIC), 3.7 (PMR).

SOUTHERN IRAN. Mw 5.1 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time
23:33:28.4; Lat 27.41 N; Lon 56.56 E; Dep 33.0 Fix; Half-
duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
Val=5.67, Plg=14, Azm=65; (N) Val=0.29, Plg=75, Azm=217;
(P) Val=-5.96, Plg=7, Azm=333; Best double couple:
Mo=5.8*10**16 Nm; NP1: Strike=108, Dip=76, Slip=175; NP2:
Strike=199, Dip=85, Slip=15.

28 00 39 25.6 11.684 S 166.400 E 131 D 4.5 0.9 27
28 02 10 47.4* 6.735 S 129.854 E 100 G 4.1 0.8 9
28 03 10 19.9 58.361 N 142.722 W 10 G 0.8 47
28 03 13 23.8% 47.952 N 2.346 W 5 G 1.1 6
28 04 04 58.5? 22.61 N 142.38 E 27 D 3.7 1.5 8
28 04 26 21.2? 22.48 N 142.85 E 33 N 0.6 5
28 04 27 53.6* 3.678 S 140.691 E 33 N 3.5 0.9 8
28 04 58 53.9? 22.53 N 142.71 E 33 N 1.4 5
28 05 58 02.6? 21.34 S 179.36 W 600 G 4.3 1.1 17
28 06 09 35.1 6.837 S 129.740 E 150 G 4.4 1.0 19
28 06 46 55.7 22.357 N 142.733 E 33 N 5.7 5.8 1.1 222

SANTA CRUZ ISLANDS

BANDA SEA

GULF OF ALASKA. ML 3.0 (AEIC).

FRANCE. ML 2.1 (LDG).

VOLCANO ISLANDS REGION

VOLCANO ISLANDS REGION

IRIAN JAYA, INDONESIA

VOLCANO ISLANDS REGION

FIJI ISLANDS REGION

BANDA SEA

VOLCANO ISLANDS REGION. Mw 5.9 (HRV), 5.8 (GS). Me 5.7 (GS).
Ms 6.1 (BRK).

Broadband Source Parameters (GS): Radiated energy 7.3*10**12
Nm.

Moment Tensor (GS): Dep 6; Principal axes (scale 10**17 Nm):
(T) Val=5.15, Plg=4, Azm=47; (N) Val=2.31, Plg=1, Azm=137;
(P) Val=-7.46, Plg=86, Azm=240; Best double couple:
Mo=6.3*10**17 Nm; NP1: Strike=136, Dip=41, Slip=-92; NP2:
Strike=318, Dip=49, Slip=-89.

Centroid, Moment Tensor (HRV): Centroid origin time
06:46:58.5; Lat 22.26 N; Lon 142.68 E; Dep 15.0 Fix; Half-
duration 2.2 sec; Principal axes (scale 10**17 Nm): (T)
Val=7.92, Plg=1, Azm=244; (N) Val=0.61, Plg=7, Azm=334; (P)
Val=-8.53, Plg=83, Azm=145; Best double couple:
Mo=8.2*10**17 Nm; NP1: Strike=327, Dip=44, Slip=-99; NP2:
Strike=160, Dip=46, Slip=-81.

28 07 01 15.5 22.328 N 142.788 E 33 N 4.9 0.9 73
28 07 04 15.4 22.313 N 142.819 E 33 N 4.4 1.0 31
28 07 07 18.2 22.319 N 142.912 E 33 N 4.4 0.9 32
28 07 36 03.4% 43.808 N 7.383 E 5 G 1.5 6
28 08 11 59.2 31.773 N 140.452 E 71 D 4.4 0.9 25
28 08 45 53.5* 7.507 N 36.357 W 10 G 4.2 1.3 15
28 08 48 16.0* 1.067 S 24.467 W 10 G 4.5 1.0 25
28 09 06 37.1? 5.69 N 127.95 E 33 N 3.9 1.2 7
28 09 51 11.1 22.259 N 142.765 E 25 D 5.2 4.6 0.9 144

VOLCANO ISLANDS REGION

VOLCANO ISLANDS REGION

VOLCANO ISLANDS REGION

NEAR SOUTH COAST OF FRANCE. ML 2.3 (LDG).

SOUTH OF HONSHU, JAPAN

CENTRAL MID-ATLANTIC RIDGE

CENTRAL MID-ATLANTIC RIDGE

PHILIPPINE ISLANDS REGION

VOLCANO ISLANDS REGION. Mw 5.1 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time
09:51:10.6; Lat 21.88 N; Lon 143.15 E; Dep 15.0 Fix; Half-
duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
Val=7.32, Plg=10, Azm=251; (N) Val=-3.26, Plg=75, Azm=23;
(P) Val=-4.06, Plg=11, Azm=159; Best double couple:
Mo=5.7*10**16 Nm; NP1: Strike=295, Dip=75, Slip=-180; NP2:
Strike=205, Dip=90, Slip=-15.

28 10 08 53.0 25.350 N 109.642 W 10 G 5.2 5.0 1.2 164

GULF OF CALIFORNIA. Mw 5.4 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time
10:09:00.4; Lat 26.03 N; Lon 109.66 W; Dep 15.0 Fix; Half-
duration 1.3 sec; Principal axes (scale 10**17 Nm): (T)

Val=-1.55, Plg=14, Azm=279; (N) Val=-0.15, Plg=10, Azm=187;
(P) Val=-1.39, Plg=73, Azm=62; Best double couple:
Mo=1.5*10**17 Nm; NP1: Strike=23, Dip=33, Slip=-71; NP2:
Strike=181, Dip=59, Slip=-102.

28 12 27 03.8* 30.575 S 72.013 W 33 N 1.3 19 OFF COAST OF CENTRAL CHILE
28 12 30 41.4* 54.284 N 162.310 W 0 26 ALASKA PENINSULA. <AEIC>. ML 3.1 (AEIC).
28 13 18 27.3 29.898 N 51.058 E 33 N 4.4 0.7 18 SOUTHERN IRAN
28 13 35 19.1? 53.21 S 140.09 E 10 G 4.0 0.9 9 WEST OF MACQUARIE ISLAND
28 13 56 24.7? 30.76 S 72.16 W 150 G 4.2 0.9 10 OFF COAST OF CENTRAL CHILE
28 14 05 14.4* 14.280 S 167.085 E 33 N 4.4 1.0 24 VANUATU ISLANDS
28 14 23 49.5* 17.837 S 177.253 W 33 N 4.1 0.8 13 FIJI ISLANDS REGION
28 14 50 20.3* 59.776 N 153.228 W 126 69 SOUTHERN ALASKA. <AEIC>.
28 15 09 17.4? 4.44 N 126.16 E 33 N 4.2 0.9 8 TALAUD ISLANDS, INDONESIA
28 15 45 23.8* 25.550 S 178.183 W 300 G 4.2 1.1 22 SOUTH OF FIJI ISLANDS
28 16 28 44.6* 36.333 N 71.620 E 150 G 3.9 1.2 9 AFGHANISTAN-TAJIKISTAN BORD REG.
28 17 12 07.3 30.724 S 72.171 W 33 N 4.4 1.2 22 OFF COAST OF CENTRAL CHILE
28 17 32 21.6* 60.354 N 153.161 W 149 84 SOUTHERN ALASKA. <AEIC>.
28 18 28 10.7* 10.752 N 85.953 W 33 N 4.4 3.9 1.3 20 COSTA RICA
28 18 53 33.7? 10.84 N 85.95 W 33 N 4.4 1.4 25 COSTA RICA
28 18 57 56.4* 27.757 N 99.981 E 33 N 4.3 1.2 13 YUNNAN, CHINA
28 19 16 23.5? 29.57 N 139.01 E 350 G 1.1 7 SOUTH OF HONSHU, JAPAN
28 19 57 10.0 26.165 S 178.119 W 200 G 4.3 0.8 53 SOUTH OF FIJI ISLANDS
28 20 09 08.0 34.684 N 36.658 W 10 G 4.5 4.2 0.9 23 NORTHERN MID-ATLANTIC RIDGE
28 20 55 13.1* 49.894 N 18.475 E 10 G 0.7 5 CZECH AND SLOVAK REPUBLICS. ML 2.6 (BRA).
28 21 16 49.0* 15.972 N 95.500 W 33 N 4.2 1.3 11 NEAR COAST OF OAXACA, MEXICO
28 21 35 25.8 1.779 N 127.253 E 116 D 5.0 1.0 45 HALMAHERA, INDONESIA
28 22 04 01.8* 53.083 S 23.705 E 10 G 4.4 0.8 12 SOUTH OF AFRICA
28 23 23 31.8* 25.199 S 175.973 W 33 N 4.4 1.0 23 SOUTH OF TONGA ISLANDS
28 23 29 19.4 34.566 N 36.729 W 10 G 4.8 4.7 1.0 59 NORTHERN MID-ATLANTIC RIDGE. Mw 5.1 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time
23:29:22.9; Lat 34.57 N Fix; Lon 36.73 W Fix; Dep 15.0 Fix;
Half-duration 1.0 sec; Principal axes (scale 10**16 Nm):
(T) Val=4.30, Plg=1, Azm=304; (N) Val=-0.03, Plg=12,
Azm=213; (P) Val=-4.27, Plg=78, Azm=39; Best double couple:
Mo=4.3*10**16 Nm; NP1: Strike=46, Dip=45, Slip=-73; NP2:
Strike=202, Dip=47, Slip=-107.

28 23 29 45.6* 37.644 N 118.944 W 7 8 CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.0 (GM).
28 23 38 01.4* 60.795 N 150.782 W 48 13 KENAI PENINSULA, ALASKA. <AEIC>. ML 2.5 (AEIC).
28 23 40 13.7* 34.502 N 36.624 W 10 G 4.4 1.1 24 NORTHERN MID-ATLANTIC RIDGE
28 23 53 24.4* 9.626 S 160.366 E 33 N 0.8 10 SOLOMON ISLANDS
28 23 54 01.0* 36.086 N 4.288 W 33 N 1.0 10 STRAIT OF GIBRALTAR. mbLg 3.3 (MDD).
29 00 06 15.1 43.300 N 12.477 E 10 G 1.3 66 CENTRAL ITALY. ML 3.7 (STR), 3.6 (GRF), 3.5 (VIE), 3.3 (LDG).
29 00 31 20.7 30.613 S 72.134 W 33 N 4.9 4.3 1.0 44 OFF COAST OF CENTRAL CHILE. Mw 5.2 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time
00:31:21.4; Lat 30.87 S; Lon 72.96 W; Dep 42.2; Half-
duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
Val=5.14, Plg=72, Azm=173; (N) Val=3.15, Plg=18, Azm=358;
(P) Val=-8.28, Plg=2, Azm=268; Best double couple:
Mo=6.7*10**16 Nm; NP1: Strike=340, Dip=46, Slip=65; NP2:
Strike=194, Dip=49, Slip=114.

29 00 57 07.7* 33.522 N 140.593 E 100 G 0.5 7 SOUTH OF HONSHU, JAPAN
29 01 01 46.4? 31.27 S 69.17 W 150 G 0.6 10 SAN JUAN PROVINCE, ARGENTINA
29 01 18 19.5? 13.05 N 144.97 E 75 4.5 1.1 14 MARIANA ISLANDS
29 01 56 35.0 33.228 N 140.566 E 58 D 4.4 1.2 44 SOUTH OF HONSHU, JAPAN
29 03 15 26.1* 34.590 N 36.542 W 10 G 4.4 1.2 20 NORTHERN MID-ATLANTIC RIDGE
29 03 24 30.8 26.992 N 54.372 E 33 N 4.4 1.0 44 SOUTHERN IRAN
29 03 41 35.7* 30.667 S 72.156 W 33 N 4.4 1.1 13 OFF COAST OF CENTRAL CHILE
29 04 46 48.8* 5.779 S 103.375 E 33 N 4.2 1.2 18 SOUTHERN SUMATERA, INDONESIA
29 05 34 55.1? 31.65 S 70.22 W 140 G 0.3 10 CHILE-ARGENTINA BORDER REGION
29 05 45 55.3? 2.65 S 141.29 E 33 N 0.7 5 NEAR N COAST OF NEW GUINEA, PNG.
29 06 39 52.5* 51.019 N 176.338 W 33 N 4.0 1.3 17 ANDREANOF ISLANDS, ALEUTIAN IS.
29 06 54 51.7 22.423 N 142.786 E 33 N 4.8 0.9 36 VOLCANO ISLANDS REGION
29 06 59 38.9? 22.37 N 142.96 E 33 N 0.7 6 VOLCANO ISLANDS REGION
29 07 07 18.4? 32.55 S 71.99 W 20 G 0.5 9 NEAR COAST OF CENTRAL CHILE
29 07 09 13.3? 5.20 S 152.86 E 33 N 4.3 0.7 5 NEW BRITAIN REGION, P.N.G.
29 07 34 44.4* 52.993 N 160.786 W 35 20 SOUTH OF ALASKA. <AEIC>. ML 3.6 (AEIC).
29 07 42 50.8 28.355 S 125.800 E 10 G 1.1 16 WESTERN AUSTRALIA
29 08 11 15.5 51.064 N 176.289 W 33 N 4.3 1.3 31 ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.3 (PMR).
29 08 32 22.1? 17.80 S 167.96 E 33 N 4.2 1.2 12 VANUATU ISLANDS
29 08 50 35.7 46.052 N 7.229 E 5 G 0.5 9 SWITZERLAND. ML 2.5 (STR), 2.4 (LDG).
29 09 04 57.5? 17.78 S 168.03 E 33 N 4.3 1.3 9 VANUATU ISLANDS
29 09 17 57.2* 19.091 S 175.908 W 33 N 4.8 0.5 15 TONGA ISLANDS
29 09 35 12.6? 46.80 N 3.84 E 5 G 0.3 4 FRANCE. ML 1.5 (LDG).
29 09 43 35.8* 32.831 N 73.680 E 10 G 4.8 1.4 17 PAKISTAN
29 09 49 53.3* 18.326 N 100.497 W 100 G 4.0 1.0 24 GUERRERO, MEXICO
29 11 13 06.4* 1.435 N 90.883 W 10 G 4.1 1.1 17 GALAPAGOS ISLANDS REGION
29 11 21 15.6? 8.56 S 120.01 E 164 * 4.4 0.7 14 FLORES REGION, INDONESIA
29 11 25 05.0 27.894 S 26.703 E 5 G 4.8 4.6 1.0 44 REPUBLIC OF SOUTH AFRICA
29 12 42 28.0? 0.70 N 91.89 W 10 G 3.8 1.0 9 GALAPAGOS ISLANDS
29 13 04 47.2* 37.967 N 112.570 W 1 15 UTAH. <SLC-P>. ML 3.5 (SLC).
29 13 46 15.1* 30.620 S 71.791 W 33 N 4.4 1.3 13 NEAR COAST OF CENTRAL CHILE
29 15 00 26.9? 16.13 N 95.74 W 33 N 0.4 7 OAXACA, MEXICO
29 15 21 26.8 6.413 S 128.780 E 242 * 4.2 0.8 24 BANDA SEA
29 15 42 47.2 8.991 S 106.510 E 39 D 4.4 1.0 38 SOUTH OF JAWA, INDONESIA
29 17 26 19.6* 19.023 N 145.636 E 253 * 4.2 1.1 19 MARIANA ISLANDS
29 17 35 38.9 22.761 S 68.810 W 107 D 4.9 1.0 83 NORTHERN CHILE. Felt (IV) at Antofagasta, Calama,
Chuquicamata and Socalre; (III) at San Pedro de Atacama.
GALAPAGOS ISLANDS REGION. Mw 5.5 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time
17:40:12.9; Lat 1.62 N; Lon 90.79 W; Dep 15.0 Fix; Half-
duration 1.3 sec; Principal axes (scale 10**17 Nm): (T)
Val=2.20, Plg=21, Azm=68; (N) Val=-0.07, Plg=57, Azm=194;
(P) Val=-2.14, Plg=24, Azm=328; Best double couple:

29 17 40 06.1 1.535 N 90.967 W 10 G 5.1 4.8 1.1 32

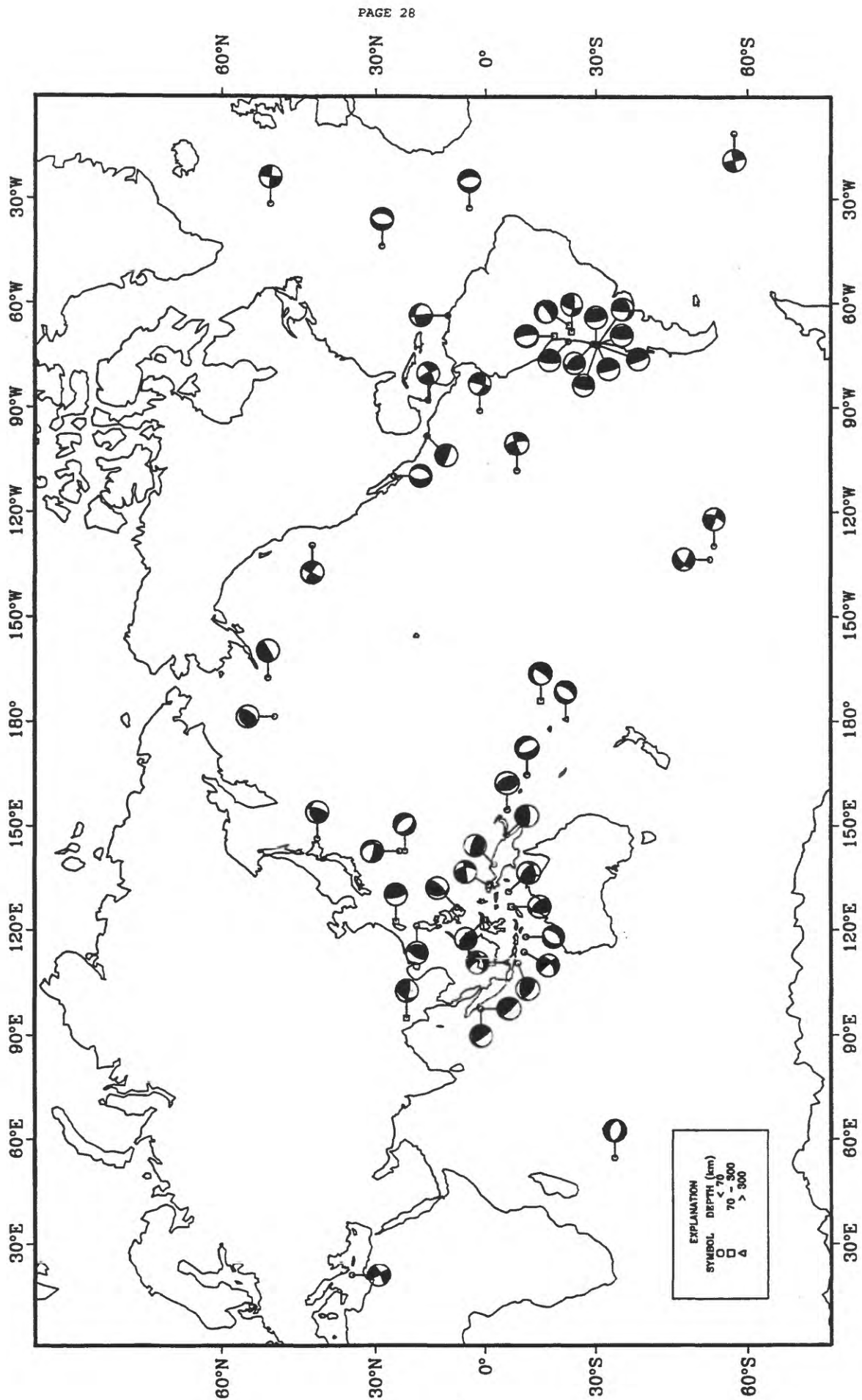
Mo=2.2*10**17 Nm; NP1: Strike=109, Dip=57, Slip=-177; NP2: Strike=17, Dip=88, Slip=-33.

29	18	00	18.7	31.554	N	76.817	E	33	N	4.7	0.8	50	NORTHERN INDIA. Felt in the Kangra and Sundarnagar areas.
29	18	20	09.3*	22.141	N	143.488	E	130	D	4.3	1.0	28	VOLCANO ISLANDS REGION
29	18	31	10.9*	22.261	N	143.395	E	33	N		1.1	8	VOLCANO ISLANDS REGION
29	18	57	40.1*	28.170	S	71.120	W	33	N		1.3	12	NEAR COAST OF CENTRAL CHILE
29	18	59	28.5%	11.227	S	70.170	W	33	N		1.0	9	PERU-BRAZIL BORDER REGION
29	19	56	44.4?	4.88	S	151.93	E	33	N		1.3	12	NEW BRITAIN REGION, P.N.G.
29	20	17	07.7%	33.256	S	70.950	W	70	G		0.3	8	CHILE-ARGENTINA BORDER REGION
29	20	17	29.6%	33.875	N	117.831	W	5				5	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.7 (PAS). Felt in Orange County.
29	21	05	30.4	32.069	N	138.129	E	367			0.5	18	SOUTH OF HONSHU, JAPAN
29	21	14	42.4	39.263	N	22.311	E	10	G	4.0	1.1	46	GREECE. ML 3.9 (ROM).
29	21	22	57.9	47.288	N	11.332	E	5	G		0.2	6	AUSTRIA. ML 2.2 (VIE).
29	21	30	19.2%	36.429	N	3.179	W	10	G		0.9	14	STRAIT OF GIBRALTAR. mbLg 3.1 (MDD).
29	21	57	40.4*	0.104	S	18.094	W	10	G	4.5	1.2	14	CENTRAL MID-ATLANTIC RIDGE
29	22	05	35.2	1.148	N	127.047	E	68	?	4.4	1.2	29	HALMAHERA, INDONESIA
30	00	05	09.6?	11.50	N	85.84	W	33	N	3.9	1.4	12	NICARAGUA
30	00	40	20.4	49.770	N	6.702	E	10	G		1.3	12	GERMANY. ML 2.6 (LDG), 2.2 (DBN), 2.1 (UCC).
30	01	04	24.1	9.360	S	124.112	E	50	G	3.9	0.7	14	TIMOR REGION, INDONESIA
30	01	10	16.2	22.304	N	142.906	E	33	N	4.4	1.0	26	VOLCANO ISLANDS REGION
30	01	14	32.4%	37.217	N	3.844	W	10	G		0.3	5	SPAIN. mbLg 1.7 (MDD).
30	01	20	36.6%	63.469	N	151.082	W	15				28	CENTRAL ALASKA. <AEIC>. ML 3.7 (AEIC), 3.9 (PMR). Felt at Kantishna.
30	01	31	20.6%	37.634	N	118.857	W	6				22	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.2 (GM). ML 3.3 (GS), 3.3 (BRK). Felt in the epicentral area.
30	01	39	19.7%	59.380	N	152.599	W	83				32	SOUTHERN ALASKA. <AEIC>.
30	01	52	33.6%	32.846	S	71.036	W	60	G		0.2	8	NEAR COAST OF CENTRAL CHILE
30	03	38	29.1%	59.864	N	151.801	W	53				17	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.9 (AEIC).
30	03	43	01.3	51.581	N	16.193	E	5	G	4.1	0.9	53	POLAND. ML 4.2 (GRF), 4.0 (VIE), 4.0 (FUR).
30	03	52	46.2%	25.422	N	125.072	E	50	G		0.6	8	SOUTHWESTERN RYUKYU ISLANDS
30	04	16	31.7	19.050	S	179.697	W	600	G	4.3	0.4	23	FIJI ISLANDS REGION
30	05	04	33.8	29.872	N	51.027	E	33	N	4.3	0.9	22	SOUTHERN IRAN
30	05	10	18.6?	31.08	S	179.27	W	300	G	4.1	0.8	12	KERMADEC ISLANDS REGION
30	06	01	30.4?	13.27	N	92.51	W	33	N		1.5	6	OFF COAST OF CHIAPAS, MEXICO
30	06	17	02.2*	30.618	S	72.835	W	50	G		1.4	8	OFF COAST OF CENTRAL CHILE
30	06	31	54.2%	32.747	N	130.060	E	33	N		0.4	7	KYUSHU, JAPAN
30	07	19	14.2	49.857	N	153.580	E	150	G	4.3	0.9	66	KURIL ISLANDS
30	08	03	51.1*	8.375	S	158.473	E	150	G	4.0	0.9	20	SOLOMON ISLANDS
30	09	25	35.2*	34.614	N	31.316	E	33	N		1.2	11	CYPRUS REGION
30	10	33	51.6%	46.310	N	4.255	E	10	G		0.8	5	FRANCE. ML 2.0 (LDG).
30	10	40	12.6	46.089	N	152.952	E	33	N		0.9	24	KURIL ISLANDS
30	11	30	38.9%	37.571	N	121.667	W	7				25	CENTRAL CALIFORNIA. <GM-P>. MD 3.1 (GM). ML 3.3 (BRK), 3.2 (GS).
30	11	54	52.2	9.513	N	84.194	W	84	*	4.5	1.2	50	COSTA RICA
30	12	29	23.3	36.436	N	83.509	W	5	G		1.0	11	TENNESSEE. mbLg 3.8 (GS). Felt (V) at Bean Station and Morristown; (IV) at Blaine, Harrogate, New Tazewell, Speedwell, Talbott and Washburn. Also felt (IV) at Ewing, Virginia and Asheville, North Carolina. Felt in parts of Kentucky, North Carolina, Tennessee and Virginia.
30	13	02	16.3*	0.792	S	123.422	E	33	N	3.6	1.1	9	MINAHASSA PENINSULA, SULAWESI
30	13	06	35.0	5.571	N	32.869	W	10	G	4.4 3.9	0.9	33	CENTRAL MID-ATLANTIC RIDGE
30	13	37	41.7	5.554	N	32.834	W	10	G	4.7 4.4	1.0	35	CENTRAL MID-ATLANTIC RIDGE
30	14	06	38.0	10.698	N	63.424	W	24		4.3	1.2	26	NEAR COAST OF VENEZUELA. Seven buildings destroyed at Carupano. Felt at Cariaco, Casanay, Chiguana, El Pilar, Rio Caribe and Yaguaraparo.
30	14	08	09.1%	37.643	N	118.922	W	7				7	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.6 (GM).
30	14	12	21.2%	37.652	N	118.919	W	3				4	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.9 (GM).
30	14	54	54.6*	11.231	S	119.137	E	33	N	3.6	1.0	8	SOUTH OF SUMBA, INDONESIA
30	15	30	01.8%	28.050	S	142.539	E	10	G		1.4	10	QUEENSLAND, AUSTRALIA
30	15	38	27.4%	37.101	N	3.744	W	10	G		0.7	8	SPAIN. mbLg 2.9 (MDD).
30	15	42	09.0?	31.61	S	70.03	W	140	G		0.3	9	CHILE-ARGENTINA BORDER REGION
30	16	06	35.9	37.283	N	14.581	E	10	G		0.8	14	SICILY. ML 3.4 (ROM).
30	16	12	44.4	17.996	N	70.320	W	10	G	4.9	0.8	52	DOMINICAN REPUBLIC REGION
30	16	33	39.4%	38.418	N	22.146	E	33	N		1.3	7	GREECE. ML 3.1 (ATH).
30	16	49	42.9*	3.803	S	140.842	E	33	N	4.1	1.3	13	IRIAN JAYA, INDONESIA
30	17	18	37.8%	36.814	N	21.677	E	10	G		1.1	5	SOUTHERN GREECE
30	17	32	09.2*	23.885	N	122.513	E	33	N	4.7	1.3	19	TAIWAN REGION
30	19	00	55.0%	37.646	N	118.912	W	8				10	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.9 (GM).
30	19	11	19.6%	43.453	N	88.850	E	33	N		1.2	10	NORTHERN XINJIANG, CHINA
30	20	06	36.5?	16.72	S	176.39	W	350	G		0.9	10	FIJI ISLANDS REGION
30	21	03	18.1*	43.958	N	147.206	E	33	N	4.1	1.1	27	KURIL ISLANDS
30	21	11	49.7*	17.805	S	178.449	W	500	G	4.2	1.0	18	FIJI ISLANDS REGION
30	21	13	00.8?	48.11	N	7.48	E	5	G		0.1	4	FRANCE. ML 1.8 (LDG).
30	21	24	15.9	50.234	N	7.852	E	10	G		1.3	57	GERMANY. ML 3.6 (STR), 3.6 (LDG), 3.2 (CLL), 3.1 (DBN), 3.1 (GRF), 3.0 (VIE).
30	21	28	23.3	50.218	N	7.972	E	10			0.9	16	GERMANY. ML 2.8 (LDG), 2.6 (STR), 2.5 (UCC), 2.2 (DBN).
30	21	31	18.9?	34.64	S	70.96	W	90	G		0.1	8	CHILE-ARGENTINA BORDER REGION
30	22	41	18.0	9.470	N	69.408	W	33	N	4.4	1.2	46	VENEZUELA
30	23	01	46.5%	16.999	N	99.901	W	10	G		1.5	6	NEAR COAST OF GUERRERO, MEXICO
30	23	30	47.8*	52.295	N	167.521	W	33	N	4.2	1.1	8	FOX ISLANDS, ALEUTIAN ISLANDS
30	23	49	38.2*	9.475	S	159.132	E	33	N		0.8	10	SOLOMON ISLANDS
31	00	58	36.0%	47.580	N	122.530	W	0				32	WASHINGTON. <SEA-P>. MD 2.4 (SEA).
31	01	12	02.3%	60.145	N	153.377	W	156		3.7		38	SOUTHERN ALASKA. <AEIC>.
31	01	29	59.4%	36.477	N	3.157	W	10	G		0.6	9	STRAIT OF GIBRALTAR. mbLg 2.8 (MDD).
31	02	09	15.2	30.379	S	179.033	E	550	G	4.5	0.9	28	KERMADEC ISLANDS REGION
31	02	10	28.1?	17.74	S	173.20	W	33	N	4.8	1.2	23	TONGA ISLANDS
31	03	24	05.1%	59.849	N	153.390	W	130				20	SOUTHERN ALASKA. <AEIC>.
31	04	16	53.3*	5.403	S	150.089	E	100	G	4.0	0.8	9	NEW BRITAIN REGION, P.N.G.
31	04	43	22.3*	5.838	S	75.364	W	50	G	4.1	0.6	10	NORTHERN PERU
31	04	52	28.1	16.370	S	69.761	W	196		4.4	1.2	35	PERU-BOLIVIA BORDER REGION
31	05	23	59.6*	35.783	N	140.869	E	33	N		0.4	5	NEAR EAST COAST OF HONSHU, JAPAN
31	06	14	43.3*	0.066	S	122.229	E	150	G	4.3	0.7	13	MINAHASSA PENINSULA, SULAWESI

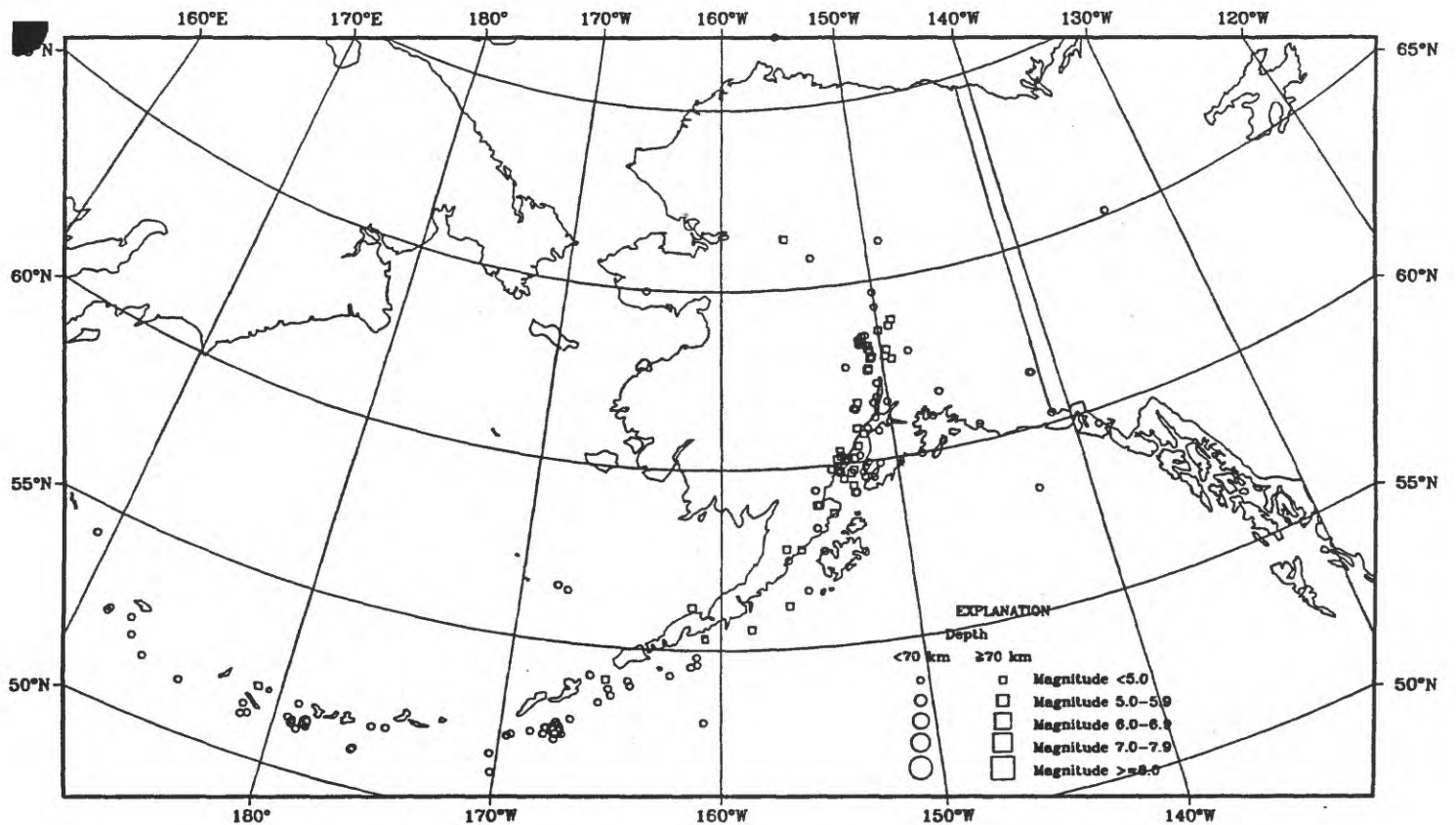
31	06	18	10.7*	17.841 S	178.200 W	600 G	4.1	0.9	20	FIJI ISLANDS REGION
31	06	48	50.2*	60.904 N	151.425 W	69			16	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.6 (AEIC).
31	07	00	23.0	35.104 N	33.792 E	33 N	4.2	1.0	34	CYPRUS REGION. ML 4.0 (JER).
31	07	15	29.7*	43.624 N	75.370 W	5 G		0.9	6	NEW YORK. mblg 3.2 (GS).
31	08	01	29.1*	32.394 N	115.182 W	6 G			16	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.1 (PAS). MD 3.5 (ECX). Felt in the epicentral area.
31	08	04	16.07	44.69 N	147.38 E	33 N		0.4	6	KURIL ISLANDS
31	08	13	32.3*	32.410 N	115.175 W	6 G			2	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 2.9 (PAS). MD 3.2 (ECX). Felt in the epicentral area.
31	08	57	04.8*	60.181 N	152.077 W	61			21	SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).
31	09	31	27.8	44.658 N	142.415 E	221 D	4.0	0.9	26	HOKKAIDO, JAPAN REGION
31	10	41	17.9	43.088 N	20.668 E	10 G		1.3	37	NORTHWESTERN BALKAN REGION
31	11	04	44.7*	32.395 N	115.172 W	6 G			15	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 2.9 (PAS).
31	11	41	02.9*	32.388 N	115.178 W	6 G			2	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.0 (PAS). MD 3.2 (ECX). Felt in the epicentral area.
31	11	43	25.2*	32.400 N	115.184 W	6 G			21	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.1 (PAS). MD 3.7 (ECX). Felt in the epicentral area.
31	12	24	35.4	28.738 N	140.726 E	112 *	4.1	0.9	19	BONIN ISLANDS REGION
31	12	25	57.3*	4.742 S	153.355 E	97 *	4.2	1.5	22	NEW IRELAND REGION, P.N.G.
31	14	07	45.7*	5.543 N	126.516 E	64 *	4.3	0.8	15	MINDANAO, PHILIPPINE ISLANDS
31	14	16	52.3*	3.743 S	146.341 E	33 N	4.0	1.1	10	BISMARCK SEA
31	14	35	22.1*	18.647 N	66.693 W	33 N		0.3	11	PUERTO RICO REGION. MD 4.0 (MPR). Felt in much of the western, northern and southern parts of Puerto Rico with maximum intensity IV.
31	15	17	21.4?	16.24 S	172.63 W	33 N	4.2	0.2	6	SAMOA ISLANDS REGION
31	15	23	36.8*	48.106 N	154.856 E	33 N	4.6	1.0	16	KURIL ISLANDS
31	15	25	13.5*	15.370 S	172.077 E	33 N	4.4	1.0	18	VANUATU ISLANDS REGION
31	15	57	14.3*	45.135 N	5.543 E	10 G		0.7	7	FRANCE. ML 2.2 (LDG).
31	15	59	37.0	23.887 N	93.159 E	33 N	5.5 4.8	0.9	250	MYANMAR-INDIA BORDER REGION. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 15:59:39.7; Lat 23.80 N; Lon 93.43 E; Dep 41.8; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=8.88, Plg=54, Azm=126; (N) Val=0.35, Plg=12, Azm=19; (P) Val=-9.24, Plg=34, Azm=280; Best double couple: Mo=9.1*10**16 Nm; NP1: Strike=330, Dip=16, Slip=40; NP2: Strike=201, Dip=80, Slip=103.
31	16	11	40.9	16.196 N	52.961 E	10 G	4.7	1.1	57	EASTERN ARABIAN PENINSULA
31	16	21	36.9?	3.04 N	103.71 W	10 G	3.7	1.0	7	EAST CENTRAL PACIFIC OCEAN
31	16	21	51.4?	39.07 S	71.24 W	100 G		0.5	6	S. CHILE-ARGENTINA BORDER REGION
31	16	26	45.6*	27.624 N	130.753 E	33 N		1.0	8	RYUKYU ISLANDS
31	18	03	09.7	32.000 S	64.552 W	33 N		1.0	18	CORDOBA PROVINCE, ARGENTINA. Felt (III) at Cordoba.
31	18	38	01.1?	23.56 S	179.93 E	550 G	4.1	1.0	11	SOUTH OF FIJI ISLANDS
31	20	08	58.0	23.856 N	93.101 E	33 N	4.5	0.7	40	MYANMAR-INDIA BORDER REGION
31	20	58	37.9*	46.632 N	6.982 E	10 G		1.2	8	SWITZERLAND. ML 3.3 (STR).
31	21	09	26.1	5.789 S	153.353 E	48 *	4.6	1.4	46	NEW IRELAND REGION, P.N.G.
31	21	54	21.5	6.637 S	130.917 E	59	5.9 5.3	0.9	342	BANDA SEA. Mw 6.0 (GS), 6.0 (HRV). Me 5.9 (GS). Broadband Source Parameters (GS): Radiated energy 1.8*10**13 Nm. Moment Tensor (GS): Dep 69; Principal axes (scale 10**18 Nm): (T) Val=0.87, Plg=59, Azm=276; (N) Val=0.32, Plg=30, Azm=109; (P) Val=-1.19, Plg=6, Azm=16; Best double couple: Mo=1.0*10**18 Nm; NP1: Strike=77, Dip=47, Slip=47; NP2: Strike=311, Dip=57, Slip=126. Centroid, Moment Tensor (HRV): Centroid origin time 21:54:27.7; Lat 6.54 S; Lon 131.10 E; Dep 82.4; Half-duration 2.5 sec; Principal axes (scale 10**18 Nm): (T) Val=0.96, Plg=67, Azm=270; (N) Val=0.33, Plg=21, Azm=115; (P) Val=-1.29, Plg=9, Azm=22; Best double couple: Mo=1.1*10**18 Nm; NP1: Strike=88, Dip=40, Slip=57; NP2: Strike=309, Dip=57, Slip=115.
31	22	19	48.0	26.422 N	141.824 E	64 *	4.6	0.8	21	BONIN ISLANDS REGION
31	22	37	16.8*	26.399 N	141.839 E	60 G	4.0	0.3	10	BONIN ISLANDS REGION
31	23	56	07.4*	38.756 N	122.723 W	3			15	NORTHERN CALIFORNIA. <GM-P>. MD 3.2 (GM). ML 3.2 (GS).

Compiled by Pamela J. Benfield, Don L. Blakeman, George L. Choy, Stuart K. Koyanagi, John H. Minsch, Waverly J. Person, Stuart A. Sipkin, William K. Smith and Madeleine D. Zirbes.

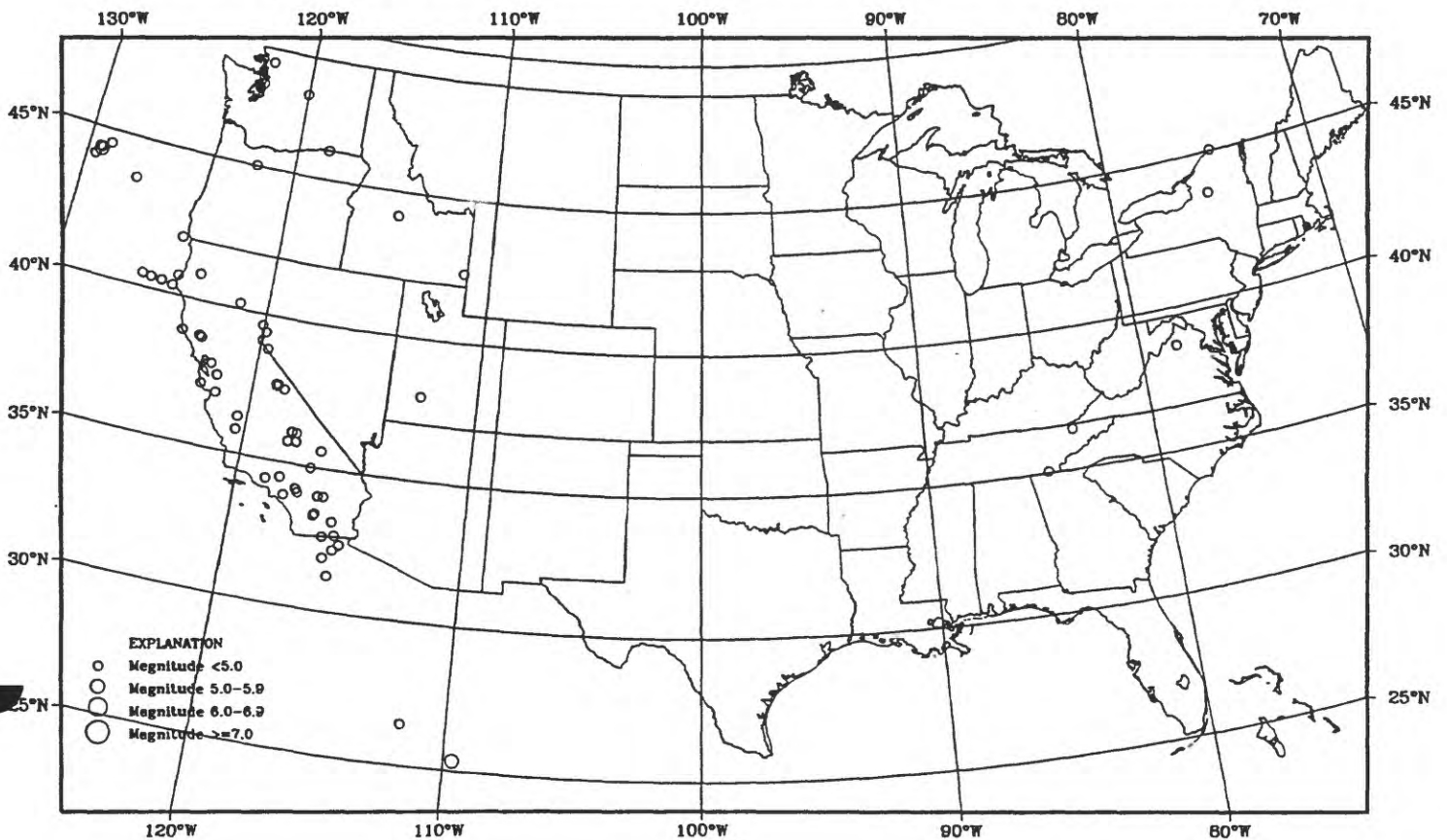
Earthquake Focal Mechanisms for July 1997



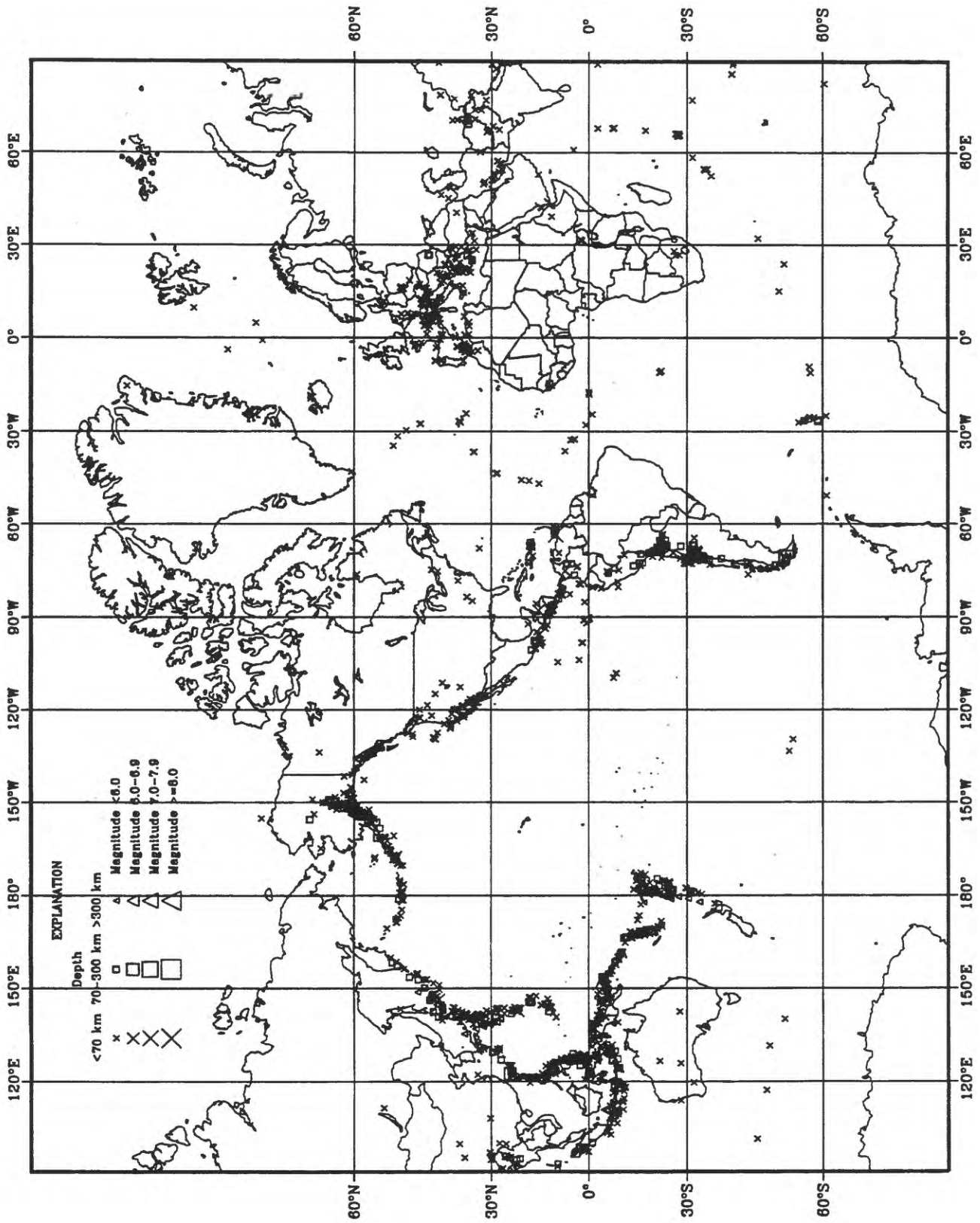
Earthquake epicenters in Alaska and adjacent regions for July 1997



Earthquake epicenters in the conterminous United States and adjacent regions for July 1997



Earthquakes located worldwide in July 1997



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). An "a" in this column indicates additional source parameters are published for this event in a separate section following the list of hypocenters.

Symbols and Abbreviations Used in Comments

- AEIC Alaska Earthquake Information Center (U.S. Geological Survey and University of Alaska), College.
 BGS British Geological Survey, Edinburgh, United Kingdom.
 BLA Virginia Polytechnic Institute and State University, Blacksburg.
 BRK University of California, Berkeley.
 BSE University of Boise, Idaho.
 BUT Montana Bureau of Mines and Geology, Butte.
 DOE U.S. Department of Energy (formerly AEC and ERDA).
 ECX Centro de Investigacion Cientifica y Educacion Superior de Ensenada, Ensenada, Baja California, Mexico.
 EXPLO Some or all parameters of explosion (controlled or accidental) supplied by any group or individual other than DOE or its predecessor organizations.
 GEN Dipartimento di Scienze della Terra, Genova, Italy.
 GII Geophysical Institute of Israel, Holon, Israel.
 GLD U.S. Geological Survey, Golden, Colorado (other than NEIS).
 GM U.S. Geological Survey, Menlo Park, California.
 GS U.S. Geological Survey, National Earthquake Information Service (NEIS), Golden, Colorado.
 GUC Instituto de Geofisica, Universidad de Chile, Santiago, Chile.
 HDC Observatorio Vulcanologico y Sismologico de Costa Rica, Universidad Nacional, Heredia, Costa Rica.
 HRV Harvard University, Cambridge, Massachusetts.
 HVO Hawaiian Volcano Observatory.
 ISK Kandilli Observatory, Bogazici University, Istanbul, Turkey.
 JMA Japan Meteorological Agency, Tokyo (also used to indicate 7-point Japanese Intensity Scale).
 LDG Laboratoire de Detection et de Geophysique, Bruyeres-le-Chatel, France.
 MACRO Hypocenter based upon macroseismic information.
 MD Duration magnitude (shown as DUR prior to 1986).
 MDD Instituto Geografico Nacional, Madrid, Spain.
 ME Energy Magnitude.
 MG Contributed local or regional magnitude of unspecified type (see "Contributed Magnitudes" below).
 MPR University of Puerto Rico, Mayaguez.
 MW Moment Magnitude.
 OTT Geological Survey of Canada, Earth Physics Branch, Ottawa.
 PAL Columbia University, Lamont-Doherty Geological Observatory, Palisades, New York.
 PAR Institute de Physique du Globe, Universite Pierre et Marie Curie, Paris, France.
 PAS California Institute of Technology, Pasadena.
 PGC Pacific Geoscience Centre, Sidney, British Columbia, Canada.
 PMR Alaska Tsunami Warning Center, Palmer.
 PPT Laboratoire de Geophysique, Papeete, French Polynesia.
 REN University of Nevada, Reno.
 RF Rossi-Forel Intensity Scale.
 ROM Istituto Nazionale di Geofisica, Roma, Italy.
 SEA University of Washington, Seattle.
 SLC University of Utah, Salt Lake City.
 SLM St. Louis University, Missouri.
 SNM New Mexico Institute Mining and Technology, Socorro.
 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.
 STR Institut de Physique du Globe de Strasbourg, Strasbourg, France.
 TEIC Center for Earthquake Research and Information, Memphis, Tennessee.
 TUL Oklahoma Geological Survey, Leonard.
 TVA Tennessee Valley Authority, Knoxville.
 UNM Universidad Nacional Autonoma de Mexico (UNAM), Distrito Federal, Mexico.
 USBR U. S. Bureau of Reclamation.
 UVC Universidad del Valle, Cali, Colombia.
 WES Weston Observatory, Massachusetts.
- Roman Numerals Used to indicate intensity (when not followed by RF or JMA they refer to the Modified Mercalli Scale or any 12-point intensity scale closely related to it).
- " Geographic degrees, minutes, seconds.
 -P Supplied hypocenter is a preliminary computation.

Any additional 3 to 5 letter codes enclosed in parentheses or angle brackets refer to individual station codes. These codes may be found at the U. S. Geological Survey, National Earthquake Information Center's web page (http://earthquake.usgs.gov/neis/station_book/station_book.html).

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 single network of stations for which the date and/or origin time cannot be confirmed from seismograms available to a NEIS analyst. The geometric mean of the semi-major and semi-minor axes of the horizontal 90% confidence ellipse is less than or equal to 16.0 km.
- * Indicates a less reliable solution. In general, the geometric mean of the semi-major and semi-minor axes of the horizontal 90% confidence ellipse is greater than 8.5 km and less than or equal to 16.0 km.
- ? Indicates a poor solution, published for completeness of the catalog. In general, the geometric mean of the semi-major and semi-minor axes of the horizontal 90% confidence ellipse is greater than 16.0 km. This includes a poor solution computed using data reported by a single network.

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

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

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

[†] Beginning 1993, Japan Meteorological Agency (JMA) intensities for earthquakes felt in Japan may be instrumentally determined.

TRAVEL-TIME TABLES

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

MACROSEISMIC INFORMATION

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

GEOGRAPHIC REGIONS

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

DEPTHS FROM BROADBAND DISPLACEMENT SEISMOGRAMS

The NEIS routinely interprets broadband data from the GDSN, USNSN and other global digital seismograph networks for events with $M_B \geq 5.8$. Records that are flat to displacement between approximately 0.01 and 5.0 Hz are obtained using methods described by Harvey and Choy (1982). The notation that a depth is obtained from broadband seismograms indicates that a depth was obtained by inversion of differential travel times that are clearly identifiable at several stations using methods described by Choy and Engdahl (1987). Depths of selected events may also be constrained by modelling broadband P and transversely polarized S waves using methods described by Choy and Dewey (1988).

Choy, G. L. and Dewey, J. W., 1988, Rupture process of an extended earthquake sequence: Teleseismic analysis of the Chilean earthquake of March 3, 1985: *Journal of Geophysical Research*, v. 93, p. 1103-1118.

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

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

BROADBAND FAULT PLANE SOLUTIONS

A fault plane solution is determined when possible for any earthquake having a magnitude ≥ 5.8 . Beginning January 1996, the fault plane solution is determined primarily from least-squares fitting of synthetic waveforms and broadband body waves that are flat to displacement between approximately 0.01 to 5.0 Hz. The fault plane solution derived from broadband data is sensitive to the dynamic or high frequency part of the earthquake. For complex earthquakes, the fault plane solution corresponds to the largest subevent unless otherwise stated. Prior to January 1996, fault plane solutions were constrained primarily by using first motions from P, pP and PKP waves. Polarities were also obtained by using broadband displacement records of surface-reflected body waves (e.g., pP and sP), Hilbert-transformed body waves of certain secondary arrivals (e.g., PP), and transversely polarized S waves.

FOCAL MECHANISM MAPS

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

NEIS MAGNITUDES

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

Mw These moment magnitudes are computed from the scalar moment of the moment tensor using the Kanamori (1977) formula:

$$M_w = (2/3) \log M_0 - 10.7$$

where M_0 is the scalar moment of the best double couple in dyne-cm. M_0 , computed from low frequency seismic data, is a measure of the area ruptured by an earthquake. Beginning with January, 1993, a moment magnitude is computed routinely from the USGS moment tensor and Harvard centroid moment tensor solutions.

Me These energy magnitudes are computed from the radiated energy using the Choy and Boatwright (1995) formula (eq. 6):

$$M_e = (2/3) \log E_s - 2.9$$

where E_s is the radiated seismic energy in Newton-meters. M_e , computed from high frequency seismic data, is a measure of seismic potential for damage. Beginning from July 1995, an energy magnitude is computed routinely from the USGS radiated energy.

Ms These surface wave magnitudes are computed from the IASPEI formula:

$$M_s = \log (A/T) + 1.66 \log D + 3.3$$

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 M_s magnitudes are not generally computed for depths greater than 50 km. The M_s 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 M_s value may still be published, computed by the IASPEI formula and not corrected for depth.

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

Prior to May 1975 (PDE 31-75), the M_s magnitude was computed from the resultant of the horizontal components of the surface wave.

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

$$MB = \log (A/T) + Q(D,h)$$

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 $D \geq 5^\circ$.

NOTE body wave periods and amplitudes contributed by the Prototype International Data Centre were used in the NEIS average MB computations from January 1, 1995 to August 19, 1996.

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

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

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

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:

$$ML = \log A - \log A_0$$

defined by Richter (1935) where A is the maximum trace amplitude in micrometers recorded on a standard short-period torsion seismometer and $\log A_0$ is a standard value as a function of distance where distance ≤ 600 km.

CONTRIBUTED MAGNITUDES

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

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

REFERENCES

- Choy, G. L., and Boatwright, J. L., 1995, Global patterns of radiated seismic energy and apparent stress: *Journal of Geophysical Research*, v. 100, p. 18205-18228.
- Gutenberg, B., and Richter, C. F., 1956, Magnitude and energy of earthquakes: *Annali di Geofisica*, v. 9, no. 1, p. 1-15.
- Kanamori, H., 1977, The energy release in great earthquakes: *Journal of Geophysical Research*, v. 82, p. 2981-2987.
- 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.

USGS RADIATED ENERGY

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

attenuation is corrected with the frequency-dependent t^* of Choy and Cormier (1986). The focal mechanism used is either the P-wave first-motion solution (F), the USGS moment tensor solution (M) or the Harvard centroid solution (C).

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

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

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

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

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

1. NUMBER OF STATIONS: Number of GDSN stations with distances between approximately 30 and 95 degrees found to have suitable P waveforms. Only 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: Scale factor for moment tensor elements and eigenvalues.
4. PRINCIPAL AXES)
) See "Centroid, Moment Tensor (HRV)"
5. BEST DOUBLE COUPLE)

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

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

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

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

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

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

Romanowicz, B. and Monfret, T., 1986, Source process times and depths of large earthquakes by moment tensor inversion of mantle wave data and the effect of lateral heterogeneity: *Annales de Geophysique*, v. B4, no. 3, p. 271-282.

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

These solutions have been determined using the long period body and mantle wave moment tensor inversion method described by Dziewonski, et.al. (1981) considering corrections due to an aspherical earth structure of model SH8/U4L8 (Dziewonski and Woodward, 1991).

1. DATA USED: currently GDSN, GSN and IDA/IRIS data are used. The numbers following the entries L.P.B. and M.W. indicate the number of stations (S) and total number of records (C) for the long-period body waves and mantle waves, respectively. Mantle waves are routinely used in inversion for sources with moments greater than 5×10^{18} Newton-meters (Nm).
2. CENTROID LOCATION: hypocentral parameters obtained by adding perturbations resulting from inversion to the parameters reported in the PDE; standard errors follow the individual entries. If a given parameter is not perturbed in inversion, this is indicated by the letters FIX. If the depth is fixed to be consistent with waveform matching of reconstructed broad-band body waves (Ekstrom, 1989), this is indicated by the letters BDY. The default depth for shallow earthquakes is increased to 15 km. in order to improve the stability of solutions; it was 10 km. in 1981-1985.
3. PRINCIPAL AXES: rotation of the moment tensor, constrained to have zero trace, 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.
4. BEST DOUBLE COUPLE: If the eigenvalue (T) is σ_1 and (P) is $-\sigma_2$, then the scalar seismic moment is defined as $M_0 = 1/2(\sigma_1 + \sigma_2)$. The strike, dip and slip of the first (NP1) and second (NP2) nodal planes are calculated from the directions of the P, T, and N axes. The remainder is a linear-vector dipole; 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 strike, dip, and slip angles 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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Aki, K. and Richards, P. G., Quantitative Seismology, Volume 1, W. H. Freeman, San Francisco, 1980, 557 pp.

Dziewonski, A. M., Chou, T. A., and Woodhouse, J. H., 1981, Determination of earthquake source parameters from Waveform data for studies of global and regional seismicity: *Journal of Geophysical Research*, v. 86, p. 2825-2852.

Dziewonski, A. M. and Woodward, R.L., 1991, Acoustic imaging at the planetary scale, in *Acoustical Imaging*, Vol. 19, E. Ermert and H.-P. Harjes, eds., Plenum Press (in press).

Ekstrom, G., 1989, A very broad band inversion method for the recovery of earthquake source parameters: *Tectonophysics*, v. 166, p. 73-100.

OTHER SEISMIC MOMENTS

1. The seismic moment (M_0) 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 (M_0) in dyne-cm is defined by $\log M_0 = 16.74 + 1.22 \log(CDA)$, 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 A is the epicentral distance in km. Seismic moments quoted in "Preliminary Determination of Epicenters" are converted to Newton-meters (1 Newton-meter = 10^{10} dyne-cm).

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

2. Beginning with November, 1988, seismic moments for selected events have been contributed by the Laboratoire de Geophysique, Papeete, French Polynesia (PPT). These moments are computed from mantle Rayleigh and Love waves using the method of Talandier, Reymond and Okal (1987 and 1990).

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

Okal, E.A., and Talandier, J. 1990, Mm: Extension to Love Waves of the Concept of a Variable-Period Mantle Magnitude: *Pure and Applied Geophysics*, v. 134, p. 355-384.

Preliminary Determination of Epicenters

Monthly Listing

National Earthquake Information Center

AUGUST 1997

ORIGIN TIME				GEOGRAPHIC		DEPTH		MAGNITUDE	SD	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS		
UTC				COORDINATES				GS		NO.		
DAY	HR	MN	SEC	LAT	LONG			MB	MsZ	STA		
											USED	
01	02	07	49.7*	18.184 N	67.028 W	33 N				0.1	5	MONA PASSAGE. MD 2.4 (MPR).
01	02	17	26.9	27.943 S	26.583 E	10 G	4.8			0.8	56	REPUBLIC OF SOUTH AFRICA
01	02	41	09.0	1.237 N	123.804 E	55 *	4.8			1.1	25	MINAHASSA PENINSULA, SULAWESI
01	02	49	23.8	46.235 N	142.897 E	350 G	4.2			0.8	74	SAKHALIN ISLAND
01	03	33	06.2*	19.374 N	145.564 E	183 ?	4.2			0.7	11	MARIANA ISLANDS
01	03	34	41.1*	45.325 N	6.786 E	5 G				0.1	5	FRANCE. ML 1.7 (LDG).
01	05	32	45.7?	43.83 N	146.06 E	33 N				0.9	8	KURIL ISLANDS
01	05	37	07.5?	34.42 S	70.43 W	5 G				0.3	8	CHILE-ARGENTINA BORDER REGION
01	05	41	26.9*	5.781 S	153.521 E	33 D	4.5			1.4	28	NEW IRELAND REGION, P.N.G.
01	06	36	38.4*	2.564 N	99.300 E	200 G	4.5			0.9	25	NORTHERN SUMATERA, INDONESIA
01	07	20	23.4*	31.645 S	178.946 E	550 G	4.8			1.1	27	KERMADEC ISLANDS REGION
01	08	14	01.6	1.481 N	127.175 E	155 *	5.0			1.2	56	HALMAHERA, INDONESIA
01	08	32	46.6*	58.892 N	152.772 W	62					41	KODIAK ISLAND REGION. <AEIC>. ML 3.7 (AEIC), 4.2 (PMR).
01	10	36	49.5*	9.211 S	119.399 E	93 *	4.0			1.3	11	SUMBA REGION, INDONESIA
01	11	40	56.2*	44.356 N	7.298 E	10 G				0.7	7	NORTHERN ITALY
01	12	05	26.4*	58.955 N	153.266 W	72					27	KODIAK ISLAND REGION. <AEIC>.
01	12	55	03.0*	47.297 N	123.755 W	0					57	WASHINGTON. <SEA-P>. MD 3.3 (SEA). Felt.
01	13	25	08.5	44.611 N	7.291 E	5 G				0.6	19	NORTHERN ITALY. ML 2.0 (LDG).
01	13	51	20.4*	61.654 N	149.602 W	39					97	SOUTHERN ALASKA. <AEIC>. ML 3.2 (AEIC), 3.5 (PMR). Felt (III) at Eagle River, Palmer and Willow.
01	14	12	16.1	23.509 S	179.868 E	600 G	4.6			0.8	40	SOUTH OF FIJI ISLANDS
01	14	38	42.0*	37.633 N	118.857 W	5					11	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.9 (GM). ML 2.9 (GS).
01	15	21	37.0	5.066 S	105.086 E	148	4.8			1.0	136	SUNDA STRAIT
01	16	46	47.0*	12.317 N	143.699 E	39 ?	4.3			1.3	23	SOUTH OF MARIANA ISLANDS
01	17	29	18.5*	63.492 N	150.833 W	14					27	CENTRAL ALASKA. <AEIC>. ML 2.5 (AEIC).
01	17	30	37.3?	20.28 S	178.84 W	550 G	3.9			0.5	11	FIJI ISLANDS REGION
01	17	35	04.0?	21.04 S	169.82 E	119 ?	3.8			1.2	12	LOYALTY ISLANDS REGION
01	17	40	11.7	7.833 S	118.932 E	33 N	4.8			1.1	22	FLORES SEA
01	20	07	21.3	28.898 N	52.615 E	33 N	4.3			0.6	37	SOUTHERN IRAN. Felt at Firuzabad.
01	20	16	48.3*	39.358 N	122.871 W	15					16	NORTHERN CALIFORNIA. <GM-P>. MD 3.3 (GM). ML 3.2 (BRK), 3.2 (GS).
01	20	54	38.5?	20.35 S	169.11 E	106 D	4.3			1.5	12	VANUATU ISLANDS
01	20	58	35.3	46.597 N	7.139 E	5 G				1.2	62	SWITZERLAND. ML 3.2 (GRF), 3.2 (LDG), 3.1 (VIE).
01	21	30	41.5*	47.026 N	153.485 E	33 N				1.2	12	KURIL ISLANDS
01	22	44	47.1*	58.778 N	155.124 W	132					36	ALASKA PENINSULA. <AEIC>.
01	22	45	49.0*	52.432 N	170.592 W	77 *				1.1	13	FOX ISLANDS, ALEUTIAN ISLANDS
01	23	09	32.5*	49.606 S	164.035 E	10 G	4.6			1.2	22	AUCKLAND ISLANDS REGION
01	23	21	34.5*	5.405 S	147.711 E	150 G	4.8			0.6	10	EASTERN NEW GUINEA REG., P.N.G.
02	00	09	08.4*	37.638 N	118.955 W	8					13	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.0 (GM). ML 3.0 (GS).
02	00	11	52.1	31.616 S	71.503 W	40 G				0.8	14	NEAR COAST OF CENTRAL CHILE. Felt (II) at Illapel, La Ligua, Quintero, Salamanca, San Felipe, Santa Maria and Vina del Mar.
02	00	13	17.0*	37.638 N	118.957 W	8					9	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.0 (GM). ML 3.0 (GS).
02	01	22	00.4*	32.854 N	139.201 E	250 G	3.9			1.4	16	SOUTH OF HONSHU, JAPAN
02	01	53	14.0*	38.168 N	138.604 E	33 N				0.7	6	NEAR WEST COAST OF HONSHU, JAPAN
02	01	58	56.7*	61.499 N	152.061 W	9					26	SOUTHERN ALASKA. <AEIC>. ML 3.2 (AEIC), 3.3 (PMR).
02	02	28	12.4*	31.780 S	68.887 W	10 G				0.8	9	SAN JUAN PROVINCE, ARGENTINA
02	02	37	07.7*	54.773 N	160.621 W	15					13	ALASKA PENINSULA. <AEIC>. ML 3.1 (AEIC).
02	03	23	19.9	51.603 N	16.533 E	5 G				1.0	10	POLAND. ML 3.0 (VIE).
02	03	33	54.6*	61.528 N	152.080 W	4					15	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).
02	04	33	42.8*	11.418 N	60.786 W	33 N	4.0			1.1	10	WINDWARD ISLANDS
02	04	35	17.6*	34.027 N	117.233 W	14					26	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.7 (PAS). Felt.
02	04	49	24.6	46.104 N	13.804 E	10 G				0.8	12	AUSTRIA. ML 2.6 (VIE), 2.4 (LJU). Felt (V) at Kanal, Slovenia.
02	05	03	16.9*	63.509 N	151.264 W	10					22	CENTRAL ALASKA. <AEIC>. ML 3.2 (AEIC), 3.6 (PMR).
02	06	10	35.6	30.657 S	72.122 W	5 G	4.2			1.2	25	OFF COAST OF CENTRAL CHILE
02	07	02	59.9*	17.245 N	122.675 E	33 N	4.3			0.5	13	LUZON, PHILIPPINE ISLANDS
02	10	18	28.7*	63.104 N	150.870 W	131					16	CENTRAL ALASKA. <AEIC>.

02 10 48 30.7 14.538 N 91.546 W 83 D 4.4	1.1 93	GUATEMALA
02 11 24 51.57 34.43 S 70.43 W 10 G	0.4 7	CHILE-ARGENTINA BORDER REGION
02 12 02 36.86 37.640 N 118.953 W 8	10	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.8 (GM). ML 2.8 (GS).
02 15 10 24.2 44.552 N 6.859 E 10 G	0.6 21	FRANCE. ML 2.1 (LDG).
02 15 13 50.26 58.997 N 152.786 W 66	22	KODIAK ISLAND REGION. <AEIC>. ML 3.0 (AEIC).
02 16 04 27.97 17.01 S 177.22 W 33 N 4.4	1.2 15	FIJI ISLANDS REGION
02 16 46 55.9* 18.188 S 167.460 E 33 N 4.4	1.2 24	VANUATU ISLANDS
02 17 04 33.8* 6.507 S 129.012 E 300 G 4.5	1.2 18	BANDA SEA
02 17 30 10.1* 55.019 N 162.113 E 100 G	1.1 11	NEAR EAST COAST OF KAMCHATKA
02 18 12 34.5* 18.469 N 94.537 E 49 D	0.5 8	MYANMAR
02 18 19 12.2* 50.874 N 6.595 E 20 G	1.0 8	GERMANY. ML 2.8 (LDG), 2.1 (UCC). Felt (II) near Roermond, Netherlands.
02 19 35 59.2* 48.116 N 152.891 E 136 D 4.3	1.2 15	KURIL ISLANDS
02 21 21 58.27 15.33 S 177.81 W 300 G 4.1	0.5 17	FIJI ISLANDS REGION
02 22 28 34.26 22.889 N 92.776 E 33 N	0.6 7	INDIA-BANGLADESH BORDER REGION
02 23 54 57.56 33.412 S 70.797 W 80 G	0.6 7	CHILE-ARGENTINA BORDER REGION
03 01 10 42.56 44.245 N 7.686 E 10 G	0.3 9	NORTHERN ITALY
03 01 51 14.4 38.279 N 23.166 E 26 * 3.8	1.4 72	GREECE. ML 4.1 (ROM).
03 01 54 24.4* 0.644 S 135.947 E 33 N 4.6	1.0 10	IRIAN JAYA REGION, INDONESIA
03 02 10 51.16 59.324 N 153.183 W 87	27	SOUTHERN ALASKA. <AEIC>.
03 02 28 24.1* 9.285 S 122.650 E 33 N	0.8 5	SAVU SEA
03 03 12 00.3* 44.263 N 7.367 E 10 G	0.4 6	NORTHERN ITALY. ML 1.4 (LDG).
03 03 39 25.2 37.432 N 20.879 E 38 * 4.0	1.1 35	IONIAN SEA. ML 3.7 (ROM).
03 04 28 19.2* 51.898 N 177.389 W 33 N	1.0 9	ANDREANOF ISLANDS, ALEUTIAN IS.
03 04 47 39.6* 20.034 S 178.551 W 600 G 3.6	0.9 13	FIJI ISLANDS REGION
03 05 04 41.1* 0.128 N 93.544 E 33 N	0.4 7	OFF W COAST OF NORTHERN SUMATERA
03 05 05 49.5 44.931 N 6.658 E 10 G	1.3 19	FRANCE. ML 2.1 (LDG).
03 05 08 50.5 44.921 N 6.625 E 10 G	0.7 12	FRANCE. ML 1.5 (LDG).
03 05 27 11.76 59.794 N 152.233 W 69	33	SOUTHERN ALASKA. <AEIC>. ML 2.9 (AEIC).
03 05 49 33.37 0.50 S 135.26 E 33 N	1.4 8	IRIAN JAYA REGION, INDONESIA
03 06 26 17.46 36.639 N 70.957 E 100 G	1.2 11	HINDU KUSH REGION, AFGHANISTAN
03 06 37 39.5 41.355 N 19.876 E 60 3.4	1.1 91	ALBANIA
03 06 40 22.0* 5.642 S 146.505 E 150 G 4.7	1.1 21	EASTERN NEW GUINEA REG., P.N.G.
03 07 15 26.47 45.66 N 27.73 E 33 N	1.2 6	ROMANIA
03 07 16 09.27 0.47 N 85.54 W 10 G	0.9 7	OFF COAST OF ECUADOR
03 08 12 24.2 43.028 N 0.450 W 10 G	1.3 10	PYRENEES. ML 2.4 (LDG), 2.0 (STR).
03 08 20 50.2* 37.911 N 16.723 E 75 * 3.4	1.1 23	IONIAN SEA. MD 3.1 (ROM).
03 08 51 11.66 39.123 N 0.776 W 10 G	1.6 5	SPAIN. mbLg 2.7 (MDD).
03 08 59 48.17 32.31 S 71.21 W 50 G	0.4 9	NEAR COAST OF CENTRAL CHILE
03 10 02 13.1* 9.487 N 85.352 W 33 N 4.5	1.0 14	OFF COAST OF COSTA RICA
03 10 26 26.0 44.924 N 6.625 E 10 G	1.1 49	FRANCE. ML 2.7 (LDG), 2.7 (STR).
03 11 55 37.0 59.352 N 145.407 W 10 G	0.6 19	GULF OF ALASKA. ML 2.5 (AEIC).
03 12 39 35.46 36.823 N 3.391 W 10 G	0.8 8	STRAIT OF GIBRALTAR. mbLg 2.9 (MDD).
03 13 15 08.37 1.00 N 126.30 E 33 N 4.4	1.4 12	NORTHERN MOLUCCA SEA
03 13 35 15.9* 31.351 N 122.181 E 10 G	1.2 12	OFF COAST OF EASTERN CHINA
03 13 36 25.57 3.61 S 151.90 E 33 N 4.0	0.5 7	NEW IRELAND REGION, P.N.G.
03 15 35 01.7* 13.377 N 120.573 E 50 D 4.3	0.9 24	MINDORO, PHILIPPINE ISLANDS
03 15 50 53.96 39.021 N 123.066 W 4	10	NEAR COAST OF NORTHERN CALIF. <GM-P>. MD 2.8 (GM). ML 3.0 (GS).
03 16 35 53.5* 1.995 N 122.691 E 100 G 4.4	0.9 9	MINAHASSA PENINSULA, SULAWESI
03 17 16 53.4* 19.798 N 109.324 W 33 N 4.1	1.1 30	REVILLA GIGEDO ISLANDS REGION
03 17 49 09.5 44.948 N 9.874 E 10 G	1.5 24	NORTHERN ITALY. ML 2.5 (VIE), 2.4 (LDG).
03 18 09 35.2 44.473 N 7.361 E 10 G	0.9 17	NORTHERN ITALY. ML 2.0 (LDG).
03 18 14 02.27 45.82 N 15.03 E 10 G	0.8 5	NORTHWESTERN BALKAN REGION
03 18 26 51.86 60.704 N 151.890 W 102	107	KENAI PENINSULA, ALASKA. <AEIC>.
03 18 31 02.96 59.102 N 152.019 W 55	45	SOUTHERN ALASKA. <AEIC>. ML 3.3 (AEIC), 3.4 (PMR).
03 19 04 52.96 60.753 N 150.484 W 38	28	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.5 (AEIC).
03 19 09 07.9 0.557 S 135.797 E 33 N 5.0 5.3	1.4 63	IRIAN JAYA REGION, INDONESIA. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 19:09:09.4; Lat 0.73 S; Lon 135.65 E; Dep 29.8; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=7.53, Plg=67, Azm=211; (N) Val=0.06, Plg=1, Azm=118; (P) Val=-7.59, Plg=23, Azm=28; Best double couple: Mo=7.6*10**16 Nm; NP1: Strike=115, Dip=22, Slip=87; NP2: Strike=299, Dip=68, Slip=91.
03 19 33 40.66 62.438 N 142.611 W 20	31	CENTRAL ALASKA. <AEIC>. ML 2.8 (AEIC).
03 20 05 13.07 5.79 N 126.67 E 33 N 4.4	1.4 14	MINDANAO, PHILIPPINE ISLANDS
03 20 30 07.97 22.18 S 170.13 E 33 N	1.1 10	LOYALTY ISLANDS REGION
03 20 38 24.1* 44.665 N 147.453 E 100 G 4.1	0.8 10	KURIL ISLANDS
03 20 40 57.56 34.374 S 70.473 W 10 G	0.4 9	CHILE-ARGENTINA BORDER REGION
03 20 44 05.57 3.06 N 127.51 E 100 G 4.1	0.5 6	TALAUD ISLANDS, INDONESIA
03 21 27 15.47 16.38 N 97.71 W 33 N 4.1	1.5 14	OAXACA, MEXICO
03 22 18 55.5* 46.206 N 7.013 E 10 G	1.5 6	SWITZERLAND. ML 1.9 (LDG).
03 22 50 50.37 34.78 S 70.25 W 150 G	0.1 9	CHILE-ARGENTINA BORDER REGION
03 23 02 17.0* 3.555 S 127.426 E 33 N 4.7	1.3 16	SERAM, INDONESIA
04 00 32 59.6* 65.123 S 177.054 E 33 N 4.6 4.4	1.1 20	BALLENY ISLANDS REGION
04 00 42 45.57 14.15 S 170.63 E 500 G 4.4	1.4 23	VANUATU ISLANDS REGION
04 01 36 16.2 8.392 S 118.004 E 33 N 4.5	0.9 15	SUMBAWA REGION, INDONESIA
04 01 41 50.9 27.810 S 66.837 W 150 G	1.1 19	CATAMARCA PROVINCE, ARGENTINA
04 02 57 20.4* 2.899 S 139.169 E 33 N 3.6	0.7 10	NEAR NORTH COAST OF IRIAN JAYA
04 03 10 01.96 61.517 N 150.018 W 47	18	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).
04 04 18 10.4* 25.088 S 13.575 W 10 G 4.7 4.3	1.2 27	SOUTHERN MID-ATLANTIC RIDGE
04 04 33 35.37 34.44 S 70.42 W 5 G	0.7 9	CHILE-ARGENTINA BORDER REGION. MD 3.7 (SAN).
04 04 45 32.96 36.413 N 3.247 W 5 G	0.6 5	STRAIT OF GIBRALTAR. mbLg 2.8 (MDD).
04 05 03 17.5* 11.278 S 117.553 E 33 N 3.7	1.0 5	SOUTH OF SUMBAWA, INDONESIA
04 06 03 36.5* 13.409 S 76.731 W 33 N	1.1 7	NEAR COAST OF PERU
04 06 07 03.76 33.568 S 70.682 W 10 G	0.6 9	CHILE-ARGENTINA BORDER REGION
04 06 12 08.8* 8.052 S 119.782 E 200 G 4.1	0.9 11	FLORES REGION, INDONESIA
04 07 03 23.76 34.201 N 118.565 W 17	28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS). Felt in the Reseda area.
04 07 06 54.3 6.261 S 130.143 E 110 5.5	0.9 144	BANDA SEA. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time

07:07:00.3; Lat 6.10 S; Lon 130.36 E; Dep 129.6; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=-1.15, Plg=48, Azm=282; (N) Val=0.10, Plg=41, Azm=86; (P) Val=-1.26, Plg=8, Azm=183; Best double couple: Mo=1.2*10**17 Nm; NP1: Strike=309, Dip=52, Slip=146; NP2: Strike=62, Dip=64, Slip=43.

04 07 42 39.7* 2.988 S 155.340 E 33 N 3.6 0.4 9 NORTH OF SOLOMON ISLANDS

04 08 54 26.5? 4.91 N 124.95 E 33 N 4.0 0.5 9 CELEBES SEA

04 09 03 25.6? 9.07 S 107.33 E 33 N 4.1 1.5 7 SOUTH OF JAWA, INDONESIA

04 09 04 58.9* 42.790 S 16.117 W 10 G 4.9 5.1 1.2 31 SOUTHERN MID-ATLANTIC RIDGE. Mw 5.6 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 09:05:06.4; Lat 42.98 S; Lon 16.02 W; Dep 15.0 Fix; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=-2.16, Plg=20, Azm=71; (N) Val=0.42, Plg=2, Azm=340; (P) Val=-2.58, Plg=70, Azm=243; Best double couple: Mo=2.4*10**17 Nm; NP1: Strike=165, Dip=25, Slip=-84; NP2: Strike=339, Dip=65, Slip=-93.

04 09 21 48.2 4.428 S 129.307 E 33 N 4.7 1.2 34 BANDA SEA

04 10 27 27.76 37.521 N 118.479 W 13 10 CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.1 (GM). ML 3.0 (GS).

04 10 54 17.6 12.103 N 143.885 E 33 N 4.4 1.2 36 SOUTH OF MARIANA ISLANDS

04 11 00 26.3 46.384 N 12.703 E 5 G 0.8 16 NORTHERN ITALY. ML 3.0 (GRF), 2.9 (VIE).

04 11 29 46.7* 33.209 N 35.700 E 10 G 0.4 10 JORDAN - SYRIA REGION. ML 4.0 (JER).

04 11 41 29.2* 14.151 N 120.784 E 139 D 4.0 0.9 14 LUZON, PHILIPPINE ISLANDS

04 12 26 26.8* 43.591 N 3.876 E 5 G 0.8 6 NEAR SOUTH COAST OF FRANCE. ML 2.6 (LDG).

04 12 59 36.2* 24.098 N 121.325 E 33 N 4.3 1.2 15 TAIWAN

04 13 03 53.3* 36.250 N 139.980 E 86 1.3 11 EASTERN HONSHU, JAPAN

04 14 00 36.2? 36.64 N 3.03 W 10 G 0.7 6 STRAIT OF GIBRALTAR. mbLg 3.0 (MDD).

04 14 23 35.7* 32.388 N 5.741 W 10 G 4.1 1.2 21 MOROCCO

04 14 56 34.3* 51.833 N 142.516 E 10 G 4.6 1.1 21 SAKHALIN ISLAND

04 14 58 58.3? 62.50 S 154.70 E 10 G 4.1 1.5 10 BALLENY ISLANDS REGION

04 16 48 38.7? 3.02 S 129.84 E 33 N 4.0 0.4 5 SERAM, INDONESIA

04 17 18 22.6 44.165 N 149.550 E 33 N 4.6 0.9 25 KURIL ISLANDS

04 18 17 22.7* 44.844 N 146.310 E 200 G 1.3 12 KURIL ISLANDS

04 18 53 58.9 15.160 S 175.273 W 33 N 5.5 6.0 0.9 160 TONGA ISLANDS. Mw 6.1 (HRV), 6.0 (GS). Moment Tensor (GS): Dep 14; Principal axes (scale 10**18 Nm): (T) Val=-1.24, Plg=10, Azm=330; (N) Val=-0.11, Plg=74, Azm=201; (P) Val=-1.13, Plg=12, Azm=62; Best double couple: Mo=1.2*10**18 Nm; NP1: Strike=106, Dip=74, Slip=-1; NP2: Strike=196, Dip=89, Slip=-164. Centroid, Moment Tensor (HRV): Centroid origin time 18:54:02.9; Lat 15.03 S; Lon 175.10 W; Dep 15.0 Bdy; Half-duration 2.6 sec; Principal axes (scale 10**18 Nm): (T) Val=-1.50, Plg=7, Azm=147; (N) Val=-0.04, Plg=76, Azm=26; (P) Val=-1.46, Plg=12, Azm=239; Best double couple: Mo=1.5*10**18 Nm; NP1: Strike=283, Dip=77, Slip=-3; NP2: Strike=13, Dip=87, Slip=-167.

04 19 05 29.5* 45.039 N 7.280 E 5 G 0.8 7 NORTHERN ITALY. ML 2.1 (LDG).

04 19 09 58.3* 56.157 S 27.015 W 200 G 4.0 0.3 9 SOUTH SANDWICH ISLANDS REGION

04 19 21 31.8 15.212 S 175.434 W 33 N 4.9 0.9 81 TONGA ISLANDS. Mw 6.0 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 19:21:35.1; Lat 15.26 S; Lon 175.05 W; Dep 15.0 Fix; Half-duration 2.4 sec; Principal axes (scale 10**18 Nm): (T) Val=-1.07, Plg=3, Azm=149; (N) Val=0.02, Plg=63, Azm=54; (P) Val=-1.09, Plg=27, Azm=240; Best double couple: Mo=1.1*10**18 Nm; NP1: Strike=281, Dip=70, Slip=-18; NP2: Strike=18, Dip=73, Slip=-159.

04 19 39 06.6? 14.75 S 175.73 W 33 N 0.3 6 SAMOA ISLANDS REGION

04 20 02 49.2 34.161 N 25.851 E 33 N 1.0 22 CRETE

04 20 35 19.9* 55.943 S 27.463 W 33 N 5.1 0.9 25 SOUTH SANDWICH ISLANDS REGION

04 20 53 42.6* 36.598 N 26.804 E 150 G 4.0 1.1 30 DODECANESE ISLANDS

04 21 25 03.4* 33.152 S 70.308 W 5 G 0.3 8 CHILE-ARGENTINA BORDER REGION

04 21 35 57.9? 7.74 S 130.46 E 33 N 4.3 1.3 6 TANIMBAR ISLANDS REG., INDONESIA

04 21 51 14.5? 14.38 N 93.95 W 33 N 4.2 1.2 9 NEAR COAST OF CHIAPAS, MEXICO

04 22 13 07.6* 46.905 N 117.435 W 5 21 WASHINGTON. <SEA-P>. MD 2.7 (SEA).

04 22 31 36.3 28.229 N 91.445 E 33 N 4.5 0.8 35 XIZANG

04 22 38 17.7* 11.019 N 60.943 W 10 G 0.7 6 WINDWARD ISLANDS

04 22 40 54.3 35.363 S 179.557 E 100 G 4.9 0.9 44 OFF E. COAST OF N. ISLAND, N.Z. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 22:40:57.8; Lat 35.10 S; Lon 179.47 E; Dep 104.8; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=-1.03, Plg=30, Azm=270; (N) Val=-0.27, Plg=10, Azm=6; (P) Val=-0.76, Plg=58, Azm=112; Best double couple: Mo=8.9*10**16 Nm; NP1: Strike=332, Dip=18, Slip=-125; NP2: Strike=188, Dip=76, Slip=-80.

04 23 09 16.7* 11.008 S 118.546 E 33 N 4.2 1.1 7 SOUTH OF SUMBAWA, INDONESIA

04 23 44 31.0 50.419 N 19.070 E 5 G 1.0 7 POLAND. MG 2.7 (WAR).

04 23 51 32.5* 44.087 N 6.965 E 5 G 0.7 11 FRANCE. ML 2.1 (LDG).

05 00 04 11.6* 44.922 N 6.611 E 5 G 0.7 7 FRANCE. ML 1.6 (LDG).

05 00 35 06.8? 14.27 N 92.64 W 33 N 4.1 1.0 24 NEAR COAST OF CHIAPAS, MEXICO

05 01 08 54.9* 44.497 N 7.224 E 5 G 0.4 8 NORTHERN ITALY. ML 1.7 (LDG).

05 01 14 06.0? 53.57 N 157.06 E 33 N 4.1 1.2 9 KAMCHATKA

05 01 22 30.7? 32.07 S 178.92 W 33 N 4.8 1.2 11 SOUTH OF KERMADEC ISLANDS

05 01 36 46.0* 32.975 S 70.221 W 110 G 0.3 9 CHILE-ARGENTINA BORDER REGION. MD 2.5 (SAN).

05 02 03 14.5* 44.909 N 6.577 E 5 G 0.6 6 FRANCE. ML 1.4 (LDG).

05 02 48 43.4 28.397 N 43.766 W 10 G 5.2 5.2 1.0 203 NORTHERN MID-ATLANTIC RIDGE. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 02:48:50.1; Lat 28.57 N; Lon 43.41 W; Dep 15.0 Fix; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=-1.94, Plg=9, Azm=283; (N) Val=-0.05, Plg=6, Azm=14; (P) Val=-1.89, Plg=79, Azm=138; Best double couple: Mo=1.9*10**17 Nm; NP1: Strike=6, Dip=36, Slip=-100; NP2: Strike=199, Dip=55, Slip=-82.

05	03	20	14.5	30.960	N	131.473	E	33	N	4.2	1.0	15	KYUSHU, JAPAN
05	03	30	23.5*	18.153	S	177.824	W	600	G	4.6	1.1	26	FIJI ISLANDS REGION
05	03	33	59.3*	13.782	N	91.159	W	100	G	4.0	1.2	29	NEAR COAST OF GUATEMALA
05	04	16	47.5*	44.878	N	6.684	E	5	G		1.2	6	FRANCE. ML 1.6 (LDG).
05	06	20	35.7*	8.827	S	120.291	E	33	N		1.3	6	FLORES REGION, INDONESIA
05	07	09	03.77	56.14	S	130.23	W	10	G	4.4	0.7	8	PACIFIC-ANTARCTIC RIDGE
05	07	22	21.4*	5.065	S	133.299	E	33	N	4.4	0.8	5	ARU ISLANDS REGION, INDONESIA
05	07	22	25.16	61.488	N	152.009	W	6				64	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC), 2.9 (PMR).
05	08	13	19.1*	21.062	S	176.447	W	224	D	4.2	1.0	17	FIJI ISLANDS REGION
05	08	19	10.4*	33.373	S	71.338	W	60	G		0.2	10	NEAR COAST OF CENTRAL CHILE. MD 2.6 (SAN).
05	08	39	20.9	0.149	S	125.370	E	33	N	4.5	0.9	11	SOUTHERN MOLUCCA SEA
05	08	41	26.4*	22.955	N	121.422	E	150	G	4.1	1.0	15	TAIWAN REGION
05	08	48	46.3*	2.932	S	139.055	E	33	N		1.0	6	NEAR NORTH COAST OF IRIAN JAYA
05	10	45	13.97	5.70	S	135.39	E	33	N	3.9	1.4	9	IRIAN JAYA REGION, INDONESIA
05	11	09	46.7	20.690	S	178.933	W	620	D	4.8	0.8	122	FIJI ISLANDS REGION
05	12	43	30.37	16.26	N	94.33	W	33	N	3.6	1.4	7	OAXACA, MEXICO
05	13	25	55.1*	34.723	N	24.080	E	100	G		1.3	12	CRETE
05	14	07	17.17	1.07	N	120.05	E	33	N	4.0	0.6	8	MINAHASSA PENINSULA, SULAWESI
05	14	29	38.3*	7.168	S	106.837	E	90		4.1	1.3	19	JAWA, INDONESIA
05	14	46	39.0	9.393	N	126.407	E	33	N	4.9	1.1	57	MINDANAO, PHILIPPINE ISLANDS
05	15	57	30.67	7.36	S	154.22	E	33	N	3.4	0.4	6	SOLOMON ISLANDS
05	15	59	04.0*	23.200	N	90.979	E	33	N	4.1	1.3	16	BANGLADESH
05	17	15	22.27	44.71	N	6.76	E	10	G		0.6	4	FRANCE. ML 1.5 (LDG).
05	17	25	29.3*	38.553	N	21.635	E	33	N	3.7	1.4	16	GREECE
05	18	17	12.87	19.12	N	66.78	W	10	G		0.3	5	PUERTO RICO REGION. MD 3.1 (MPR).
05	18	24	03.0*	33.720	S	70.873	W	70	G		0.2	9	CHILE-ARGENTINA BORDER REGION. MD 2.7 (SAN).
05	18	31	36.4*	29.469	N	139.528	E	411	*	3.6	0.4	12	SOUTH OF HONSHU, JAPAN
05	20	28	24.9*	56.756	N	155.116	W	15				11	ALASKA PENINSULA. <AEIC>. ML 3.0 (AEIC).
05	20	41	49.1*	9.788	S	119.122	E	33	N		1.0	7	SUMBA REGION, INDONESIA
05	20	43	25.77	55.85	S	26.71	W	33	N	4.3	0.6	7	SOUTH SANDWICH ISLANDS REGION
05	20	45	27.2	21.310	S	174.288	W	33	N	4.9 4.9	1.2	87	TONGA ISLANDS. Mw 5.4 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time													
20:45:30.1; Lat 21.31 S Fix; Lon 174.29 W Fix; Dep 15.0													
Fix; Half-duration 1.0 sec; Principal axes (scale 10**17													
Nm): (T) Val=1.25, Plg=50; Azm=266; (N) Val=0.04, Plg=1,													
Azm=358; (P) Val=-1.29, Plg=40, Azm=88; Best double couple:													
Mo=1.3*10**17 Nm; NP1: Strike=188, Dip=5, Slip=100; NP2:													
Strike=357, Dip=85, Slip=89.													
05	21	25	50.8	20.164	S	177.688	W	500	G	4.8	1.0	61	FIJI ISLANDS REGION
05	22	05	30.1*	4.048	S	141.451	E	33	N		1.3	7	NEW GUINEA, PAPUA NEW GUINEA
05	22	09	16.0*	55.402	N	160.347	W	70				14	ALASKA PENINSULA. <AEIC>. ML 2.8 (AEIC).
05	22	15	09.7*	11.021	N	60.906	W	10	G		1.0	7	WINDWARD ISLANDS
05	22	20	52.5	44.779	N	10.662	E	10	G		1.1	19	NORTHERN ITALY. ML 2.8 (LDG).
05	23	24	22.6	47.120	N	3.517	W	10	G		0.8	15	FRANCE. ML 2.9 (LDG).
05	23	27	13.2	7.837	S	107.242	E	103		4.6	1.0	50	JAWA, INDONESIA
05	23	29	09.57	47.10	N	3.40	W	10	G		0.9	5	FRANCE. ML 2.3 (LDG).
05	23	48	54.2*	24.385	N	94.722	E	100	G	4.3	1.0	17	MYANMAR-INDIA BORDER REGION
06	00	05	43.27	47.53	N	3.48	W	10	G		0.7	5	FRANCE. ML 1.8 (LDG).
06	00	42	46.6	15.772	N	60.646	W	57		4.6	0.9	62	LEEWARD ISLANDS
06	01	06	46.9	31.113	N	41.399	W	10	G	4.3 3.7	1.0	26	NORTHERN MID-ATLANTIC RIDGE
06	01	23	22.0*	20.560	S	178.500	W	550	G	4.0	0.6	13	FIJI ISLANDS REGION
06	01	38	57.9	52.048	N	30.141	W	10	G	4.2 3.6	0.8	59	NORTHERN MID-ATLANTIC RIDGE
06	01	42	15.0*	61.165	N	141.686	W	5				18	SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC).
06	01	55	11.37	9.59	S	154.49	E	33	N	3.9	1.3	8	D'ENTRECASTEAUX ISLANDS REGION
06	03	32	34.1	13.998	N	91.492	W	33	N	4.4	0.9	34	NEAR COAST OF GUATEMALA
06	04	04	53.1*	44.328	N	6.971	E	5	G		0.7	5	FRANCE. ML 1.7 (LDG).
06	04	28	52.0	8.251	N	93.979	E	33	N	4.3	0.6	19	NICOBAR ISLANDS, INDIA
06	05	20	24.27	31.93	S	71.23	W	80	G		0.2	9	NEAR COAST OF CENTRAL CHILE. MD 3.1 (SAN).
06	06	17	42.9*	59.940	N	152.610	W	77				23	SOUTHERN ALASKA. <AEIC>.
06	07	09	04.7*	23.793	S	179.844	W	550	G	4.5	0.9	31	SOUTH OF FIJI ISLANDS
06	07	33	25.37	32.57	S	71.72	W	20	G		0.4	9	NEAR COAST OF CENTRAL CHILE. MD 3.5 (SAN).
06	07	58	43.2*	62.159	N	150.389	W	9				18	CENTRAL ALASKA. <AEIC>. ML 2.5 (AEIC), 2.8 (PMR).
06	08	06	16.2*	60.097	N	150.931	W	37		4.6		160	KENAI PENINSULA, ALASKA. <AEIC>. ML 4.3 (AEIC), 4.7 (PMR).
Felt at Anchorage, Anchor Point, Homer and Kenai.													
06	08	33	12.07	18.04	N	67.39	W	10	G		0.5	4	MONA PASSAGE. MD 2.4 (MPR).
06	08	46	45.4	30.691	S	72.005	W	33	N	4.5	1.1	24	OFF COAST OF CENTRAL CHILE
06	08	58	21.37	25.63	N	92.18	E	41	D	4.9	1.1	7	INDIA-BANGLADESH BORDER REGION
06	09	11	15.7*	10.750	S	117.021	E	33	N	3.9	1.2	13	SOUTH OF SUMBAWA, INDONESIA
06	10	35	00.8	30.706	S	72.207	W	33	N		0.9	18	OFF COAST OF CENTRAL CHILE
06	11	04	37.3*	36.979	N	121.467	W	7				22	CENTRAL CALIFORNIA. <GM-P>. Mw 3.6 (BRK). MD 3.6 (GM). ML
4.0 (BRK). Felt at Gilroy.													
Moment Tensor (BRK): Dep 8; Principal axes (scale 10**14													
Nm): (T) Val=2.89, Plg=10, Azm=105; (N) Val=0.00, Plg=64,													
Azm=217; (P) Val=-2.89, Plg=23, Azm=11; Best double couple:													
Mo=2.9*10**14 Nm; NP1: Strike=56, Dip=81, Slip=24; NP2:													
Strike=150, Dip=66, Slip=-170.													
06	11	08	03.0	7.035	S	155.314	E	33	N	5.3 5.4	0.8	89	SOLOMON ISLANDS. Mw 5.5 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time													
11:08:06.7; Lat 7.43 S; Lon 155.30 E; Dep 31.8; Half-													
duration 1.5 sec; Principal axes (scale 10**17 Nm): (T)													
Val=1.81, Plg=29, Azm=343; (N) Val=0.90, Plg=43, Azm=105;													
(P) Val=-2.71, Plg=33, Azm=232; Best double couple:													
Mo=2.3*10**17 Nm; NP1: Strike=19, Dip=43, Slip=-177; NP2:													
Strike=286, Dip=88, Slip=-47.													
06	11	26	47.7*	7.316	S	154.893	E	33	N	4.1	1.4	16	SOLOMON ISLANDS
06	11	26	59.2	46.792	N	5.483	E	10	G		0.9	28	FRANCE. ML 3.6 (STR), 3.4 (LDG).
06	11	33	30.5*	36.885	N	1.618	E	10	G		1.4	22	NORTHERN ALGERIA
06	11	40	02.7*	23.987	S	66.860	W	200	G		1.0	6	JUJUY PROVINCE, ARGENTINA
06	14	18	49.7*	48.509	N	155.490	E	47	D		1.2	10	KURIL ISLANDS
06	14	44	38.27	13.77	N	92.23	W	33	N		0.5	6	OFF COAST OF CHIAPAS, MEXICO
06	15	00	10.4	36.437	N	70.916	E	193	D	4.9	1.0	171	HINDU KUSH REGION, AFGHANISTAN
06	15	11	24.4	36.408	N	70.829	E	199	D	4.5	0.8	22	HINDU KUSH REGION, AFGHANISTAN
06	15	45	20.4*	45.361	N	6.795	E	10	G		0.5	6	FRANCE. ML 1.9 (LDG).

	06	16	19	55.58	63.281 N	151.129 W	11					21	CENTRAL ALASKA. <AEIC>. ML 3.0 (AEIC), 3.4 (PMR).
	06	17	20	29.9%	18.226 N	67.267 E	50 G		0.5			6	MONA PASSAGE. MD 2.7 (MPR).
	06	19	13	31.2	51.615 N	16.240 E	5 G		1.0			8	POLAND. MG 2.6 (WAR).
	06	19	25	23.4*	23.438 N	143.124 E	25 D	4.2	1.4			30	VOLCANO ISLANDS REGION
	06	19	29	26.68	40.752 N	124.453 W	21					65	NEAR COAST OF NORTHERN CALIF. <GM-P>. Mw 4.3 (BRK). MD 4.0 (GM). ML 4.0 (BRK), 3.9 (GS). Items knocked from shelves at Arcata. Felt strongly at Arcata, Blue Lake, Eureka, Ferndale, Fortuna, Loleta, McKinleyville and Petrolia. Moment Tensor (BRK): Dep 18; Principal axes (scale 10**15 Nm): (T) Val=3.10, Plg=11, Azm=116; (N) Val=-0.00, Plg=75, Azm=250; (P) Val=-3.10, Plg=11, Azm=24; Best double couple: Mo=3.1*10**15 Nm; NP1: Strike=250, Dip=90, Slip=15; NP2: Strike=160, Dip=75, Slip=180.
	06	20	32	11.4?	6.33 S	147.66 E	33 N	4.5	1.0			7	EASTERN NEW GUINEA REG., P.N.G.
	06	21	34	35.5	30.487 S	71.903 W	33 N	4.7	4.5	1.0		48	NEAR COAST OF CENTRAL CHILE
	06	22	25	04.7*	5.489 N	82.507 W	33 N			0.9	11	SOUTH OF PANAMA	
	06	22	50	12.1	30.674 S	71.890 W	33 N	4.9	4.5	1.1		66	NEAR COAST OF CENTRAL CHILE. Mw 5.6 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 22:50:11.2; Lat 30.67 S Fix; Lon 71.89 W Fix; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=2.75, Plg=50, Azm=99; (N) Val=-0.35, Plg=2, Azm=6; (P) Val=-2.40, Plg=40, Azm=274; Best double couple: Mo=2.6*10**17 Nm; NP1: Strike=339, Dip=5, Slip=63; NP2: Strike=186, Dip=85, Slip=92.
	06	22	59	11.3	44.983 N	4.116 E	10 G			0.9	39	FRANCE. ML 3.1 (LDG), 3.1 (STR).	
	06	22	59	25.1*	19.900 S	133.835 E	10 G			1.4	9	NORTHERN TERRITORY, AUSTRALIA	
	06	23	48	17.5*	53.926 N	169.162 W	184 *	4.0	1.0	21	FOX ISLANDS, ALEUTIAN ISLANDS		
	06	23	56	00.0?	20.15 S	178.58 W	550 G	4.2	0.5	10	FIIJI ISLANDS REGION		
	07	00	01	28.88	45.414 N	3.088 E	5 G		1.0	10	FRANCE. ML 2.2 (LDG).		
	07	00	40	42.2?	41.90 N	149.86 E	10 G	4.4	0.9	20	OFF COAST OF HOKKAIDO, JAPAN		
	07	01	04	08.7	23.507 S	179.104 E	550 G	4.9	0.9	157	SOUTH OF FIJI ISLANDS. Mw 5.6 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 01:04:14.9; Lat 23.49 S; Lon 179.26 E; Dep 577.9; Half- duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=2.52, Plg=9, Azm=25; (N) Val=0.08, Plg=13, Azm=293; (P) Val=-2.59, Plg=74, Azm=147; Best double couple: Mo=2.5*10**17 Nm; NP1: Strike=130, Dip=38, Slip=-68; NP2: Strike=283, Dip=55, Slip=-106.		
	07	01	51	15.1	7.270 N	82.221 W	33 N	4.8	4.0	1.0	90	SOUTH OF PANAMA	
	07	02	08	15.58	62.588 N	149.413 W	70			34	CENTRAL ALASKA. <AEIC>. ML 2.5 (AEIC).		
	07	02	08	47.38	44.670 N	6.813 E	10 G		0.3	10	FRANCE. ML 2.0 (LDG).		
	37	02	50	44.8*	3.327 N	122.511 E	550 G	4.2	1.0	17	CELEBES SEA		
	37	04	27	04.9	23.789 N	142.677 E	50 *	5.2	4.9	1.0	115	VOLCANO ISLANDS REGION. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 04:27:05.6; Lat 23.68 N; Lon 143.37 E; Dep 57.2; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=7.21, Plg=36, Azm=177; (N) Val=0.40, Plg=32, Azm=294; (P) Val=-7.62, Plg=38, Azm=52; Best double couple: Mo=7.4*10**16 Nm; NP1: Strike=206, Dip=32, Slip=-178; NP2: Strike=114, Dip=89, Slip=-58.	
	07	05	48	36.0?	23.96 S	178.98 E	550 G	3.7	1.5	12	SOUTH OF FIJI ISLANDS		
	07	06	45	14.4*	36.353 N	70.786 E	200 G	4.0	0.7	14	HINDU KUSH REGION, AFGHANISTAN		
	07	07	24	38.3*	3.221 S	139.903 E	33 N	4.6	1.1	14	IRIAN JAYA, INDONESIA		
	07	07	56	23.3*	55.734 N	157.919 W	33 N		1.3	6	ALASKA PENINSULA. ML 3.6 (PMR). Felt (II) at Chignik.		
	07	07	58	34.28	63.351 N	150.568 W	8			23	CENTRAL ALASKA. <AEIC>. ML 2.5 (AEIC), 3.0 (PMR).		
	07	08	21	44.3?	50.28 N	178.13 E	33 N		0.9	8	RAT ISLANDS, ALEUTIAN ISLANDS		
	07	08	53	01.2*	49.547 N	6.114 E	10 G		0.3	5	GERMANY. ML 2.6 (LDG).		
	07	09	23	26.58	53.904 N	165.109 W	6						

08	01	37	16.3*	44.632 N	148.293 E	33 N	4.2	0.9	20	KURIL ISLANDS
08	02	32	01.07	31.69 S	69.83 W	150 G		0.3	9	SAN JUAN PROVINCE, ARGENTINA. MD 3.7 (SAN).
08	02	39	01.9	39.746 N	41.869 E	10 G	4.5	1.4	66	TURKEY. One person injured and seven houses destroyed in the Koprulukoy area.
08	03	27	58.7*	54.005 N	164.876 W	73	4.6		115	UNIMAK ISLAND REGION. <AEIC>.
08	04	01	13.4	51.669 N	16.125 E	5 G		1.3	19	POLAND. ML 3.4 (GRF), 3.2 (VIE).
08	04	48	25.9*	3.815 S	142.558 E	33 N	3.9	1.4	11	NEAR N COAST OF NEW GUINEA, PNG.
08	04	50	28.4*	49.696 N	12.430 E	10 G		0.9	5	GERMANY
08	05	19	07.9*	50.143 N	18.964 E	5 G		1.1	5	POLAND. MG 2.7 (WAR).
08	06	44	38.6*	14.397 S	72.421 W	99 D	4.3	1.1	35	CENTRAL PERU
08	08	40	07.8*	36.250 N	26.409 E	33 N		1.2	7	DODECANESE ISLANDS
08	09	08	22.4	44.570 N	10.392 E	10 G		1.1	41	NORTHERN ITALY. ML 3.3 (STR), 3.2 (LDG), 3.1 (VIE).
08	09	17	12.9	36.449 N	27.188 E	33 N	4.3	1.3	72	DODECANESE ISLANDS
08	09	25	32.6	36.416 N	27.068 E	33 N	4.0	1.5	30	DODECANESE ISLANDS
08	09	40	56.8*	36.426 N	26.665 E	33 N	4.1	0.9	16	DODECANESE ISLANDS
08	10	21	22.5*	13.691 N	120.178 E	33 N	4.2	0.7	13	MINDORO, PHILIPPINE ISLANDS
08	10	21	46.1*	7.677 N	94.635 E	33 N		1.0	5	NICOBAR ISLANDS, INDIA
08	10	27	53.4*	22.026 N	93.594 E	68 D	4.4	0.8	21	MYANMAR-INDIA BORDER REGION
08	10	36	09.3*	42.498 N	28.687 E	86 *		1.5	19	BLACK SEA. Felt at Provadiya, Bulgaria.
08	10	54	44.9	47.222 N	9.488 E	5 G		1.3	47	GERMANY. ML 3.3 (VIE), 3.2 (GRF), 3.1 (STR), 3.0 (LDG).
08	11	10	56.7*	37.136 N	118.248 W	11			12	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.1 (GM). ML 2.9 (GS).
08	11	31	34.8	51.079 N	157.970 E	33 N	4.5	0.9	54	NEAR EAST COAST OF KAMCHATKA
08	11	57	18.5	21.778 S	68.436 W	112 D	4.7	1.0	86	CHILE-BOLIVIA BORDER REGION
08	12	08	55.37	3.10 S	141.25 E	33 N	3.4	1.3	6	NEW GUINEA, PAPUA NEW GUINEA
08	13	34	57.4	56.961 N	143.122 W	10 G		0.8	26	GULF OF ALASKA. ML 3.5 (AEIC).
08	14	12	56.6*	3.446 S	140.307 E	33 N	3.9	0.8	11	IRIAN JAYA, INDONESIA
08	15	46	05.2*	59.201 N	152.414 W	65			18	SOUTHERN ALASKA. <AEIC>. ML 3.3 (AEIC).
08	17	10	49.8	40.354 N	142.404 E	57 D	4.4	0.7	31	NEAR EAST COAST OF HONSHU, JAPAN
08	17	16	23.2*	44.603 S	35.404 E	10 G	5.0	1.2	39	PRINCE EDWARD ISLANDS REGION. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 17:16:29.0; Lat 44.55 S; Lon 35.28 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.72, Plg=1, Azm=353; (N) Val=0.11, Plg=8, Azm=263; (P) Val=-4.83, Plg=82, Azm=90; Best double couple: Mo=4.8*10**16 Nm; NP1: Strike=91, Dip=45, Slip=-78; NP2: Strike=255, Dip=47, Slip=-101.
08	17	21	44.87	18.82 S	167.89 E	239 *	4.3	1.3	14	VANUATU ISLANDS
08	18	00	49.6*	6.772 N	73.016 W	171 *	4.2	1.0	22	NORTHERN COLOMBIA
08	18	02	25.4*	16.806 S	167.570 E	33 N	4.4	1.0	15	VANUATU ISLANDS
08	18	50	15.07	16.94 S	177.85 W	400 G	4.3	0.9	14	FIJI ISLANDS REGION
08	19	09	18.4	4.272 N	124.408 E	400 G	4.3	1.0	36	CELEBES SEA
08	19	17	24.8*	36.413 N	3.279 W	10 G		0.8	14	STRAIT OF GIBRALTAR. mbLg 3.8 (MDD).
08	19	53	49.4	15.501 N	147.992 E	33 N	4.2	0.9	20	MARIANA ISLANDS REGION
08	20	34	47.1	35.704 N	139.364 E	68 D	4.9	1.0	153	NEAR S. COAST OF HONSHU, JAPAN. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 20:34:49.6; Lat 35.37 N; Lon 139.22 E; Dep 79.9; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.53, Plg=49, Azm=185; (N) Val=-2.23, Plg=28, Azm=58; (P) Val=-3.29, Plg=27, Azm=312; Best double couple: Mo=4.4*10**16 Nm; NP1: Strike=355, Dip=31, Slip=23; NP2: Strike=244, Dip=78, Slip=119.
08	21	16	19.57	32.28 S	70.96 W	70 G		0.4	10	CHILE-ARGENTINA BORDER REGION. MD 3.5 (SAN).
08	21	22	16.1*	63.008 N	151.057 W	118			19	CENTRAL ALASKA. <AEIC>.
08	21	38	59.87	20.59 S	178.58 W	600 G	4.0	1.1	12	FIJI ISLANDS REGION
08	22	27	19.8	15.477 S	179.140 W	10 G	5.7	1.1	224	FIJI ISLANDS REGION. Mw 6.6 (HRV), 6.5 (GS). Ms 6.6 (BRK). Moment Tensor (GS): Dep 24; Principal axes (scale 10**18 Nm): (T) Val=7.29, Plg=12, Azm=298; (N) Val=-0.60, Plg=77, Azm=136; (P) Val=-6.68, Plg=4, Azm=29; Best double couple: Mo=7.0*10**18 Nm; NP1: Strike=74, Dip=78, Slip=6; NP2: Strike=343, Dip=84, Slip=168. Centroid, Moment Tensor (HRV): Centroid origin time 22:27:28.5; Lat 15.48 S; Lon 178.76 W; Dep 17.0 Bdy; Half-duration 5.0 sec; Principal axes (scale 10**18 Nm): (T) Val=9.49, Plg=2, Azm=290; (N) Val=0.10, Plg=86, Azm=44; (P) Val=-9.59, Plg=4, Azm=200; Best double couple: Mo=9.5*10**18 Nm; NP1: Strike=335, Dip=86, Slip=-178; NP2: Strike=245, Dip=88, Slip=-4.
08	22	28	36.9*	6.958 S	129.207 E	33 N	4.4	1.4	14	BANDA SEA
08	23	14	41.6	35.973 N	27.099 E	33 N	3.8	1.1	36	DODECANESE ISLANDS
08	23	42	52.0*	44.653 N	6.822 E	5 G		1.0	20	FRANCE. ML 2.2 (LDG).
09	00	11	53.5	36.471 N	71.046 E	200 D	3.8	0.7	36	AFGHANISTAN-TAJIKISTAN BORD REG.
09	02	11	17.8*	22.348 N	94.768 E	110 *	4.3	0.6	12	MYANMAR
09	02	16	49.5*	43.151 N	126.757 W	10 G		0.5	52	OFF COAST OF OREGON
09	03	03	44.27	43.03 N	0.40 W	5 G		0.5	4	PYRENEES. ML 2.0 (LDG).
09	04	10	48.07	17.08 S	178.78 W	500 G	3.8	1.0	10	FIJI ISLANDS REGION
09	04	14	56.6*	35.142 N	124.730 E	10 G		1.5	6	YELLOW SEA
09	04	48	00.7	30.291 N	96.978 E	33 N	5.2	0.8	197	XIZANG. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 04:48:07.6; Lat 30.16 N; Lon 97.46 E; Dep 33.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=7.29, Plg=18, Azm=343; (N) Val=0.98, Plg=0, Azm=73; (P) Val=-8.27, Plg=72, Azm=164; Best double couple: Mo=7.8*10**16 Nm; NP1: Strike=73, Dip=27, Slip=-90; NP2: Strike=253, Dip=63, Slip=-90.
09	05	46	48.0*	56.059 N	158.018 W	8			23	ALASKA PENINSULA. <AEIC>. ML 3.8 (AEIC).
09	06	18	41.97	32.48 S	72.06 W	15 G		0.4	9	OFF COAST OF CENTRAL CHILE. MD 3.3 (SAN).
09	06	36	57.27	32.02 S	70.85 W	100 G		0.3	10	CHILE-ARGENTINA BORDER REGION. MD 3.6 (SAN).
09	06	38	22.8	36.968 N	4.529 W	10 G		1.0	6	STRAIT OF GIBRALTAR. mbLg 2.2 (MDD).
09	06	47	03.7	35.956 N	27.058 E	10 G	4.0	1.3	72	DODECANESE ISLANDS
09	08	00	28.0	31.027 N	141.608 E	33 N	4.6	1.1	53	SOUTH OF HONSHU, JAPAN
09	08	35	08.4*	33.995 S	69.852 W	5 G		0.3	9	CHILE-ARGENTINA BORDER REGION. MD 3.3 (SAN).
09	08	43	26.17	56.05 S	144.41 W	10 G	4.7	1.0	6	PACIFIC-ANTARCTIC RIDGE

09	09	26	39.47	5.26	S	148.06	E	100	G	3.8	1.1	8	NEW BRITAIN REGION, P.N.G.
09	10	28	50.96	59.424	N	151.226	W	5				23	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.5 (AEIC).
09	10	58	32.27	11.69	N	121.73	E	33	N	4.3	1.0	7	PANAY, PHILIPPINE ISLANDS
09	11	17	49.7*	14.356	S	174.712	E	500	G	4.6	1.2	26	FIJI ISLANDS REGION
09	11	19	40.67	14.23	S	174.66	E	500	G	4.3	1.1	19	FIJI ISLANDS REGION
09	11	21	44.27	14.32	S	174.72	E	500	G	4.2	0.9	12	FIJI ISLANDS REGION
09	12	04	07.7	43.854	N	148.157	E	30	D	4.6	1.0	77	EAST OF KORIL ISLANDS
09	13	41	30.0*	3.383	S	148.849	E	33	N	4.4	1.0	13	BISMARCK SEA
09	14	09	39.46	40.314	N	124.667	W	20				5	NEAR COAST OF NORTHERN CALIF. <GM-P>. MD 2.8 (GM).
09	14	22	14.28	30.259	N	130.773	E	138	?		1.3	12	KYUSHU, JAPAN
09	14	23	39.4	32.366	S	71.841	W	33	N		0.8	14	NEAR COAST OF CENTRAL CHILE. MD 4.4 (SAN). Felt (III) at Quillota, Quilpue, Villa Alemana and Vina del Mar; (II) at Concon, La Ligua, Llaillay, Puchuncavi, San Felipe, Valparaiso and Zapallar.
09	14	25	42.4	13.723	N	120.742	E	109	D	4.7	0.9	59	MINDORO, PHILIPPINE ISLANDS
09	14	29	01.1	9.595	N	122.215	E	33	N	4.6	1.1	33	NEGROS, PHILIPPINE ISLANDS
09	15	37	22.3*	7.344	S	128.838	E	100	G	3.9	1.5	12	BANDA SEA
09	15	48	35.8*	5.877	S	127.554	E	389	*	3.8	0.9	14	BANDA SEA
09	16	03	49.6*	2.299	S	139.650	E	24	D	4.3	1.3	18	NEAR NORTH COAST OF IRIAN JAYA
09	16	40	49.5	30.527	S	71.844	W	26	D	4.7	1.0	51	NEAR COAST OF CENTRAL CHILE
09	16	46	02.7*	30.549	N	96.931	E	33	N	4.4	0.8	13	XIZANG
09	16	54	48.0*	42.402	N	125.719	W	10	G		0.6	10	OFF COAST OF OREGON
09	16	59	04.57	5.14	N	126.94	E	33	N	4.3	1.3	11	MINDANAO, PHILIPPINE ISLANDS
09	17	04	02.3*	36.617	N	25.245	E	33	N	3.8	1.2	26	DODECANESE ISLANDS
09	17	05	27.1	36.559	N	60.405	E	43	D	4.3	1.1	44	TURKMENISTAN-IRAN BORDER REGION
09	17	23	31.46	53.812	N	164.022	W	34		4.4		49	UNIMAK ISLAND REGION. <AEIC>. ML 3.9 (AEIC).
09	17	28	56.06	34.150	N	116.435	W	3				28	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS), 2.9 (GS).
09	17	46	03.9	41.795	N	97.185	W	5	G		1.2	14	NEBRASKA. mblg 3.4 (GS). Felt (IV) in the Leigh-Clarkson-Howells area. Felt (III) at Dodge and (II) at West Point.
09	18	01	36.67	49.35	S	116.26	W	10	G	4.3	1.4	10	SOUTHERN EAST PACIFIC RISE
09	18	05	32.8*	4.019	N	126.684	E	33	N	4.5	0.9	23	TALAUD ISLANDS, INDONESIA
09	18	06	34.57	32.33	S	70.48	W	100	G		0.3	9	CHILE-ARGENTINA BORDER REGION. MD 2.8 (SAN).
09	21	09	08.1*	39.325	N	19.942	E	10	G		1.3	12	GREECE-ALBANIA BORDER REGION
09	21	19	52.6	5.548	S	76.878	W	116	D	4.4	0.9	60	NORTHERN PERU
09	22	03	15.3*	31.810	N	140.857	E	71	*		1.4	13	SOUTH OF HONSHU, JAPAN
09	22	48	09.9*	58.543	S	26.284	W	107	D		1.0	18	SOUTH SANDWICH ISLANDS REGION
09	23	02	50.77	56.13	S	146.96	E	10	G	4.0	0.9	8	WEST OF MACQUARIE ISLAND
09	23	40	54.16	32.297	N	115.121	W	6	G			25	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.1 (PAS). MD 3.9 (ECK). Felt in the epicentral area.
10	00	26	29.8*	46.120	N	7.489	E	10	G		1.3	12	SWITZERLAND. ML 2.3 (STR), 1.9 (LDG).
10	00	54	06.96	32.313	N	115.119	W	6	G			27	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.0 (PAS). MD 3.6 (ECK). Felt in the epicentral area.
10	00	59	25.87	3.68	N	79.54	W	33	N		1.4	9	SOUTH OF PANAMA
10	01	46	25.06	61.228	N	148.061	W	33				85	SOUTHERN ALASKA. <AEIC>. ML 3.8 (AEIC), 3.6 (PMR).
10	01	50	35.96	32.306	N	115.120	W	6	G			20	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.1 (PAS). MD 3.4 (ECK). Felt in the epicentral area.
10	02	08	40.3	43.079	N	0.749	W	10	G		0.6	9	PYRENEES. ML 1.8 (LDG), 1.4 (STR).
10	03	27	28.6*	35.210	N	26.846	E	100	G	3.7	1.0	22	CRETE
10	04	09	38.27	15.04	S	72.13	W	156	?		0.3	6	SOUTHERN PERU
10	05	13	07.37	28.57	S	177.94	W	33	N	4.2	1.3	6	KERMADEC ISLANDS REGION
10	05	23	36.3	34.565	N	32.093	E	79	*	3.9	0.9	31	CYPRUS REGION
10	06	02	04.26	32.306	N	115.128	W	6	G			26	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.0 (PAS).
10	06	24	40.6*	4.217	S	145.476	E	33	N	3.9	0.5	6	NEAR N COAST OF NEW GUINEA, PNG.
10	07	56	18.0*	18.597	N	106.832	W	33	N	4.0	0.8	27	OFF COAST OF JALISCO, MEXICO
10	08	16	18.16	60.368	N	152.384	W	101				17	SOUTHERN ALASKA. <AEIC>.
10	08	29	12.6*	29.306	N	130.566	E	33	N	4.0	1.0	11	RYUKYU ISLANDS
10	08	35	43.36	59.581	N	152.351	W	75				16	SOUTHERN ALASKA. <AEIC>.
10	09	03	54.6*	30.537	N	97.485	E	33	N	4.5	1.4	16	XIZANG
10	09	20	30.9	16.013	S	124.329	E	10		5.9 6.0	0.8	269	WESTERN AUSTRALIA. Mw 6.3 (GS), 6.2 (HRV). Me 6.6 (GS). Ms 6.0 (BRK). Felt in many parts of northwestern Australia. Broadband Source Parameters (GS): Dep 20; NP1: Strike-205, Dip-75, Slip-165; NP2: Strike-299, Dip-76, Slip-16; Radiated energy 2.1*10**14 Nm. Moment Tensor (GS): Dep 12; Principal axes (scale 10**18 Nm): (T) Val-2.81, Plg-15, Azm-158; (N) Val--0.15, Plg-72, Azm-10; (P) Val--2.65, Plg-9, Azm-251; Best double couple: Mo-2.7*10**18 Nm; NP1: Strike-295, Dip-73, Slip-4; NP2: Strike-204, Dip-86, Slip-163. Centroid, Moment Tensor (HRV): Centroid origin time 09:20:38.0; Lat 15.98 S; Lon 124.48 E; Dep 15.0 Fix; Half-duration 3.0 sec; Principal axes (scale 10**18 Nm): (T) Val-2.79, Plg-31, Azm-156; (N) Val--0.46, Plg-57, Azm=0; (P) Val--2.33, Plg-11, Azm-253; Best double couple: Mo-2.6*10**18 Nm; NP1: Strike-299, Dip-60, Slip-15; NP2: Strike-201, Dip-77, Slip-149.
10	10	26	15.5*	51.150	N	15.807	E	5	G		0.6	7	POLAND
10	10	48	24.1	46.489	N	16.453	E	10	G		1.3	22	NORTHWESTERN BALKAN REGION. ML 3.8 (GRF), 3.4 (VIE), 3.2 (LJU). Felt (IV) in the Lendava-Turnisce area, Slovenia. Also felt at Lenti, Hungary.
10	11	23	24.36	61.917	N	151.923	W	102				22	SOUTHERN ALASKA. <AEIC>.
10	11	31	43.8*	35.212	N	135.359	E	371		3.9	1.2	16	WESTERN HONSHU, JAPAN
10	11	53	17.27	29.16	N	89.49	E	33	N	3.4	1.0	6	XIZANG
10	12	03	27.46	37.150	N	2.594	W	10	G		0.7	6	SPAIN. mblg 2.4 (MDD).
10	12	17	45.9*	51.800	N	177.930	E	66	D		1.1	12	RAT ISLANDS, ALEUTIAN ISLANDS
10	12	31	46.4*	15.939	S	124.257	E	10	G	4.0	0.9	10	WESTERN AUSTRALIA
10	13	40	04.76	34.279	S	70.742	W	100	G		0.3	9	CHILE-ARGENTINA BORDER REGION
10	13	48	22.56	45.473	N	26.350	E	131	?		0.7	9	ROMANIA
10	14	13	08.2	6.232	N	126.373	E	61	*	5.3	1.2	71	MINDANAO, PHILIPPINE ISLANDS. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 14:13:10.9; Lat 6.27 N; Lon 126.24 E; Dep 87.4; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val-1.53, Plg-35, Azm-205; (N) Val--0.36, Plg-30, Azm-318; (P) Val--1.17, Plg-41, Azm-77; Best double couple:

Mo=1.3*10**17 Nm; NP1: Strike=236, Dip=30, Slip=-173; NP2: Strike=140, Dip=87, Slip=-60.

10	14	15	39.0	48.179	N	155.089	E	33	N	4.9	0.9	54	KURIL ISLANDS
10	14	17	45.2*	47.961	N	155.145	E	33	N	4.8	1.1	13	EAST OF KURIL ISLANDS
10	14	30	51.4	47.948	N	155.063	E	33	N	4.5	1.2	36	EAST OF KURIL ISLANDS
10	14	50	07.5*	26.479	N	143.490	E	33	N		1.1	8	BONIN ISLANDS REGION
10	15	02	21.0*	46.060	N	7.848	E	10	G		1.3	6	SWITZERLAND. ML 2.4 (STR), 2.0 (LDG).
10	15	07	39.1	29.331	N	130.812	E	60	*		0.8	18	RYUKYU ISLANDS
10	15	19	31.5	6.045	S	127.688	E	391	*	4.9	0.8	27	BANDA SEA
10	15	28	41.3*	32.855	S	70.419	W	33	N		0.9	10	CHILE-ARGENTINA BORDER REGION
10	15	58	55.27	29.44	N	130.95	E	33	N		0.7	6	RYUKYU ISLANDS
10	16	23	02.87	32.43	S	70.31	W	110	G		0.3	9	CHILE-ARGENTINA BORDER REGION
10	17	01	30.8*	35.514	N	120.115	W	2				3	CENTRAL CALIFORNIA. <GM-P>. MD 2.8 (GM).
10	17	17	27.7	42.377	N	125.460	W	10	G		0.5	55	OFF COAST OF OREGON
10	17	50	45.87	4.71	N	75.48	W	150	G		1.4	12	COLOMBIA
10	18	08	09.1*	17.744	S	178.421	W	476	*	4.3	1.0	23	FIJI ISLANDS REGION
10	18	14	13.87	22.07	S	172.43	E	33	N	4.3	1.6	10	LOYALTY ISLANDS REGION
10	18	25	30.6	33.471	N	134.971	E	33	N		0.8	15	SHIKOKU, JAPAN
10	18	34	43.4*	55.993	S	27.672	W	200	G	4.1	0.6	13	SOUTH SANDWICH ISLANDS REGION
10	19	00	16.27	7.33	S	120.55	E	600	G	4.2	0.8	10	FLORES SEA
10	19	08	04.2*	33.319	S	70.582	W	100	G		0.6	8	CHILE-ARGENTINA BORDER REGION
10	19	38	48.1*	32.598	S	71.602	W	10	G		0.4	9	NEAR COAST OF CENTRAL CHILE
10	20	46	22.37	32.47	S	70.49	W	100	G		0.3	10	CHILE-ARGENTINA BORDER REGION
10	21	06	19.2*	2.598	S	138.872	E	33	N	3.6	0.9	9	IRIAN JAYA, INDONESIA
10	21	57	43.2*	27.361	N	140.302	E	456	*	3.5	0.8	12	BONIN ISLANDS REGION
10	22	03	31.4	56.234	S	27.189	W	94	D	5.3	0.8	40	SOUTH SANDWICH ISLANDS REGION. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 22:03:32.6; Lat 56.51 S; Lon 27.20 W; Dep 76.1; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=9.05, Plg=38, Azm=162; (N) Val=-2.08, Plg=49, Azm=316; (P) Val=-6.96, Plg=13, Azm=62; Best double couple: Mo=8.0*10**16 Nm; NP1: Strike=195, Dip=53, Slip=160; NP2: Strike=297, Dip=74, Slip=38.
10	22	09	53.0*	32.303	N	115.127	W	6	G	3.8		39	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.4 (PAS). MD 3.5 (ECX). Felt in the Yuma, Arizona area.
10	22	38	06.8	43.180	N	146.181	E	75	D	4.4	0.7	54	KURIL ISLANDS. Felt (III) at Yuzhno-Kurilsk.
10	22	42	11.1*	12.596	N	88.581	W	70	G	4.6	1.1	36	OFF COAST OF CENTRAL AMERICA
10	23	22	10.97	6.04	S	130.49	E	100	G	4.5	0.9	7	BANDA SEA
10	23	42	24.27	34.06	S	72.06	W	26	*		0.4	8	NEAR COAST OF CENTRAL CHILE
11	00	13	54.6	43.367	N	4.470	E	10	G		0.7	9	NEAR SOUTH COAST OF FRANCE. ML 2.1 (STR), 2.0 (LDG).
11	00	15	18.27	24.37	S	115.87	W	10	G		0.6	5	SOUTHERN EAST PACIFIC RISE
11	00	35	02.3	51.912	N	158.516	E	33	N	4.4	0.7	35	NEAR EAST COAST OF KAMCHATKA
11	00	39	34.77	52.45	N	17.67	E	5	G		0.5	6	POLAND. ML 3.0 (VIE).
11	00	50	58.87	39.38	S	89.00	W	10	G	4.5	1.3	15	WEST CHILE RISE
11	01	00	42.6	50.104	N	18.417	E	5	G		1.4	16	POLAND. ML 3.5 (GRF), 3.4 (VIE).
11	01	26	02.37	46.90	N	143.27	E	200	G	4.3	1.3	9	SAKHALIN ISLAND
11	01	53	06.5*	59.604	S	26.284	W	33	N	4.3	0.7	19	SOUTH SANDWICH ISLANDS REGION
11	02	36	04.2	44.488	N	8.471	E	5	G		0.9	14	NORTHERN ITALY. ML 2.2 (LDG).
11	03	50	13.1*	33.573	S	70.364	W	15	G		0.3	10	CHILE-ARGENTINA BORDER REGION
11	04	49	03.3*	22.946	N	121.095	E	33	N		0.9	6	TAIWAN REGION
11	05	20	43.8	18.785	N	145.816	E	156		5.1	0.9	136	MARIANA ISLANDS. Felt on Saipan.
11	06	10	35.97	32.29	S	71.71	W	20	G		0.6	8	NEAR COAST OF CENTRAL CHILE
11	06	38	40.3	44.547	N	9.991	E	10	G		1.1	21	NORTHERN ITALY. ML 2.8 (LDG).
11	06	40	11.3	44.662	N	10.014	E	10	G		1.0	68	NORTHERN ITALY. ML 3.9 (VIE), 3.8 (STR), 3.5 (LDG).
11	06	47	40.2*	30.405	N	96.971	E	33	N		0.6	12	XIZANG
11	06	50	36.7	44.557	N	9.958	E	10	G		1.0	25	NORTHERN ITALY. ML 2.9 (LDG).
11	06	58	08.9	44.653	N	9.997	E	10	G		1.1	46	NORTHERN ITALY. ML 3.3 (LDG), 3.2 (VIE).
11	07	02	33.0	44.643	N	10.055	E	10	G		0.8	17	NORTHERN ITALY. ML 2.7 (LDG).
11	07	29	00.8*	33.940	S	70.021	W	10	G		0.3	9	CHILE-ARGENTINA BORDER REGION
11	07	40	31.9*	47.275	N	11.315	E	5	G		0.6	5	AUSTRIA. ML 2.1 (VIE).
11	08	00	55.57	32.63	S	71.96	W	20	G		0.3	9	NEAR COAST OF CENTRAL CHILE
11	08	25	33.87	31.90	S	70.40	W	115	G		0.3	9	CHILE-ARGENTINA BORDER REGION
11	08	52	54.67	32.04	S	69.68	W	150	G		0.3	10	MENDOZA PROVINCE, ARGENTINA
11	09	05	56.1	47.300	N	11.327	E	10	G		1.3	23	AUSTRIA. ML 3.1 (STR), 3.0 (GRF), 3.0 (FUR), 2.9 (LDG), 2.7 (VIE). Felt (III) at Innsbruck.
11	09	36	53.5	47.257	N	11.278	E	5	G		1.4	8	AUSTRIA. ML 2.6 (FUR), 2.3 (VIE).
11	09	54	58.4*	58.446	N	152.512	W	46				34	KODIAK ISLAND REGION. <AEIC>. ML 3.2 (AEIC).
11	10	22	12.5*	30.370	S	73.623	W	33	N		1.4	14	OFF COAST OF CENTRAL CHILE
11	10	37	09.1*	18.090	S	174.371	W	73	D	4.4	0.7	32	TONGA ISLANDS
11	11	49	34.3*	63.591	N	147.777	W	72				18	CENTRAL ALASKA. <AEIC>.
11	12	36	10.3	6.227	S	104.806	E	33	N	4.7	1.0	34	SUNDA STRAIT
11	12	55	04.1	2.930	S	77.806	W	35	D	5.0 4.1	0.7	86	PERU-ECUADOR BORDER REGION
11	13	03	19.9*	44.423	N	7.470	E	5	G		0.5	7	NORTHERN ITALY. ML 1.9 (LDG).
11	13	35	54.3*	17.200	N	147.531	E	33	N	4.2	0.9	12	MARIANA ISLANDS REGION
11	14	12	29.1*	15.879	S	124.212	E	33	N	3.9	1.3	12	WESTERN AUSTRALIA
11	15	04	07.2	47.304	N	11.249	E	10	G		1.3	40	AUSTRIA. ML 3.5 (FUR), 3.3 (GRF), 3.0 (STR), 3.0 (LDG), 2.9 (VIE).
11	15	14	26.8*	10.232	N	126.323	E	33	N	4.5	1.0	20	PHILIPPINE ISLANDS REGION
11	15	19	00.6*	24.228	S	70.658	W	33	N		1.0	8	NEAR COAST OF NORTHERN CHILE. Felt (II) at Antofagasta.
11	16	09	01.4*	39.992	S	174.635	E	100	G		0.3	9	NORTH ISLAND, NEW ZEALAND
11	17	38	30.27	44.40	N	143.21	E	200	G	4.4	0.8	6	HOKKAIDO, JAPAN REGION
11	18	26	14.67	16.41	S	178.96	W	450	G	3.5	1.2	13	FIJI ISLANDS REGION
11	18	44	48.9*	32.333	N	115.123	W	6	G			2	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 2.8 (PAS). MD 3.6 (ECX). Felt in the epicentral area.
11	19	09	59.2*	9.957	S	154.474	E	33	N	4.0	1.1	11	D'ENTRECASTEAUX ISLANDS REGION
11	19	29	38.0*	22.259	N	142.919	E	22	D	4.2	1.1	21	VOLCANO ISLANDS REGION
11	19	40	00.1*	1.570	S	138.339	E	33	N	3.8	0.2	6	NEAR NORTH COAST OF IRIAN JAYA
11	20	09	50.47	3.43	S	128.50	E	33	N	4.1	0.9	8	SERAM, INDONESIA
11	20	42	00.9*	44.485	N	4.704	E	10	G		1.5	12	FRANCE. ML 2.2 (LDG), 2.2 (STR).
11	21	14	28.47	32.51	S	72.02	W	20	G		0.5	9	OFF COAST OF CENTRAL CHILE
11	21	27	23.7*	44.547	N	7.415	E	5	G		0.4	7	NORTHERN ITALY. ML 2.0 (GEN).
11	21	43	05.5*	51.531	N	160.867	E	33	N		1.1	9	OFF EAST COAST OF KAMCHATKA
11	22	22	35.6*	5.529	S	103.930	E	33	N	4.5	1.1	24	SOUTHERN SUMATERA, INDONESIA

11	22	37	11.6%	47.884	N	3.087	W	5	G	1.0	6	FRANCE. ML 1.8 (LDG).
11	23	58	16.2%	24.07	S	179.27	E	650	G	4.1	1.1	15 SOUTH OF FIJI ISLANDS
11	23	59	12.7%	63.195	N	150.339	W	115			33	CENTRAL ALASKA. <AEIC>.
12	00	10	43.0%	34.54	S	70.38	W	5	G	0.6	8	CHILE-ARGENTINA BORDER REGION
12	00	28	11.3%	17.55	N	103.31	W	33	N	4.0	1.3	11 NEAR COAST OF MICHOACAN, MEXICO
12	01	21	21.7%	24.652	S	179.639	E	600	G	4.3	1.0	31 SOUTH OF FIJI ISLANDS
12	02	14	11.1	49.352	N	7.222	E	5	G	0.8	6	GERMANY. ML 2.0 (STR).
12	02	23	38.4%	52.215	N	144.383	E	10	G	1.4	10	SEA OF OKHOTSK
12	02	52	13.4%	56.122	N	164.029	E	33	N	1.1	14	KOMANDORSKY ISLANDS REGION
12	03	13	36.4%	40.602	N	124.485	W	20			5	NEAR COAST OF NORTHERN CALIF. <GM-P>. MD 2.8 (GM).
12	03	18	58.7%	45.596	N	7.441	E	5	G	0.6	5	NORTHERN ITALY. ML 1.7 (LDG).
12	03	53	25.3%	10.309	N	63.600	W	10	G	4.4	1.4	27 NEAR COAST OF VENEZUELA
12	04	24	48.2	5.396	S	151.558	E	33	N	5.1	1.0	70 NEW BRITAIN REGION, P.N.G.
12	04	37	49.7%	53.913	N	165.118	W	61			13	FOX ISLANDS, ALEUTIAN ISLANDS. <AEIC>. ML 3.6 (AEIC).
12	06	10	15.3%	18.00	S	179.00	W	650	G	4.0	0.3	8 FIJI ISLANDS REGION
12	06	10	39.8%	15.48	S	173.32	W	33	N	4.3	0.9	13 TONGA ISLANDS
12	07	05	52.3%	0.37	N	97.93	E	33	N		0.5	7 NORTHERN SUMATERA, INDONESIA
12	08	13	15.3%	7.379	N	123.849	E	600	G	4.1	0.6	12 MINDANAO, PHILIPPINE ISLANDS
12	08	20	03.0%	28.916	S	178.658	W	200	G	4.2	1.2	16 KERMADEC ISLANDS REGION
12	08	55	53.3%	4.82	S	106.04	W	10	G	4.8	1.4	14 CENTRAL EAST PACIFIC RISE
12	09	48	26.5	43.761	N	147.233	E	49	D	4.5	0.9	21 KURIL ISLANDS
12	10	42	12.6%	19.201	S	167.836	E	33	N	4.4	1.3	14 VANUATU ISLANDS REGION
12	10	53	26.2%	2.962	N	128.797	E	33	N	4.4	1.3	12 HALMAHERA, INDONESIA
12	11	14	39.9%	13.226	S	167.022	E	200	G		1.1	9 VANUATU ISLANDS
12	11	18	54.6%	46.058	N	5.869	E	5	G		0.9	7 FRANCE. ML 2.0 (LDG).
12	11	31	27.3	16.555	S	73.398	W	55	D	5.3	1.0	153 NEAR COAST OF PERU. Felt (II) at Arequipa.
12	11	34	09.0%	51.167	N	15.848	E	5	G		1.0	7 POLAND. ML 3.4 (VIE).
12	11	52	42.2%	19.143	S	167.628	E	33	N		1.1	9 VANUATU ISLANDS REGION
12	11	58	03.8%	23.629	S	178.539	E	600	G	4.3	0.5	12 SOUTH OF FIJI ISLANDS
12	12	02	36.0%	13.470	N	123.960	E	33	N	4.4	1.2	13 LUZON, PHILIPPINE ISLANDS
12	12	34	30.0%	32.835	N	118.397	W	17			32	OFF COAST OF CALIFORNIA. <PAS-P>. ML 3.6 (PAS). Felt.
12	12	48	47.4%	28.022	N	139.705	E	500	G	3.7	0.9	9 BONIN ISLANDS REGION
12	13	46	32.9%	6.00	S	147.90	E	33	N	3.6	1.0	5 EASTERN NEW GUINEA REG., P.N.G.
12	14	22	12.7%	50.68	S	116.06	E	10	G		1.1	8 SOUTH OF AUSTRALIA
12	14	37	00.8	58.969	N	150.808	W	33	N		0.7	23 GULF OF ALASKA. ML 3.0 (PMR), 2.9 (AEIC).
12	14	37	13.9%	19.169	S	167.811	E	33	N		0.9	8 VANUATU ISLANDS REGION
12	18	08	42.3%	14.66	S	176.16	W	300	G	4.0	0.7	10 FIJI ISLANDS REGION
12	18	17	43.5%	12.612	N	144.438	E	33	N		1.5	11 SOUTH OF MARIANA ISLANDS
12	18	19	51.6%	21.839	S	77.277	W	10	G	4.2	1.1	12 SOUTHEAST CENTRAL PACIFIC OCEAN
12	18	29	27.6	0.108	S	124.635	E	33	N	4.7	1.1	34 SOUTHERN MOLOCCA SEA
12	18	54	44.7%	4.349	S	152.594	E	33	N	4.4	1.0	28 NEW BRITAIN REGION, P.N.G.
12	19	04	26.3%	59.952	N	153.697	W	145			12	SOUTHERN ALASKA. <AEIC>.
12	20	09	24.5%	34.867	S	179.913	W	64	D	4.7	1.0	25 SOUTH OF KERMADEC ISLANDS
12	20	13	05.1%	34.53	S	179.84	W	58	D	4.7	1.4	24 SOUTH OF KERMADEC ISLANDS
12	21	35	40.6%	12.736	N	143.208	E	133	*	4.3	0.6	17 SOUTH OF MARIANA ISLANDS
12	21	53	43.8%	67.296	N	165.984	W	10	G		1.4	11 NORTHERN ALASKA
12	23	15	56.3	44.842	N	6.623	E	5	G		1.0	12 FRANCE. ML 1.7 (LDG).
12	23	39	31.5%	16.653	N	147.328	E	33	N	3.7	1.0	14 MARIANA ISLANDS REGION
12	23	58	46.4%	0.778	N	27.926	W	10	G	4.4	1.5	10 CENTRAL MID-ATLANTIC RIDGE
13	00	01	09.4	36.886	N	70.781	E	100	G	5.0	0.8	168 HINDU KUSH REGION, AFGHANISTAN. Mw 4.9 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 00:01:06.2; Lat 36.32 N; Lon 70.55 E; Dep 49.3; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=-3.05, Plg=76, Azm=229; (N) Val=-0.30, Plg=14, Azm=49; (P) Val=-2.75, Plg=0, Azm=139; Best double couple: Mo=2.9*10**16 Nm; NP1: Strike=243, Dip=47, Slip=110; NP2: Strike=35, Dip=47, Slip=70.
13	00	49	25.3%	20.15	S	177.81	W	500	G	4.4	1.3	14 FIJI ISLANDS REGION
13	01	03	54.6%	31.85	S	70.22	W	130	G		0.3	8 CHILE-ARGENTINA BORDER REGION. MD 2.3 (SAN).
13	02	36	56.3%	4.585	S	102.941	E	100	G	3.7	1.1	11 SOUTHERN SUMATERA, INDONESIA
13	02	47	11.7%	3.567	S	68.414	E	10	G		0.9	19 CHAGOS ARCHIPELAGO REGION
13	03	13	23.4%	32.223	N	115.592	W	6	G		22	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 2.8 (PAS). MD 3.2 (ECX).
13	04	03	40.1%	36.153	N	71.195	E	150	G		1.4	10 AFGHANISTAN-TAJIKISTAN BORD REG.
13	04	05	05.2%	55.39	S	136.76	W	10	G		0.8	8 PACIFIC-ANTARCTIC RIDGE
13	04	45	04.8	25.030	N	125.770	E	55	D	6.0 5.6	1.0	390 SOUTHWESTERN RYUKYU ISLANDS. Mw 6.2 (GS), 6.2 (HRV). Me 5.7 (GS). Felt (IV JMA) on Miyako-jima. Broadband Source Parameters (GS): Dep 55; NP1: Strike=350, Dip=65, Slip=110; NP2: Strike=129, Dip=32, Slip=54; Radiated energy 8.3*10**12 Nm. Moment Tensor (GS): Dep 54; Principal axes (scale 10**18 Nm): (T) Val=1.98, Plg=67, Azm=279; (N) Val=-0.10, Plg=15, Azm=148; (P) Val=-1.88, Plg=16, Azm=54; Best double couple: Mo=1.9*10**18 Nm; NP1: Strike=122, Dip=32, Slip=60; NP2: Strike=336, Dip=63, Slip=107. Centroid, Moment Tensor (HRV): Centroid origin time 04:45:07.0; Lat 24.90 N; Lon 125.88 E; Dep 57.0 Bdy; Half-duration 2.9 sec; Principal axes (scale 10**18 Nm): (T) Val=1.69, Plg=73, Azm=303; (N) Val=0.32, Plg=14, Azm=162; (P) Val=-2.01, Plg=11, Azm=70; Best double couple: Mo=1.9*10**18 Nm; NP1: Strike=143, Dip=36, Slip=67; NP2: Strike=351, Dip=57, Slip=106.
13	05	20	39.3%	51.870	N	170.699	E	33	N	4.4	0.9	33 NEAR ISLANDS, ALEUTIAN ISLANDS
13	05	55	01.8%	17.661	S	175.144	W	280	D	4.0	1.0	14 TONGA ISLANDS
13	06	46	09.6%	62.095	N	152.545	W	0			41	CENTRAL ALASKA. <AEIC>. ML 3.2 (AEIC), 3.7 (PMR).
13	07	08	17.5	16.133	S	173.529	W	59	D	4.8 4.8	0.7	71 TONGA ISLANDS
13	07	09	19.0%	12.811	N	124.370	E	29	D	4.4	1.4	20 SAMAR, PHILIPPINE ISLANDS
13	07	29	16.9	38.123	N	31.452	W	10	G	4.8 4.6	1.0	127 AZORES ISLANDS REGION
13	08	13	33.4	29.430	N	105.604	E	37	D	4.8 4.3	0.8	83 SICHUAN, CHINA. Some damage in the Chongqing area. Also felt at Longchang.
13	08	29	05.0%	35.855	N	3.629	W	10	G		0.6	5 STRAIT OF GIBRALTAR. mbLg 3.1 (MDD).
13	10	01	28.6%	25.030	S	177.308	W	150	G	4.2	1.2	15 SOUTH OF FIJI ISLANDS
13	10	16	40.4%	1.24	N	98.94	E	33	N	4.0	0.9	5 NORTHERN SUMATERA, INDONESIA

13	11	10	44.3?	13.04	N	144.28	E	33	N	1.3	6	MARIANA ISLANDS	
13	11	42	02.1*	19.054	S	177.693	W	550	G	4.1	0.5	10	FIJI ISLANDS REGION
13	11	45	11.0	9.555	N	123.127	E	150	G	4.6	1.0	29	NEGROS, PHILIPPINE ISLANDS
13	11	58	14.5*	21.549	N	121.556	E	33	N	4.3	0.6	11	TAIWAN REGION
13	12	23	52.8*	11.955	N	87.671	W	33	N	4.4	1.3	31	NEAR COAST OF NICARAGUA
13	12	38	01.0?	42.96	N	0.80	E	10	G		0.3	4	PYRENEES. ML 2.6 (LDG).
13	14	23	30.3*	44.716	N	6.586	E	10	G		0.2	6	FRANCE
13	14	24	01.4	38.006	N	112.592	W	5	G		0.9	25	UTAH: ML 3.7 (GS).
13	14	30	10.9	41.909	N	79.699	E	33	N	5.0 4.6	0.8	174	KYRGYZSTAN-XINJIANG BORDER REG. Felt (III) at Almaty, Kazakhstan and Karakol, Kyrgyzstan.
13	14	43	56.5*	34.150	N	117.333	W	6				7	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS). Felt.
13	14	46	16.2	50.279	N	18.884	E	5	G		0.3	7	POLAND. ML 3.3 (VIE).
13	15	00	49.9*	20.535	N	97.968	E	33	N		1.4	14	MYANMAR
13	15	02	02.6*	32.293	N	115.126	W	6	G			21	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.0 (PAS). MD 3.4 (ECX). Felt in the epicentral area.
13	16	37	23.8*	11.969	S	117.879	E	33	N	3.8	1.0	6	SOUTH OF SUMBAWA, INDONESIA
13	17	17	56.0?	23.72	S	179.76	W	500	G	4.1	0.9	12	SOUTH OF FIJI ISLANDS
13	18	07	39.0*	16.731	S	175.873	E	33	N		0.9	13	FIJI ISLANDS REGION
13	18	41	49.2?	45.92	N	7.78	E	5	G		0.2	4	NORTHERN ITALY. ML 2.1 (LDG).
13	19	26	48.1	28.606	S	71.255	W	41	D	4.6	0.9	49	NEAR COAST OF CENTRAL CHILE. Felt (V) at Freirina, Huasco and Vallenar; (IV) at Alto del Carmen and Copiapo.
13	20	07	58.6	7.038	S	129.715	E	118	*	4.7	1.1	36	BANDA SEA
13	21	19	48.5*	33.178	S	70.852	W	10	G		0.3	9	CHILE-ARGENTINA BORDER REGION. MD 3.1 (SAN).
13	21	20	22.1*	9.698	S	111.462	E	33	N	3.9	1.1	7	SOUTH OF JAWA, INDONESIA
13	22	41	48.1*	9.290	S	110.230	E	33	N	4.2	1.2	13	SOUTH OF JAWA, INDONESIA
13	22	51	54.7*	58.139	S	25.216	W	33	N		1.0	10	SOUTH SANDWICH ISLANDS REGION
13	23	10	15.0*	31.211	N	76.694	E	33	N	4.2	1.2	8	NORTHERN INDIA
13	23	32	34.5*	32.965	S	70.351	W	100	G		0.1	8	CHILE-ARGENTINA BORDER REGION. MD 1.9 (SAN).
13	23	40	20.3	44.450	N	9.882	E	10	G		1.1	12	NORTHERN ITALY. ML 2.0 (LDG).
14	00	04	08.7	44.467	N	10.246	E	10	G		0.2	7	NORTHERN ITALY. ML 2.1 (VIE).
14	00	49	38.8	50.303	N	18.845	E	5	G		0.8	9	POLAND. ML 3.1 (VIE).
14	00	55	36.7	43.977	N	7.289	E	5	G		0.5	24	NEAR SOUTH COAST OF FRANCE. ML 2.1 (GEN), 1.6 (LDG).
14	02	22	53.6*	3.770	N	31.454	W	10	G		1.1	8	CENTRAL MID-ATLANTIC RIDGE
14	02	57	29.0*	25.304	N	124.309	E	125	D	4.4	1.1	32	NORTHEAST OF TAIWAN. Felt at Taipei and in much of Taiwan.
14	03	37	59.0	51.221	N	15.681	E	5	G		1.0	15	POLAND. ML 3.5 (GRF), 3.4 (VIE).
14	04	32	39.3?	43.66	N	147.01	E	33	N		0.4	6	KURIL ISLANDS
14	04	45	25.9?	18.80	N	146.52	E	33	N		0.7	6	MARIANA ISLANDS
14	05	16	39.0*	8.421	S	149.104	E	33	N	3.9	0.9	8	EAST

15	02	38	43.18	37.009 N	4.128 W	10 G	0.6	14	SPAIN. mbLg 3.1 (MDD).
15	02	39	50.78	37.005 N	4.200 W	10 G	0.8	8	SPAIN. mbLg 2.1 (MDD).
15	02	45	27.66	53.689 N	162.688 W	33		20	SOUTH OF ALASKA. <AEIC>. ML 3.8 (AEIC).
15	03	56	57.0*	51.014 N	15.741 E	5 G	0.8	5	POLAND. ML 3.4 (VIE).
15	04	01	19.1	12.129 N	143.965 E	33 N 4.6	1.2	29	SOUTH OF MARIANA ISLANDS
15	05	38	07.8	30.704 N	56.672 E	33 N 4.5 3.9	1.3	44	NORTHERN IRAN
15	05	57	57.66	60.778 N	151.564 W	71		34	KENAI PENINSULA, ALASKA. <AEIC>.
15	06	11	59.3	43.207 N	145.836 E	33 N 4.9 4.0	0.8	167	HOKKAIDO, JAPAN REGION
15	06	38	03.5	44.781 N	11.528 E	10 G	1.1	32	NORTHERN ITALY. ML 3.1 (VIE), 2.6 (LDG).
15	07	35	30.8	8.648 N	82.900 W	33 N 4.8	1.0	90	PANAMA-COSTA RICA BORDER REGION
15	07	37	49.0	4.373 S	105.698 W	10 G 5.3 5.8	1.2	105	CENTRAL EAST PACIFIC RISE. Mw 6.3 (GS), 6.2 (HRV). Me 6.3 (GS). Ms 6.1 (BRK).
Broadband Source Parameters (GS): Dep 10; NP1: Strike=0, Dip=88, Slip=170; NP2: Strike=90, Dip=80, Slip=2; Radiated energy 7.1*10**13 Nm. Two events about 3.0 seconds apart. Depth based on the second and larger event.									
Moment Tensor (GS): Dep 26; Principal axes (scale 10**18 Nm): (T) Val=-2.99, Plg=11, Azm=322; (N) Val=-0.02, Plg=73, Azm=193; (P) Val=-2.97, Plg=13, Azm=54; Best double couple: Mo=3.0*10**18 Nm; NP1: Strike=98, Dip=73, Slip=-2; NP2: Strike=188, Dip=89, Slip=-163.									
Centroid, Moment Tensor (HRV): Centroid origin time 07:37:55.6; Lat 4.39 S; Lon 105.95 W; Dep 15.0 Fix; Half-duration 3.0 sec; Principal axes (scale 10**18 Nm): (T) Val=-2.37, Plg=13, Azm=325; (N) Val=-0.03, Plg=75, Azm=174; (P) Val=-2.40, Plg=7, Azm=56; Best double couple: Mo=2.4*10**18 Nm; NP1: Strike=101, Dip=75, Slip=4; NP2: Strike=10, Dip=86, Slip=165.									
15	09	28	25.0*	11.699 S	122.021 E	33 N 4.5	1.1	6	SOUTH OF TIMOR, INDONESIA
15	10	00	47.38	48.628 N	149.856 E	350 G	1.1	13	NORTHWEST OF KURIL ISLANDS
15	10	42	55.8*	53.873 N	35.694 W	10 G 4.2	1.2	12	NORTH ATLANTIC OCEAN
15	11	07	25.88	44.021 N	7.006 E	10 G	0.5	6	NORTHERN ITALY. ML 1.8 (GEN).
15	11	28	54.28	37.522 N	4.531 W	10 G	1.0	11	SPAIN. mbLg 2.6 (MDD).
15	12	40	49.38	59.074 N	152.272 W	63		36	SOUTHERN ALASKA. <AEIC>. ML 2.8 (AEIC).
15	13	08	25.58	33.356 S	71.207 W	60 G	0.2	10	NEAR COAST OF CENTRAL CHILE
15	14	33	32.98	36.984 N	4.154 W	10 G	0.7	5	STRAIT OF GIBRALTAR. mbLg 2.1 (MDD).
15	15	18	48.68	61.908 N	150.444 W	42		41	SOUTHERN ALASKA. <AEIC>. ML 2.8 (AEIC), 3.0 (PMR).
15	16	08	20.2	38.426 N	142.163 E	40 D 4.5	1.1	35	NEAR EAST COAST OF HONSHU, JAPAN
15	16	23	53.18	54.402 N	161.476 W	0		13	ALASKA PENINSULA. <AEIC>. ML 3.3 (AEIC).
15	16	36	57.78	53.557 N	164.891 W	3		9	UNIMAK ISLAND REGION. <AEIC>. ML 3.1 (AEIC), 3.2 (PMR).
15	16	37	15.78	60.102 N	150.933 W	39		26	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.6 (AEIC).
15	17	10	21.28	45.915 N	2.867 E	5 G	1.3	7	FRANCE. ML 2.1 (LDG).
15	17	59	55.5*	9.183 S	76.750 W	100 G 4.3	1.2	14	CENTRAL PERU
15	18	08	37.58	59.069 N	136.757 W	10 G		45	SOUTHEASTERN ALASKA. <AEIC>. ML 3.7 (AEIC).
15	18	23	53.57	10.57 S	66.36 E	10 G 4.3	0.8	6	MID-INDIAN RIDGE
15	18	30	11.2	57.644 N	142.988 W	10 G	0.5	35	GULF OF ALASKA. ML 3.4 (AEIC).
15	18	39	56.07	17.49 S	179.13 E	600 G 4.4	0.9	26	FIJI ISLANDS
15	18	53	43.87	2.74 S	127.07 E	33 N 4.1	1.3	10	CERAM SEA
15	18	57	05.5*	71.849 N	0.879 W	10 G 4.2	1.4	33	JAN MAYEN ISLAND REGION
15	18	59	25.5*	43.423 N	77.973 E	10 G 3.9	1.5	13	LAKE ISSYK-KUL REGION
15	19	57	10.87	19.50 S	173.24 W	33 N 4.4	1.1	16	TONGA ISLANDS
15	20	40	18.18	53.413 N	167.162 W	105		7	FOX ISLANDS, ALEUTIAN ISLANDS. <AEIC>.
15	21	18	53.18	36.328 N	7.055 W	33 N	0.7	14	STRAIT OF GIBRALTAR. mbLg 3.4 (MDD).
15	21	23	29.6*	39.021 N	20.680 E	33 N 4.2	1.0	12	GREECE-ALBANIA BORDER REGION
15	22	33	28.08	45.878 N	2.812 E	5 G	0.5	5	FRANCE. ML 1.7 (LDG).
15	22	39	52.98	45.887 N	2.805 E	10 G	0.6	5	FRANCE. ML 2.0 (LDG).
15	22	53	31.2	5.899 S	81.030 W	33 N 4.8 5.1	1.2	123	NEAR COAST OF NORTHERN PERU. Mw 5.7 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 22:53:33.6; Lat 6.22 S; Lon 81.36 W; Dep 20.0 Bdy; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=4.25, Plg=68, Azm=86; (N) Val=-0.01, Plg=4, Azm=345; (P) Val=-4.24, Plg=21, Azm=254; Best double couple: Mo=4.2*10**17 Nm; NP1: Strike=336, Dip=24, Slip=80; NP2: Strike=167, Dip=66, Slip=95.									
16	00	44	27.7*	2.937 S	136.835 E	33 N 4.1	1.4	9	IRIAN JAYA REGION, INDONESIA
16	01	04	24.7	39.636 N	74.025 E	33 N 4.7 4.2	1.1	101	SOUTHERN XINJIANG, CHINA
16	01	14	27.98	32.149 N	115.785 W	6 G		2	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.0 (PAS). MD 3.3 (ECX).
16	01	47	43.68	13.539 N	120.951 E	33 N	1.2	5	MINDORO, PHILIPPINE ISLANDS
16	02	10	59.7*	72.835 N	57.225 E	10 G 3.2	1.4	7	NOVAYA ZEMLYA, RUSSIA
16	02	12	40.0*	24.147 S	66.796 W	202 * 4.4	0.9	11	SALTA PROVINCE, ARGENTINA
16	02	50	23.58	47.544 N	152.310 E	33 N	0.6	7	KURIL ISLANDS
16	02	52	42.88	36.402 N	120.352 W	9		3	CENTRAL CALIFORNIA. <GM-P>. MD 3.0 (GM). ML 3.0 (BRK); 2.8 (PAS).
16	04	22	28.2*	30.350 N	138.692 E	423 3.2	0.7	14	SOUTH OF HONSHU, JAPAN
16	04	52	44.68	43.266 N	27.793 E	10 G	0.9	9	BULGARIA
16	05	12	53.68	62.442 N	150.969 W	89 4.2		160	CENTRAL ALASKA. <AEIC>. Felt (III) at Willow and (II) at Anchorage.
16	05	59	56.2*	45.396 N	13.286 E	10 G	1.0	8	NORTHERN ITALY. ML 2.7 (VIE).
16	06	23	37.7	49.102 N	128.797 W	10 G	1.3	26	VANCOUVER ISLAND REGION. ML 3.7 (PGC).
16	07	20	32.5	36.813 N	1.375 E	10 G 3.3	1.4	68	NORTHERN ALGERIA. mbLg 3.8 (MDD).
16	07	21	55.4	43.553 N	7.188 E	5 G	0.8	10	NEAR SOUTH COAST OF FRANCE. ML 2.1 (LDG).
16	07	28	58.6*	36.346 N	69.459 E	37 D 4.3	1.4	19	HINDU KUSH REGION, AFGHANISTAN
16	07	48	03.67	11.11 N	60.74 W	10 G	1.4	6	WINDWARD ISLANDS
16	09	14	28.3	41.103 N	21.603 E	10 G 3.6	1.1	21	NORTHWESTERN BALKAN REGION
16	09	36	52.97	5.83 S	153.61 E	33 N 3.9	1.3	12	NEW IRELAND REGION, P.N.G.
16	09	57	25.9*	19.468 N	70.241 W	33 N	1.0	18	DOMINICAN REPUBLIC REGION
16	10	01	17.6*	21.157 S	174.643 W	33 N 4.3	1.2	15	TONGA ISLANDS
16	10	50	46.4	6.414 S	147.833 E	75 D 4.7	0.7	38	EASTERN NEW GUINEA REG., P.N.G.
16	11	20	14.7	43.933 N	7.756 E	5 G	0.9	43	NEAR SOUTH COAST OF FRANCE. ML 3.1 (GEN), 3.1 (STR), 2.9 (LDG).
16	11	27	29.6	43.938 N	7.708 E	5 G	0.5	13	NEAR SOUTH COAST OF FRANCE. ML 2.1 (GEN), 1.5 (LDG).
16	11	31	00.38	36.415 N	120.993 W	7		2	CENTRAL CALIFORNIA. <GM-P>. MD 2.9 (GM).

16	11	42	16.38	63.441 N	151.251 W	12				8	CENTRAL ALASKA. <AEIC>. ML 2.3 (AEIC), 2.8 (PMR).
16	12	08	33.2	37.868 N	142.036 E	47 D			1.1	21	OFF EAST COAST OF HONSHU, JAPAN
16	12	22	12.76	61.389 N	149.576 W	39				81	SOUTHERN ALASKA. <AEIC>. ML 2.8 (AEIC), 2.7 (PMR).
16	13	12	46.4*	42.890 N	145.332 E	51 D	4.3		1.1	25	HOKKAIDO, JAPAN REGION
16	13	47	42.6*	18.409 N	145.156 E	300 G	3.8		1.0	9	MARIANA ISLANDS
16	13	49	06.5*	52.883 S	143.201 E	10 G	4.7		1.1	25	WEST OF MACQUARIE ISLAND
16	14	07	19.6?	2.55 S	139.12 E	33 N	3.9		1.4	11	NEAR NORTH COAST OF IRIAN JAYA
16	14	12	10.8*	37.528 S	177.027 E	200 G	4.2		1.4	21	OFF E. COAST OF N. ISLAND, N.Z.
16	14	12	14.6*	29.854 N	68.235 E	33 N	4.0		0.9	11	PAKISTAN
16	14	14	11.8?	2.96 S	139.76 E	100 G	4.1		1.3	10	NEAR NORTH COAST OF IRIAN JAYA
16	14	24	48.4*	6.172 S	103.901 E	31 D	4.3		1.4	13	SOUTHWEST OF SUMATERA, INDONESIA
16	15	31	06.4*	47.533 N	152.256 E	100 G	4.1		0.8	10	KURIL ISLANDS
16	16	57	51.1*	51.755 N	177.507 W	33 N			1.1	9	ANDREANOF ISLANDS, ALEUTIAN IS.
16	16	58	38.28	11.024 N	60.979 W	5 G			0.7	6	WINDWARD ISLANDS
16	18	31	59.7?	16.49 S	172.70 W	33 N			0.9	9	SAMOA ISLANDS REGION
16	18	54	23.3*	10.478 N	145.073 E	33 N	4.4		0.9	25	SOUTH OF MARIANA ISLANDS
16	19	20	00.0?	23.64 S	175.33 W	33 N	4.2		0.3	7	TONGA ISLANDS REGION
16	19	29	03.2	0.057 N	127.214 E	141 *	4.4		0.8	33	HALMAHERA, INDONESIA
16	19	38	01.5*	21.591 S	178.114 W	400 G	3.9		1.0	18	FIIJIS ISLANDS REGION
16	19	39	20.8	44.520 N	7.499 E	5 G			1.0	14	NORTHERN ITALY. ML 2.2 (GEN), 1.6 (LDG).
16	20	03	23.8	21.992 S	68.337 W	121 D	4.6		0.9	33	CHILE-BOLIVIA BORDER REGION
16	20	19	01.8	44.499 N	6.879 E	5 G			0.4	18	FRANCE. ML 2.2 (GEN), 1.9 (LDG).
16	20	30	55.0*	30.022 N	86.224 E	33 N	4.4		0.8	13	XIZANG
16	20	59	08.8	46.182 N	12.408 E	10 G			0.7	12	NORTHERN ITALY. ML 2.7 (FUR), 2.7 (VIE).
16	21	18	18.4?	18.05 S	69.18 W	181 *			0.4	6	NORTHERN CHILE
16	21	40	16.8*	21.563 S	68.236 W	145 *	4.4		0.9	19	CHILE-BOLIVIA BORDER REGION
16	22	47	54.1	47.066 N	6.575 E	5 G			1.3	9	FRANCE. ML 2.0 (LDG).
16	22	48	03.16	56.969 N	154.324 W	0				6	KODIAK ISLAND REGION. <AEIC>. ML 3.1 (AEIC).
16	23	39	25.38	38.071 N	118.805 W	14				7	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.2 (GM). ML 3.2 (BRK).
17	00	10	22.2	30.347 N	96.922 E	65 *	4.8		0.5	14	XIZANG
17	00	26	25.76	59.917 N	153.213 W	121				39	SOUTHERN ALASKA. <AEIC>.
17	01	14	37.9*	34.464 N	26.456 E	33 N			1.3	10	CRETE
17	01	47	42.9	43.932 N	7.694 E	5 G			0.5	13	NEAR SOUTH COAST OF FRANCE. ML 1.8 (GEN), 1.4 (LDG).
17	01	56	07.1*	36.065 N	70.354 E	94 D	4.1		1.4	14	HINDU KUSH REGION, AFGHANISTAN
17	01	57	37.8?	15.89 S	178.66 W	33 N	4.3		1.2	9	FIIJIS ISLANDS REGION
17	02	26	49.8?	18.38 N	66.21 W	100 G			0.8	10	PUERTO RICO REGION. MD 3.5 (MPR).
17	02	35	05.68	39.601 N	16.183 E	10 G			0.6	5	SOUTHERN ITALY
17	02	50	40.9*	11.350 N	86.960 W	33 N	4.5		1.1	35	NEAR COAST OF NICARAGUA

17	20	11	10.7	13.592 S	167.391 E	26 *	5.4	6.1	1.2	183	VANUATU ISLANDS. Mw 6.0 (GS), 6.0 (HRV). Ms 6.3 (BRK). Moment Tensor (GS): Dep 22; Principal axes (scale 10**18 Nm): (T) Val=-1.01, Plg=7, Azm=318; (N) Val=0.07, Plg=78, Azm=194; (P) Val=-1.08, Plg=10, Azm=49; Best double couple: Mo=1.0*10**18 Nm; NP1: Strike=94, Dip=78, Slip=-2; NP2: Strike=184, Dip=88, Slip=-168. Centroid, Moment Tensor (HRV): Centroid origin time 20:11:13.8; Lat 13.56 S; Lon 167.61 E; Dep 15.0 Bdy; Half-duration 2.5 sec; Principal axes (scale 10**18 Nm): (T) Val=-1.03, Plg=8, Azm=316; (N) Val=0.24, Plg=68, Azm=206; (P) Val=-1.27, Plg=20, Azm=49; Best double couple: Mo=1.1*10**18 Nm; NP1: Strike=91, Dip=70, Slip=-9; NP2: Strike=184, Dip=81, Slip=-160.
17	20	20	09.74	34.323 N	118.460 W	8				3	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
17	21	55	31.6*	53.457 N	163.553 W	33 N			1.0	21	UNIMAK ISLAND REGION. ML 4.1 (PMR), 3.7 (AEIC).
17	22	36	56.47	4.30 S	153.70 E	33* N	4.2		1.0	10	NEW IRELAND REGION, P.N.G.
17	22	54	15.47	12.07 N	39.65 E	10 G			0.7	6	ETHIOPIA
17	23	03	30.5	25.028 N	128.225 E	33 N	4.8	4.2	0.9	29	RYUKYU ISLANDS
17	23	15	45.8*	13.501 S	167.600 E	33 N	4.5		1.1	33	VANUATU ISLANDS
18	00	13	55.3*	13.350 S	68.867 W	100 G			1.2	8	PERU-BOLIVIA BORDER REGION
18	00	42	55.37	11.92 N	124.94 E	33 N	4.3		0.9	9	LEYTE, PHILIPPINE ISLANDS
18	00	49	08.17	0.12 S	125.97 E	33 N	3.3		0.8	5	SOUTHERN MOLUCCA SEA
18	02	20	46.57	45.07 N	6.98 E	5 G			0.1	4	FRANCE. ML 1.4 (LDG).
18	03	18	23.3*	13.605 S	167.354 E	33 N	4.4		1.4	19	VANUATU ISLANDS
18	03	26	40.4*	18.260 N	101.320 W	118 ?	3.8		1.0	19	GUERRERO, MEXICO
18	04	14	32.8*	45.848 N	2.860 E	5 G			0.5	5	FRANCE. ML 1.7 (LDG).
18	04	16	54.6*	46.346 N	6.466 E	5 G			0.8	7	SWITZERLAND. ML 2.1 (LDG).
18	04	18	32.67	9.34 N	126.77 E	33 N	4.2		0.2	6	MINDANAO, PHILIPPINE ISLANDS
18	04	46	00.47	26.24 S	28.65 E	5 G			1.6	5	REPUBLIC OF SOUTH AFRICA
18	06	28	14.4*	37.390 N	118.691 W	13				3	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.8 (GM).
18	06	37	37.8*	24.826 N	95.038 E	102 D	4.3		0.7	10	MYANMAR
18	07	21	31.7*	6.544 S	130.476 E	33 N	4.3		1.3	8	BANDA SEA
18	07	41	15.5	2.456 S	143.363 E	33 N	4.7		1.2	24	NINIGO ISLANDS REGION, P.N.G.
18	08	08	45.67	10.30 N	126.60 E	33 N			1.5	9	PHILIPPINE ISLANDS REGION
18	08	52	44.97	82.32 N	4.48 W	10 G			1.2	9	NORTH OF SVALBARD
18	09	01	51.47	43.74 N	7.49 E	5 G			0.1	5	NEAR SOUTH COAST OF FRANCE. ML 2.3 (LDG).
18	09	09	27.3*	40.801 S	175.090 E	33 N			0.2	6	NORTH ISLAND, NEW ZEALAND. ML 3.8 (WEL). Felt at Wellington.
18	09	45	55.2*	10.426 S	105.369 E	33 N	4.5		0.8	9	SOUTH OF JAWA, INDONESIA
18	09	57	19.3*	13.654 S	167.692 E	33 N	4.2		1.2	13	VANUATU ISLANDS
18	10	00	22.7*	13.650 S	167.328 E	33 N	4.6		1.6	13	VANUATU ISLANDS
18	10	10	55.3	23.991 S	68.537 W	103 D	4.6		0.9	53	NORTHERN CHILE. Felt (IV) in the epicentral area and (II) at Antofagasta.
18	10	56	38.5	13.635 S	167.314 E	33 N	5.0	5.1	1.1	65	VANUATU ISLANDS. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 10:56:39.7; Lat 13.55 S; Lon 167.52 E; Dep 25.2; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=-1.64, Plg=29, Azm=157; (N) Val=-0.72, Plg=35, Azm=269; (P) Val=-0.93, Plg=42, Azm=37; Best double couple: Mo=1.3*10**17 Nm; NP1: Strike=195, Dip=36, Slip=-167; NP2: Strike=94, Dip=82, Slip=-55.
18	11	37	35.77	13.94 S	167.17 E	33 N			1.1	5	VANUATU ISLANDS
18	12	20	26.4*	68.535 N	144.820 W	10 G			1.0	7	NORTHERN ALASKA
18	12	24	26.2	29.931 S	72.006 W	33 N	5.0	5.0	1.1	97	OFF COAST OF CENTRAL CHILE. Mw 5.7 (HRV). Felt (IV) at La Higuera and La Serena. Centroid, Moment Tensor (HRV): Centroid origin time 12:24:30.8; Lat 30.08 S; Lon 72.42 W; Dep 15.0 Fix; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=-4.23, Plg=69, Azm=82; (N) Val=-0.19, Plg=3, Azm=178; (P) Val=-4.03, Plg=21, Azm=269; Best double couple: Mo=4.1*10**17 Nm; NP1: Strike=4, Dip=24, Slip=96; NP2: Strike=177, Dip=66, Slip=87.
18	13	15	46.8*	4.341 S	138.188 E	100 G	3.9		0.9	8	IRIAN JAYA, INDONESIA
18	13	57	03.24	63.156 N	150.856 W	139				40	CENTRAL ALASKA. <AEIC>.
18	14	37	49.2	16.678 S	173.177 W	33 N	4.8	5.2	1.1	73	TONGA ISLANDS. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 14:37:56.2; Lat 16.47 S; Lon 172.90 W; Dep 20.7; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.25, Plg=67, Azm=246; (N) Val=0.14, Plg=8, Azm=356; (P) Val=-2.40, Plg=21, Azm=89; Best double couple: Mo=2.3*10**17 Nm; NP1: Strike=194, Dip=25, Slip=110; NP2: Strike=352, Dip=66, Slip=81.
18	15	23	26.5*	10.554 S	161.461 E	33 N	3.9		1.1	15	SOLOMON ISLANDS
18	16	31	58.1*	17.298 S	178.518 W	473 D	4.3		0.8	19	FIJI ISLANDS REGION
18	17	26	26.5*	50.091 N	153.902 E	200 G			1.0	17	KURIL ISLANDS
18	17	56	39.87	35.20 S	106.71 W	10 G			1.2	14	SOUTHERN EAST PACIFIC RISE
18	18	01	45.8*	21.098 S	66.362 W	253 *	4.6		1.1	24	SOUTHERN BOLIVIA
18	18	57	13.6*	56.232 S	27.057 W	100 G	4.8		0.9	24	SOUTH SANDWICH ISLANDS REGION
18	21	50	51.67	0.33 N	125.74 E	33 N	4.0		1.2	8	NORTHERN MOLUCCA SEA
18	21	54	01.37	4.69 S	144.51 E	33 N	3.5		1.6	6	NEAR N COAST OF NEW GUINEA, PNG.
18	22	30	07.8*	36.859 N	3.138 W	10 G			0.7	6	STRAIT OF GIBRALTAR. mblg 2.9 (MDD).
18	23	17	46.5	10.882 S	165.860 E	33 N	4.9	4.6	0.9	85	SANTA CRUZ ISLANDS. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 23:17:50.7; Lat 11.17 S; Lon 165.79 E; Dep 38.0; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=-8.30, Plg=28, Azm=78; (N) Val=-1.43, Plg=2, Azm=169; (P) Val=-9.73, Plg=62, Azm=262; Best double couple: Mo=9.0*10**16 Nm; NP1: Strike=163, Dip=17, Slip=-96; NP2: Strike=349, Dip=73, Slip=-88.
18	23	44	10.6	17.245 N	100.162 W	33 N	4.0		0.9	30	GUERRERO, MEXICO
19	00	21	48.47	46.14 N	14.85 E	10 G			0.2	4	NORTHWESTERN BALKAN REGION. ML 1.5 (LJU).
19	00	23	58.57	21.86 S	168.56 E	33 N			0.9	8	LOYALTY ISLANDS
19	00	29	04.87	11.52 N	62.91 W	10 G	4.3		1.3	10	WINDWARD ISLANDS
19	00	54	19.27	47.35 N	0.31 E	5 G			0.4	4	FRANCE. ML 1.8 (LDG).

19	01	03	20.87	5.81	S	148.54	E	112	?	4.5	0.7	9	NEW BRITAIN REGION, P.N.G.
19	01	07	00.06	62.101	N	149.223	W	43			26	CENTRAL ALASKA. <AEIC>. ML 2.6 (AEIC), 3.0 (PMR).	
19	01	32	05.8*	9.763	N	126.290	E	33	N	4.3	1.1	21	MINDANAO, PHILIPPINE ISLANDS
19	02	55	36.3	28.773	S	64.459	W	33	N	4.3	0.9	28	SANTIAGO DEL ESTERO PROV., ARG. Slight damage in the Frias-Choya-Lavalle area. Felt at La Banda and Santiago del Estero.
19	03	05	40.77	8.26	S	127.88	E	150	G	4.5	1.0	13	TIMOR REGION, INDONESIA
19	03	11	56.17	6.96	S	153.74	E	33	N	4.4	1.3	5	NEW BRITAIN REGION, P.N.G.
19	03	19	55.6*	46.144	N	149.841	E	100	G	4.0	0.9	12	KURIL ISLANDS
19	04	26	29.8	24.902	N	123.298	E	33	N	4.8	1.2	30	SOUTHWESTERN RYUKYU ISLANDS
19	06	24	10.57	11.12	S	165.91	E	33	N	4.0	1.2	9	SANTA CRUZ ISLANDS
19	07	05	13.28	47.140	N	11.276	E	5	G		0.2	5	AUSTRIA. ML 1.4 (VIE).
19	07	27	20.27	16.24	S	173.39	W	33	N	4.6	0.5	7	TONGA ISLANDS
19	07	54	57.86	61.606	N	146.380	W	35			33	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).	
19	08	30	14.87	13.90	N	92.52	W	33	N	4.2	1.2	15	OFF COAST OF CHIAPAS, MEXICO
19	08	32	36.4	32.826	N	137.910	E	314		4.7	0.9	98	SOUTH OF HONSHU, JAPAN
19	09	17	21.3*	12.676	N	126.198	E	33	N	4.3	1.3	10	PHILIPPINE ISLANDS REGION
19	09	30	50.0*	46.033	N	153.364	E	33	N	4.1	1.2	26	KURIL ISLANDS
19	09	34	38.1*	15.661	S	173.647	W	33	N	4.8	1.0	52	TONGA ISLANDS
19	10	46	55.67	11.89	N	87.46	W	33	N		1.4	8	NEAR COAST OF NICARAGUA
19	10	48	45.87	8.77	S	157.64	E	33	N	4.2	1.1	12	SOLOMON ISLANDS
19	11	31	55.9*	32.645	S	68.983	W	20	G		0.6	10	MENDOZA PROVINCE, ARGENTINA. MD 4.0 (SAN).
19	11	33	29.8	6.713	N	126.427	E	69	*	5.4	1.0	60	MINDANAO, PHILIPPINE ISLANDS. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 11:33:27.5; Lat 7.05 N; Lon 126.15 E; Dep 45.9; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=0.99, Plg=31, Azm=156; (N) Val=0.25, Plg=25, Azm=262; (P) Val=-1.24, Plg=48, Azm=23; Best double couple: Mo=1.1*10**17 Nm; NPl: Strike=195, Dip=27, Slip=-159; NP2: Strike=87, Dip=81, Slip=-65.
19	11	45	03.9	13.776	S	167.347	E	33	N	4.6	0.9	27	VANUATU ISLANDS
19	13	41	00.87	17.29	S	174.01	W	33	N	4.1	1.0	7	TONGA ISLANDS
19	14	35	59.7*	53.663	N	170.655	E	33	N	4.1	0.6	8	NEAR ISLANDS, ALEUTIAN ISLANDS
19	14	43	12.76	60.136	N	152.655	W	99			19	SOUTHERN ALASKA. <AEIC>.	
19	15	01	38.0*	36.095	N	70.888	E	100	G	4.1	1.2	22	HINDU KUSH REGION, AFGHANISTAN
19	16	09	54.4*	13.418	N	144.812	E	101			0.5	12	MARIANA ISLANDS. Felt (III) at Andersen AFB, Guam.
19	16	12	15.2*	6.499	S	128.803	E	300	G	3.8	1.5	7	BANDA SEA
19	16	15	08.96	45.505	N	6.545	E	5	G		0.1	5	FRANCE. ML 1.7 (LDG).
19	16	16	26.36	41.667	N	125.776	W	5			1.1	7	OFF COAST OF NORTHERN CALIFORNIA. <GM-P>. MD 2.9 (GM).
19	16	21	30.66	36.049	N	93.969	E	33	N		1.1	10	QINGHAI, CHINA
19	16	27	32.66	43.214	N	3.204	W	10	G		0.9	11	SPAIN. ML 3.3 (LDG).
19	16	57	52.1	20.231	S	177.715	W	500	G	4.5	1.1	51	FIJI ISLANDS REGION
19	17	12	09.5	3.935	S	125.501	E	200	G	4.2	0.6	17	TALAUD ISLANDS, INDONESIA
19	17	30	33.9*	12.549	N	126.071	E	33	N	4.2	0.7	8	PHILIPPINE ISLANDS REGION
19	18	05	01.0*	0.188	S	124.483	E	100	G	4.2	1.3	15	SOUTHERN MOLUCCA SEA
19	18	12	17.57	27.05	S	66.89	E	10	G	4.1	0.5	6	SOUTH INDIAN OCEAN
19	18	18	42.6	23.602	S	66.392	W	211	*	4.4	1.0	49	JUJUY PROVINCE, ARGENTINA
19	18	37	41.3	42.548	N	139.187	E	200	G	4.3	0.8	40	HOKKAIDO, JAPAN REGION
19	18	49	56.1	45.018	N	6.775	E	5	G		0.6	13	FRANCE. ML 2.0 (GEN), 1.4 (LDG).
19	19	03	49.3*	40.058	N	21.397	E	33	N	3.7	1.4	15	GREECE
19	19	25	38.5	51.606	N	16.273	E	5	G		0.7	18	POLAND. ML 3.6 (GRF), 3.4 (VIE).
19	19	47	58.3	45.022	N	6.799	E	5	G		0.6	31	FRANCE. ML 2.6 (GEN), 2.5 (LDG).
19	19	49	33.6	14.303	N	92.410	W	33	N	4.6	1.1	95	NEAR COAST OF CHIAPAS, MEXICO
19	19	56	53.56	60.363	N	141.225	W	9			19	SOUTHEASTERN ALASKA. <AEIC>. ML 2.7 (AEIC).	
19	20	03	56.66	44.978	N	6.770	E	10	G		0.4	5	FRANCE. ML 1.5 (GEN).
19	20	09	12.97	17.44	S	178.45	W	500	G	4.1	1.0	14	FIJI ISLANDS REGION
19	20	28	48.87	13.59	S	167.79	E	33	N	4.0	1.5	11	VANUATU ISLANDS
19	20	51	11.7*	21.741	N	121.486	E	100	G	4.3	0.9	18	TAIWAN REGION
19	21	37	18.86	34.106	N	117.959	W	12			25	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).	
19	21	38	55.06	45.268	N	3.493	E	5	G		0.9	9	FRANCE. ML 2.3 (LDG).
19	22	35	56.0*	4.043	N	125.749	E	100	G	4.5	1.1	27	TALAUD ISLANDS, INDONESIA
19	23	57	17.8*	7.647	S	122.730	E	200	G	4.7	1.3	24	FLORES SEA
20	00	10	42.87	10.78	N	85.21	W	33	N		1.4	8	COSTA RICA
20	00	15	41.56	60.114	N	150.678	W	39			8	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.4 (AEIC), 2.5 (PMR).	
20	00	40	54.2*	11.755	N	86.509	W	48	D	4.5	1.4	25	NEAR COAST OF NICARAGUA
20	01	41	27.66	31.840	N	115.439	W	6	G		0.9	1	BAJA CALIFORNIA, MEXICO. <PAS-P>. ML 2.9 (PAS). MD 3.0 (ECX).
20	01	45	44.07	17.76	S	63.24	W	33	N		0.9	8	CENTRAL BOLIVIA
20	01	54	17.06	34.265	N	118.473	W	11			3	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.2 (PAS). Felt.	
20	02	43	59.6	36.381	N	4.737	W	97		4.1	0.9	66	STRAIT OF GIBRALTAR. MD 3.6 (MDD).
20	02	51	25.0*	15.433	S	173.246	W	33	N	4.2	0.7	14	TONGA ISLANDS
20	03	16	27.3*	25.101	N	140.637	E	100	G	4.9	1.1	10	VOLCANO ISLANDS REGION
20	03	44	06.1*	11.047	S	166.003	E	52	D	4.3	0.8	14	SANTA CRUZ ISLANDS
20	04	10	56.0	44.320	N	7.328	E	10	G		0.6	14	NORTHERN ITALY. ML 1.9 (GEN), 1.5 (LDG).
20	04	11	46.36	36.837	N	121.569	W	7			12	CENTRAL CALIFORNIA. <GM-P>. MD 3.1 (GM). ML 3.1 (BRK), 3.1 (GS).	
20	04	13	12.4*	4.330	N	124.172	E	250	G	4.4	0.5	13	CELEBES SEA
20	04	24	59.2*	16.136	S	177.603	E	33	N	4.8	0.5	14	FIJI ISLANDS
20	04	48	22.57	10.79	S	165.68	E	51	D	4.4	1.0	10	SANTA CRUZ ISLANDS
20	05	11	46.8	43.085	N	143.571	E	136	D	4.6	0.8	124	HOKKAIDO, JAPAN REGION
20	05	25	23.56	37.758	N	3.549	W	10	G		0.1	7	SPAIN. mbLg 2.5 (MDD).
20	05	48	21.37	57.72	S	26.59	W	100	G		0.9	6	SOUTH SANDWICH ISLANDS REGION
20	06	17	13.46	32.842	S	70.147	W	115	G		0.3	10	CHILE-ARGENTINA BORDER REGION. MD 3.6 (SAN).
20	06	38	10.07	3.60	N	95.71	E	33	N		0.9	8	OFF W COAST OF NORTHERN SUMATERA
20	07	03	38.87	23.96	N	120.59	E	33	N	3.7	0.4	7	TAIWAN
20	07	15	15.9	4.358	N	96.494	E	33	N	5.9	1.2	292	NORTHERN SUMATERA, INDONESIA. Mw 6.0 (GS), 6.0 (HRV). Me 5.8 (GS). Several hundred houses destroyed in Aceh. Felt at Banda Aceh, Medan and other parts of northern Sumatra. Felt at Alor Setar, Petaling Jaya, Pinang and Shah Alam, Malaysia. Also felt at Ban Hat Yai and Songkhla, Thailand. Broadband Source Parameters (GS): Dep 12; NPl: Strike=35, Dip=30, Slip=60; NP2: Strike=249, Dip=64, Slip=106; Radiated energy 1.1*10**13 Nm. Moment Tensor (GS): Dep 36; Principal axes (scale 10**18

Nm): (T) Val=-1.17, Plg=5, Azm=250; (N) Val=0.00, Plg=85, Azm=77; (P) Val=-1.18, Plg=1, Azm=340; Best double couple: Mo=1.2*10**18 Nm; NP1: Strike=25, Dip=86, Slip=3; NP2: Strike=294, Dip=87, Slip=176.

Centroid, Moment Tensor (HRV): Centroid origin time 07:15:19.9; Lat 4.50 N; Lon 96.66 E; Dep 15.0 Fix; Half-duration 2.4 sec; Principal axes (scale 10**18 Nm): (T) Val=-1.07, Plg=8, Azm=250; (N) Val=0.08, Plg=74, Azm=129; (P) Val=-1.15, Plg=13, Azm=342; Best double couple: Mo=1.1*10**18 Nm; NP1: Strike=25, Dip=75, Slip=-4; NP2: Strike=116, Dip=87, Slip=-165.

20	07	56	58.6?	31.73	S	69.70	W	160	G	0.3	9	SAN JUAN PROVINCE, ARGENTINA. MD 3.2 (SAN).
20	08	02	41.2&	60.089	N	153.314	W	149		103	SOUTHERN ALASKA. <AEIC>.	
20	09	12	04.0&	47.530	N	70.290	W	18	G	1	SOUTHERN QUEBEC, CANADA. <OTT-P>. mbLg 3.7 (OTT). Felt at Baie-St.-Paul, Clermont, La Malbaie, St.-Hilarion and St.-Urbain.	
20	09	30	24.1?	32.35	S	71.90	W	10	G	0.3	10	NEAR COAST OF CENTRAL CHILE. MD 4.1 (SAN).
20	09	30	49.0	44.921	N	6.681	E	10	G	0.8	15	FRANCE. ML 1.9 (GEN), 1.8 (LDG).
20	09	32	35.3*	5.771	S	149.418	E	33	N	0.7	13	NEW BRITAIN REGION, P.N.G.
20	10	11	47.5*	23.508	N	142.732	E	33	N	0.8	10	VOLCANO ISLANDS REGION
20	10	19	15.3?	4.26	S	153.45	E	129	D	0.8	9	NEW IRELAND REGION, P.N.G.
20	10	47	04.6*	17.351	S	178.926	W	550	G	0.7	19	FIJI ISLANDS REGION
20	10	51	29.3?	17.01	S	179.28	W	550	G	0.4	9	FIJI ISLANDS REGION
20	11	30	20.5&	44.307	N	7.453	E	5	G	0.2	8	NORTHERN ITALY. ML 2.0 (LDG).
20	12	05	35.9&	63.263	N	151.032	W	6			7	CENTRAL ALASKA. <AEIC>. ML 2.3 (AEIC), 2.6 (PMR).
20	12	07	28.8*	40.370	N	126.720	W	10	G	0.6	18	OFF COAST OF NORTHERN CALIFORNIA
20	12	19	26.1&	61.717	N	151.663	W	92			41	SOUTHERN ALASKA. <AEIC>.
20	12	26	33.9*	6.999	N	72.809	W	150	G	1.1	14	NORTHERN COLOMBIA
20	12	27	48.8*	25.818	N	125.331	E	33	N	1.4	14	SOUTHWESTERN RYUKYU ISLANDS
20	12	50	20.1?	7.11	S	123.11	E	300	G	1.4	7	BANDA SEA
20	13	19	57.0?	23.42	S	179.27	W	500	G	1.5	10	SOUTH OF FIJI ISLANDS
20	13	51	16.6	41.715	S	80.134	E	10	G	5.6 6.4 1.3	93	MID-INDIAN RIDGE. Mw 6.5 (GS), 6.5 (HRV). Me 6.9 (GS). Broadband Source Parameters (GS): Dep 6; NP1: Strike=140, Dip=88, Slip=-2; NP2: Strike=230, Dip=88, Slip=-178; Radiated energy 4.5*10**14 Nm. Moment Tensor (GS): Dep 8; Principal axes (scale 10**18 Nm): (T) Val=5.65, Plg=8, Azm=181; (N) Val=0.33, Plg=79, Azm=44; (P) Val=-5.99, Plg=7, Azm=272; Best double couple: Mo=5.8*10**18 Nm; NP1: Strike=317, Dip=79, Slip=1; NP2: Strike=227, Dip=89, Slip=169. Centroid, Moment Tensor (HRV): Centroid origin time 13:51:25.4; Lat 41.43 S; Lon 79.99 E; Dep 15.0 Fix; Half-duration 4.0 sec; Principal axes (scale 10**18 Nm): (T) Val=5.80, Plg=3, Azm=4; (N) Val=-0.13, Plg=85, Azm=239; (P) Val=-5.67, Plg=4, Azm=94; Best double couple: Mo=5.7*10**18 Nm; NP1: Strike=139, Dip=85, Slip=-1; NP2: Strike=229, Dip=89, Slip=-175.
20	14	14	26.1	45.006	N	6.831	E	5	G	0.7	22	FRANCE. ML 2.4 (GEN), 2.3 (LDG).
20	14	37	48.9&	38.756	N	119.622	W	0			18	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.4 (GM). ML 3.4 (BRK), 3.3 (GS).
20	14	43	03.0&	60.109	N	152.983	W	120			79	SOUTHERN ALASKA. <AEIC>.
20	14	49	40.8*	21.182	S	68.746	W	100	G	4.3 1.0	16	CHILE-BOLIVIA BORDER REGION
20	14	51	37.9*	24.367	N	122.866	E	150	G	4.1 0.6	11	TAIWAN REGION
20	15	42	19.2*	3.497	S	127.491	E	33	N	4.5 1.4	29	SERAM, INDONESIA
20	15	45	11.9	53.640	N	163.973	W	10	G	1.2	18	UNIMAK ISLAND REGION. ML 4.0 (PMR), 3.7 (AEIC).
20	16	26	34.1	45.255	N	150.717	E	33	N	4.6 0.9	29	KURIL ISLANDS
20	17	23	24.3&	59.538	N	152.448	W	75			81	SOUTHERN ALASKA. <AEIC>.
20	18	01	30.7?	33.19	S	70.31	W	90	G	0.4	6	CHILE-ARGENTINA BORDER REGION. MD 2.3 (SAN).
20	18	16	55.9	17.558	S	116.819	E	33	N	3.8 0.8	14	NORTHWEST OF AUSTRALIA
20	18	59	13.5*	79.016	N	18.378	W	10	G	3.8 1.1	11	EASTERN GREENLAND
20	19	48	19.4&	62.000	N	150.059	W	42			5	CENTRAL ALASKA. <AEIC>. ML 2.4 (AEIC), 2.5 (PMR).
20	20	03	22.6?	3.04	S	130.57	E	33	N	3.7 1.1	8	SERAM, INDONESIA
20	20	19	15.4*	0.798	N	97.454	E	33	N	3.9 1.1	15	NORTHERN SUMATERA, INDONESIA
20	20	57	29.1	44.524	N	6.922	E	10	G	0.8	18	FRANCE. ML 2.1 (GEN), 2.0 (LDG).
20	21	28	41.8*	21.594	N	143.142	E	250	G	3.7 1.0	12	MARIANA ISLANDS REGION
20	22	10	11.2&	38.793	N	90.655	E	33	N	1.0 7	7	SOUTHERN XINJIANG, CHINA
20	22	16	39.8	45.187	N	28.001	W	10	G	4.2 3.7 1.2	42	NORTHERN MID-ATLANTIC RIDGE
20	22	28	54.1	29.529	S	70.322	W	93	D	4.7 0.9	39	CENTRAL CHILE. Felt (III) at Copiapo, Huasco, La Serena and Vallenar.
20	22	53	49.9	10.353	N	86.487	W	33	N	4.7 4.4 1.1	71	OFF COAST OF COSTA RICA
20	23	02	49.0&	54.476	N	166.161	W	21			7	FOX ISLANDS, ALEUTIAN ISLANDS. <AEIC>. ML 2.5 (AEIC).
20	23	18	23.1?	18.67	N	66.46	W	50	G	0.4 7	7	PUERTO RICO REGION. MD 2.8 (MPR).
20	23	59	23.1	36.671	N	1.606	E	10	G	0.9 29	29	NORTHERN ALGERIA. mbLg 3.6 (MDD). ML 3.2 (LDG).
21	01	29	05.2&	34.182	N	118.524	W	7			34	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS), 3.2 (GS). Felt in the San Fernando Valley.
21	01	42	41.4*	18.622	S	71.013	W	71	*	4.2 1.2	22	OFF COAST OF NORTHERN CHILE
21	03	22	11.4	23.992	S	66.729	W	200	G	4.3 0.8	20	JUJUY PROVINCE, ARGENTINA
21	04	49	12.6?	16.38	N	46.55	W	10	G	4.3 0.6	8	NORTHERN MID-ATLANTIC RIDGE
21	04	52	29.2*	36.396	N	70.244	E	211	D	4.5 1.2	12	HINDU KUSH REGION, AFGHANISTAN
21	05	31	26.7&	40.347	N	124.426	W	23			6	NEAR COAST OF NORTHERN CALIF. <GM-P>. MD 2.9 (GM).
21	08	20	44.0&	43.772	N	7.434	E	5	G	0.2 5	5	NEAR SOUTH COAST OF FRANCE. ML 2.3 (LDG).
21	08	45	56.9*	3.640	S	140.363	E	33	N	4.2 0.9	10	IRIAN JAYA, INDONESIA
21	08	49	42.6&	45.118	N	28.360	E	10	G	1.4 7	7	UKRAINE-MOLDOVA-SW RUSSIA REGION
21	10	42	37.8&	56.369	N	115.764	E	10	G	0.9 6	6	EAST OF LAKE BAYKAL, RUSSIA
21	10	56	48.6&	16.610	N	95.337	W	100	G	1.0 8	8	OAXACA, MEXICO
21	10	58	13.1	51.721	N	16.053	E	5	G	1.5 14	14	POLAND. ML 3.3 (VIE).
21	12	01	07.9&	59.727	N	152.355	W	80			15	SOUTHERN ALASKA. <AEIC>.
21	12	20	30.2*	3.430	S	137.975	E	33	N	3.9 1.2	10	IRIAN JAYA, INDONESIA
21	13	17	06.0*	17.461	N	94.351	W	148	D	4.2 1.2	22	CHIAPAS, MEXICO
21	13	48	45.1	5.339	S	146.501	E	100	G	4.8 0.9	37	EASTERN NEW GUINEA REG., P.N.G.
21	14	31	05.4&	65.205	N	146.530	W	7			12	NORTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).
21	14	39	42.1?	16.51	S	75.65	W	33	N	1.2 7	7	OFF COAST OF PERU
21	15	35	33.6	38.588	N	118.496	W	10	G	0.9 45	45	CALIFORNIA-NEVADA BORDER REGION. Mw 3.9 (BRK). MD 4.2 (REN),

4.1 (GM). ML 4.2 (BRK), 4.0 (GS). Felt at Hawthorne, Nevada.
Moment Tensor (BRK): Dep 14; Principal axes (scale 10**14 Nm): (T) Val=-7.20, Plg=28, Azm=105; (N) Val=0.00, Plg=42, Azm=347; (P) Val=-7.20, Plg=36, Azm=217; Best double couple: Mo=7.2*10**14 Nm; NP1: Strike=343, Dip=85, Slip=-132; NP2: Strike=247, Dip=42, Slip=-7.

21 15 44 47.1 45.030 N 6.979 E 10 G 0.5 5 FRANCE. ML 1.8 (GEN).
21 15 52 15.0 36.815 N 22.652 E 33 N 3.7 1.3 11 SOUTHERN GREECE
21 16 02 29.6 32.01 S 69.54 W 160 G 0.2 9 MENDOZA PROVINCE, ARGENTINA. MD 2.6 (SAN).
21 16 11 24.5 38.571 N 118.503 W 10 G 4.2 0.8 65 CALIFORNIA-NEVADA BORDER REGION. Mw 4.5 (BRK). MD 4.6 (REN), 4.5 (GM). ML 4.9 (BRK), 4.6 (GS). Felt strongly at Hawthorne, Nevada. Felt at Dyer and in the Reno, Nevada area. Also felt in the Lake Tahoe area.
Moment Tensor (BRK): Dep 12; Principal axes (scale 10**15 Nm): (T) Val=-7.10, Plg=23, Azm=105; (N) Val=0.00, Plg=44, Azm=350; (P) Val=-7.10, Plg=36, Azm=214; Best double couple: Mo=7.1*10**15 Nm; NP1: Strike=342, Dip=82, Slip=-135; NP2: Strike=244, Dip=46, Slip=-11.

21 16 31 18.5 65.203 N 146.498 W 0
21 16 36 47.2 38.563 N 118.489 W 10 G 4.1 1.0 13 NORTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).
66 CALIFORNIA-NEVADA BORDER REGION. Mw 4.4 (BRK). ML 4.8 (BRK), 4.6 (GS). MD 4.5 (REN), 4.4 (GM). Felt strongly at Hawthorne, Nevada. Felt at Dyer and in the Reno, Nevada area. Also felt in the Lake Tahoe area.
Moment Tensor (BRK): Dep 12; Principal axes (scale 10**15 Nm): (T) Val=-5.00, Plg=18, Azm=113; (N) Val=0.00, Plg=50, Azm=1; (P) Val=-5.00, Plg=35, Azm=215; Best double couple: Mo=5.0*10**15 Nm; NP1: Strike=348, Dip=79, Slip=-141; NP2: Strike=249, Dip=52, Slip=-14.

21 19 11 18.5 61.248 N 146.136 W 21
21 19 13 14.0 32.412 N 48.934 E 33 N 4.5 4.7 0.9 26 SOUTHERN ALASKA. <AEIC>. ML 3.1 (AEIC).
21 19 18 49.7 10.892 N 124.459 E 74 * 4.8 1.1 27 WESTERN IRAN
21 19 27 25.4 58.916 N 154.468 W 118 41 LEYTE, PHILIPPINE ISLANDS
21 19 31 32.5 15.007 N 147.008 E 33 N 0.8 60 ALASKA PENINSULA. <AEIC>.
21 19 52 55.8 1.946 N 99.011 E 134 D 4.4 1.0 10 MARIANA ISLANDS REGION
21 20 01 12.0 36.342 N 140.620 E 66 * 0.7 21 NORTHERN SUMATERA, INDONESIA
21 20 27 23.6 7.127 N 126.864 E 55 5.0 4.6 1.2 13 NEAR EAST COAST OF HONSHU, JAPAN
75 MINDANAO, PHILIPPINE ISLANDS. Mw 5.2 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 20:27:28.5; Lat 7.13 N Fix; Lon 126.86 E Fix; Dep 24.6; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=-6.29, Plg=61, Azm=296; (N) Val=-0.40, Plg=1, Azm=29; (P) Val=-5.89, Plg=29, Azm=119; Best double couple: Mo=6.1*10**16 Nm; NP1: Strike=213, Dip=16, Slip=94; NP2: Strike=28, Dip=74, Slip=89.

21 21 41 34.0 13.38 S 166.13 E 33 N 4.2 0.8 7 VANUATU ISLANDS
21 22 01 17.0 8.868 N 126.459 E 33 N 4.0 1.5 13 MINDANAO, PHILIPPINE ISLANDS
21 22 05 58.1 49.829 N 18.434 E 10 G 0.8 8 CZECH AND SLOVAK REPUBLICS. ML 3.4 (GRF).
21 22 41 18.9 29.556 N 130.553 E 45 D 1.4 12 RYUKYU ISLANDS
21 22 57 52.8 49.07 N 152.05 E 259 D 3.5 1.3 10 NORTHWEST OF KURIL ISLANDS
21 23 17 36.1 2.464 S 77.556 W 33 N 4.3 1.0 16 PERU-ECUADOR BORDER REGION
21 23 42 00.9 33.751 S 70.659 W 90 G 0.2 9 CHILE-ARGENTINA BORDER REGION. MD 2.7 (SAN).
22 02 33 41.2 47.774 N 6.642 E 10 G 0.8 6 FRANCE. ML 2.1 (LDG).
22 02 45 21.7 3.381 N 127.957 E 145 D 5.2 0.9 114 TALAUD ISLANDS, INDONESIA. Mw 5.2 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 02:45:21.8; Lat 3.38 N Fix; Lon 127.96 E Fix; Dep 135.0; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=-6.72, Plg=14, Azm=335; (N) Val=-0.56, Plg=4, Azm=244; (P) Val=-6.16, Plg=75, Azm=140; Best double couple: Mo=6.4*10**16 Nm; NP1: Strike=70, Dip=31, Slip=-83; NP2: Strike=242, Dip=60, Slip=-94.

22 03 09 41.8 40.240 N 21.799 E 33 N 4.0 1.3 24 GREECE
22 03 17 47.9 40.189 N 21.570 E 33 N 4.2 1.3 84 GREECE. ML 4.2 (ROM).
22 07 41 13.7 54.580 N 163.213 W 10 6 UNIMAK ISLAND REGION. <AEIC>. ML 2.7 (AEIC).
22 08 11 23.8 36.132 N 139.911 E 81 4.5 0.9 38 EASTERN HONSHU, JAPAN
22 08 36 07.7 1.153 N 100.109 E 200 G 4.3 0.9 20 NORTHERN SUMATERA, INDONESIA
22 09 56 17.0 44.312 N 7.544 E 5 G 0.4 6 NORTHERN ITALY. ML 2.3 (LDG).
22 09 59 08.3 44.294 N 7.594 E 5 G 0.3 6 NORTHERN ITALY. ML 2.3 (LDG).
22 10 00 26.0 28.370 S 179.350 W 396 * 4.3 1.1 38 KERMADEC ISLANDS REGION
22 11 44 18.1 30.686 N 138.655 E 387 0.7 17 SOUTH OF HONSHU, JAPAN
22 11 45 47.1 5.493 S 145.820 E 33 N 4.3 0.9 25 EASTERN NEW GUINEA REG., P.N.G.
22 12 53 02.0 54.484 N 161.493 W 0 12 ALASKA PENINSULA. <AEIC>. ML 3.4 (AEIC).
22 13 12 26.6 32.53 S 71.93 W 10 G 0.3 9 NEAR COAST OF CENTRAL CHILE. MD 4.0 (SAN).
22 13 24 01.7 41.463 S 173.917 E 52 0.8 19 SOUTH ISLAND, NEW ZEALAND. Felt from Christchurch on the South Island to Wellington on the North Island.
10 CENTRAL CALIFORNIA. <GM-P>. MD 3.0 (GM). ML 3.0 (BRK), 2.9 (GS).

22 13 26 13.6 6.399 S 130.211 E 100 G 4.1 1.6 11 BANDA SEA
22 13 39 07.6 54.436 N 161.771 W 20 11 ALASKA PENINSULA. <AEIC>. ML 2.8 (AEIC).
22 14 24 20.9 45.83 N 5.36 E 10 G 0.5 4 FRANCE. ML 2.0 (LDG).
22 16 41 14.1 51.601 N 16.182 E 5 G 0.8 26 POLAND. ML 3.6 (GRF), 3.4 (VIE).
22 17 17 49.5 51.111 N 174.871 E 33 N 4.3 0.7 15 NEAR ISLANDS, ALEUTIAN ISLANDS
22 17 25 01.9 6.179 S 130.311 E 100 G 3.7 0.7 5 BANDA SEA
22 18 04 43.0 41.411 S 174.056 E 33 N 0.8 7 COOK STRAIT, NEW ZEALAND. ML 4.7 (WEL). Felt at Blenheim on the South Island.

22 19 02 02.3 8.453 N 63.261 W 10 G 4.2 1.3 25 VENEZUELA. Felt in the San Jose de Guanipa area.
22 19 16 55.4 18.21 N 67.14 W 33 N 0.2 4 MONA PASSAGE. MD 2.2 (MPR).
22 19 48 09.3 50.489 N 18.885 E 10 G 1.1 6 POLAND. MG 2.9 (WAR).
22 20 18 43.6 50.546 N 18.990 E 10 G 1.3 9 POLAND. ML 2.4 (BRA).
22 20 49 18.5 14.306 S 167.141 E 33 N 4.4 1.0 27 VANUATU ISLANDS
22 21 05 51.3 46.434 N 1.945 W 10 G 0.7 13 FRANCE. ML 2.9 (LDG).
22 22 35 47.5 2.69 S 139.45 E 33 N 3.4 1.3 7 NEAR NORTH COAST OF IRIAN JAYA
22 22 37 12.6 35.373 N 137.211 E 300 G 3.8 1.3 14 EASTERN HONSHU, JAPAN
22 22 50 18.6 12.601 N 126.408 E 33 N 4.7 1.0 7 PHILIPPINE ISLANDS REGION
22 22 55 53.0 33.815 N 25.401 E 33 N 4.1 1.3 52 EASTERN MEDITERRANEAN SEA

23	00	32	26.3	36.303 N	27.944 E	33 N	3.7	0.8	27	DODECANESE ISLANDS
23	01	16	14.6*	51.467 N	16.289 E	5 G		0.9	5	POLAND. ML 3.1 (VIE), 2.8 (GRF).
23	01	17	25.6*	5.407 S	147.192 E	200 G	4.6	0.8	15	EASTERN NEW GUINEA REG., P.N.G.
23	02	03	59.0%	63.249 N	150.982 W	8			50	CENTRAL ALASKA. <AEIC>. ML 2.7 (AEIC), 3.1 (PMR).
23	04	09	51.5%	58.473 N	153.517 W	54			30	KODIAK ISLAND REGION. <AEIC>. ML 2.5 (AEIC).
23	04	28	49.5	44.386 N	7.112 E	5 G		0.5	15	NORTHERN ITALY. ML 2.0 (GEN), 1.5 (LDG).
23	05	40	59.0	14.669 N	147.083 E	20 G	4.4	0.9	23	MARIANA ISLANDS REGION
23	06	02	50.1	50.514 N	18.977 E	5 G		0.6	7	POLAND. MG 2.8 (WAR).
23	06	08	21.5	34.196 N	140.046 E	104 D		0.9	11	NEAR EAST COAST OF HONSHU, JAPAN
23	06	15	29.5%	45.389 N	6.590 E	5 G		1.5	5	FRANCE. ML 1.7 (LDG).
23	06	17	23.3*	28.873 N	138.949 E	467 *	3.7	1.0	21	BONIN ISLANDS REGION
23	06	22	06.8*	17.729 S	178.517 W	600 G	4.3	1.0	26	FIJI ISLANDS REGION
23	07	17	59.5*	52.427 N	158.919 E	75 D	4.2	0.5	12	NEAR EAST COAST OF KAMCHATKA
23	07	49	01.1%	40.393 N	125.185 W	1			19	OFF COAST OF NORTHERN CALIFORNIA. <GM-P>. Mw 4.0 (BRK). MD 3.6 (GM). ML 3.6 (GS), 3.6 (BRK). Moment Tensor (BRK): Dep 5; Principal axes (scale 10**15 Nm): (T) Val=-1.13, Plg=5, Azm=51; (N) Val=0.00, Plg=77, Azm=163; (P) Val=-1.13, Plg=12, Azm=320; Best double couple: Mo=-1.1*10**15 Nm; NP1: Strike=5, Dip=85, Slip=-12; NP2: Strike=96, Dip=78, Slip=-175.
23	07	52	51.4	46.733 N	152.874 E	71 D	4.6	0.8	56	KURIL ISLANDS
23	08	07	45.6*	2.957 S	129.719 E	50 ?	4.5	1.5	19	SERAM, INDONESIA
23	09	22	38.1%	63.510 N	151.211 W	12			6	CENTRAL ALASKA. <AEIC>. ML 2.2 (AEIC), 2.5 (PMR).
23	09	26	11.3?	18.10 S	178.16 W	500 G	3.8	1.1	11	FIJI ISLANDS REGION
23	09	56	43.8*	5.232 S	154.195 E	100 G	3.8	0.6	11	SOLOMON ISLANDS
23	10	46	33.9*	51.316 N	176.021 W	33 N	4.1	1.4	9	ANDREANOF ISLANDS, ALEUTIAN IS.
23	10	47	23.3*	13.720 S	167.499 E	33 N	4.4	1.2	13	VANUATU ISLANDS
23	12	33	09.3%	37.504 N	118.849 W	15			21	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.3 (GM). ML 3.3 (BRK), 3.3 (GS).
23	15	07	14.8%	46.486 N	1.244 E	5 G		0.9	23	FRANCE. ML 3.7 (LDG).
23	16	52	05.1	38.639 N	22.806 E	10 G	4.6	1.1	23	GREECE
23	17	21	57.0*	38.297 N	25.167 E	33 N	3.8	1.3	17	AEGEAN SEA
23	17	30	37.1	41.595 S	146.359 E	10 G	4.0	0.8	17	TASMANIA REGION, AUSTRALIA
23	17	43	55.3?	39.17 S	16.04 W	10 G	4.3	1.3	6	SOUTHERN MID-ATLANTIC RIDGE
23	18	33	44.1	5.371 N	126.325 E	49 *	4.9 4.4	1.2	77	MINDANAO, PHILIPPINE ISLANDS. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 18:33:42.1; Lat 5.19 N; Lon 127.08 E; Dep 34.6; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=7.54, Plg=60, Azm=352; (N) Val=-0.03, Plg=22, Azm=217; (P) Val=-7.51, Plg=19, Azm=119; Best double couple: Mo=7.5*10**16 Nm; NP1: Strike=177, Dip=32, Slip=45; NP2: Strike=47, Dip=68, Slip=114.
23	18	41	55.5*	55.752 N	160.416 E	200 G	3.4	0.7	13	KAMCHATKA
23	18	54	53.6%	43.855 N	6.827 E	5 G		0.5	7	NEAR SOUTH COAST OF FRANCE. ML 1.9 (LDG).
23	19	20	29.0%	57.678 N	153.699 W	54			67	KODIAK ISLAND REGION. <AEIC>. ML 3.0 (AEIC).
23	19	37	55.0	25.742 N	128.941 E	46 D	4.4	1.1	24	RYUKYU ISLANDS
23	19	47	14.2	51.647 N	16.150 E	5 G		0.7	14	POLAND. ML 3.4 (GRF), 3.4 (VIE).
23	20	31	06.6*	23.841 N	94.871 E	200 G	3.6	0.6	13	MYANMAR-INDIA BORDER REGION
23	21	38	51.9	0.286 S	137.033 E	34 D	4.6	0.8	27	IRIAN JAYA REGION, INDONESIA
23	22	15	55.5	5.419 S	153.618 E	33 ?	4.6	0.9	22	NEW IRELAND REGION, P.N.G.
23	23	26	24.6	44.783 N	8.030 E	10 G		1.1	20	NORTHERN ITALY. ML 2.2 (GEN), 1.8 (LDG).
23	23	44	44.3	43.693 N	7.055 E	5 G		1.2	22	NEAR SOUTH COAST OF FRANCE. ML 2.0 (LDG).
23	23	52	34.7?	34.81 S	71.12 W	80 G		0.2	8	NEAR COAST OF CENTRAL CHILE
23	23	58	18.2?	55.93 S	124.14 W	10 G		1.5	9	SOUTHERN EAST PACIFIC RISE
24	00	59	51.6	13.549 N	89.589 W	139 *	5.1	1.0	226	EL SALVADOR. Mw 5.6 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 00:59:46.8; Lat 13.40 N; Lon 89.91 W; Dep 38.4; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=3.07, Plg=21, Azm=13; (N) Val=-0.47, Plg=36, Azm=119; (P) Val=-2.60, Plg=47, Azm=259; Best double couple: Mo=2.8*10**17 Nm; NP1: Strike=59, Dip=40, Slip=-156; NP2: Strike=310, Dip=75, Slip=-53.
24	03	04	22.5	64.002 N	21.269 W	10 G	4.8 4.1	1.1	142	ICELAND
24	05	34	17.0%	43.299 N	8.152 E	10 G		0.2	5	CORSICA. ML 1.6 (LDG).
24	06	07	02.4*	17.867 N	145.679 E	208 *	3.5	1.0	13	MARIANA ISLANDS
24	07	16	08.5%	33.415 S	70.779 W	80 G		0.4	9	CHILE-ARGENTINA BORDER REGION. MD 2.2 (SAN).
24	07	28	45.4*	22.473 S	172.982 E	100 G	4.5	1.1	16	LOYALTY ISLANDS REGION
24	08	29	14.5*	8.957 S	123.187 E	107 *	4.4	0.8	16	FLORES REGION, INDONESIA
24	08	45	09.9%	59.993 N	153.651 W	155			15	SOUTHERN ALASKA. <AEIC>.
24	09	03	09.0%	12.724 N	47.572 E	10 G		0.9	7	EASTERN GULF OF ADEN
24	09	12	17.7*	38.412 N	54.071 E	10 G	4.0	1.1	12	TURKMENISTAN
24	09	15	54.9?	35.18 S	70.28 W	150 G		0.3	9	CHILE-ARGENTINA BORDER REGION. MD 2.6 (SAN).
24	09	18	39.3	45.620 N	26.485 E	136		1.0	15	ROMANIA
24	09	21	47.8*	28.840 N	142.687 E	33 N	4.3	1.3	17	BONIN ISLANDS REGION
24	11	48	11.3*	37.671 N	48.886 E	10 G	4.4	1.1	47	NORTHWESTERN IRAN. Felt at Ardebil, Astara and Khalkhal.
24	12	04	58.6*	39.639 N	142.432 E	33 N		1.1	8	NEAR EAST COAST OF HONSHU, JAPAN
24	12	17	41.8	21.588 N	120.402 E	33 N	5.3 4.6	1.0	115	TAIWAN REGION. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 12:17:39.2; Lat 21.22 N; Lon 120.59 E; Dep 38.6; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.24, Plg=43, Azm=317; (N) Val=0.43, Plg=2, Azm=49; (P) Val=-1.67, Plg=47, Azm=141; Best double couple: Mo=1.5*10**17 Nm; NP1: Strike=5, Dip=2, Slip=-134; NP2: Strike=229, Dip=88, Slip=-88.
24	12	21	26.9%	53.883 N	165.417 W	63			9	FOX ISLANDS, ALEUTIAN ISLANDS. <AEIC>. ML 3.2 (AEIC).
24	12	38	17.7*	30.363 S	71.950 W	33 N	4.3	1.2	10	NEAR COAST OF CENTRAL CHILE
24	13	15	21.8	30.077 N	68.004 E	33 N	5.3 5.4	1.2	172	PAKISTAN. Mw 5.6 (HRV). Felt at Harnai, Quetta, Pishin, Sibi and Ziarat. Centroid, Moment Tensor (HRV): Centroid origin time 13:15:27.4; Lat 29.71 N; Lon 67.99 E; Dep 23.0 Bdy; Half-duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=3.11, Plg=71, Azm=24; (N) Val=0.41, Plg=7, Azm=272; (P) Val=-3.52, Plg=18, Azm=180; Best double couple:

Mo=3.3*10**17 Nm; NP1: Strike=258, Dip=28, Slip=74; NP2: Strike=96, Dip=63, Slip=98.

24 13 46 35.1 61.545 N 149.987 W 41 23 SOUTHERN ALASKA. <AEIC>. ML 3.0 (AEIC), 3.2 (PMR).

24 14 04 35.8 51.622 N 16.153 E 5 G 1.2 11 POLAND. ML 3.1 (GRF).

24 14 34 19.7 20.110 N 121.343 E 33 N 4.5 0.9 18 PHILIPPINE ISLANDS REGION

24 14 54 58.1 63.250 N 150.977 W 9 15 CENTRAL ALASKA. <AEIC>. ML 2.5 (AEIC), 2.6 (PMR).

24 15 08 34.7 38.825 N 122.771 W 2 10 NORTHERN CALIFORNIA. <GM-P>. MD 2.5 (GM). ML 2.5 (GS).

24 15 11 34.47 0.08 S 126.20 E 33 N 4.2 4.3 0.9 11 SOUTHERN MOLUCCA SEA

24 15 12 00.8 29.982 N 67.874 E 33 N 4.5 1.0 41 PAKISTAN

24 15 27 04.7 14.944 N 61.139 W 121 0.8 14 WINDWARD ISLANDS

24 15 47 59.5 21.599 N 120.464 E 33 N 4.6 4.5 1.0 26 TAIWAN REGION

24 16 51 08.6 30.153 N 67.794 E 33 N 4.2 1.3 29 PAKISTAN

24 17 00 04.37 34.49 S 70.41 W 5 G 0.4 9 CHILE-ARGENTINA BORDER REGION. MD 3.3 (SAN).

24 17 43 59.9 35.594 N 118.361 W 2 40 CENTRAL CALIFORNIA. <PAS-P>. ML 3.3 (PAS), 3.4 (GS). MD 3.3 (GM).

24 17 45 24.7 44.603 N 152.969 E 33 N 1.3 10 EAST OF KURIL ISLANDS

24 18 36 02.57 7.25 S 147.67 E 33 N 3.5 0.6 6 EASTERN NEW GUINEA REG., P.N.G.

24 18 55 40.67 11.68 S 166.44 E 150 G 1.1 7 SANTA CRUZ ISLANDS

24 18 58 38.0 21.628 N 120.400 E 33 N 5.3 5.0 1.0 126 TAIWAN REGION. Mw 5.3 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 18:58:34.5; Lat 21.75 N; Lon 120.76 E; Dep 31.5; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.04, Plg=25, Azm=76; (N) Val=0.02, Plg=19, Azm=337; (P) Val=-1.06, Plg=58, Azm=213; Best double couple: Mo=1.0*10**17 Nm; NP1: Strike=201, Dip=26, Slip=-43; NP2: Strike=330, Dip=72, Slip=-110.

24 20 06 05.6 24.626 S 175.326 W 33 N 4.1 0.4 7 SOUTH OF TONGA ISLANDS

24 20 48 45.9 14.861 S 167.130 E 33 N 0.8 7 VANUATU ISLANDS

24 21 11 24.7 28.795 N 52.593 E 33 N 5.0 4.1 0.9 151 SOUTHERN IRAN. Sixty-seven people injured in the Firuzabad area.

24 21 42 26.97 26.61 N 53.59 E 33 N 1.2 8 SOUTHERN IRAN

24 22 48 50.0 40.946 S 175.558 E 10 G 0.2 7 NORTH ISLAND, NEW ZEALAND. ML 2.9 (WEL).

24 23 29 46.27 45.79 N 15.21 E 10 G 0.1 4 NORTHWESTERN BALKAN REGION. ML 1.0 (LJU).

24 23 56 53.4 18.297 S 70.425 W 100 G 3.7 0.2 5 NEAR COAST OF NORTHERN CHILE. Felt (III) at Arica.

25 01 07 35.37 43.47 N 147.47 E 33 N 1.3 7 KURIL ISLANDS

25 01 10 39.8 5.733 N 126.322 E 135 D 5.2 1.0 97 MINDANAO, PHILIPPINE ISLANDS. Mw 5.4 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 01:10:42.2; Lat 5.80 N; Lon 126.45 E; Dep 132.0; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.42, Plg=56, Azm=211; (N) Val=0.00, Plg=33, Azm=15; (P) Val=-1.42, Plg=7, Azm=109; Best double couple: Mo=1.4*10**17 Nm; NP1: Strike=231, Dip=47, Slip=138; NP2: Strike=353, Dip=60, Slip=51.

25 02 08 13.3 41.665 S 174.287 E 10 G 0.1 5 COOK STRAIT, NEW ZEALAND. ML 2.5 (WEL).

25 02 48 07.1 39.306 N 43.968 E 33 N 4.4 1.1 73 TURKEY. Minor damage in the Dogubeyazit area.

25 03 07 22.5 44.483 N 147.932 E 33 N 4.0 0.6 11 KURIL ISLANDS

25 03 34 24.7 19.623 S 69.003 W 107 D 4.8 0.8 120 NORTHERN CHILE. Felt (III) at Arica and Iquique.

25 04 09 22.6 11.501 N 87.975 W 33 N 4.4 1.0 34 NEAR COAST OF NICARAGUA

25 04 57 48.2 12.882 N 60.689 W 33 N 0.5 8 WINDWARD ISLANDS

25 05 15 20.8 16.065 N 98.069 W 33 N 4.5 1.1 41 NEAR COAST OF GUERRERO, MEXICO

25 05 50 01.37 35.25 N 28.06 E 10 G 3.6 3.1 0.6 13 EASTERN MEDITERRANEAN SEA

25 06 19 31.6 37.641 S 175.613 E 10 G 0.2 7 NORTH ISLAND, NEW ZEALAND. ML 4.3 (WEL). Felt at Te Aroha.

25 06 22 48.1 38.003 N 4.444 W 10 G 0.5 18 SPAIN. mDLg 3.9 (MDD). Felt (III) in the Pedro Abad area.

25 06 33 55.17 7.73 S 129.29 E 100 G 4.2 1.6 7 BANDA SEA

25 06 37 52.1 21.573 N 120.319 E 33 N 4.8 1.0 35 TAIWAN REGION

25 06 57 44.7 21.552 N 120.406 E 33 N 5.2 4.6 0.8 88 TAIWAN REGION

25 06 57 55.5 51.057 N 15.853 E 5 G 1.2 7 POLAND

25 07 26 45.1 54.792 N 160.000 W 32 58 ALASKA PENINSULA. <AEIC>. ML 4.1 (AEIC).

25 07 40 41.6 38.955 N 22.318 E 10 G 3.8 0.4 11 GREECE

25 08 59 48.3 21.528 S 112.943 W 10 G 4.1 1.0 11 SOUTHERN EAST PACIFIC RISE

25 11 24 50.8 2.296 N 128.777 E 33 N 3.6 0.5 9 HALMAHERA, INDONESIA

25 11 59 00.8 20.804 S 177.781 W 394 D 5.3 0.9 250 FIJI ISLANDS REGION. Mw 5.6 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 11:59:06.1; Lat 20.81 S Fix; Lon 177.50 W Fix; Dep 416.2; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.22, Plg=6, Azm=125; (N) Val=0.53, Plg=2, Azm=35; (P) Val=-2.75, Plg=84, Azm=290; Best double couple: Mo=2.5*10**17 Nm; NP1: Strike=217, Dip=39, Slip=-87; NP2: Strike=34, Dip=51, Slip=-92.

25 13 13 53.96 63.372 N 151.551 W 172 88 CENTRAL ALASKA. <AEIC>.

25 14 13 22.47 31.06 N 67.77 E 33 N 3.8 1.4 10 AFGHANISTAN

25 16 09 00.2 47.644 N 146.930 E 400 G 4.2 1.0 21 NORTHWEST OF KURIL ISLANDS

25 16 34 02.17 15.96 S 172.39 W 33 N 4.2 1.5 6 SAMOA ISLANDS REGION

25 17 42 14.9 27.673 S 74.420 E 10 G 4.3 0.9 12 MID-INDIAN RIDGE

25 17 56 30.87 5.72 S 129.04 E 300 G 0.8 8 BANDA SEA

25 18 22 40.97 6.98 S 67.85 E 10 G 4.5 1.3 15 CARLSBERG RIDGE

25 19 04 07.7 46.600 N 2.549 E 5 G 0.9 8 FRANCE. ML 2.4 (LDG).

25 19 23 12.8 4.309 S 127.970 E 33 N 4.0 1.2 11 BANDA SEA

25 19 50 56.7 21.622 S 174.635 W 33 N 4.6 4.6 0.8 18 TONGA ISLANDS

25 21 24 08.1 1.972 S 99.909 E 33 N 5.1 4.8 1.1 114 SOUTHERN SUMATERA, INDONESIA. Mw 5.5 (HRV). Felt at Padang and Padangpanjang.

Centroid, Moment Tensor (HRV): Centroid origin time 21:24:13.0; Lat 2.26 S; Lon 99.90 E; Dep 32.0 Bdy; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.69, Plg=64, Azm=47; (N) Val=0.19, Plg=7, Azm=303; (P) Val=-1.87, Plg=25, Azm=210; Best double couple: Mo=1.8*10**17 Nm; NP1: Strike=286, Dip=21, Slip=71; NP2: Strike=125, Dip=70, Slip=97.

25 23 54 50.4 61.139 N 150.645 W 47 95 SOUTHERN ALASKA. <AEIC>. ML 3.1 (AEIC).

26 00 44 49.9 36.545 N 53.066 E 33 N 4.5 0.8 52 NORTHERN IRAN. Felt at Ghaem Shahr and Sari.

26 00 49 14.5 45.392 N 6.408 E 5 G 0.5 5 FRANCE. ML 1.7 (LDG).

26 01 06 57.47 5.77 N 126.54 E 100 G 4.0 1.0 9 MINDANAO, PHILIPPINE ISLANDS

26 01 36 48.47 51.31 N 178.47 W 33 N 3.9 1.2 5 ANDREANOF ISLANDS, ALEUTIAN IS.

26	01	37	46.9	51.336 N	177.649 W	33 N	4.4	4.0	1.0	54	ANDREANOF ISLANDS, ALEUTIAN IS.
26	01	45	49.26	32.291 N	115.301 W	6 G				1	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 2.9 (PAS). MD 3.3 (ECX).
26	02	08	16.3*	15.345 S	178.666 W	400 G	3.6		0.9	16	FIJI ISLANDS REGION
26	02	53	34.2	52.997 N	159.876 E	33 N	5.1		0.7	156	OFF EAST COAST OF KAMCHATKA. Felt (III) at Petropavlovsk-Kamchatskiy.
26	03	27	41.7	58.294 S	25.332 W	33 N	5.4	4.7	0.6	45	SOUTH SANDWICH ISLANDS REGION. Mw 5.6 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 03:27:46.9; Lat 58.44 S; Lon 25.05 W; Dep 36.8; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=-2.65, Plg=50, Azm=165; (N) Val=0.14, Plg=26, Azm=291; (P) Val=-2.79, Plg=28, Azm=36; Best double couple: Mo=2.7*10**17 Nm; NP1: Strike=172, Dip=29, Slip=154; NP2: Strike=285, Dip=78, Slip=64.
26	03	33	46.2*	41.089 S	174.499 E	33 N			0.2	6	COOK STRAIT, NEW ZEALAND. ML 2.7 (WEL).
26	03	42	53.7?	4.62 S	153.92 E	100 G	3.9		0.7	6	NEW IRELAND REGION, P.N.G.
26	03	55	14.4*	58.372 S	25.302 W	33 N	5.0		0.6	16	SOUTH SANDWICH ISLANDS REGION
26	04	25	35.9*	44.046 N	5.996 E	5 G			0.7	10	FRANCE. ML 2.4 (LDG).
26	07	53	08.5	18.608 N	145.139 E	300 G	4.5		0.9	94	MARIANA ISLANDS
26	08	19	51.6*	17.484 S	179.143 W	600 G	4.3		0.4	18	FIJI ISLANDS REGION
26	08	22	01.5	15.361 S	168.233 E	33 N	4.8		1.0	27	VANUATU ISLANDS
26	08	27	11.6*	7.247 S	21.761 W	10 G	4.7		1.1	27	SOUTH ATLANTIC OCEAN
26	08	28	22.16	31.902 N	115.783 W	6 G				1	BAJA CALIFORNIA, MEXICO. <PAS-P>. ML 2.9 (PAS). MD 3.2 (ECX).
26	08	43	27.2	6.998 S	21.898 W	10 G	5.4	4.7	0.9	147	SOUTH ATLANTIC OCEAN. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 08:43:30.8; Lat 7.00 S; Lon 21.61 W; Dep 15.0 Fix; Half-duration 1.3 sec; Principal axes (scale 10**16 Nm): (T) Val=-8.22, Plg=64, Azm=77; (N) Val=-1.28, Plg=22, Azm=293; (P) Val=-6.94, Plg=14, Azm=198; Best double couple: Mo=7.6*10**16 Nm; NP1: Strike=260, Dip=36, Slip=51; NP2: Strike=125, Dip=63, Slip=115.
26	08	58	27.1*	33.740 S	179.173 W	33 N	4.8		1.4	22	SOUTH OF KERMADEC ISLANDS
26	10	00	53.7	0.845 N	124.635 E	152 *	5.0		0.9	56	MINAHASSA PENINSULA, SULAWESI
26	10	08	10.0*	11.668 S	116.398 E	33 N	4.3		1.3	11	SOUTH OF SUMBAWA, INDONESIA
26	10	58	36.1?	32.80 S	69.28 W	5 G			0.6	9	MENDOZA PROVINCE, ARGENTINA. MD 4.2 (SAN).
26	12	26	23.8?	1.91 S	99.96 E	33 N			1.1	8	SOUTHERN SUMATERA, INDONESIA
26	13	00	50.6*	52.034 N	173.697 W	33 N	3.8		0.5	5	ANDREANOF ISLANDS, ALEUTIAN IS.
26	13	04	30.2*	44.445 N	7.502 E	5 G			0.2	8	NORTHERN ITALY. ML 2.6 (LDG).
26	13	17	26.6	6.454 N	94.603 E	114 D	4.9		0.9	40	NICOBAR ISLANDS, INDIA. Mw 5.0 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 13:17:28.7; Lat 6.55 N; Lon 94.74 E; Dep 119.8; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=-4.49, Plg=6, Azm=61; (N) Val=-0.74, Plg=84, Azm=241; (P) Val=-3.75, Plg=0, Azm=151; Best double couple: Mo=4.1*10**16 Nm; NP1: Strike=196, Dip=86, Slip=4; NP2: Strike=106, Dip=86, Slip=176.
26	13	17	47.8	21.139 S	68.184 W	134 D	4.9		1.0	49	CHILE-BOLIVIA BORDER REGION
26	13	43	08.26	58.729 N	152.919 W	59				88	KODIAK ISLAND REGION. <AEIC>. ML 3.4 (AEIC).
26	13	46	12.16	59.939 N	141.293 W	8				71	SOUTHEASTERN ALASKA. <AEIC>. ML 3.3 (AEIC).
26	13	54	57.2*	14.147 N	92.191 W	33 N	4.4		1.0	41	NEAR COAST OF CHIAPAS, MEXICO
26	14	27	00.9	5.593 S	81.327 W	33 N	4.8	4.5	1.0	52	NEAR COAST OF NORTHERN PERU
26	14	43	35.3?	16.64 N	98.73 W	33 N	4.2		1.3	11	NEAR COAST OF GUERRERO, MEXICO
26	15	10	46.6*	7.247 S	21.842 W	10 G	4.4		1.2	19	SOUTH ATLANTIC OCEAN
26	15	18	55.5*	52.130 N	173.729 W	33 N	3.7		0.7	9	ANDREANOF ISLANDS, ALEUTIAN IS.
26	15	22	09.1	25.511 S	178.331 E	610 D	5.5		0.9	242	SOUTH OF FIJI ISLANDS. Mw 5.7 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 15:22:13.6; Lat 25.43 S; Lon 178.34 E; Dep 605.1; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=4.04, Plg=41, Azm=92; (N) Val=-0.54, Plg=13, Azm=194; (P) Val=-3.50, Plg=47, Azm=298; Best double couple: Mo=3.8*10**17 Nm; NP1: Strike=117, Dip=13, Slip=167; NP2: Strike=14, Dip=87, Slip=77.
26	15	40	00.76	60.474 N	151.793 W	64				118	KENAI PENINSULA, ALASKA. <AEIC>. ML 3.9 (AEIC), 3.8 (PMR).
26	16	02	12.5*	2.953 S	129.835 E	33 N	4.2		1.5	10	SERAM, INDONESIA
26	16	46	47.0*	33.578 S	71.776 W	40 G			0.4	10	NEAR COAST OF CENTRAL CHILE. MD 3.8 (SAN).
26	17	05	01.9*	44.360 N	5.601 E	5 G			0.6	13	FRANCE. ML 2.7 (LDG).
26	18	37	13.8	14.340 S	167.131 E	200 G	4.1		0.8	21	VANUATU ISLANDS
26	19	57	03.3	52.295 N	170.087 W	64 *	4.5		0.8	22	FOX ISLANDS, ALEUTIAN ISLANDS
26	20	05	33.9*	46.838 N	143.835 E	400 G			0.8	15	SAKHALIN ISLAND
26	20	29	13.9?	55.49 N	166.64 E	33 N			1.5	7	KOMANDORSKY ISLANDS REGION
26	20	33	51.2	40.301 N	143.758 E	33 N			1.0	17	OFF EAST COAST OF HONSHU, JAPAN
26	20	45	37.5*	44.705 N	6.799 E	5 G			0.7	5	FRANCE. ML 1.6 (LDG).
26	20	50	14.8*	38.580 N	103.763 E	10 G			1.1	8	GANSU, CHINA
26	21	04	53.96	61.954 N	150.002 W	47				4	SOUTHERN ALASKA. <AEIC>. ML 2.0 (AEIC), 2.1 (PMR).
26	21	32	13.1	27.420 N	130.275 E	33 N	5.0		1.2	44	RYUKYU ISLANDS
26	21	45	53.1*	13.108 S	166.682 E	100 G	4.2		1.0	12	VANUATU ISLANDS
26	22	38	23.1*	13.010 S	166.427 E	33 N	4.4		0.9	15	VANUATU ISLANDS
26	22	48	50.1*	10.275 S	161.213 E	107 D	4.2		1.0	12	SOLOMON ISLANDS
27	00	13	24.9*	17.012 N	99.382 W	33 N	5.0		1.5	40	GUERRERO, MEXICO
27	02	33	47.4	40.176 N	143.877 E	33 N	4.2		1.3	21	OFF EAST COAST OF HONSHU, JAPAN
27	02	59	01.8?	51.03 N	15.75 E	5 G			0.9	4	POLAND
27	03	42	53.2?	46.15 N	13.87 E	10 G			0.1	4	AUSTRIA. ML 2.0 (LJU).
27	03	50	26.0	36.478 N	27.159 E	33 N	4.4		1.3	70	DODECANESE ISLANDS
27	05	28	06.6*	19.544 N	109.101 W	10 G	3.9		1.1	16	REVILLA GIGEDO ISLANDS REGION
27	06	56	35.5*	36.264 N	27.501 E	33 N	4.0		1.5	19	DODECANESE ISLANDS
27	07	10	56.1?	1.56 N	127.23 E	100 G	4.0		0.6	8	HALMAHERA, INDONESIA
27	07	14	46.9*	7.319 S	127.779 E	33 N	4.5		1.1	25	BANDA SEA
27	08	44	51.5?	40.11 S	174.93 E	10 G			0.2	5	COOK STRAIT, NEW ZEALAND. ML 3.3 (WEL).
27	09	55	45.8	7.361 S	130.591 E	33 N	5.3		0.9	71	TANIMBAR ISLANDS REG., INDONESIA. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 09:55:54.1; Lat 7.27 S; Lon 130.84 E; Dep 60.3; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.90, Plg=69, Azm=298; (N) Val=-0.35, Plg=20, Azm=101;

(P) Val=-5.55, Plg=6, Azm=193; Best double couple:
Mo=5.7*10**16 Nm; NP1: Strike=304, Dip=43, Slip=121; NP2:
Strike=85, Dip=54, Slip=64.

QUEEN CHARLOTTE ISLANDS REGION. ML 3.2 (PGC).

KERMADEC ISLANDS REGION

LOYALTY ISLANDS REGION

NEW BRITAIN REGION, P.N.G.

LA RIOJA PROVINCE, ARGENTINA

NEW BRITAIN REGION, P.N.G. Mw 5.9 (HRV), 5.8 (GS). Me 5.5 (GS).

Broadband Source Parameters (GS): Dep 40; NP1: Strike=60, Dip=45, Slip=120; NP2: Strike=201, Dip=52, Slip=63; Radiated energy 3.4*10**12 Nm.

Moment Tensor (GS): Dep 34; Principal axes (scale 10**17 Nm): (T) Val=6.34, Plg=82, Azm=17; (N) Val=-1.09, Plg=2, Azm=274; (P) Val=-5.25, Plg=7, Azm=184; Best double couple: Mo=5.8*10**17 Nm; NP1: Strike=272, Dip=38, Slip=87; NP2: Strike=96, Dip=52, Slip=92.

Centroid, Moment Tensor (HRV): Centroid origin time 13:43:01.6; Lat 6.38 S; Lon 148.85 E; Dep 39.7; Half-duration 2.3 sec; Principal axes (scale 10**17 Nm): (T) Val=8.38, Plg=78, Azm=3; (N) Val=-1.19, Plg=1, Azm=270; (P) Val=-9.56, Plg=12, Azm=180; Best double couple: Mo=9.0*10**17 Nm; NP1: Strike=269, Dip=33, Slip=89; NP2: Strike=90, Dip=57, Slip=91.

PUERTO RICO REGION. MD 3.5 (MPR).

POLAND. MG 2.8 (WAR).

PUERTO RICO REGION. MD 3.5 (MPR).

EASTERN NEW GUINEA REG., P.N.G.

FIJI ISLANDS REGION

SOUTH OF FIJI ISLANDS

CENTRAL ALASKA. <AEIC>. ML 3.5 (AEIC), 3.8 (PMR).

SAN JUAN PROVINCE, ARGENTINA. MD 3.2 (SAN).

ROMANIA

PHILIPPINE ISLANDS REGION

OFF COAST OF OREGON

CHILE-BOLIVIA BORDER REGION

MONA PASSAGE. MD 3.4 (MPR).

AZORES ISLANDS

MARIANA ISLANDS REGION

KENAI PENINSULA, ALASKA. <AEIC>.

ROMANIA

SOUTHERN EAST PACIFIC RISE

WINDWARD ISLANDS

STRAIT OF GIBRALTAR. mbLg 2.5 (MDD).

STRAIT OF GIBRALTAR. mbLg 2.9 (MDD).

STRAIT OF GIBRALTAR. mbLg 2.9 (MDD).

SOUTHERN EAST PACIFIC RISE

SEA OF JAPAN

SPAIN. mbLg 3.1 (MDD).

OFF EAST COAST OF HONSHU, JAPAN

STRAIT OF GIBRALTAR. mbLg 2.3 (MDD).

POLAND. ML 3.9 (VIE), 3.7 (GRF).

CHILE-ARGENTINA BORDER REGION

BONIN ISLANDS REGION

NORTH ATLANTIC OCEAN. Mw 5.3 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 11:10:11.9; Lat 57.17 N; Lon 33.48 W; Dep 15.0 Fix; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.12, Plg=7, Azm=296; (N) Val=0.03, Plg=3, Azm=206; (P) Val=-1.15, Plg=82, Azm=91; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=30, Dip=38, Slip=-85; NP2: Strike=203, Dip=52, Slip=-94.

SOUTHWESTERN PAKISTAN

NEAR COAST OF VENEZUELA. Felt along the eastern coast of Venezuela.

KURIL ISLANDS

SOUTH OF HONSHU, JAPAN

TAIWAN REGION

BANDA SEA

SOUTHERN ALASKA. <AEIC>. ML 2.0 (AEIC), 2.3 (PMR).

SOUTH OF FIJI ISLANDS

NORTHERN MOLUCCA SEA

NEAR EAST COAST OF HONSHU, JAPAN

NEAR S. COAST OF HONSHU, JAPAN

POLAND. ML 3.6 (GRF), 3.4 (VIE).

VANUATU ISLANDS. Mw 5.5 (HRV). Felt at Port-Vila.

Centroid, Moment Tensor (HRV): Centroid origin time 21:42:12.3; Lat 17.44 S; Lon 167.59 E; Dep 33.2; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=2.29, Plg=71, Azm=20; (N) Val=-0.15, Plg=16, Azm=166; (P) Val=-2.14, Plg=10, Azm=259; Best double couple: Mo=2.2*10**17 Nm; NP1: Strike=8, Dip=38, Slip=117; NP2: Strike=155, Dip=57, Slip=71.

VANCOUVER ISLAND REGION. <PGC-P>. ML 2.7 (PGC). MD 2.4 (SEA).

MINDANAO, PHILIPPINE ISLANDS

SAN JUAN PROVINCE, ARGENTINA. MD 3.8 (SAN).

SOUTHEASTERN UZBEKISTAN

KURIL ISLANDS

CENTRAL MID-ATLANTIC RIDGE

ALASKA PENINSULA. <AEIC>.

PHILIPPINE ISLANDS REGION

NORTHERN CHILE. Mw 5.2 (HRV). Felt (IV) at Calama and

27	10	46	16.1*	51.189 N	129.760 W	10 G	3.5	1.5	10
27	10	48	12.6*	28.393 S	178.342 W	257 *	4.1	1.2	20
27	10	56	57.1*	21.663 S	169.761 E	33 N		1.4	14
27	11	43	15.8	4.149 S	152.719 E	33 N	4.7	1.0	24
27	12	55	33.2*	28.016 S	68.845 W	82 *	4.6	1.2	34
27	13	42	52.7	6.015 S	148.568 E	33 N	5.7 5.7	1.0	103
27	13	47	07.8*	19.120 N	66.646 W	33 N		0.4	11
27	13	51	34.8*	51.144 N	15.786 E	5 G		0.5	6
27	13	52	18.67	19.07 N	66.65 W	60 G		0.3	8
27	14	01	49.8	5.463 S	147.085 E	189 D	5.1	0.9	70
27	14	13	28.97	19.52 S	178.62 W	550 G	4.0	1.0	15
27	14	29	25.9*	23.698 S	179.801 W	500 G	4.0	0.8	15
27	14	30	12.6*	63.404 N	151.351 W	9			25
27	14	31	18.67	31.78 S	69.86 W	150 G		0.3	9
27	14	55	14.37	45.65 N	26.45 E	100 G		0.6	5
27	15	02	45.9	5.982 N	127.257 E	70 *	4.4	1.1	33
27	15	42	29.1*	44.228 N	129.450 W	10 G		0.5	43
27	16	18	29.4	21.798 S	68.197 W	133 D	4.4	1.0	24
27	17	55	20.47	18.38 N	67.97 W	100 G		0.4	7
27	18	50	11.2	38.200 N	26.547 W	10 G	4.9 4.2	1.0	103
27	20	07	16.0	21.653 N	142.874 E	325 *	4.2	1.1	40
27	20	13	10.8*	60.609 N	151.850 W	76			18
27	20	17	11.0	45.960 N	27.454 E	100 G		0.9	9
27	20	58	37.67	20.59 S	113.85 W	10 G	4.3 4.0	0.9	10
27	21	49	42.57	11.20 N	61.85 W	33 N		0.1	4
27	22	29	45.4*	36.957 N	5.330 W	10 G		0.7	5
27	22	52	56.47	36.93 N	5.28 W	10 G		0.5	4
27	22	53	50.9*	36.954 N	5.281 W	10 G		0.6	6
27	23	11	40.17	35.36 S	108.40 W	10 G	4.5 4.0	1.2	14
27	23	39	16.0	37.177 N	135.251 E	371	3.8	0.7	16
28	02	56	26.2*	37.048 N	4.014 W	10 G		1.0	12
28	03	21	17.0	36.864 N	143.177 E	80 D	4.0	1.1	24
28	04	28	15.97	36.96 N	4.13 W	10 G		0.2	4
28	05	24	17.3	51.644 N	16.291 E	5 G		0.6	16
28	05	53	25.97	34.77 S	70.89 W	100 G		0.2	9
28	06	41	47.9*	27.726 N	143.728 E	33 N	3.8	0.9	8
28	11	10	07.3	57.075 N	33.849 W	10 G	5.3 5.2	1.1	184
28	12	11	34.4*	25.241 N	62.324 E	33 N	4.6	1.1	27
28	14	12	24.4*	10.692 N	63.922 W	5 G	4.0	1.4	17
28	14	15	06.1*	44.397 N	148.158 E	33 N		1.1	8
28	14	20	05.5	29.322 N	141.915 E	43 D	4.4	1.3	29
28	15	08	33.5*	21.862 N	121.875 E	33 N	4.3	0.9	13
28	15	59	03.3*	6.810 S	129.802 E	150 G	4.2	0.9	13
28	16	07	15.1*	61.478 N	151.754 W	6			7
28	17	55	20.2*	22.471 S	176.890 W	200 G	4.4	0.9	29
28	18	17	08.67	1.57 N	126.96 E	33 N	4.2	0.8	7
28	19	54	13.8	38.979 N	142.285 E	57 *	4.1	0.4	15
28	20	00	47.2	33.738 N	137.124 E	366	3.9	1.0	20
28	20	37	57.6	51.450 N	16.123 E	5 G		0.7	17
28	21	42	07.6	17.398 S	167.908 E	33 N	4.9 5.3	1.1	94
28	23	42	57.0*	48.900 N	125.680 W	33			30
29	00	35	28.3*	9.135 N	126.625 E	100 G	4.3	1.2	9
29	00	59	55.57	31.75 S	69.56 W	160 G		0.3	9
29	02	16	33.9	40.212 N	66.757 E	33 N	4.5	0.8	37
29	02	17	39.7	45.559 N	151.078 E	33 N	4.6 4.2	0.9	31
29	02	32	52.57	2.14 N	29.08 W	10 G	4.2	1.6	8
29	04	21	56.0*	58.981 N	154.351 W	125			110
29	04	44	02.17	19.57 N	120.86 E	10 G	4.2	1.1	12
29	05	05	57.9	22.061 S	68.434 W	117 D	5.3	1.0	120

Quillagua, (III) at Maria Elena and (II) at San Pedro de Atacama.
Centroid, Moment Tensor (HRV): Centroid origin time 05:06:01.6; Lat 22.12 S; Lon 68.68 W; Dep 127.1; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=-8.51, Plg=30, Azm=83; (N) Val=-0.32, Plg=9, Azm=178; (P) Val=-8.19, Plg=59, Azm=283; Best double couple: Mo=8.4*10**16 Nm; NP1: Strike=149, Dip=17, Slip=-120; NP2: Strike=0, Dip=75, Slip=-81.

29 05 25 00.2* 17.517 S 178.976 W 500 G 4.4 0.8 26 FIJI ISLANDS REGION
29 06 04 59.67 32.63 S 72.02 W 20 G 0.3 10 OFF COAST OF CENTRAL CHILE. MD 3.7 (SAN).
29 06 11 14.57 19.76 S 70.46 W 100 G 1.5 7 NEAR COAST OF NORTHERN CHILE
29 06 54 00.2 15.235 S 175.576 W 33 N 5.6 6.4 1.3 187 TONGA ISLANDS. Mw 6.5 (GS), 6.4 (HRV). Me 6.7 (GS). Ms 6.1 (BRK).
Broadband Source Parameters (GS): Dep 6; NP1: Strike=290, Dip=85, Slip=0; NP2: Strike=20, Dip=90, Slip=-175; Radiated energy 2.5*10**14 Nm.
Moment Tensor (GS): Dep 25; Principal axes (scale 10**18 Nm): (T) Val=-5.53, Plg=5, Azm=332; (N) Val=-0.10, Plg=83, Azm=199; (P) Val=-5.43, Plg=5, Azm=63; Best double couple: Mo=5.5*10**18 Nm; NP1: Strike=108, Dip=83, Slip=0; NP2: Strike=198, Dip=90, Slip=-173.

Centroid, Moment Tensor (HRV): Centroid origin time 06:54:07.4; Lat 15.31 S; Lon 175.38 W; Dep 15.0 Fix; Half-duration 4.1 sec; Principal axes (scale 10**18 Nm): (T) Val=-5.20, Plg=2, Azm=153; (N) Val=0.15, Plg=79, Azm=52; (P) Val=-5.35, Plg=11, Azm=244; Best double couple: Mo=5.3*10**18 Nm; NP1: Strike=288, Dip=81, Slip=-6; NP2: Strike=19, Dip=84, Slip=-171.
Scalar Moment (PPT): Mo=4.1*10**18 Nm.

29 07 20 28.2* 15.483 S 175.397 W 33 N 4.3 1.0 32 TONGA ISLANDS
29 08 14 09.9 3.562 S 144.362 E 23 5.8 6.8 1.1 191 NEAR N COAST OF NEW GUINEA, PNG. Mw 6.6 (HRV), 6.5 (GS). Me 6.9 (GS). Ms 6.9 (BRK).
Broadband Source Parameters (GS): NP1: Strike=274, Dip=86, Slip=0; NP2: Strike=184, Dip=90, Slip=176; Radiated energy 5.5*10**14 Nm.
Moment Tensor (GS): Dep 36; Principal axes (scale 10**18 Nm): (T) Val=-6.22, Plg=5, Azm=320; (N) Val=0.77, Plg=81, Azm=200; (P) Val=-6.99, Plg=8, Azm=51; Best double couple: Mo=6.6*10**18 Nm; NP1: Strike=95, Dip=81, Slip=-2; NP2: Strike=186, Dip=88, Slip=-171.

Centroid, Moment Tensor (HRV): Centroid origin time 08:14:16.6; Lat 3.34 S; Lon 144.51 E; Dep 15.0 Fix; Half-duration 4.5 sec; Principal axes (scale 10**18 Nm): (T) Val=-7.74, Plg=4, Azm=136; (N) Val=-0.47, Plg=82, Azm=257; (P) Val=-7.27, Plg=7, Azm=46; Best double couple: Mo=7.5*10**18 Nm; NP1: Strike=181, Dip=82, Slip=-178; NP2: Strike=91, Dip=88, Slip=-8.

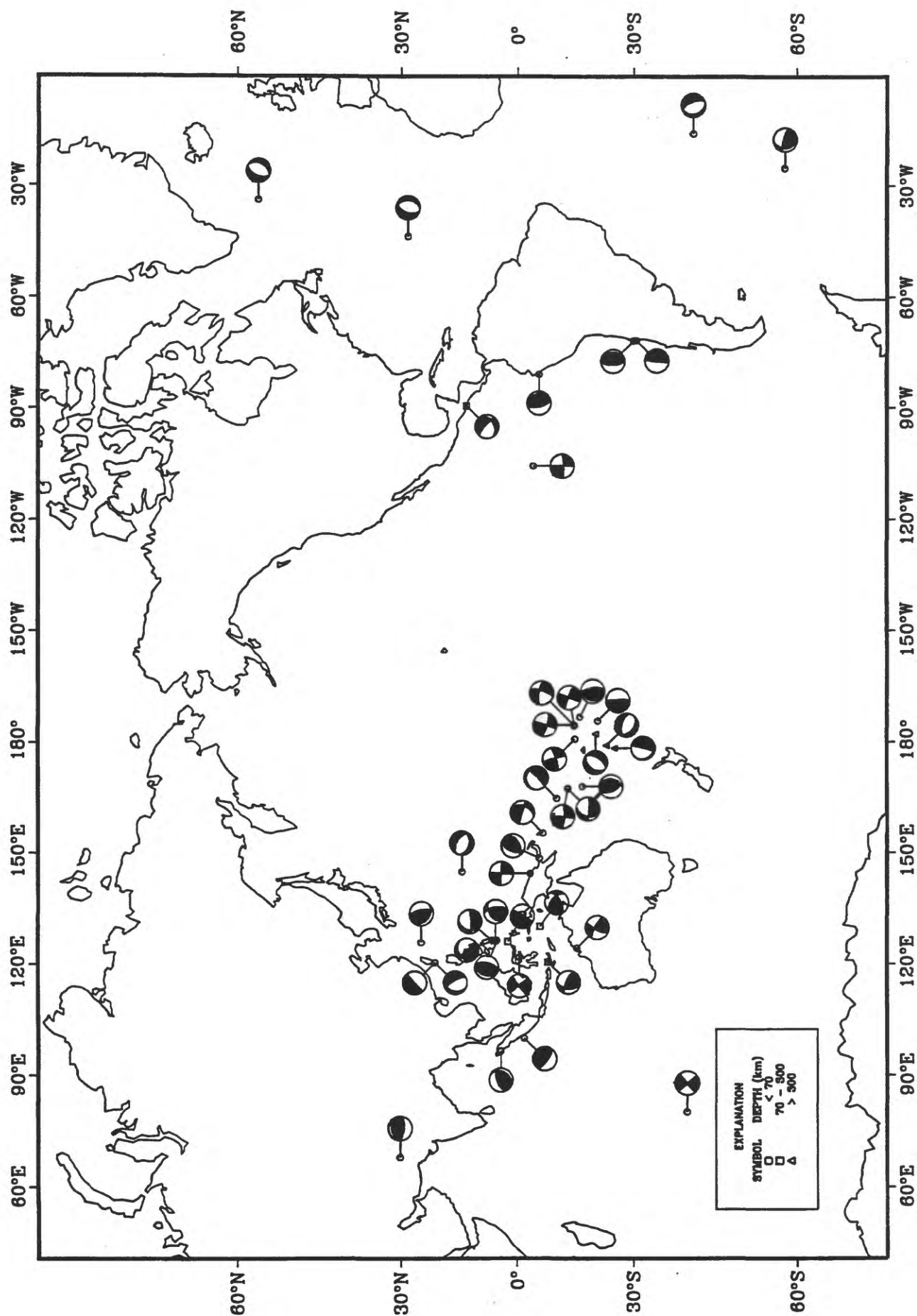
29 08 18 33.1* 15.641 S 69.406 W 250 G 3.9 1.2 14 PERU-BOLIVIA BORDER REGION
29 08 41 25.84 46.642 N 122.427 W 5 9 WASHINGTON. <SEA-P>. MD 2.2 (SEA).
29 08 42 53.04 48.580 N 115.880 W 19 9 MONTANA. <BUT-P>. ML 3.1 (BUT). Felt at Troy.
29 09 02 59.6* 14.510 N 145.395 E 33 N 4.2 0.9 10 MARIANA ISLANDS
29 09 10 15.14 44.542 N 113.223 W 10 19 EASTERN IDAHO. <BUT-P>. ML 3.7 (BUT).
29 09 17 13.7* 14.535 N 145.075 E 33 N 4.1 0.9 13 MARIANA ISLANDS
29 09 19 08.97 45.45 N 26.32 E 150 G 0.8 6 ROMANIA
29 09 57 35.2* 9.111 S 121.507 E 33 N 3.8 0.4 6 SAVU SEA
29 10 22 12.1 14.578 N 144.803 E 33 N 4.2 0.9 22 MARIANA ISLANDS
29 10 38 57.1 16.019 S 174.949 W 250 D 4.5 0.8 88 TONGA ISLANDS
29 11 03 17.4* 14.510 N 145.224 E 33 N 4.3 1.4 18 MARIANA ISLANDS
29 11 23 27.7 34.087 N 139.169 E 10 G 4.3 0.8 32 NEAR S. COAST OF HONSHU, JAPAN
29 11 41 50.27 14.50 N 145.78 E 33 N 4.2 1.2 10 MARIANA ISLANDS
29 12 36 02.8* 14.642 N 145.060 E 33 N 4.3 1.4 22 MARIANA ISLANDS
29 12 59 28.9* 14.036 N 144.439 E 33 N 3.7 1.1 9 MARIANA ISLANDS
29 13 11 02.6* 14.150 N 144.688 E 33 N 3.8 0.8 9 MARIANA ISLANDS
29 13 15 14.87 11.55 N 61.48 W 33 N 1.1 4 WINDWARD ISLANDS
29 13 17 49.5* 14.615 N 144.913 E 33 N 1.3 12 MARIANA ISLANDS
29 13 22 57.5 7.097 S 156.025 E 113 * 4.5 1.1 28 SOLOMON ISLANDS
29 13 35 57.77 14.88 N 145.18 E 33 N 4.5 1.5 10 MARIANA ISLANDS
29 14 08 53.04 44.326 N 7.286 E 5 G 0.3 7 NORTHERN ITALY
29 14 12 01.7* 14.614 N 145.210 E 33 N 4.3 1.3 17 MARIANA ISLANDS
29 14 24 03.47 14.91 N 144.85 E 33 N 1.4 6 MARIANA ISLANDS
29 14 30 48.5 14.638 N 144.927 E 33 N 4.7 4.6 1.3 47 MARIANA ISLANDS
29 14 36 01.9* 27.080 N 54.011 E 33 N 4.4 1.3 17 SOUTHERN IRAN
29 14 40 12.74 46.323 N 7.153 E 10 G 1.2 7 SWITZERLAND
29 14 43 57.4 27.562 N 53.888 E 33 N 4.8 4.2 1.4 59 SOUTHERN IRAN
29 14 45 52.0* 0.154 S 124.559 E 33 N 4.1 1.0 13 SOUTHERN MOLOCCA SEA
29 15 03 05.5* 14.730 N 145.096 E 25 D 4.5 1.4 21 MARIANA ISLANDS
29 15 12 34.9 14.701 N 144.808 E 33 N 4.7 1.2 47 MARIANA ISLANDS
29 15 25 26.6* 14.604 N 145.141 E 33 N 4.0 0.8 16 MARIANA ISLANDS
29 15 48 09.0 41.847 N 119.786 W 5 G 1.3 19 NEVADA. MD 4.0 (GM). ML 3.9 (BRK), 3.8 (GS).
29 15 55 59.8* 27.192 N 53.902 E 33 N 4.6 1.0 27 SOUTHERN IRAN
29 16 01 44.3* 14.642 N 145.482 E 26 D 3.8 1.2 11 MARIANA ISLANDS
29 16 19 04.74 59.049 N 153.783 W 98 23 SOUTHERN ALASKA. <AEIC>.
29 16 24 57.1 14.645 N 145.142 E 33 N 4.6 4.2 1.2 39 MARIANA ISLANDS
29 17 33 48.3* 15.385 S 172.878 W 10 G 4.1 1.1 17 SAMOA ISLANDS REGION
29 17 52 55.2 14.659 N 144.887 E 27 D 4.0 1.1 19 MARIANA ISLANDS
29 19 21 56.2 5.436 N 126.431 E 33 N 5.1 4.9 1.1 79 MINDANAO, PHILIPPINE ISLANDS. Mw 5.5 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 19:22:02.5; Lat 5.37 N; Lon 126.93 E; Dep 36.0; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=-1.59, Plg=77, Azm=279; (N) Val=0.44, Plg=1, Azm=15; (P) Val=-2.03, Plg=13, Azm=105; Best double couple: Mo=1.8*10**17 Nm; NP1: Strike=197, Dip=32, Slip=93; NP2:

Strike-14, Dip=58, Slip=88.

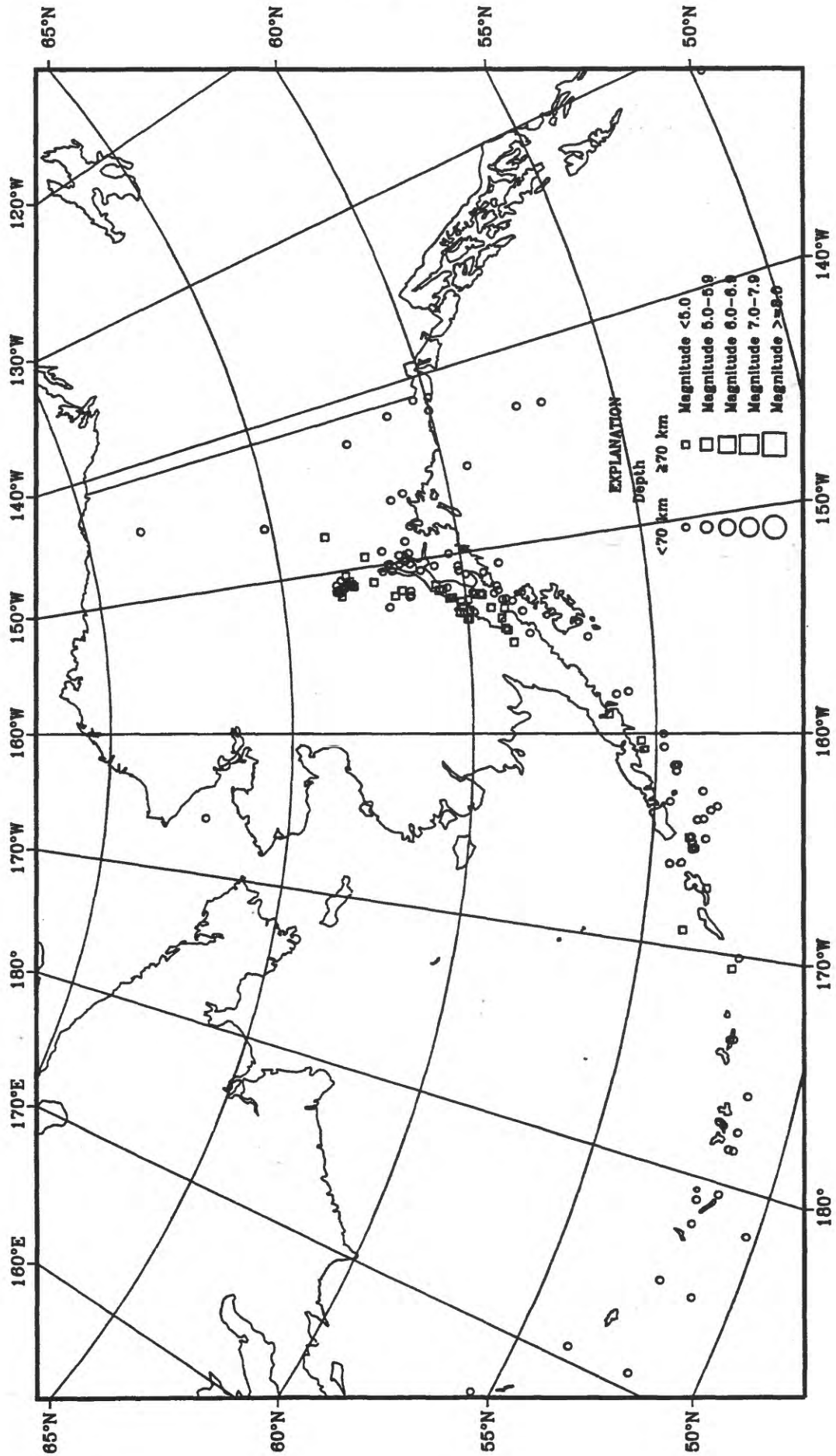
29	19	49	03.6*	51.357	N	179.525	E	33	N	3.9	1.4	15	RAT ISLANDS, ALEUTIAN ISLANDS
29	19	58	46.5*	13.679	N	145.044	E	137		3.8	0.9	13	MARIANA ISLANDS
29	21	59	46.5*	17.594	S	178.312	W	400	G	4.2	1.0	25	FIJI ISLANDS REGION
29	23	00	17.3*	6.382	S	153.590	E	33	N	4.4	1.4	10	NEW BRITAIN REGION, P.N.G.
29	23	11	08.0*	28.431	N	139.152	E	500	G	3.6	1.3	27	BONIN ISLANDS REGION
29	23	51	53.9	10.040	S	161.250	E	108	D	4.3	0.9	15	SOLOMON ISLANDS
30	00	01	30.4*	60.014	N	142.003	W	7				29	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).
30	01	17	08.3?	34.97	N	32.20	E	33	N		1.0	6	CYPRUS REGION
30	01	38	48.7?	14.55	N	143.46	E	33	N		1.4	7	MARIANA ISLANDS REGION
30	02	17	03.4*	14.657	N	144.918	E	33	N	3.9	1.2	17	MARIANA ISLANDS
30	02	43	21.5?	24.39	S	179.07	E	600	G	4.0	0.7	9	SOUTH OF FIJI ISLANDS
30	03	00	12.6?	14.67	N	145.01	E	33	N		1.2	8	MARIANA ISLANDS
30	03	10	59.1*	14.611	N	144.959	E	33	N	3.8	0.9	8	MARIANA ISLANDS
30	03	28	34.7	14.696	N	144.826	E	33	N	5.0 5.2	1.2	97	MARIANA ISLANDS. Mw 5.8 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 03:28:37.3; Lat 14.58 N; Lon 144.57 E; Dep 15.0 Bdy; Half- duration 1.9 sec; Principal axes (scale 10**17 Nm): (T) Val=-5.58, Plg=9, Azm=24; (N) Val=-0.31, Plg=9, Azm=116; (P) Val=-5.27, Plg=77, Azm=250; Best double couple: Mo=5.4*10**17 Nm; NPl: Strike=103, Dip=37, Slip=-106; NP2: Strike=302, Dip=55, Slip=-79.
30	03	36	11.9	40.178	N	143.669	E	27	D	5.0	0.9	57	OFF EAST COAST OF HONSHU, JAPAN
30	03	45	15.2?	14.63	N	144.55	E	33	N	4.3	1.3	11	MARIANA ISLANDS
30	04	01	06.9	43.247	N	2.330	W	10	G		0.9	33	SPAIN. ML 4.2 (STR). mbLg 3.6 (MDD). Felt (IV) in the epicentral area.
30	04	12	18.0	43.236	N	2.293	W	10	G		1.0	25	SPAIN. ML 3.9 (STR). mbLg 3.5 (MDD). Felt (III) in the epicentral area.
30	04	15	55.5*	7.403	S	106.702	E	33	N	4.6	1.2	43	JAWA, INDONESIA
30	04	16	21.8*	14.723	N	144.853	E	33	N	4.7	1.5	15	MARIANA ISLANDS
30	04	54	48.2	43.496	N	135.626	E	345	D	5.1	0.7	206	NEAR SOUTHEAST COAST OF RUSSIA
30	04	57	20.0*	40.436	N	126.332	W	3			1.0	10	OFF COAST OF NORTHERN CALIFORNIA. <GM-P>. MD 3.1 (GM). ML 3.3 (GS).
30	05	24	14.5	14.664	N	144.648	E	33	N	4.9 4.5	1.1	46	MARIANA ISLANDS. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 05:24:18.4; Lat 14.28 N; Lon 144.38 E; Dep 21.7; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=-7.67, Plg=32, Azm=33; (N) Val=0.54, Plg=7, Azm=127; (P) Val=-8.21, Plg=57, Azm=228; Best double couple: Mo=7.9*10**16 Nm; NPl: Strike=98, Dip=15, Slip=-120; NP2: Strike=309, Dip=77, Slip=-83.
30	05	35	26.9*	14.581	N	144.806	E	33	N	4.2	1.3	17	MARIANA ISLANDS
30	05	52	11.0	37.592	N	20.935	E	33	N	4.2	1.2	40	IONIAN SEA
30	05	53	13.3*	14.679	N	144.819	E	33	N	3.9	0.9	9	MARIANA ISLANDS
30	06	21	35.7	20.088	N	121.523	E	33	N	4.9	0.9	30	PHILIPPINE ISLANDS REGION
30	06	29	11.5	14.616	N	144.849	E	33	N	4.3	0.9	17	MARIANA ISLANDS
30	06	31	51.8*	61.440	N	148.856	W	38				24	SOUTHERN ALASKA. <AEIC>. ML 2.8 (AEIC).
30	06	38	53.0?	31.87	S	69.58	W	170	G		0.3	9	SAN JUAN PROVINCE, ARGENTINA. MD 3.2 (SAN).
30	06	49	27.4	2.783	S	80.493	W	33	N	4.5	0.8	30	NEAR COAST OF ECUADOR
30	06	56	36.9	44.699	N	6.703	E	5	G		0.5	19	FRANCE. ML 2.9 (STR).
30	06	59	39.2*	14.653	N	144.884	E	33	N	4.5	1.0	28	MARIANA ISLANDS
30	07	12	45.5	45.353	N	150.873	E	33	N	4.9	0.9	71	KURIL ISLANDS
30	07	47	03.3?	18.61	N	67.72	W	33	N		0.4	7	MONA PASSAGE. MD 3.2 (MPR).
30	08	28	03.8*	32.934	S	70.894	W	70	G		0.2	10	CHILE-ARGENTINA BORDER REGION. MD 3.1 (SAN).
30	08	30	03.4*	4.098	N	126.406	E	90	?	4.5	1.3	30	TALAUD ISLANDS, INDONESIA
30	08	40	22.9*	41.416	S	174.017	E	33	N		0.6	9	COOK STRAIT, NEW ZEALAND. ML 4.1 (WEL). Felt at Blenheim on the South Island.
30	08	51	42.8	5.395	N	126.240	E	70	*	4.4	1.0	26	MINDANAO, PHILIPPINE ISLANDS
30	10	28	54.4*	8.598	S	117.457	E	128	?	4.8	1.1	16	SUMBAWA REGION, INDONESIA
30	11	09	10.3	14.657	N	144.812	E	33	N	4.3	1.2	30	MARIANA ISLANDS
30	11	41	27.9*	44.840	N	111.498	W	4				46	HEBGEN LAKE REGION. <BUT-P>. ML 4.1 (BUT), 3.7 (GS).
30	12	44	32.1	31.391	S	117.875	E	10	G		0.8	8	WESTERN AUSTRALIA
30	12	51	19.6*	31.387	S	117.838	E	10	G		0.8	7	WESTERN AUSTRALIA
30	13	02	50.9	0.909	S	123.905	E	41	D	5.0	1.2	57	MINAHASSA PENINSULA, SULAWESI. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 13:02:53.3; Lat 1.13 S; Lon 124.40 E; Dep 35.3; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=-5.46, Plg=36, Azm=172; (N) Val=0.52, Plg=54, Azm=353; (P) Val=-5.97, Plg=0, Azm=262; Best double couple: Mo=5.7*10**16 Nm; NPl: Strike=313, Dip=65, Slip=27; NP2: Strike=211, Dip=65, Slip=152.
30	13	09	33.5*	14.681	N	144.721	E	33	N		0.6	8	MARIANA ISLANDS
30	13	30	34.5*	14.622	N	144.826	E	33	N		1.1	11	MARIANA ISLANDS
30	13	38	11.9*	14.618	N	144.788	E	33	N		1.0	12	MARIANA ISLANDS
30	13	44	02.8?	37.14	N	3.29	W	5	G		0.1	5	SPAIN. mbLg 2.2 (MDD).
30	13	54	38.9*	14.613	N	145.019	E	33	N	4.5	1.1	20	MARIANA ISLANDS
30	14	23	44.5	46.355	N	7.690	E	5	G		1.0	17	SWITZERLAND. ML 2.8 (STR).
30	14	35	23.6*	51.570	N	16.213	E	5	G		1.0	9	POLAND. ML 3.1 (VIE).
30	14	42	51.1	51.674	N	16.221	E	5	G		0.6	15	POLAND. ML 3.7 (GRF), 3.6 (VIE).
30	15	18	23.2	14.618	N	144.832	E	33	N	4.2	1.0	14	MARIANA ISLANDS
30	15	54	05.6	4.622	S	154.169	E	400	G	4.4	0.9	72	SOLOMON ISLANDS
30	16	10	54.5	14.680	N	145.005	E	33	N	4.5	1.0	36	MARIANA ISLANDS
30	16	44	44.1*	51.161	N	15.866	E	5	G		1.0	7	POLAND. ML 3.1 (VIE).
30	17	16	18.6*	14.602	N	144.814	E	33	N		0.7	9	MARIANA ISLANDS
30	17	26	07.9*	63.052	N	150.907	W	126		3.9		61	CENTRAL ALASKA. <AEIC>.
30	17	42	20.5*	17.818	N	96.498	E	33	N		1.1	8	MYANMAR
30	18	18	25.2	14.669	N	144.787	E	33	N	4.5	1.0	25	MARIANA ISLANDS
30	19	41	52.6*	31.439	S	117.711	E	10	G		0.4	5	WESTERN AUSTRALIA
30	19	43	05.0	14.635	N	144.855	E	33	N	4.7	1.1	42	MARIANA ISLANDS
30	19	45	14.1*	31.429	S	117.709	E	10	G		0.8	5	WESTERN AUSTRALIA
30	20	24	26.0?	14.68	N	145.23	E	33	N		0.7	7	MARIANA ISLANDS
30	21	01	40.2*	51.884	N	179.015	E	33	N	4.6	1.4	20	RAT ISLANDS, ALEUTIAN ISLANDS
30	21	16	04.1	45.398	N	150.830	E	36	D	4.8 4.0	0.9	77	KURIL ISLANDS

30	21	36	46.7*	9.107	N	126.403	E	33	N	4.8	1.1	14	MINDANAO, PHILIPPINE ISLANDS
30	21	38	32.0	44.696	N	148.237	E	54	D	4.4	0.9	31	KURIL ISLANDS
30	21	46	33.77	51.45	N	178.46	W	33	N	4.1	0.6	8	ANDREANOF ISLANDS, ALEUTIAN IS.
30	21	51	56.3*	14.673	N	144.921	E	33	N		1.3	15	MARIANA ISLANDS
30	21	53	44.0	9.207	N	126.596	E	70	G	4.9	1.1	50	MINDANAO, PHILIPPINE ISLANDS
30	22	00	00.0*	44.520	N	113.381	E	10	G		1.2	11	NORTHEASTERN CHINA
30	22	02	19.0	16.409	N	46.512	W	10	G	4.6 4.5	1.2	42	NORTHERN MID-ATLANTIC RIDGE
30	22	10	22.0*	9.259	N	126.779	E	33	N	4.8	1.2	28	MINDANAO, PHILIPPINE ISLANDS
30	22	39	31.7*	34.902	N	116.927	W	5				25	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.7 (PAS).
30	23	35	26.6*	24.232	S	66.803	W	188	*	4.2	1.2	17	SALTA PROVINCE, ARGENTINA
31	00	05	04.9	14.602	N	144.857	E	33	*	4.4	1.0	27	MARIANA ISLANDS
31	00	11	06.3	14.694	N	144.746	E	25	D	4.6	1.1	36	MARIANA ISLANDS
31	00	16	41.4*	14.593	N	144.985	E	33	N	4.0	0.8	10	MARIANA ISLANDS
31	00	24	13.9*	37.736	N	122.090	W	9				23	CENTRAL CALIFORNIA. <GM-P>. MD 3.0 (GM). ML 3.0 (BRK), 3.0 (GS). Felt in the epicentral area.
31	00	56	43.3*	63.437	N	151.137	W	9				20	CENTRAL ALASKA. <AEIC>. ML 3.0 (AEIC), 3.3 (PMR). Felt at the Wonder Lake Ranger Station near Kantishna.
31	00	58	00.27	42.95	N	139.25	E	227	*		1.1	8	HOKKAIDO, JAPAN REGION
31	01	21	31.9*	14.502	N	144.406	E	25	D	4.1	1.1	14	MARIANA ISLANDS
31	01	33	58.97	11.53	N	61.57	W	10	G		1.2	4	WINDWARD ISLANDS
31	01	44	26.77	3.20	S	145.66	E	33	N	3.6	1.1	6	NEAR N COAST OF NEW GUINEA, PNG.
31	02	07	39.1*	3.547	S	145.341	E	31	D	4.4	1.2	15	NEAR N COAST OF NEW GUINEA, PNG.
31	02	43	29.8*	59.915	N	151.181	W	40				33	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.8 (AEIC).
31	03	12	59.97	14.19	N	145.63	E	33	N		0.6	6	MARIANA ISLANDS
31	04	48	47.17	15.20	S	176.90	W	33	N	4.2	0.7	7	FIJI ISLANDS REGION
31	04	54	58.77	14.28	N	145.46	E	33	N		0.7	6	MARIANA ISLANDS
31	06	12	59.8*	8.339	S	75.277	W	150	G		0.9	7	CENTRAL PERU
31	06	32	27.4*	45.628	N	26.526	E	150	G		0.3	7	ROMANIA
31	07	09	16.77	40.78	S	175.57	E	33	N		0.3	5	NORTH ISLAND, NEW ZEALAND. ML 2.2 (WEL).
31	07	25	08.9*	34.907	S	111.367	W	10	G	4.4 4.0	1.1	31	SOUTHERN EAST PACIFIC RISE
31	08	00	55.4	31.406	S	117.831	E	10	G		1.1	7	WESTERN AUSTRALIA
31	08	02	23.4	1.649	N	127.320	E	124	*	5.2	0.8	35	HALMAHERA, INDONESIA
31	08	04	41.5*	37.242	N	3.680	W	10	G		0.6	5	SPAIN. mbLg 2.1 (MDD).
31	08	05	01.4*	13.509	S	166.766	E	33	N	4.6	1.1	22	VANUATU ISLANDS
31	08	07	10.1*	23.997	S	66.695	W	205	*		0.7	11	JUJUY PROVINCE, ARGENTINA
31	08	11	14.3*	31.440	S	117.674	E	10	G		0.4	5	WESTERN AUSTRALIA
31	08	12	29.1*	5.068	S	151.184	E	54	*	4.6	1.3	28	NEW BRITAIN REGION, P.N.G.
31	08	19	16.87	4.52	S	150.77	E	42	?	4.0	0.8	10	NEW BRITAIN REGION, P.N.G.
31	08	40	38.47	36.26	S	73.34	W	33	N		0.4	10	NEAR COAST OF CENTRAL CHILE. MD 4.1 (SAN).
31	08	41	39.7*	60.307	N	149.929	W	51				39	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.6 (AEIC).
31	09	14	10.97	22.56	S	176.24	W	33	N	4.3	0.9	10	SOUTH OF FIJI ISLANDS
31	09	33	51.4*	5.193	N	125.912	E	107	*	4.5	0.8	24	MINDANAO, PHILIPPINE ISLANDS
31	10	05	36.8*	6.203	S	146.983	E	33	N	3.7	1.1	11	EASTERN NEW GUINEA REG., P.N.G.
31	10	26	30.5	44.729	N	150.173	E	33	N	4.7 4.3	0.9	28	EAST OF KURIL ISLANDS
31	10	59	57.5	30.287	S	177.993	W	55	D	5.1	1.2	73	KERMADEC ISLANDS, NEW ZEALAND. Felt (II) on Raoul.
31	11	09	27.07	30.14	S	177.56	W	33	N	4.7	1.2	15	KERMADEC ISLANDS, NEW ZEALAND
31	11	15	58.17	31.64	S	69.70	W	160	G		0.5	9	SAN JUAN PROVINCE, ARGENTINA. MD 3.3 (SAN).
31	11	21	07.1*	33.832	S	70.889	W	70	G		0.2	9	CHILE-ARGENTINA BORDER REGION. MD 2.6 (SAN).
31	11	54	47.07	14.13	N	146.55	E	33	N		1.1	7	MARIANA ISLANDS
31	12	05	55.57	6.61	S	146.68	E	100	G		0.4	5	EASTERN NEW GUINEA REG., P.N.G.
31	12	27	35.0	14.593	N	144.864	E	33	N		0.9	13	MARIANA ISLANDS
31	13	01	22.1	14.673	N	144.664	E	33	N	5.0 4.9	1.0	76	MARIANA ISLANDS
31	13	19	15.17	50.22	N	13.31	E	10	G		1.0	5	CZECH AND SLOVAK REPUBLICS
31	13	41	39.6*	15.180	S	72.105	W	122	*	3.7	0.7	17	SOUTHERN PERU
31	13	51	19.5*	72.913	N	7.256	E	33	N		0.7	5	NORWEGIAN SEA
31	14	14	00.2	12.838	N	88.274	W	178	*	4.9	1.0	149	OFF COAST OF CENTRAL AMERICA
31	15	23	48.1	31.406	S	117.854	E	10	G	4.1	0.9	15	WESTERN AUSTRALIA
31	15	50	27.9	31.359	S	117.993	E	10	G	3.2	1.5	15	WESTERN AUSTRALIA
31	16	28	01.4*	52.085	N	175.100	E	33	N		1.0	11	RAT ISLANDS, ALEUTIAN ISLANDS
31	16	42	35.1*	31.442	S	117.698	E	10	G		0.7	5	WESTERN AUSTRALIA
31	17	20	57.77	1.22	N	98.40	E	33	N	4.5	1.5	11	NORTHERN SUMATERA, INDONESIA
31	17	29	30.0*	60.452	N	152.412	W	99				31	SOUTHERN ALASKA. <AEIC>.
31	17	41	31.67	5.46	S	147.48	E	33	N	3.7	0.8	5	EASTERN NEW GUINEA REG., P.N.G.
31	17	44	58.6*	8.897	N	127.212	E	33	N	4.2	1.0	14	PHILIPPINE ISLANDS REGION
31	19	01	38.1*	31.480	S	117.651	E	10	G		0.6	5	WESTERN AUSTRALIA
31	19	19	38.5*	32.165	N	115.672	W	6	G			24	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 2.9 (PAS). MD 3.7 (ECK).
31	19	21	09.5	14.683	N	144.743	E	26	D	4.5	1.0	36	MARIANA ISLANDS
31	19	44	33.27	32.36	S	71.04	W	80	G		0.3	10	NEAR COAST OF CENTRAL CHILE. MD 3.6 (SAN).
31	20	51	28.3*	45.544	N	26.700	E	100	G		0.1	5	ROMANIA
31	21	22	31.8*	31.443	S	117.696	E	10	G		0.7	5	WESTERN AUSTRALIA
31	21	23	13.0*	31.443	S	117.729	E	10	G		0.3	5	WESTERN AUSTRALIA
31	21	45	52.6*	14.992	S	173.642	W	33	N	4.4 4.3	1.0	23	SAMOA ISLANDS REGION
31	22	00	08.87	19.02	S	177.73	W	500	G	4.2	0.9	17	FIJI ISLANDS REGION
31	22	26	18.6*	41.378	S	174.968	E	33	N		0.5	9	COOK STRAIT, NEW ZEALAND. ML 2.6 (WEL).
31	23	44	25.0*	4.422	S	144.071	E	118		4.3	1.2	17	NEAR N COAST OF NEW GUINEA, PNG.
31	23	56	54.1*	14.594	N	145.516	E	33	N	4.3	1.0	18	MARIANA ISLANDS

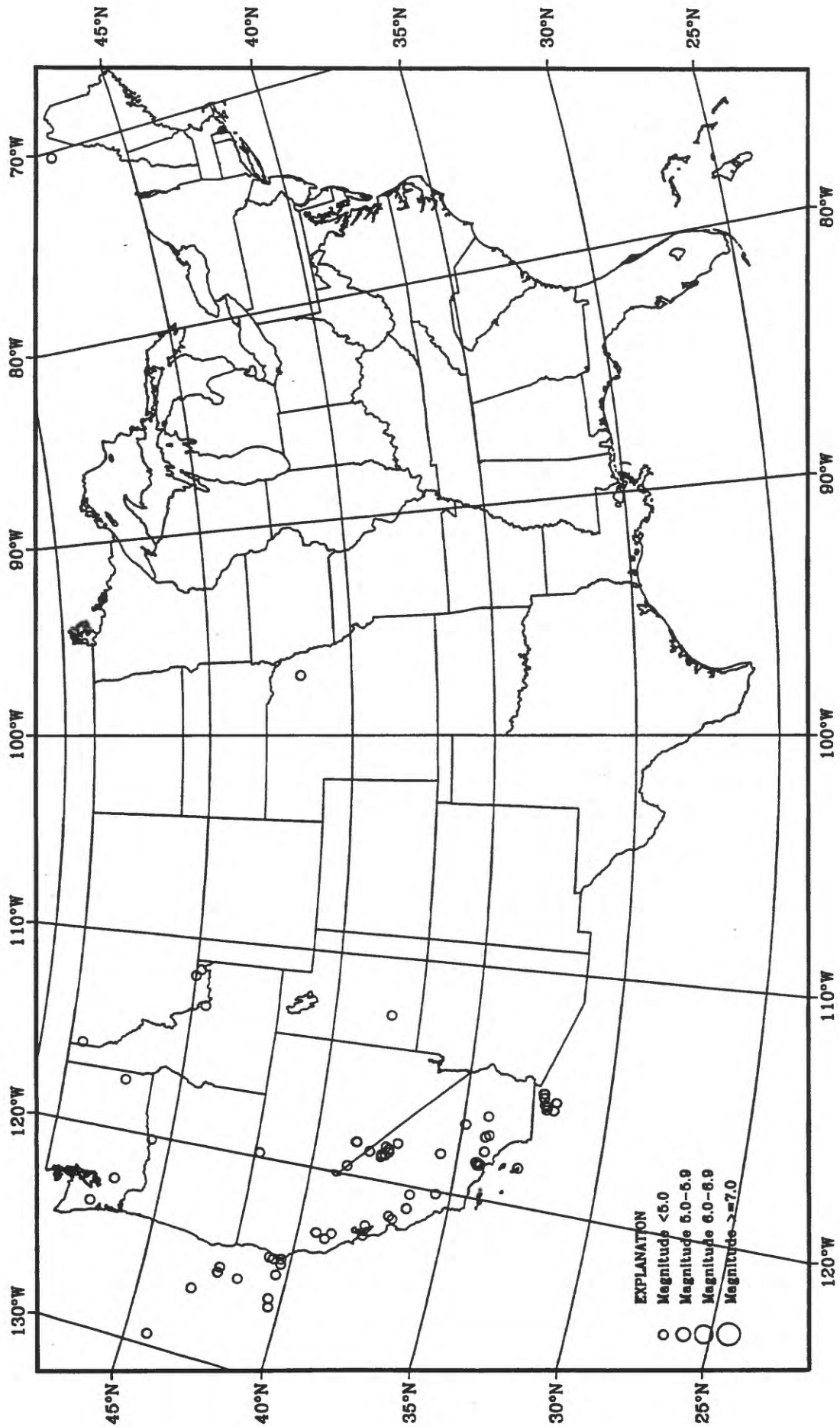
Earthquake Focal Mechanisms for August 1997



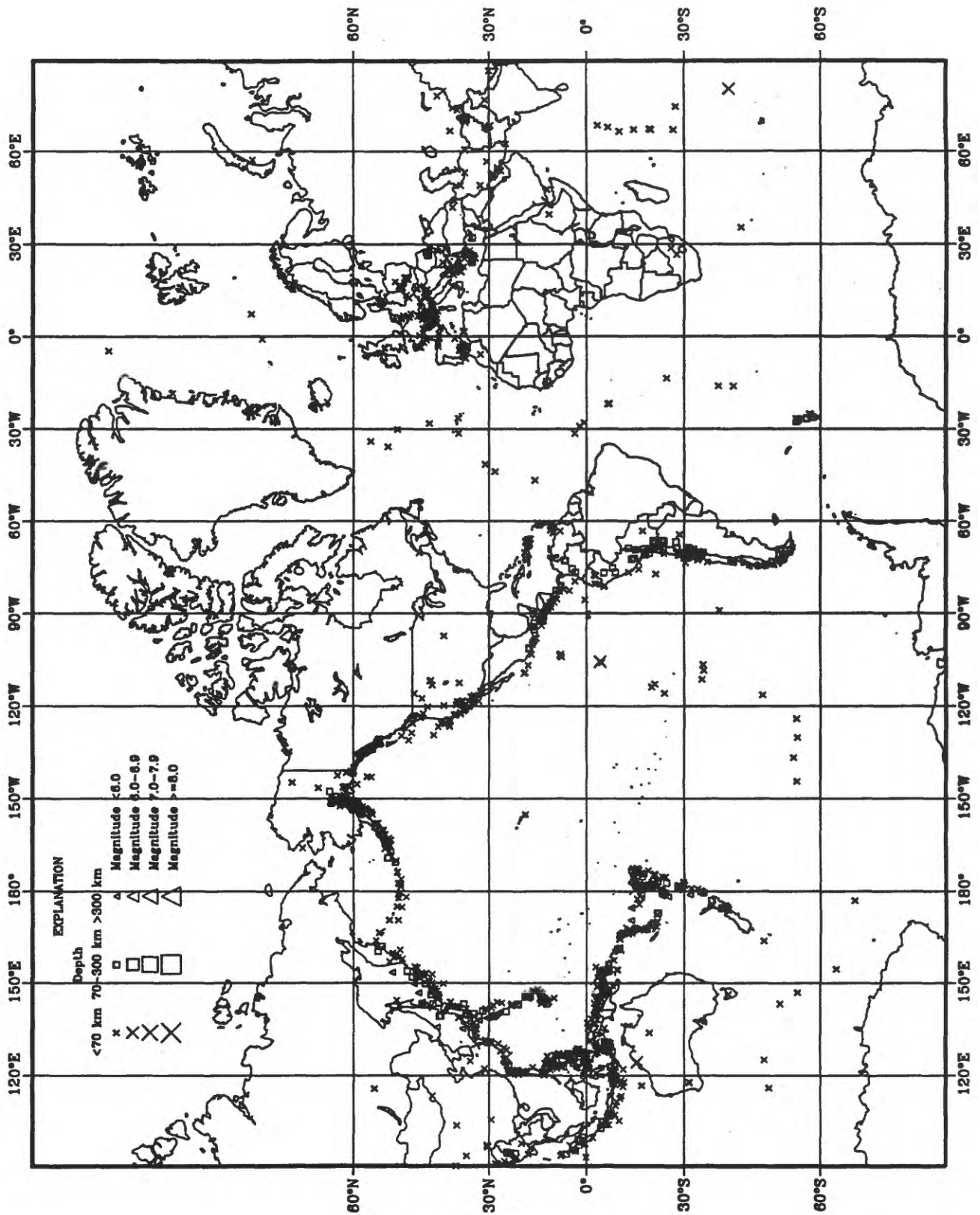
Earthquake epicenters in Alaska and adjacent regions for August 1997



Earthquake epicenters in the conterminous United States and adjacent regions for August 1997



Earthquakes located worldwide in August 1997



Preliminary Determination of Epicenters

Monthly Listing

National Earthquake Information Center

SEPTEMBER 1997

ORIGIN TIME				GEOGRAPHIC COORDINATES		DEPTH	MAGNITUDE	SD	NO.	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS		
UTC							GS		STA			
DAY	HR	MN	SEC	LAT	LONG		MB Msz		USED			
01	00	05	10.1	20.485 S	177.967 W	550 G	4.5	0.9	52	FIJI ISLANDS REGION		
01	00	22	51.5*	44.766 N	150.350 E	33 N	4.7	1.3	31	EAST OF KURIL ISLANDS		
01	00	36	21.6*	35.450 N	118.433 W	6			39	CENTRAL CALIFORNIA. <PAS-P>. ML 3.5 (PAS), 3.5 (GS).		
01	01	04	18.0*	59.893 N	153.857 W	147			48	SOUTHERN ALASKA. <AEIC>.		
01	01	43	25.5*	28.38 N	52.65 E	33 N	4.1	0.9	13	SOUTHERN IRAN		
01	01	54	06.7*	51.465 N	177.626 W	33 N	4.5	0.9	27	ANDREANOF ISLANDS, ALEUTIAN IS.		
01	02	08	09.8*	14.614 N	145.131 E	33 N	3.8	0.5	11	MARIANA ISLANDS		
01	02	56	43.3	14.635 N	144.836 E	33 N	4.5	0.9	29	MARIANA ISLANDS		
01	03	36	54.0	30.186 N	131.040 E	33 N	4.7	1.2	54	KYUSHU, JAPAN		
01	04	08	21.7	44.829 N	110.913 W	5 G		1.2	22	YELLOWSTONE REGION, WYOMING. ML 3.8 (BUT), 3.4 (GS).		
01	04	36	02.9*	14.48 N	144.54 E	33 N	3.6	1.6	6	MARIANA ISLANDS		
01	04	39	09.0*	32.24 S	178.27 W	33 N	4.2	1.0	11	SOUTH OF KERMADEC ISLANDS		
01	04	52	24.2*	59.995 N	151.819 W	53			66	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.6 (AEIC).		
01	04	57	37.8*	36.46 N	71.04 E	100 G		1.3	7	AFGHANISTAN-TAJIKISTAN BORD REG.		
01	05	18	46.9	0.059 S	16.730 W	10 G	4.6	1.1	44	NORTH OF ASCENSION ISLAND		
01	05	48	37.7	34.999 S	70.717 W	100 G	4.3	1.0	24	CHILE-ARGENTINA BORDER REGION. MD 4.4 (SAN). Felt (III) at Talca, Chile.		
01	06	19	10.8*	36.624 N	71.118 E	200 G	4.0	0.9	11	AFGHANISTAN-TAJIKISTAN BORD REG.		
01	06	49	40.5*	32.17 S	71.51 W	50 G		0.3	9	NEAR COAST OF CENTRAL CHILE. MD 3.3 (SAN).		
01	07	40	24.3	51.175 N	178.297 W	33 N	4.7 4.4	1.0	128	ANDREANOF ISLANDS, ALEUTIAN IS.		
01	08	07	03.4*	8.52 S	123.92 E	162 ?	4.0	0.3	8	FLORES REGION, INDONESIA		
01	09	25	06.7*	12.67 N	87.27 W	33 N	4.0	1.4	5	NEAR COAST OF NICARAGUA		
01	09	32	45.3*	43.669 N	146.680 E	33 N		0.4	7	KURIL ISLANDS		
01	09	48	33.2*	18.087 S	123.035 E	10 G	4.3	1.3	11	WESTERN AUSTRALIA		
01	10	39	47.8*	14.16 N	145.63 E	33 N		1.0	7	MARIANA ISLANDS		
01	10	50	19.5	18.944 N	95.836 W	33 N	4.3	1.2	45	VERACRUZ, MEXICO. Felt at Boca del Rio and Veracruz.		
01	12	30	45.1*	60.026 N	151.906 W	74			78	KENAI PENINSULA, ALASKA. <AEIC>.		
01	12	36	29.5	1.590 S	15.572 W	10 G	5.1 5.3	1.0	170	NORTH OF ASCENSION ISLAND. Mw 5.6 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 12:36:36.7; Lat 1.11 S; Lon 15.61 W; Dep 15.0 Fix; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=2.78, Plg=19, Azm=215; (N) Val=0.58, Plg=58, Azm=340; (P) Val=-3.36, Plg=24, Azm=116; Best double couple: Mo=3.1*10**17 Nm; NP1: Strike=257, Dip=58, Slip=-176; NP2: Strike=165, Dip=87, Slip=-32.		
01	14	07	00.0	53.572 N	160.689 E	33 N	4.9	0.8	157	NEAR EAST COAST OF KAMCHATKA		
01	14	48	36.1*	21.12 S	179.01 W	500 G	3.8	0.7	15	FIJI ISLANDS REGION		
01	14	56	26.1*	16.56 S	168.17 E	33 N	3.9	1.2	8	VANUATU ISLANDS		
01	15	12	35.9*	51.15 N	15.81 E	5 G		0.7	4	POLAND. MG 2.4 (WAR).		
01	15	30	24.4*	36.715 N	121.009 W	8			14	CENTRAL CALIFORNIA. <GM-P>. MD 2.8 (GM).		
01	15	30	28.9*	9.180 N	126.650 E	86 ?	3.8	0.8	14	MINDANAO, PHILIPPINE ISLANDS		
01	15	56	44.7*	5.72 S	127.89 E	340 ?	3.9	1.1	10	BANDA SEA		
01	16	13	36.2*	60.052 N	153.243 W	127			92	SOUTHERN ALASKA. <AEIC>.		
01	16	28	24.4*	45.601 N	26.996 E	33 N		0.4	5	ROMANIA		
01	16	50	14.8*	72.858 N	6.110 E	10 G	4.1	1.3	14	NORWEGIAN SEA		
01	17	07	48.7	35.242 N	133.288 E	10 G		0.9	9	WESTERN HONSHU, JAPAN		
01	18	06	53.3*	33.66 S	178.50 W	33 N	4.1	0.6	9	SOUTH OF KERMADEC ISLANDS		
01	20	17	39.0*	14.685 N	145.196 E	33 N		1.4	11	MARIANA ISLANDS		
01	20	41	54.5*	59.518 N	152.671 W	73			90	SOUTHERN ALASKA. <AEIC>.		
01	20	54	19.5*	56.722 S	141.414 W	10 G	4.4	0.9	13	PACIFIC-ANTARCTIC RIDGE		
01	21	41	05.4*	20.98 S	177.33 W	400 G	3.8	1.4	14	FIJI ISLANDS REGION		
01	21	43	01.3*	18.07 S	69.71 W	150 G		1.3	6	NORTHERN CHILE		
01	21	48	30.9*	45.65 N	12.76 E	10 G		0.4	7	NORTHERN ITALY. ML 2.6 (VIE).		
01	22	59	28.6	0.027 N	16.806 W	10 G	5.2 4.8	1.1	182	NORTH OF ASCENSION ISLAND. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 22:59:32.6; Lat 0.36 N; Lon 16.63 W; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.77, Plg=22, Azm=227; (N) Val=-0.14, Plg=13, Azm=322; (P) Val=-1.53, Plg=64, Azm=80; Best double couple: Mo=1.7*10**17 Nm; NP1: Strike=293, Dip=26, Slip=-122; NP2: Strike=147, Dip=69, Slip=-76.		

01	23	17	23.9*	0.083	N	16.790	W	10	G	0.8	9	NORTH OF ASCENSION ISLAND
02	00	19	48.0	41.250	N	142.566	E	55		0.9	169	HOKKAIDO, JAPAN REGION
02	00	21	42.9*	50.192	N	18.908	E	10	G	0.6	6	POLAND. ML 2.8 (CLL).
02	00	30	52.0	47.547	N	7.795	E	10	G	0.7	17	SWITZERLAND. ML 2.9 (FUR).
02	00	39	31.0	26.978	N	140.110	E	481		0.9	124	BONIN ISLANDS REGION
02	01	16	16.0	51.479	N	176.853	W	33	N	4.6	58	ANDREANOF ISLANDS, ALEUTIAN IS.
02	02	10	49.7*	14.215	N	144.123	E	33	N	3.7	11	MARIANA ISLANDS
02	02	12	06.7*	51.264	N	16.095	E	5	G	1.0	7	POLAND. ML 3.1 (VIE).
02	02	17	05.4?	32.25	S	71.83	W	33	N	0.4	9	NEAR COAST OF CENTRAL CHILE
02	02	41	39.0	29.259	S	71.295	W	63	D	4.8	1.1	35 NEAR COAST OF CENTRAL CHILE. Felt (III) at Andacollo, Coquimbo, La Serena and Tongoy.
02	03	16	42.6?	23.96	S	173.89	W	33	N	4.4	0.4	9 TONGA ISLANDS REGION
02	03	37	19.5*	6.042	S	130.677	E	33	N	4.0	0.6	6 BANDA SEA
02	04	51	21.6?	4.82	S	153.07	E	33	N	4.1	0.6	7 NEW IRELAND REGION, P.N.G.
02	07	52	05.2*	54.075	N	164.711	W	73		4.0	56	UNIMAK ISLAND REGION. <AEIC>. Felt on Akutan.
02	09	46	58.5	21.769	S	176.185	W	139	D	4.8	0.9	53 FIJI ISLANDS REGION
02	10	07	05.2*	60.542	N	142.248	W	0			22	SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).
02	10	10	36.2*	60.223	N	153.077	W	140			29	SOUTHERN ALASKA. <AEIC>.
02	10	53	48.0	31.779	S	71.020	W	72	D	4.6	0.9	55 NEAR COAST OF CENTRAL CHILE. MD 4.9 (SAN). Felt (V) at Illapel and Los Vilos; (IV) at Cabildo, Canela, La Ligua, Papudo, Petorca, Salamanca and Zapallar; (III) at Chincolco, Los Andes, Quintero, San Felipe and Santiago; (II) at Concon.
02	11	38	15.8*	11.633	N	85.750	W	200	G	4.0	1.2	19 NICARAGUA
02	12	02	23.5*	10.395	N	85.667	W	100	G	4.4	1.1	17 COSTA RICA
02	12	13	22.9	3.849	N	75.749	W	199		6.5	0.9	420 COLOMBIA. Mw 6.8 (GS), 6.8 (HRV). Me 6.5 (GS). mb 6.0 (BRK). Felt at Armenia, Bogota, Cali, Ibague, Manizales, Medellin, Pereira and many other parts of central and western Colombia. Also felt (II) at Panama City and Penonome, Panama.
												Broadband Source Parameters (GS): Dep 206; NP1: Strike=122, Dip=67, Slip=120; NP2: Strike=246, Dip=37, Slip=40; Radiated energy 1.2*10**14 Nm. Complex earthquake. A small event is followed by at least three larger events about 1.0, 4.0 and 7.0 seconds later. Depth and focal mechanism based on first of the larger events.
												Moment Tensor (GS): Dep 211; Principal axes (scale 10**19 Nm): (T) Val=-1.40, Plg=62, Azm=86; (N) Val=0.76, Plg=27, Azm=284; (P) Val=-2.15, Plg=8, Azm=190; Best double couple: Mo=1.8*10**19 Nm; NP1: Strike=252, Dip=44, Slip=49; NP2: Strike=123, Dip=58, Slip=122.
												Centroid, Moment Tensor (HRV): Centroid origin time 12:13:33.6; Lat 4.00 N; Lon 75.57 W; Dep 213.2; Half-duration 5.5 sec; Principal axes (scale 10**19 Nm): (T) Val=-1.21, Plg=70, Azm=95; (N) Val=0.82, Plg=20, Azm=276; (P) Val=-2.03, Plg=0, Azm=186; Best double couple: Mo=1.6*10**19 Nm; NP1: Strike=256, Dip=48, Slip=62; NP2: Strike=115, Dip=49, Slip=117.
												Scalar Moment (PPT): Mo=8.0*10**18 Nm.
02	12	40	37.3*	33.764	N	137.381	E	346		4.3	1.0	18 NEAR S. COAST OF HONSHU, JAPAN
02	13	10	32.7	30.067	N	130.876	E	55	*	4.6	1.2	42 KYUSHU, JAPAN
02	13	31	13.7*	40.371	N	1.052	E	10	G		0.8	10 BALEARIC ISLANDS. mbLg 3.1 (MDD).
02	13	47	35.9*	34.150	N	117.335	W	7			23	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS), 3.1 (GS). Felt.
02	14	53	08.1	34.342	N	141.363	E	33	N	4.4	1.3	29 OFF EAST COAST OF HONSHU, JAPAN
02	15	32	56.8*	34.147	N	117.331	W	6			22	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.7 (PAS).
02	16	06	44.4	29.569	N	142.122	E	41	D	4.5	1.1	41 SOUTH OF HONSHU, JAPAN
02	16	25	43.8*	54.353	N	164.411	E	33	N	4.1	0.8	12 KOMANDORSKY ISLANDS REGION
02	17	13	54.0*	44.116	N	7.580	E	10	G		0.5	9 NORTHERN ITALY. ML 2.0 (GEN).
02	17	50	28.9*	13.581	S	166.268	E	33	N	4.7	1.1	37 VANUATU ISLANDS
02	18	59	54.9?	32.48	S	70.04	W	130	G		0.3	9 CHILE-ARGENTINA BORDER REGION. MD 2.8 (SAN).
02	19	08	27.8*	35.474	N	139.530	E	145	*		0.8	8 NEAR S. COAST OF HONSHU, JAPAN
02	19	15	42.0*	21.540	N	120.371	E	33	N	4.6	0.7	13 TAIWAN REGION
02	19	26	14.4*	6.356	S	104.087	E	100	G	4.3	1.1	11 SUNDIA STRAIT
02	20	16	37.2*	63.109	N	150.474	W	109			46	CENTRAL ALASKA. <AEIC>.
02	20	24	03.4?	40.75	S	85.16	W	10	G	4.3	1.4	10 WEST CHILE RISE
02	20	33	18.9*	6.076	S	153.722	E	33	N	4.2	1.1	18 NEW BRITAIN REGION, P.N.G.
02	21	05	47.9*	60.192	N	139.655	W	8			20	SOUTHEASTERN ALASKA. <AEIC>. ML 2.5 (AEIC).
02	22	15	41.8*	33.540	S	70.812	W	70	G		0.3	9 CHILE-ARGENTINA BORDER REGION. MD 2.5 (SAN).
02	22	29	37.1*	60.086	N	139.817	W	2			19	SOUTHEASTERN ALASKA. <AEIC>. ML 3.7 (AEIC), 3.9 (PMR).
02	22	30	08.2*	57.599	N	137.542	E	10	G	4.4	1.0	10 SOUTHEASTERN SIBERIA, RUSSIA
02	23	39	07.2*	60.882	N	152.223	W	102			33	SOUTHERN ALASKA. <AEIC>.
02	23	39	49.4*	14.623	N	145.020	E	33	N	4.4	1.1	18 MARIANA ISLANDS
02	23	45	28.2?	53.00	N	172.70	E	33	N		0.4	6 NEAR ISLANDS, ALEUTIAN ISLANDS
03	00	39	44.7	42.924	N	0.267	W	10	G		0.6	7 PYRENEES. ML 2.5 (LDG), 1.9 (STR).
03	00	44	17.9*	14.571	N	145.137	E	42	*	4.4	0.9	27 MARIANA ISLANDS
03	01	17	15.9	58.589	N	143.581	W	10	G		0.6	26 GULF OF ALASKA. ML 3.6 (PMR), 3.2 (AEIC).
03	02	10	38.5	43.100	N	0.147	E	10	G		1.1	21 FRANCE. ML 3.1 (LDG), 2.7 (STR). mbLg 3.0 (MDD).
03	03	41	02.3*	10.895	N	61.851	W	33	N		0.6	5 TRINIDAD
03	03	46	25.4*	33.461	N	118.195	W	2			22	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
03	04	00	42.4	33.736	S	70.167	W	107	D	4.3	0.9	26 CHILE-ARGENTINA BORDER REGION. MD 4.4 (SAN). Felt (III) at Santiago and Talagante; (II) at Valparaiso, Chile.
03	04	36	17.8	34.341	N	25.404	E	50	G	3.9	1.4	45 CRETE
03	04	44	16.8*	63.267	N	151.107	W	8			9	CENTRAL ALASKA. <AEIC>. ML 2.4 (AEIC), 2.9 (PMR).
03	05	07	38.1	42.920	N	2.558	E	10	G		0.6	6 PYRENEES. ML 2.7 (LDG). Felt (III) at St-Paul-de-Fenouillet, France.
03	05	12	51.2	31.340	S	117.952	E	10	G	4.0	1.5	18 WESTERN AUSTRALIA
03	06	22	44.2*	55.190	S	128.989	W	10	G	5.1	1.4	78 PACIFIC-ANTARCTIC RIDGE. Mw 6.1 (HRV), 6.0 (GS). Ms 6.1 (BRK).
												Moment Tensor (GS): Dep 12; Principal axes (scale 10**18 Nm): (T) Val=-1.17, Plg=12, Azm=344; (N) Val=0.00, Plg=71, Azm=112; (P) Val=-1.18, Plg=14, Azm=251; Best double couple: Mo=1.2*10**18 Nm; NP1: Strike=28, Dip=72, Slip=-178; NP2: Strike=298, Dip=88, Slip=-19.

Centroid, Moment Tensor (HRV): Centroid origin time
06:22:50.9; Lat 55.26 S; Lon 128.98 W; Dep 15.0 Bdy; Half-
duration 2.7 sec; Principal axes (scale 10**18 Nm): (T)
Val=1.76, Plg=11, Azm=333; (N) Val=-0.12, Plg=75, Azm=108;
(P) Val=-1.64, Plg=10, Azm=241; Best double couple:
Mo=1.7*10**18 Nm; NP1: Strike=17, Dip=75, Slip=180; NP2:
Strike=107, Dip=90, Slip=15.

Scalar Moment (PPT): Mo=4.4*10**18 Nm.

03	06	54	46.2%	33.171 S	70.402 W	100 G	0.2	10	CHILE-ARGENTINA BORDER REGION. MD 3.1 (SAN).
03	07	02	20.2%	31.493 S	117.641 E	10 G	0.8	5	WESTERN AUSTRALIA
03	07	53	31.2	11.518 N	142.009 E	43 D	4.2	1.2	26 SOUTH OF MARIANA ISLANDS
03	08	06	50.4%	28.74 N	53.04 E	33 N	1.4	8	SOUTHERN IRAN
03	08	29	13.1%	32.953 S	70.248 W	105 G	0.2	9	CHILE-ARGENTINA BORDER REGION. MD 2.8 (SAN).
03	08	45	03.7	18.952 N	145.348 E	250 G	4.4	0.9	60 MARIANA ISLANDS
03	09	11	04.6%	28.32 S	62.29 E	10 G	4.2	0.3	5 SOUTHWEST INDIAN RIDGE
03	09	28	02.2	49.437 N	5.879 E	10 G	1.2	8	FRANCE. ML 2.5 (UCC), 2.5 (LDG).
03	10	04	48.6%	31.511 S	117.663 E	10 G	1.1	5	WESTERN AUSTRALIA
03	10	18	01.0*	9.559 N	126.523 E	33 N	4.4	1.2	11 MINDANAO, PHILIPPINE ISLANDS
03	11	02	54.4*	14.512 N	144.621 E	33	4.3	1.1	22 MARIANA ISLANDS
03	12	10	25.9%	11.039 N	61.973 W	50 G	0.8	6	WINDWARD ISLANDS. MD 2.8 (TRN).
03	13	12	21.5%	37.407 N	2.365 W	5 G	0.6	5	SPAIN. mbLg 2.8 (MDD).
03	13	38	37.6	14.707 N	144.786 E	33 N	4.8	0.9	76 MARIANA ISLANDS
03	14	18	59.3*	44.912 S	34.200 E	10 G	4.2	1.4	12 PRINCE EDWARD ISLANDS REGION
03	14	35	41.7*	17.991 S	178.284 W	600 G	4.3	1.1	37 FIJI ISLANDS REGION
03	14	41	38.8*	14.581 N	144.788 E	33 N	4.3	1.2	18 MARIANA ISLANDS
03	14	49	49.8	45.396 N	6.502 E	10 G	0.8	23	FRANCE. ML 2.6 (LDG).
03	15	02	03.6%	59.266 N	153.596 W	103		20	SOUTHERN ALASKA. <AEIC>.
03	15	06	31.5%	59.763 N	139.088 W	7		18	SOUTHEASTERN ALASKA. <AEIC>. ML 3.1 (AEIC).
03	15	47	44.7%	37.042 N	4.040 W	10 G	0.6	6	SPAIN. mbLg 2.7 (MDD).
03	16	14	47.5*	5.738 N	133.816 E	33 N	3.9	1.3	7 ARU ISLANDS REGION, INDONESIA
03	17	17	26.2%	47.694 N	120.267 W	1		66	WASHINGTON. <SEA-P>. MD 3.3 (SEA).
03	17	51	56.1	43.340 N	2.297 W	5 G	1.0	18	SPAIN. ML 3.1 (LDG), 2.9 (STR). mbLg 3.1 (MDD).
03	19	24	26.6	17.870 S	178.523 W	550 G	4.4	0.9	62 FIJI ISLANDS REGION
03	20	12	33.1	35.260 N	133.291 E	10 G	4.1	1.1	14 WESTERN HONSHU, JAPAN
03	20	15	42.8	35.225 N	133.218 E	10 G	4.9	1.4	56 WESTERN HONSHU, JAPAN. Mw 5.3 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time
20:15:46.9; Lat 35.12 N; Lon 133.36 E; Dep 15.0 Fix; Half-
duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
Val=7.59, Plg=4, Azm=19; (N) Val=-1.89, Plg=63, Azm=116; (P)
Val=-9.49, Plg=27, Azm=287; Best double couple:
Mo=8.5*10**16 Nm; NP1: Strike=66, Dip=69, Slip=-163; NP2:
Strike=330, Dip=74, Slip=-22.

03	20	29	22.9*	5.847 S	146.650 E	33 N	4.3	1.2	18 EASTERN NEW GUINEA REG., P.N.G.
03	21	48	50.6	49.128 N	6.707 E	10 G		1.3	45 GERMANY. ML 3.3 (LDG), 3.1 (UCC), 3.1 (VIE). Mining induced event in the Lorraine region, France.
03	22	00	43.7%	48.729 N	155.377 E	33 N		0.8	9 KURIL ISLANDS
03	22	07	29.1	43.035 N	12.825 E	10 G	4.7	1.2	171 CENTRAL ITALY. ML 4.6 (STR), 4.6 (VIE), 4.2 (LDG).
03	22	24	25.3%	30.81 S	59.42 E	10 G	3.9	0.2	5 SOUTHWEST INDIAN RIDGE
03	23	15	39.5	38.343 N	16.350 E	10 G	4.3	1.3	96 SOUTHERN ITALY. ML 3.7 (ROM).
04	00	06	06.6	38.368 N	16.330 E	10 G	3.7	1.3	41 SOUTHERN ITALY. MD 3.5 (ROM).
04	01	02	15.7%	32.14 S	71.57 W	45 G		0.2	8 NEAR COAST OF CENTRAL CHILE. MD 3.7 (SAN).
04	01	45	39.2*	47.740 N	16.159 E	5 G		0.6	5 AUSTRIA. ML 3.1 (GRF), 2.6 (VIE). Felt (IV) at Ternitz.
04	02	02	54.7*	24.485 N	94.495 E	100 G	4.4	0.8	14 MYANMAR-INDIA BORDER REGION
04	02	20	46.8	44.760 N	7.308 E	10 G		0.6	13 NORTHERN ITALY. ML 2.0 (GEN), 1.6 (LDG).
04	02	21	55.2	51.267 N	179.726 W	60 *	4.3	1.0	25 ANDREANOF ISLANDS, ALEUTIAN IS.
04	03	02	09.8	18.809 N	145.596 E	200 G	4.4	1.1	38 MARIANA ISLANDS
04	03	49	46.7%	33.313 S	70.069 W	120 G		0.3	9 CHILE-ARGENTINA BORDER REGION. MD 2.8 (SAN).
04	03	54	27.0*	14.264 N	119.379 E	33 N	4.4	1.4	12 LUZON, PHILIPPINE ISLANDS
04	04	23	37.0	26.569 S	178.336 E	625 D	6.3	1.0	435 SOUTH OF FIJI ISLANDS. Mw 6.8 (GS), 6.8 (HRV). Me 6.5 (GS). mb 6.4 (BRK).

Broadband Source Parameters (GS): Dep 600; NP1: Strike=30, Dip=80, Slip=-90; NP2: Strike=210, Dip=10, Slip=-90;
Radiated energy 1.1*10**14 Nm. Complex earthquake.
Moment Tensor (GS): Dep 611; Principal axes (scale 10**19 Nm): (T) Val=1.57, Plg=31, Azm=105; (N) Val=0.79, Plg=7, Azm=199; (P) Val=-2.36, Plg=58, Azm=300; Best double couple: Mo=2.0*10**19 Nm; NP1: Strike=174, Dip=15, Slip=-116; NP2: Strike=21, Dip=76, Slip=-83.

Centroid, Moment Tensor (HRV): Centroid origin time
04:23:42.2; Lat 26.45 S; Lon 178.52 E; Dep 621.0; Half-
duration 6.3 sec; Principal axes (scale 10**19 Nm): (T)
Val=1.88, Plg=34, Azm=123; (N) Val=-0.39, Plg=5, Azm=29; (P)
Val=-2.27, Plg=55, Azm=292; Best double couple:
Mo=2.1*10**19 Nm; NP1: Strike=235, Dip=12, Slip=-64; NP2:
Strike=28, Dip=80, Slip=-95.

Scalar Moment (PPT): Mo=2.2*10**19 Nm.

04	04	30	24.4*	26.256 S	178.390 E	600 G	4.8	1.1	24 SOUTH OF FIJI ISLANDS
04	05	36	57.9%	52.254 N	30.686 W	10 G		0.7	8 NORTHERN MID-ATLANTIC RIDGE
04	05	40	37.1%	26.24 S	178.61 E	600 G	4.4	1.0	15 SOUTH OF FIJI ISLANDS
04	06	02	24.5	26.176 S	178.210 E	628 D	5.1	1.0	95 SOUTH OF FIJI ISLANDS
04	06	48	12.0	23.739 N	142.805 E	33 N	4.6	0.9	34 VOLCANO ISLANDS REGION
04	07	33	04.0	38.068 N	9.105 W	10 G		0.9	33 PORTUGAL. mbLg 3.7 (MDD).
04	07	42	37.2*	4.086 S	140.241 E	33 N	3.9	1.1	11 IRIAN JAYA, INDONESIA
04	09	27	45.3%	11.652 N	60.715 W	50 G		0.2	7 WINDWARD ISLANDS
04	09	44	31.5*	27.294 N	141.426 E	33 N	3.9	1.1	8 BONIN ISLANDS REGION
04	11	50	14.7%	11.047 N	61.109 W	5 G		0.4	5 WINDWARD ISLANDS. MD 2.5 (TRN).
04	12	21	04.3*	7.169 S	129.047 E	150 G	4.7	1.4	25 BANDA SEA
04	12	29	24.6*	14.638 N	144.833 E	33 N	4.2	1.2	29 MARIANA ISLANDS
04	12	31	44.4%	11.097 N	60.761 W	5 G		0.6	7 WINDWARD ISLANDS. MD 3.2 (TRN).
04	12	34	49.2%	41.250 S	174.883 E	33 N		0.1	8 COOK STRAIT, NEW ZEALAND. ML 3.2 (WEL).
04	13	43	15.0*	15.862 S	176.055 W	300 G	4.3	0.8	19 FIJI ISLANDS REGION
04	14	23	51.0	50.475 N	19.037 E	5 G		1.0	8 POLAND. ML 3.0 (CLL).
04	14	30	41.1	51.675 N	16.176 E	5 G		0.8	13 POLAND. ML 3.7 (VIE).

04	15	01	57.9*	14.311 N	144.517 E	33 N	3.8	1.1	13	MARIANA ISLANDS
04	17	14	48.3%	46.339 N	7.580 E	5 G		0.9	7	SWITZERLAND. ML 2.2 (LDG).
04	18	02	54.1%	43.076 N	2.688 E	10 G		1.1	8	FRANCE. ML 3.0 (LDG).
04	18	48	45.8*	55.454 S	26.939 W	33 N	3.7	0.6	9	SOUTH SANDWICH ISLANDS REGION
04	18	59	22.1%	31.526 S	117.611 E	5 G		1.1	5	WESTERN AUSTRALIA
04	19	18	48.3*	3.901 S	142.329 E	33 N	4.3	1.4	21	NEAR N COAST OF NEW GUINEA, PNG.
04	19	33	54.5*	30.239 N	138.507 E	429 *	3.2	0.9	14	SOUTH OF HONSHU, JAPAN
04	19	44	23.6	11.105 N	60.654 W	10 G	3.9	1.4	19	WINDWARD ISLANDS. MD 3.6 (TRN). Felt on Tobago.
04	20	47	36.0*	51.120 N	15.887 E	5 G		0.5	7	POLAND. ML 3.1 (VIE).
04	20	52	58.3	3.482 S	151.390 E	366 D	5.1	0.8	185	NEW IRELAND REGION, P.N.G. Mw 5.7 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 20:53:05.9; Lat 3.34 S; Lon 151.63 E; Dep 385.8; Half- duration 1.8 sec; Principal axes (scale 10**17 Nm): (T) Val=4.59, Plg=38, Azm=42; (N) Val=-0.53, Plg=42, Azm=267; (P) Val=-4.06, Plg=25, Azm=152; Best double couple: Mo=4.3*10**17 Nm; NP1: Strike=193, Dip=43, Slip=12; NP2: Strike=94, Dip=82, Slip=133.
04	21	07	15.5%	59.108 N	150.810 W	56			31	KENAI PENINSULA, ALASKA. <AEIC>. ML 3.0 (AEIC).
04	21	23	26.1*	17.670 S	69.086 W	150 G	4.7	1.2	24	PERU-BOLIVIA BORDER REGION
04	22	13	49.3%	55.289 N	167.003 E	33 N		0.6	10	KOMANDORSKY ISLANDS REGION
04	22	17	55.4	55.445 N	166.529 E	33 N	4.4	1.1	49	KOMANDORSKY ISLANDS REGION. ML 4.4 (PMR).
04	22	21	13.1	45.828 N	14.195 E	10 G		1.4	23	NORTHWESTERN BALKAN REGION. ML 3.3 (GRF), 3.1 (LJU), 3.0 (VIE), 2.9 (LDG). Felt (IV) at Logatec, Postojna and Vrhnika, Slovenia.
04	22	36	34.1?	51.05 N	176.50 E	33 N	3.8	1.5	12	RAT ISLANDS, ALEUTIAN ISLANDS
04	23	00	23.7*	34.344 N	141.557 E	33 N	4.3	1.2	16	OFF EAST COAST OF HONSHU, JAPAN
04	23	20	42.2%	33.649 S	71.610 W	33 N		0.5	11	NEAR COAST OF CENTRAL CHILE. MD 3.9 (SAN).
04	23	57	57.7*	20.979 S	68.428 W	150 G		1.2	11	CHILE-BOLIVIA BORDER REGION
05	00	51	34.8	35.771 N	141.075 E	33 N		0.9	10	NEAR EAST COAST OF HONSHU, JAPAN
05	00	55	28.5*	51.206 N	179.139 E	33 N	4.1	1.0	15	RAT ISLANDS, ALEUTIAN ISLANDS
05	01	13	15.6*	20.691 S	178.622 W	600 G	4.3	1.0	28	FIJI ISLANDS REGION
05	01	26	31.4	51.728 N	16.228 E	5 G		0.8	23	POLAND. ML 3.9 (GRF), 3.6 (VIE).
05	02	04	52.8*	9.922 S	109.439 E	33 N	4.1	0.8	12	SOUTH OF JAWA, INDONESIA
05	03	23	07.2%	37.680 N	1.445 W	10 G		0.2	8	SPAIN. mbLg 2.6 (MDD).
05	03	23	14.4*	56.262 S	27.822 W	33 N	5.2 5.0	1.2	47	SOUTH SANDWICH ISLANDS REGION. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 03:23:17.4; Lat 56.59 S; Lon 27.60 W; Dep 15.0 Fix; Half- duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.95, Plg=73, Azm=201; (N) Val=-0.76, Plg=8, Azm=317; (P) Val=-1.19, Plg=15, Azm=49; Best double couple: Mo=1.6*10**17 Nm; NP1: Strike=150, Dip=31, Slip=105; NP2: Strike=313, Dip=60, Slip=81.
05	03	24	57.1	44.442 N	7.246 E	10 G		0.4	14	NORTHERN ITALY. ML 2.0 (GEN), 1.7 (LDG).
05	03	25	13.1?	15.44 N	98.39 W	33 N	4.2	0.9	19	OFF COAST OF GUERRERO, MEXICO
05	03	26	48.3	44.446 N	7.263 E	10 G		0.6	14	NORTHERN ITALY. ML 1.9 (GEN), 1.8 (LDG).
05	03	32	01.5?	16.12 N	98.56 W	33 N	4.1	1.0	18	NEAR COAST OF GUERRERO, MEXICO
05	04	03	05.4	7.511 N	127.555 E	33 N	4.5	1.0	33	PHILIPPINE ISLANDS REGION
05	04	04	01.1	37.375 N	134.371 E	26 D	4.6	1.5	31	SEA OF JAPAN
05	04	20	02.4*	14.612 N	147.280 E	33 N	3.9	1.3	14	MARIANA ISLANDS REGION
05	04	25	40.4*	37.090 N	142.392 E	33 N		0.9	9	OFF EAST COAST OF HONSHU, JAPAN
05	05	39	52.9?	32.63 S	71.98 W	20 G		0.4	9	NEAR COAST OF CENTRAL CHILE. MD 3.5 (SAN).
05	07	00	46.3*	0.095 S	17.496 W	10 G	4.4	1.3	24	NORTH OF ASCENSION ISLAND
05	07	47	14.1%	63.256 N	147.116 W	64			64	CENTRAL ALASKA. <AEIC>. ML 2.7 (AEIC), 3.0 (PMR).
05	08	57	16.6	43.788 N	7.806 E	5 G		1.0	38	NEAR SOUTH COAST OF FRANCE. ML 3.4 (LDG), 3.3 (GEN).
05	10	14	03.3*	14.315 S	167.233 E	200 G	4.0	1.2	30	VANUATU ISLANDS
05	10	31	34.9	44.622 N	150.008 E	33 N	5.6 5.0	0.9	280	EAST OF KURIL ISLANDS. Mw 5.5 (GS), 5.4 (HRV). Moment Tensor (GS): Dep 26; Principal axes (scale 10**17 Nm): (T) Val=1.83, Plg=38, Azm=342; (N) Val=0.02, Plg=1, Azm=72; (P) Val=-1.85, Plg=52, Azm=164; Best double couple: Mo=1.8*10**17 Nm; NP1: Strike=65, Dip=7, Slip=97; NP2: Strike=253, Dip=83, Slip=89. Centroid, Moment Tensor (HRV): Centroid origin time 10:31:36.4; Lat 44.61 N; Lon 150.10 E; Dep 36.2; Half- duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.49, Plg=22, Azm=340; (N) Val=-0.02, Plg=12, Azm=245; (P) Val=-1.47, Plg=65, Azm=129; Best double couple: Mo=1.5*10**17 Nm; NP1: Strike=91, Dip=25, Slip=-62; NP2: Strike=240, Dip=68, Slip=-103.
05	11	33	39.8*	37.764 N	142.630 E	33 N		0.5	8	OFF EAST COAST OF HONSHU, JAPAN
05	13	31	22.8*	17.771 S	178.163 W	600 G	4.2	0.9	21	FIJI ISLANDS REGION
05	15	27	38.0*	43.209 N	1.738 W	10 G		1.0	8	PYRENEES. mbLg 3.2 (MDD). ML 2.7 (LDG).
05	15	40	45.8?	32.58 S	71.90 W	20 G		0.3	9	NEAR COAST OF CENTRAL CHILE. MD 3.9 (SAN).
05	15	41	51.1	33.833 N	72.817 E	17 *	4.0	0.7	15	PAKISTAN
05	15	44	11.5	44.415 N	7.296 E	10 G		0.4	21	NORTHERN ITALY. ML 2.3 (GEN), 2.0 (LDG).
05	15	50	38.7?	41.22 S	90.80 W	33 N	4.2	1.4	9	SOUTHERN PACIFIC OCEAN
05	16	21	00.1	40.164 N	143.319 E	33 N	3.8	0.9	18	OFF EAST COAST OF HONSHU, JAPAN
05	17	13	25.8?	10.48 N	61.95 W	10 G		0.6	5	TRINIDAD. MD 3.2 (TRN).
05	17	39	35.0*	49.917 N	12.127 E	10 G		0.2	5	GERMANY
05	17	56	13.5%	61.145 N	151.175 W	55			26	SOUTHERN ALASKA. <AEIC>. ML 3.2 (AEIC), 3.6 (PMR).
05	19	02	49.8?	43.45 N	1.93 E	5 G		1.0	4	FRANCE. ML 2.3 (LDG).
05	19	03	12.1*	14.735 N	145.116 E	33 N	3.9	1.0	16	MARIANA ISLANDS
05	19	27	14.4*	7.868 S	75.774 W	100 G		1.2	11	NORTHERN PERU
05	19	28	23.1	51.652 N	16.203 E	5 G		0.6	16	POLAND. ML 3.3 (VIE), 3.2 (GRF).
05	19	52	27.0*	1.720 N	128.665 E	33 N	4.4	1.3	14	HALMAHERA, INDONESIA
05	20	20	05.5?	47.45 N	3.39 W	5 G		0.6	5	FRANCE. ML 1.9 (LDG).
05	20	51	54.5	15.868 N	92.455 W	145 D	4.3	0.8	42	MEXICO-GUATEMALA BORDER REGION
05	20	57	27.6	28.919 S	71.222 W	33 N	5.0 4.3	0.8	71	NEAR COAST OF CENTRAL CHILE. Felt (IV) at Copiapo and (III) at Freirina, Huasco, Tierra Amarilla and Vallenar.
05	21	58	34.9%	61.515 N	149.221 W	40			52	SOUTHERN ALASKA. <AEIC>. ML 3.0 (AEIC), 3.0 (PMR). Felt at Palmer.
05	21	58	57.5%	42.071 N	1.714 E	10 G		0.8	9	PYRENEES. ML 2.5 (LDG).
05	22	32	24.0%	60.104 N	153.278 W	137			21	SOUTHERN ALASKA. <AEIC>.
05	23	46	46.9	44.744 N	6.620 E	5 G		0.6	13	FRANCE. ML 2.1 (GEN), 1.7 (LDG).

05	23	53	08.8*	7.481 S	128.620 E	100 G	4.0	1.4	13	BANDA SEA
06	00	10	22.4*	58.857 N	150.664 W	32			95	GULF OF ALASKA. <AEIC>. ML 3.0 (AEIC).
06	00	32	49.5	6.003 S	130.596 E	146	5.1	1.0	71	BANDA SEA
06	00	49	45.4*	56.030 S	26.449 W	10 G	4.5	0.9	14	SOUTH SANDWICH ISLANDS REGION
06	00	52	16.1	44.753 N	6.606 E	5 G		0.4	10	FRANCE. ML 1.8 (GEN), 1.4 (LDG).
06	01	08	44.2*	21.791 S	179.249 W	400 G	3.8	1.4	17	FIJI ISLANDS REGION
06	01	15	37.3*	8.814 S	129.323 E	33 N	4.4	1.5	9	TIMOR SEA
06	01	58	45.8*	56.016 N	152.268 W	28			40	KODIAK ISLAND REGION. <AEIC>. ML 3.3 (AEIC).
06	02	36	24.7	44.739 N	6.631 E	5 G		0.6	14	FRANCE. ML 1.9 (GEN), 1.8 (LDG).
06	04	36	57.9*	59.525 N	153.005 W	104			78	SOUTHERN ALASKA. <AEIC>.
06	05	15	54.3*	45.460 N	6.587 E	5 G		0.5	6	FRANCE. ML 1.6 (LDG).
06	05	18	35.8*	14.69 N	145.11 E	39 ?	3.9	1.0	12	MARIANA ISLANDS
06	06	00	36.5*	11.07 N	60.53 W	5 G		1.0	6	WINDWARD ISLANDS. MD 2.8 (TRN).
06	06	44	03.8*	36.823 N	121.547 W	6			10	CENTRAL CALIFORNIA. <GM-P>. MD 2.8 (GM).
06	07	39	55.6	44.531 N	7.045 E	10 G		0.3	21	NORTHERN ITALY. ML 2.2 (GEN), 2.0 (LDG).
06	07	47	10.7	44.528 N	7.024 E	10 G		0.3	14	NORTHERN ITALY. ML 2.0 (GEN), 1.7 (LDG).
06	08	04	44.9*	38.792 N	122.754 W	3			8	NORTHERN CALIFORNIA. <GM-P>. MD 2.7 (GM). ML 2.9 (GS).
06	08	42	48.6*	36.176 S	100.078 W	10 G	4.4	1.1	18	SOUTHERN PACIFIC OCEAN
06	08	54	55.0	18.101 N	94.384 W	33 N	4.7 3.7	0.9	113	BAY OF CAMPECHE
06	09	35	39.0*	26.500 N	130.421 E	33 N		0.5	6	SOUTHEAST OF RYUKYU ISLANDS
06	10	19	13.3*	44.70 N	6.58 E	5 G		0.2	4	FRANCE. ML 1.9 (GEN).
06	10	56	21.3	22.726 N	142.586 E	177	5.1	0.9	161	VOLCANO ISLANDS REGION. Mw 5.3 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 10:56:18.5; Lat 22.60 N; Lon 142.69 E; Dep 172.5; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=9.66, Plg=54, Azm=97; (N) Val=-1.74, Plg=21, Azm=219; (P) Val=-7.92, Plg=28, Azm=321; Best double couple: Mo=8.8*10**16 Nm; NPl: Strike=93, Dip=26, Slip=146; NP2: Strike=214, Dip=76, Slip=68.										
06	12	54	44.1	51.694 N	16.236 E	5 G		1.0	13	POLAND. ML 3.6 (VIE), 3.6 (GRF).
06	13	03	45.9*	36.438 N	121.014 W	7			22	CENTRAL CALIFORNIA. <GM-P>. MD 3.2 (GM). ML 3.2 (GS), 3.1 (BRK).
06	13	44	31.7	6.801 S	129.800 E	132 *	4.6	1.2	24	BANDA SEA
06	14	41	57.6*	47.497 N	103.428 E	10 G		1.2	7	MONGOLIA
06	15	09	31.1*	6.953 S	149.533 E	90 ?	4.3	1.4	19	NEW BRITAIN REGION, P.N.G.
06	15	37	04.4*	34.119 N	141.501 E	33 N	4.3	1.4	27	OFF EAST COAST OF HONSHU, JAPAN
06	16	12	19.9*	7.220 N	126.756 E	95 *	4.4	1.2	26	MINNANAO, PHILIPPINE ISLANDS
06	16	23	49.6*	35.860 N	117.831 W	10			27	CENTRAL CALIFORNIA. <PAS-P>. ML 3.1 (PAS), 3.3 (GS).
06	17	19	40.3*	35.342 N	135.798 E	33 N		1.0	9	WESTERN HONSHU, JAPAN
06	17	46	35.4*	30.188 N	131.146 E	32 D	4.4	1.3	18	KYUSHU, JAPAN
06	18	56	16.1*	24.29 N	143.07 E	33 N	3.6	0.4	6	VOLCANO ISLANDS REGION
06	19	31	03.6*	31.97 S	70.68 W	110 G		0.3	9	CHILE-ARGENTINA BORDER REGION. MD 3.5 (SAN).
06	19	34	49.4	51.604 N	16.257 E	5 G		0.2	10	POLAND. ML 3.1 (VIE).
06	19	55	57.4*	10.03 S	125.19 E	33 N	4.0	1.4	9	TIMOR SEA
06	20	21	38.4*	8.49 S	123.11 E	33 N	4.2	0.9	7	FLORES REGION, INDONESIA
06	20	56	56.0*	9.155 S	125.072 E	56 ?	4.2	1.2	19	TIMOR REGION, INDONESIA
06	21	44	43.7*	42.020 N	142.882 E	33 N		1.4	10	HOKKAIDO, JAPAN REGION
06	22	45	06.8*	37.657 N	118.854 W	6			9	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.9 (GM).
06	22	52	57.8*	24.819 S	179.791 W	500 G	4.2	1.0	19	SOUTH OF FIJI ISLANDS
06	22	57	19.7*	51.716 N	15.733 E	5 G		1.3	7	POLAND
06	23	38	00.9	34.660 N	96.435 W	5 G		0.2	8	OKLAHOMA. mblg 4.2 (GS), 4.5 (TUL). Felt (V) at Byars, Coleman, Fittstown, Francis, Lehigh, Stonewall, Tupelo and Wardville; (IV) at Ada, Bromide, Milburn, Roff and Wapanucka. Also felt at Norman, Oklahoma City and as far north as Tulsa. Felt in much of south-central Oklahoma.
06	23	44	30.4*	22.205 N	142.600 E	100 G	4.3	1.0	19	VOLCANO ISLANDS REGION
06	23	54	03.0*	46.110 N	122.480 W	20			10	WASHINGTON. <SEA-P>. MD 2.5 (SEA).
06	23	58	51.0*	47.467 N	6.913 E	5 G		1.5	7	FRANCE. ML 2.2 (LDG).
07	00	04	51.1*	45.585 N	6.390 E	10 G		0.6	6	FRANCE. ML 2.2 (LDG).
07	02	45	59.6	2.626 N	79.821 W	10 G	4.9 3.8	0.8	93	SOUTH OF PANAMA
07	03	27	39.0*	6.69 S	154.23 E	59 D	3.0	1.6	6	SOLOMON ISLANDS
07	04	20	30.4*	36.304 N	70.775 E	225 *	4.1	0.7	13	HINDU KUSH REGION, AFGHANISTAN
07	05	11	47.4	44.818 N	8.784 E	5 G		0.7	28	NORTHERN ITALY. ML 2.5 (GEN), 2.3 (LDG).
07	05	21	32.6*	44.80 N	9.48 E	10 G		0.5	6	NORTHERN ITALY. ML 1.9 (GEN).
07	05	46	38.5	44.557 N	7.287 E	10 G		0.5	22	NORTHERN ITALY. ML 2.5 (GEN), 2.4 (LDG).
07	06	12	05.1*	61.086 N	149.781 W	44			24	SOUTHERN ALASKA. <AEIC>. ML 2.8 (AEIC), 3.2 (PMR).
07	08	22	57.2*	22.180 N	143.861 E	150 G	4.1	1.1	11	VOLCANO ISLANDS REGION
07	10	15	24.9	30.041 N	67.795 E	33 N	5.5 5.3	1.0	219	PAKISTAN. Mw 5.4 (GS), 5.4 (HRV). Me 5.3 (GS). Broadband Source Parameters (GS): Dep 20; NPl: Strike=165, Dip=45, Slip=60; NP2: Strike=24, Dip=52, Slip=117; Radiated energy 1.8*10**12 Nm. Moment Tensor (GS): Dep 9; Principal axes (scale 10**17 Nm): (T) Val=1.41, Plg=51, Azm=0; (N) Val=0.06, Plg=5, Azm=97; (P) Val=-1.48, Plg=38, Azm=191; Best double couple: Mo=1.4*10**17 Nm; NPl: Strike=315, Dip=8, Slip=128; NP2: Strike=96, Dip=84, Slip=85. Centroid, Moment Tensor (HRV): Centroid origin time 10:15:28.1; Lat 29.50 N; Lon 67.92 E; Dep 18.0 Bdy; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.42, Plg=73, Azm=357; (N) Val=0.13, Plg=3, Azm=97; (P) Val=-1.54, Plg=16, Azm=188; Best double couple: Mo=1.5*10**17 Nm; NPl: Strike=283, Dip=29, Slip=96; NP2: Strike=96, Dip=61, Slip=87.
07	10	41	03.6*	29.877 N	67.695 E	33 N	4.3	0.9	19	PAKISTAN
07	10	46	10.2*	44.704 N	6.634 E	5 G		0.4	8	FRANCE. ML 1.7 (LDG).
07	11	17	04.0	24.904 N	125.190 E	71 *	4.1	0.7	21	SOUTHWESTERN RYUKYU ISLANDS
07	11	46	08.5*	44.632 N	6.541 E	5 G		0.8	6	FRANCE. ML 1.9 (GEN).
07	12	20	54.0	44.601 N	10.030 E	10 G		1.1	36	NORTHERN ITALY. ML 2.8 (GEN), 2.8 (LDG).
07	12	28	20.7	5.134 S	152.700 E	33 N	4.5	1.0	37	NEW BRITAIN REGION, P.N.G.
07	12	57	06.7	6.017 S	154.458 E	421 D	5.6	0.9	271	SOLOMON ISLANDS. Mw 5.8 (GS), 5.8 (HRV). Moment Tensor (GS): Dep 411; Principal axes (scale 10**17 Nm): (T) Val=6.44, Plg=21, Azm=236; (N) Val=-1.32, Plg=22, Azm=137; (P) Val=-5.12, Plg=59, Azm=5; Best double couple:

Mo=5.8*10**17 Nm; NP1: Strike=360, Dip=31, Slip=-43; NP2: Strike=129, Dip=69, Slip=-114.
Centroid, Moment Tensor (HRV): Centroid origin time 12:57:10.5; Lat 5.94 S; Lon 154.53 E; Dep 418.3; Half-duration 1.9 sec; Principal axes (scale 10**17 Nm): (T) Val=6.26, Plg=26, Azm=237; (N) Val=-0.51, Plg=23, Azm=135; (P) Val=-5.75, Plg=54, Azm=9; Best double couple: Mo=6.0*10**17 Nm; NP1: Strike=7, Dip=28, Slip=-34; NP2: Strike=128, Dip=75, Slip=-114.

07	12	58	08.9?	30.22	N	67.76	E	33	N	1.1	9	PAKISTAN
07	13	50	19.1*	0.751	S	16.320	W	33	N	0.6	9	NORTH OF ASCENSION ISLAND
07	14	17	29.5?	29.85	N	67.75	E	33	N	1.3	5	PAKISTAN
07	14	32	02.2	13.765	N	120.726	E	104	D	0.7	62	MINDORO, PHILIPPINE ISLANDS. Mw 5.0 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 14:32:01.2; Lat 13.93 N; Lon 120.57 E; Dep 101.9; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.31, Plg=22, Azm=354; (N) Val=-2.27, Plg=55, Azm=120; (P) Val=-3.03, Plg=25, Azm=253; Best double couple: Mo=4.2*10**16 Nm; NP1: Strike=34, Dip=55, Slip=-178; NP2: Strike=303, Dip=88, Slip=-35.
07	15	14	03.36	40.524	N	126.309	W	7		5	5	OFF COAST OF NORTHERN CALIFORNIA. <GM-P>. MD 2.9 (GM).
07	15	35	37.1?	24.09	N	122.09	E	33	N	1.2	6	TAIWAN REGION
07	15	38	17.1?	32.60	S	71.87	W	10	G	0.4	9	NEAR COAST OF CENTRAL CHILE. MD 3.3 (SAN).
07	15	54	15.2*	9.126	S	123.838	E	72	?	1.5	19	TIMOR REGION, INDONESIA
07	15	56	25.2*	29.921	N	67.789	E	33	N	0.6	8	PAKISTAN
07	17	08	23.96	59.939	N	140.601	W	9		16	16	SOUTHEASTERN ALASKA. <AEIC>. ML 2.6 (AEIC).
07	17	14	37.5*	6.502	S	148.972	E	33	N	0.9	11	NEW BRITAIN REGION, P.N.G.
07	17	26	23.76	33.009	N	117.844	W	0		22	22	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
07	17	50	28.3?	4.66	S	134.98	E	33	N	0.6	6	IRIAN JAYA REGION, INDONESIA
07	17	51	59.0*	12.987	S	167.061	E	200	G	0.9	25	SANTA CRUZ ISLANDS
07	19	31	45.26	53.824	N	165.128	W	64		7	7	FOX ISLANDS, ALEUTIAN ISLANDS. <AEIC>. ML 2.9 (AEIC).
07	19	36	18.3*	51.601	N	16.283	E	5	G	0.7	8	POLAND. ML 3.1 (VIE).
07	19	42	16.3?	38.87	N	73.96	E	150	G	0.8	11	TAJIKISTAN-XINJIANG BORDER REG.
07	19	46	59.4*	30.433	S	72.335	W	5	G	0.7	12	OFF COAST OF CENTRAL CHILE. MD 4.3 (SAN).
07	19	51	17.2*	5.877	N	123.774	E	300	G	1.4	25	MINDANAO, PHILIPPINE ISLANDS
07	19	58	08.3?	30.59	N	67.56	E	33	N	1.2	8	PAKISTAN
07	20	06	43.8*	30.006	N	67.697	E	33	N	0.6	9	PAKISTAN
07	20	10	44.6*	24.342	S	70.449	W	33	N	0.8	10	NEAR COAST OF NORTHERN CHILE
07	20	49	20.6?	5.03	S	152.87	E	33	N	1.0	7	NEW BRITAIN REGION, P.N.G.
07	20	53	46.4*	5.313	S	146.906	E	200	G	1.1	24	EASTERN NEW GUINEA REG., P.N.G.
07	21	11	02.8*	5.565	S	130.572	E	100	G	1.1	5	BANDA SEA
07	22	09	37.6*	22.126	S	174.747	E	100	G	0.9	14	LOYALTY ISLANDS REGION
07	23	28	05.0	43.010	N	12.839	E	10	G	1.1	112	CENTRAL ITALY. ML 4.2 (VIE), 3.9 (LDG). MD 3.8 (ROM).
07	23	40	37.5	35.439	N	139.770	E	106	5.2	0.8	249	NEAR S. COAST OF HONSHU, JAPAN. Mw 5.2 (HRV). Felt (III JMA) at Tokyo. Centroid, Moment Tensor (HRV): Centroid origin time 23:40:38.4; Lat 35.44 N; Lon 140.16 E; Dep 109.9; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=8.22, Plg=49, Azm=285; (N) Val=-1.62, Plg=36, Azm=73; (P) Val=-6.60, Plg=16, Azm=175; Best double couple: Mo=7.4*10**16 Nm; NP1: Strike=305, Dip=43, Slip=150; NP2: Strike=58, Dip=70, Slip=51.
08	00	28	28.4	44.745	N	6.706	E	5	G	0.7	12	FRANCE. ML 1.6 (LDG).
08	01	06	11.9	18.627	N	145.672	E	206	D	1.0	37	MARIANA ISLANDS
08	01	17	26.1	35.219	N	27.293	E	33	N	1.4	64	DODECANESE ISLANDS
08	01	30	35.8*	41.491	N	127.083	W	10	G	0.8	12	OFF COAST OF NORTHERN CALIFORNIA
08	01	35	13.5	5.076	S	151.563	E	90	D	1.1	61	NEW BRITAIN REGION, P.N.G.
08	01	47	25.8*	33.866	S	70.909	W	70	G	0.2	9	CHILE-ARGENTINA BORDER REGION. MD 2.1 (SAN).
08	02	54	21.2	44.748	N	6.601	E	5	G	0.8	11	FRANCE. ML 2.0 (LDG), 1.8 (GEN).
08	03	14	39.5?	28.03	N	143.40	E	33	N	1.3	8	BONIN ISLANDS REGION
08	03	26	35.5	43.325	N	2.297	W	5	G	0.8	12	SPAIN. mbLg 3.0 (MDD). ML 2.9 (LDG). Felt (II) in the Azpeitia area.
08	03	50	37.3*	16.264	S	173.521	W	33	N	0.7	15	TONGA ISLANDS
08	03	59	52.3	50.142	S	131.191	E	10	G	1.0	73	SOUTH OF AUSTRALIA. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 03:59:56.4; Lat 50.13 S; Lon 131.52 E; Dep 15.0 Fix; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.33, Plg=8, Azm=21; (N) Val=-0.27, Plg=77, Azm=146; (P) Val=-1.05, Plg=11, Azm=289; Best double couple: Mo=1.2*10**17 Nm; NP1: Strike=65, Dip=77, Slip=-178; NP2: Strike=335, Dip=88, Slip=-13.
08	04	06	01.5*	36.228	N	141.135	E	33	N	0.9	9	NEAR EAST COAST OF HONSHU, JAPAN
08	04	10	45.1*	19.120	N	145.583	E	285	?	0.3	11	MARIANA ISLANDS
08	05	13	18.1*	13.540	N	91.920	W	27	D	1.1	50	NEAR COAST OF GUATEMALA
08	05	20	56.9*	13.445	N	91.932	W	33	N	1.1	17	NEAR COAST OF GUATEMALA
08	06	31	38.0	24.287	N	63.314	E	36	D	1.1	36	OFF COAST OF PAKISTAN
08	06	49	27.9*	11.681	N	141.684	E	33	N	1.0	11	WESTERN CAROLINE ISLANDS
08	07	55	30.2	35.132	S	70.829	W	91	D	0.9	28	CHILE-ARGENTINA BORDER REGION. MD 4.1 (SAN). Felt (III) at Curico and Talca, Chile.
08	08	41	28.1*	30.405	S	179.520	W	350	G	1.4	31	KERMADEC ISLANDS REGION
08	09	55	06.4?	44.75	N	6.27	E	10	G	0.3	5	FRANCE. ML 1.8 (GEN).
08	11	15	53.96	61.501	N	151.192	W	67		38	38	SOUTHERN ALASKA. <AEIC>. ML 3.1 (AEIC), 3.1 (PMR).
08	11	30	00.26	37.579	N	118.831	W	6		13	13	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.9 (GM).
08	11	34	01.16	61.591	N	146.273	W	36		33	33	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).
08	11	41	02.4	20.285	S	178.206	W	550	G	0.8	38	FIJI ISLANDS REGION
08	11	54	22.6*	34.499	S	70.773	W	99		0.8	15	CHILE-ARGENTINA BORDER REGION. MD 3.8 (SAN). Felt (III) at Curico and Talca, Chile.
08	13	49	08.3*	55.086	N	166.806	E	33	N	0.8	12	KOMANDORSKY ISLANDS REGION
08	14	23	55.0	3.502	S	81.662	W	33	N	0.9	28	NEAR COAST OF NORTHERN PERU
08	14	40	02.3*	36.505	N	70.220	E	234	*	1.2	17	HINDU KUSH REGION, AFGHANISTAN
08	14	54	00.8	39.249	N	100.677	E	33	N	0.8	41	GANSU, CHINA
08	15	33	23.0*	13.907	S	71.722	W	87	?	1.4	33	CENTRAL PERU
08	16	17	06.8*	23.984	N	121.846	E	33	N	0.9	15	TAIWAN

08	16	55	11.6?	20.13	S	167.75	E	33	N		1.0	6	LOYALTY ISLANDS
08	17	05	05.0?	25.54	N	96.64	E	33	N	3.8	0.7	6	MYANMAR
08	17	24	29.46	60.275	N	153.198	W	140				26	SOUTHERN ALASKA. <AEIC>.
08	17	54	57.5?	6.64	S	129.82	E	150	G	3.7	0.9	7	BANDA SEA
08	17	57	13.1	29.296	S	61.029	E	10	G	5.2 5.0	1.0	151	SOUTHWEST INDIAN RIDGE. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 17:57:17.5; Lat 29.39 S; Lon 61.05 E; Dep 15.0 Fix; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=9.80, Plg=12, Azm=348; (N) Val=-2.00, Plg=3, Azm=257; (P) Val=-7.80, Plg=77, Azm=152; Best double couple: Mo=8.8*10**16 Nm; NP1: Strike=82, Dip=33, Slip=-84; NP2: Strike=255, Dip=58, Slip=-94.
08	17	57	39.4	44.735	N	6.698	E	5	G		0.9	19	FRANCE. ML 2.4 (GEN), 2.2 (LDG).
08	17	58	41.6%	47.811	N	2.874	W	5	G		0.6	7	FRANCE. ML 2.4 (LDG).
08	18	33	41.6	6.743	S	147.912	E	33	N	4.8	1.3	47	EASTERN NEW GUINEA REG., P.N.G.
08	18	52	38.1*	16.628	N	85.975	W	10	G	4.3	1.2	18	CARIBBEAN SEA
08	19	57	56.06	57.023	N	155.354	W	29				19	ALASKA PENINSULA. <AEIC>. ML 3.3 (AEIC).
08	20	48	26.0	2.644	N	79.814	W	10	G	4.8 4.4	1.0	115	SOUTH OF PANAMA
08	20	56	31.2?	17.71	S	174.93	W	33	N	4.5	1.0	9	TONGA ISLANDS
08	21	17	01.8?	47.57	N	3.69	W	5	G		1.0	5	FRANCE. ML 2.0 (LDG).
08	22	51	37.16	58.145	N	153.445	W	70				30	KODIAK ISLAND REGION. <AEIC>.
08	22	59	58.4?	40.44	N	112.86	E	10	G	3.9	0.7	5	NORTHEASTERN CHINA
08	23	49	32.5	20.730	S	174.496	W	33	N	5.0 5.0	1.0	81	TONGA ISLANDS. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 23:49:36.4; Lat 21.04 S; Lon 173.67 W; Dep 15.0 Fix; Half- duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.19, Plg=69, Azm=303; (N) Val=0.13, Plg=4, Azm=202; (P) Val=-1.33, Plg=21, Azm=111; Best double couple: Mo=1.3*10**17 Nm; NP1: Strike=193, Dip=24, Slip=80; NP2: Strike=24, Dip=66, Slip=95.
09	00	25	17.66	59.950	N	153.200	W	116				59	SOUTHERN ALASKA. <AEIC>.
09	00	48	22.6	44.598	N	10.094	E	10	G		1.0	36	NORTHERN ITALY. ML 3.2 (GEN), 3.2 (LDG), 2.9 (VIE).
09	01	16	33.8*	29.958	N	139.097	E	388	*	3.7	1.1	17	SOUTH OF HONSHU, JAPAN
09	01	19	55.8	41.852	N	142.310	E	100	D	4.1	1.1	25	HOKKAIDO, JAPAN REGION
09	01	53	19.6	15.626	S	168.191	E	33	N	4.5	0.8	21	VANUATU ISLANDS
09	02	17	31.2	15.613	S	168.156	E	33	N	4.8	0.8	51	VANUATU ISLANDS
09	02	51	53.36	59.963	N	152.962	W	111				107	SOUTHERN ALASKA. <AEIC>.
09	03	14	19.56	60.246	N	139.597	W	0				24	SOUTHEASTERN ALASKA. <AEIC>. ML 3.1 (AEIC).
09	04	00	31.96	60.212	N	139.791	W	3				28	SOUTHEASTERN ALASKA. <AEIC>. ML 2.8 (AEIC).
09	04	02	14.3*	19.868	N	70.975	W	33	N	3.8	1.0	13	DOMINICAN REPUBLIC REGION
09	05	43	55.2*	44.520	N	148.200	E	33	N	4.4	1.3	14	KURIL ISLANDS
09	05	44	58.3?	9.42	S	150.43	E	33	N		1.6	6	EASTERN NEW GUINEA REG., P.N.G.
09	05	45	47.3	5.789	N	77.516	W	21	D	5.1	0.9	148	NEAR WEST COAST OF COLOMBIA. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 05:45:50.1; Lat 5.47 N; Lon 77.82 W; Dep 24.1; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.31, Plg=57, Azm=150; (N) Val=0.05, Plg=21, Azm=24; (P) Val=-5.36, Plg=25, Azm=284; Best double couple: Mo=5.3*10**16 Nm; NP1: Strike=338, Dip=28, Slip=40; NP2: Strike=211, Dip=73, Slip=112.
09	06	38	23.8*	22.916	S	174.465	W	33	N	4.5	1.0	10	TONGA ISLANDS REGION
09	06	47	10.5?	31.52	S	69.70	W	160	G		0.4	9	SAN JUAN PROVINCE, ARGENTINA. MD 3.5 (SAN).
09	07	17	11.5?	32.33	S	71.49	W	60	G		0.2	9	NEAR COAST OF CENTRAL CHILE
09	08	16	35.4	39.844	N	75.419	E	33	N	4.8 4.3	0.8	57	SOUTHERN XINJIANG, CHINA
09	08	33	07.9	51.622	N	16.218	E	5	G		1.1	15	POLAND. ML 3.8 (VIE).
09	09	27	45.3%	11.652	N	60.715	W	50	G		0.2	7	WINDWARD ISLANDS. MD 3.1 (TRN).
09	09	34	30.4?	3.38	S	127.19	E	33	N	4.1	0.8	8	SERAM, INDONESIA
09	10	01	52.6	8.095	S	119.985	E	200	G	4.5	1.0	40	FLORES REGION, INDONESIA
09	13	38	45.7*	46.604	N	144.488	E	372	?	4.4	0.9	10	SEA OF OKHOTSK
09	14	55	22.4*	34.969	S	178.600	W	33	N	4.2	0.4	10	SOUTH OF KERMADEC ISLANDS
09	15	01	42.4%	43.751	N	7.757	E	10	G		0.4	9	NEAR SOUTH COAST OF FRANCE. ML 2.3 (GEN).
09	16	17	39.4?	0.72	N	80.44	W	33	N	4.1	0.9	9	NEAR COAST OF ECUADOR
09	16	36	53.5*	1.143	N	129.023	E	33	N	3.9	0.8	8	HALMAHERA, INDONESIA
09	16	48	30.3?	3.72	S	68.49	E	10	G		0.7	7	CHAGOS ARCHIPELAGO REGION
09	16	54	47.6	42.993	N	12.656	E	5	G		1.3	32	CENTRAL ITALY. ML 3.5 (VIE), 3.2 (LDG).
09	17	16	09.3	6.829	S	130.464	E	100	G	5.0	1.1	59	BANDA SEA
09	17	49	30.16	57.918	N	153.661	W	48		3.8		124	KODIAK ISLAND REGION. <AEIC>. ML 3.9 (AEIC), 4.5 (PMR).
09	17	51	51.2?	34.69	S	179.47	W	33	N	3.8	0.5	6	SOUTH OF KERMADEC ISLANDS
09	18	54	15.9	5.750	S	76.276	W	119	D	4.5	0.7	44	NORTHERN PERU
09	19	02	35.46	60.138	N	153.243	W	161				88	SOUTHERN ALASKA. <AEIC>.
09	22	45	40.4*	51.725	N	173.067	W	33	N		1.1	9	ANDREANOF ISLANDS, ALEUTIAN IS.
09	23	16	39.3	49.531	N	156.346	E	61	D	4.9	0.8	156	KURIL ISLANDS
09	23	53	11.4*	12.216	N	120.861	E	33	N	4.6	1.4	16	MINDORO, PHILIPPINE ISLANDS
10	00	07	57.76	39.855	N	120.492	W	0				4	NORTHERN CALIFORNIA. <GM-P>. MD 2.8 (GM).
10	00	22	09.8*	51.952	N	175.742	W	53	*	4.0	1.3	22	ANDREANOF ISLANDS, ALEUTIAN IS.
10	01	52	12.8*	20.452	S	179.564	W	600	G		0.8	12	FIJI ISLANDS REGION
10	02	55	48.7?	32.54	S	70.02	W	130	G		0.3	9	CHILE-ARGENTINA BORDER REGION. MD 2.8 (SAN).
10	03	33	16.7*	3.156	S	153.139	E	100	G	4.4	0.9	25	NEW IRELAND REGION, P.N.G.
10	05	38	26.8	44.847	N	9.840	E	10	G		0.8	22	NORTHERN ITALY. ML 2.5 (GEN), 2.4 (LDG).
10	05	52	04.0*	5.274	S	147.552	E	33	N	4.0	1.2	12	EASTERN NEW GUINEA REG., P.N.G.
10	06	13	01.7*	6.657	S	132.839	E	33	N	4.3	1.0	10	TANIMBAR ISLANDS REG., INDONESIA
10	06	46	51.2	43.023	N	12.838	E	10	G		1.3	54	CENTRAL ITALY. ML 3.8 (VIE), 3.5 (LDG).
10	06	58	05.2	43.270	N	12.513	E	10	G		0.6	13	CENTRAL ITALY. ML 3.3 (LDG).
10	06	59	30.4?	42.65	N	13.72	E	10	G		0.9	7	CENTRAL ITALY. ML 3.3 (VIE).
10	07	06	34.5%	43.120	N	6.467	W	10	G		1.0	6	SPAIN. mbLg 3.0 (MDD).
10	07	28	25.4%	42.828	N	5.532	W	10	G		0.3	6	SPAIN. mbLg 3.2 (MDD).
10	08	26	09.0?	32.46	S	69.67	W	135	G		0.3	8	MENDOZA PROVINCE, ARGENTINA
10	08	31	56.4*	3.622	S	140.192	E	33	N	4.2	0.9	14	IRIAN JAYA, INDONESIA
10	08	32	27.56	37.568	N	118.859	W	9				9	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.8 (GM). ML 3.0 (BRK).
10	08	34	51.3%	33.139	S	70.919	W	70	G		0.2	9	CHILE-ARGENTINA BORDER REGION. MD 1.9 (SAN).
10	11	11	13.6	23.760	S	179.686	E	600	G	4.6	0.8	45	SOUTH OF FIJI ISLANDS
10	11	22	39.1%	33.125	S	70.345	W	100	G		0.4	9	CHILE-ARGENTINA BORDER REGION

10	12	01	45.1%	8.705 N	125.017 E	33 N		0.4	5	MINDANAO, PHILIPPINE ISLANDS. Felt at Iligan.
10	12	57	07.0	21.349 S	174.386 W	10 G	5.7 6.1	0.9	242	TONGA ISLANDS. Mw 6.1 (GS), 6.1 (HRV). Me 6.2 (GS). Ms 6.1 (BRK). Broadband Source Parameters (GS): Dep 14; NP1: Strike=30, Dip=84, Slip=135; NP2: Strike=126, Dip=45, Slip=8; Radiated energy 3.8*10**13 Nm. Moment Tensor (GS): Dep 3; Principal axes (scale 10**18 Nm): (T) Val=1.49, Plg=49, Azm=290; (N) Val=0.12, Plg=6, Azm=27; (P) Val=-1.61, Plg=40, Azm=122; Best double couple: Mo=1.5*10**18 Nm; NP1: Strike=259, Dip=7, Slip=143; NP2: Strike=26, Dip=86, Slip=84. Centroid, Moment Tensor (HRV): Centroid origin time 12:57:14.6; Lat 21.52 S; Lon 173.61 W; Dep 15.0 Fix; Half-duration 2.5 sec; Principal axes (scale 10**18 Nm): (T) Val=-1.33, Plg=67, Azm=296; (N) Val=0.05, Plg=0, Azm=28; (P) Val=-1.38, Plg=23, Azm=118; Best double couple: Mo=1.4*10**18 Nm; NP1: Strike=209, Dip=22, Slip=91; NP2: Strike=27, Dip=68, Slip=89. Scalar Moment (PPT): Mo=2.4*10**18 Nm.
10	13	19	59.8%	62.600 N	151.327 W	92			46	CENTRAL ALASKA. <AEIC>.
10	13	54	09.1	3.475 S	140.196 E	33 N	4.4	0.6	12	IRIAN JAYA, INDONESIA
10	14	32	48.6%	61.104 N	151.121 W	54			46	SOUTHERN ALASKA. <AEIC>. ML 3.0 (AEIC).
10	14	32	54.2%	21.91 S	174.13 W	100 G	4.2	1.3	12	TONGA ISLANDS
10	14	42	55.9%	8.363 S	119.224 E	150 G	4.3	0.8	16	FLORES REGION, INDONESIA
10	14	57	22.0%	2.80 N	128.46 E	81 ?	3.8	0.5	7	HALMAHERA, INDONESIA
10	15	12	18.8%	15.146 S	173.706 W	33 N	4.2	0.8	13	TONGA ISLANDS
10	15	16	27.1%	33.552 S	70.242 W	120 G		0.2	9	CHILE-ARGENTINA BORDER REGION. MD 2.2 (SAN).
10	17	16	23.4	44.480 N	111.040 W	5 G		0.5	13	HEBGEN LAKE REGION. ML 3.0 (BUT).
10	18	17	59.3%	45.654 N	120.198 W	0			20	WASHINGTON-OREGON BORDER REGION. <SEA-P>. MD 2.7 (SEA).
10	18	21	54.6%	11.973 N	141.723 E	33 N		1.0	6	WESTERN CAROLINE ISLANDS
10	18	43	33.3%	33.387 S	70.244 W	100 G		0.3	9	CHILE-ARGENTINA BORDER REGION. MD 1.9 (SAN).
10	18	45	09.0%	6.546 S	126.061 E	450 G	4.5	1.2	17	BANDA SEA
10	18	58	16.8%	32.572 S	71.201 W	5 G		0.3	7	NEAR COAST OF CENTRAL CHILE
10	20	03	50.4%	52.799 S	19.826 E	10 G	4.2	0.6	18	SOUTHWEST OF AFRICA
10	20	27	41.0	52.797 S	19.683 E	10 G	5.1 4.9	0.9	61	SOUTHWEST OF AFRICA. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 20:27:46.2; Lat 52.88 S; Lon 20.33 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.00, Plg=11, Azm=12; (N) Val=0.25, Plg=14, Azm=279; (P) Val=-1.25, Plg=72, Azm=140; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=119, Dip=36, Slip=-66; NP2: Strike=270, Dip=58, Slip=-106.
10	21	02	42.9	21.419 S	66.728 W	220	4.5	1.0	51	SOUTHERN BOLIVIA
10	21	21	48.0%	35.720 S	100.815 W	10 G	4.4	0.7	11	SOUTHERN PACIFIC OCEAN
10	21	38	08.0%	52.91 S	19.34 E	10 G		1.0	6	SOUTHWEST OF AFRICA
10	22	12	40.6%	47.182 N	8.884 E	5 G		1.0	8	SWITZERLAND. ML 2.3 (STR), 2.2 (LDG).
10	22	27	59.9%	52.719 S	19.437 E	10 G	4.0	0.7	9	SOUTHWEST OF AFRICA
10	22	29	26.7	52.905 S	19.715 E	10 G	5.3 5.3	1.1	104	SOUTHWEST OF AFRICA. Mw 5.6 (GS), 5.6 (HRV). Moment Tensor (GS): Dep 3; Principal axes (scale 10**17 Nm): (T) Val=2.89, Plg=2, Azm=212; (N) Val=0.53, Plg=1, Azm=303; (P) Val=-3.41, Plg=87, Azm=67; Best double couple: Mo=3.1*10**17 Nm; NP1: Strike=301, Dip=43, Slip=-92; NP2: Strike=124, Dip=47, Slip=-88. Centroid, Moment Tensor (HRV): Centroid origin time 22:29:32.1; Lat 53.02 S; Lon 20.35 E; Dep 15.0 Fix; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=2.89, Plg=1, Azm=23; (N) Val=0.21, Plg=5, Azm=293; (P) Val=-3.11, Plg=85, Azm=122; Best double couple: Mo=3.0*10**17 Nm; NP1: Strike=118, Dip=44, Slip=-82; NP2: Strike=288, Dip=46, Slip=-97.
10	22	44	00.1%	56.887 N	154.220 W	10 G	4.5		141	KODIAK ISLAND REGION. <AEIC>. ML 4.5 (AEIC), 4.8 (PMR). Felt (IV) at Old Harbor.
11	00	27	45.6%	29.791 N	141.804 E	10 G		1.1	10	SOUTH OF HONSHU, JAPAN
11	00	47	26.5	59.053 S	16.665 W	10 G	5.1 4.7	1.1	35	SOUTHWESTERN ATLANTIC OCEAN. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 00:47:31.9; Lat 59.38 S; Lon 16.65 W; Dep 15.0 Fix; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.45, Plg=16, Azm=132; (N) Val=-0.21, Plg=73, Azm=289; (P) Val=-2.24, Plg=7, Azm=40; Best double couple: Mo=2.3*10**17 Nm; NP1: Strike=175, Dip=74, Slip=173; NP2: Strike=267, Dip=83, Slip=16.
11	01	11	02.8	52.765 S	19.526 E	10 G	4.9 4.6	1.0	42	SOUTHWEST OF AFRICA
11	02	05	20.8%	38.532 N	70.091 E	45 D		0.7	10	AFGHANISTAN-TAJIKISTAN BORD REG.
11	02	30	48.8%	23.99 S	179.78 W	550 G	4.4	1.1	20	SOUTH OF FIJI ISLANDS
11	03	08	27.1	52.813 S	19.654 E	10 G	4.4	0.6	17	SOUTHWEST OF AFRICA
11	03	34	09.9%	52.767 S	19.703 E	10 G	4.5	1.3	24	SOUTHWEST OF AFRICA
11	03	51	51.1	42.911 N	12.691 E	10 G		1.1	20	CENTRAL ITALY
11	04	06	27.0%	17.59 S	178.82 W	600 G	4.2	0.5	14	FIJI ISLANDS REGION
11	04	29	51.1%	43.852 N	147.350 E	33 N	4.4	1.1	20	KURIL ISLANDS
11	05	08	55.5	44.615 N	9.969 E	10 G		1.0	54	NORTHERN ITALY. ML 3.1 (STR), 3.1 (GEN), 3.0 (LDG), 2.8 (VIE).
11	05	12	52.8	44.261 N	7.151 E	10 G		0.6	20	NORTHERN ITALY. ML 2.1 (GEN), 2.0 (LDG).
11	05	23	52.1%	33.410 S	71.300 W	60 G		0.1	8	NEAR COAST OF CENTRAL CHILE
11	07	37	36.9%	18.955 N	121.435 E	33 N	4.4	1.2	27	LUZON, PHILIPPINE ISLANDS
11	09	11	14.0%	6.44 N	81.03 W	10 G	4.4	1.0	14	SOUTH OF PANAMA
11	09	29	03.9%	24.233 N	121.774 E	150 G		0.9	12	TAIWAN
11	09	55	25.9%	63.954 N	150.693 W	9			36	CENTRAL ALASKA. <AEIC>. ML 2.5 (AEIC).
11	11	13	10.0%	14.292 N	146.711 E	33 N		1.0	13	MARIANA ISLANDS
11	12	46	17.7%	63.114 S	164.112 W	10 G	4.9	1.5	25	PACIFIC-ANTARCTIC RIDGE. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 12:46:22.4; Lat 63.43 S; Lon 164.12 W; Dep 15.0 Fix; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.60, Plg=0, Azm=190; (N) Val=-0.09, Plg=89, Azm=280;

(P) Val=-1.51, Plg=1, Azm=100; Best double couple:
Mo=1.6*10**17 Nm; NPl: Strike=235, Dip=89, Slip=-179; NP2:
Strike=145, Dip=89, Slip=-1.

11	13	00	57.3*	24.206	N	142.954	E	33	N	4.2	0.7	9	VOLCANO ISLANDS REGION
11	13	03	49.66	40.675	N	126.134	W	5				6	OFF COAST OF NORTHERN CALIFORNIA. <GM-P>. MD 3.0 (GM).
11	13	31	12.9*	14.259	N	144.444	E	33	N		0.7	6	MARIANA ISLANDS
11	13	41	59.68	60.472	N	142.958	W	5				42	SOUTHERN ALASKA. <AEIC>. ML 3.1 (AEIC).
11	13	53	19.26	62.181	N	151.346	W	87				85	CENTRAL ALASKA. <AEIC>.
11	14	01	00.1	43.717	N	7.882	E	10	G		0.3	18	NEAR SOUTH COAST OF FRANCE. ML 2.6 (GEN), 2.0 (STR).
11	14	42	56.5*	25.391	S	70.148	E	10	G		0.6	8	MID-INDIAN RIDGE
11	15	38	33.7?	7.85	S	118.94	E	33	N	4.4	1.0	9	FLORES SEA
11	15	39	58.7*	11.933	N	143.537	E	33	N	4.5	1.1	19	SOUTH OF MARIANA ISLANDS
11	16	08	02.0*	12.403	N	142.786	E	33	N		0.6	6	SOUTH OF MARIANA ISLANDS
11	16	39	05.0	34.375	N	137.990	E	292	4.1		0.8	26	NEAR S. COAST OF HONSHU, JAPAN
11	16	41	45.0*	52.833	S	19.938	E	10	G	4.4	0.6	13	SOUTHWEST OF AFRICA
11	16	45	44.0*	31.421	S	117.709	E	10	G		0.5	5	WESTERN AUSTRALIA
11	16	54	03.0*	31.382	S	117.778	E	10	G		0.5	6	WESTERN AUSTRALIA
11	17	45	11.3*	31.442	S	117.690	E	10	G		0.1	5	WESTERN AUSTRALIA
11	20	47	54.0*	21.342	S	174.631	W	33	N	4.3	1.0	14	TONGA ISLANDS
11	21	27	37.7*	11.264	S	165.083	E	33	N	4.5	0.9	16	SANTA CRUZ ISLANDS
11	22	20	09.5	36.230	S	101.031	W	10	G	4.9 4.9	1.0	60	SOUTHERN PACIFIC OCEAN. Mw 5.6 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time
22:20:14.1; Lat 36.13 S; Lon 100.91 W; Dep 15.0 Fix; Half-
duration 1.5 sec; Principal axes (scale 10**17 Nm): (T)
Val=2.54, Plg=11, Azm=231; (N) Val=0.10, Plg=74, Azm=99;
(P) Val=-2.64, Plg=12, Azm=323; Best double couple:
Mo=2.6*10**17 Nm; NPl: Strike=7, Dip=74, Slip=0; NP2:
Strike=97, Dip=90, Slip=-164.

11	22	50	04.7*	63.014	S	164.764	W	10	G	4.5	1.1	11	PACIFIC-ANTARCTIC RIDGE
11	22	54	37.6*	63.024	S	164.158	W	10	G		1.3	10	PACIFIC-ANTARCTIC RIDGE
12	00	03	53.5	34.433	N	32.118	E	33	N	3.7	1.0	24	CYPRUS REGION
12	00	08	18.5	31.374	S	117.771	E	10	G		1.0	9	WESTERN AUSTRALIA
12	00	35	33.8	44.807	N	9.687	E	10	G		0.9	51	NORTHERN ITALY. ML 3.0 (STR), 2.9 (LDG).
12	00	38	31.0*	36.882	N	121.617	W	7				9	CENTRAL CALIFORNIA. <GM-P>. MD 2.9 (GM).
12	00	42	07.7*	45.893	N	14.210	E	10	G		0.2	5	NORTHWESTERN BALKAN REGION. ML 1.3 (LJU).
12	00	46	08.0*	17.914	S	178.115	W	600	G	4.4	1.0	31	FIJI ISLANDS REGION
12	01	18	32.66	61.279	N	146.945	W	20				104	SOUTHERN ALASKA. <AEIC>. ML 3.6 (AEIC), 3.6 (PMR).
12	02	48	32.3?	8.63	S	159.28	E	148	D	4.4	1.0	7	SOLOMON ISLANDS
12	03	19	52.9*	44.511	N	6.372	E	5	G		0.5	9	FRANCE. ML 1.8 (LDG).
12	03	50	06.3	45.633	N	12.553	E	5	G		1.1	25	NORTHERN ITALY. ML 3.5 (FUR), 3.0 (LDG).
12	04	42	22.5*	33.351	S	70.561	W	90	G		0.3	9	CHILE-ARGENTINA BORDER REGION. MD 2.6 (SAN).
12	04	47	40.2*	7.100	S	155.854	E	33	N	4.5	0.8	21	SOLOMON ISLANDS
12	06	41	57.9*	33.153	S	68.119	W	5	G		1.2	11	MENDOZA PROVINCE, ARGENTINA. MD 4.0 (SAN).
12	09	16	33.1*	21.039	S	174.513	W	33	N	4.3	1.2	22	TONGA ISLANDS
12	09	37	27.8*	54.943	N	161.459	W	57				13	ALASKA PENINSULA. <AEIC>. ML 2.7 (AEIC).
12	10	10	11.6*	51.710	N	142.505	E	33	N	4.2	1.5	12	SAKHALIN ISLAND
12	10	22	27.5*	48.949	S	121.464	E	10	G	4.4	1.3	25	SOUTH OF AUSTRALIA
12	11	31	42.3	6.258	S	148.554	E	33	N	4.5	1.0	29	NEW BRITAIN REGION, P.N.G.
12	12	31	19.8*	4.437	S	153.641	E	100	G	4.5	0.9	19	NEW IRELAND REGION, P.N.G.
12	12	40	09.8*	44.453	N	7.449	E	5	G		0.5	6	NORTHERN ITALY. ML 2.1 (LDG).
12	13	36	54.1	36.864	N	116.249	W	10	G		0.6	22	CALIFORNIA-NEVADA BORDER REGION. ML 3.9 (GS). MD 4.0 (REN).
12	13	51	16.1*	4.287	S	153.531	E	33	N	4.6	1.1	33	NEW IRELAND REGION, P.N.G.
12	14	09	03.0*	63.122	S	164.321	W	10	G	5.0 5.6	1.3	46	PACIFIC-ANTARCTIC RIDGE. Mw 5.9 (GS), 5.7 (HRV).

Moment Tensor (GS): Dep 23; Principal axes (scale 10**17
Nm): (T) Val=8.73, Plg=7, Azm=9; (N) Val=-0.36, Plg=82,
Azm=220; (P) Val=-8.36, Plg=4, Azm=99; Best double couple:
Mo=8.5*10**17 Nm; NPl: Strike=144, Dip=82, Slip=2; NP2:
Strike=54, Dip=88, Slip=172.

Centroid, Moment Tensor (HRV): Centroid origin time
14:09:09.6; Lat 63.31 S; Lon 164.28 W; Dep 15.0 Fix; Half-
duration 1.8 sec; Principal axes (scale 10**17 Nm): (T)
Val=4.51, Plg=2, Azm=195; (N) Val=-0.07, Plg=87, Azm=58;
(P) Val=-4.44, Plg=2, Azm=285; Best double couple:
Mo=4.5*10**17 Nm; NPl: Strike=330, Dip=87, Slip=0; NP2:
Strike=240, Dip=90, Slip=177.

Scalar Moment (PPT): Mo=9.8*10**17 Nm.

12	15	08	56.6	11.128	S	162.331	E	33	N	4.4	1.0	36	SOLOMON ISLANDS
12	15	25	09.9*	5.972	N	127.142	E	100	G		1.1	10	PHILIPPINE ISLANDS REGION
12	15	34	54.2*	48.346	N	5.594	E	10	G		0.7	7	FRANCE
12	15	40	28.2	27.258	N	138.855	E	549	*	4.1	0.9	32	BONIN ISLANDS REGION
12	16	20	25.0	51.716	N	16.197	E	5	G		0.8	20	POLAND. ML 4.1 (GRF), 3.6 (VIE).
12	16	20	44.5*	36.233	N	120.355	W	11				24	CENTRAL CALIFORNIA. <GM-P>. MD 3.5 (GM). ML 3.6 (BRK).
12	16	34	28.8*	17.818	S	178.100	W	600	G	4.5	0.9	20	FIJI ISLANDS REGION
12	16	48	26.6	0.477	S	86.849	E	33	N	4.9 4.3	1.1	72	SOUTH INDIAN OCEAN. Mw 5.2 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time
16:48:26.8; Lat 0.44 S; Lon 86.73 E; Dep 15.0 Fix; Half-
duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
Val=7.83, Plg=3, Azm=245; (N) Val=-0.18, Plg=85, Azm=4; (P)
Val=-7.65, Plg=5, Azm=155; Best double couple:
Mo=7.7*10**16 Nm; NPl: Strike=290, Dip=85, Slip=-179; NP2:
Strike=200, Dip=89, Slip=-5.

12	17	05	17.3?	17.59	S	178.76	W	500	G		0.9	9	FIJI ISLANDS REGION
12	17	08	23.1*	36.784	N	121.502	W	8				26	CENTRAL CALIFORNIA. <GM-P>. Mw 3.6 (BRK). MD 3.4 (GM). ML 3.6 (BRK).

Moment Tensor (BRK): Dep 11; Principal axes (scale 10**14
Nm): (T) Val=2.41, Plg=1, Azm=103; (N) Val=0.00, Plg=70,
Azm=196; (P) Val=-2.41, Plg=20, Azm=13; Best double couple:
Mo=2.9*10**14 Nm; NPl: Strike=56, Dip=76, Slip=-15; NP2:
Strike=150, Dip=75, Slip=-166.

12	17	12	33.9?	6.16	N	123.82	E	33	N	4.4	1.4	10	MINDANAO, PHILIPPINE ISLANDS
12	18	02	00.4*	32.672	S	71.111	W	5	G		0.3	6	NEAR COAST OF CENTRAL CHILE
12	18	23	32.7	59.884	N	29.990	W	10	G	4.1	0.7	17	NORTH ATLANTIC OCEAN
12	18	54	33.5*	38.957	N	71.172	E	33	N		1.5	11	AFGHANISTAN-TAJIKISTAN BORD REG.

12	18	54	49.2*	31.402	S	117.712	E	10	G		0.5	5	WESTERN AUSTRALIA
12	19	17	40.1*	37.468	N	32.382	W	10	G	4.5	0.8	9	AZORES ISLANDS REGION
12	19	53	00.2*	21.618	N	143.100	E	300	G	4.1	1.0	27	MARIANA ISLANDS REGION
12	21	51	36.6%	37.114	N	3.626	W	10	G		0.6	5	SPAIN. mbLg 2.1 (MDD).
12	22	36	27.3	46.201	N	151.964	E	33	N	4.9 4.0	0.9	79	KURIL ISLANDS
13	00	52	43.8?	4.93	N	93.94	E	33	N	4.3	1.4	9	OFF W COAST OF NORTHERN SUMATERA
13	02	19	39.5*	24.351	S	179.751	E	600	G	4.1	0.8	16	SOUTH OF FIJI ISLANDS
13	02	44	10.7?	44.94	N	6.64	E	5	G		0.4	4	FRANCE
13	03	06	22.8*	62.925	S	163.960	W	10	G		0.7	7	PACIFIC-ANTARCTIC RIDGE
13	03	35	04.7%	46.476	N	7.764	E	10	G		0.7	5	SWITZERLAND. ML 2.3 (LDG).
13	03	39	11.26	62.957	N	149.073	W	86				47	CENTRAL ALASKA. <AEIC>.
13	03	47	58.8	44.779	N	6.642	E	5	G		0.7	14	FRANCE. ML 1.9 (LDG).
13	04	45	10.5*	52.467	S	14.950	E	10	G	4.4	1.2	10	SOUTHWEST OF AFRICA
13	04	49	14.4	43.464	N	110.672	W	5	G		0.9	25	WYOMING. ML 2.8 (BUT).
13	04	53	29.1?	15.13	S	179.15	W	400	G	4.0	0.5	9	FIJI ISLANDS REGION
13	05	46	24.7?	45.43	N	6.58	E	5	G		0.1	4	FRANCE
13	05	47	48.4	52.629	N	174.590	W	180	D	4.2	1.0	48	ANDREANOF ISLANDS, ALEUTIAN IS.
13	06	00	20.76	53.421	N	165.223	W	25				6	FOX ISLANDS, ALEUTIAN ISLANDS. <AEIC>. ML 2.7 (AEIC).
13	06	05	07.6	45.456	N	6.581	E	5	G		0.3	10	FRANCE. ML 2.0 (LDG).
13	06	20	02.4%	36.454	N	3.191	W	5	G		0.7	14	STRAIT OF GIBRALTAR. mbLg 3.4 (MDD).
13	06	23	20.3?	16.04	S	67.43	E	10	G		0.3	5	MID-INDIAN RIDGE
13	06	32	32.8%	27.747	N	130.144	E	33	N		0.6	5	RYUKYU ISLANDS
13	06	46	02.9	4.445	S	102.843	E	97	D	5.0	0.9	95	SOUTHERN SUMATERA, INDONESIA. Mw 5.2 (HRV). Felt (III) at Bengkulu and Manna.
Centroid, Moment Tensor (HRV): Centroid origin time 06:46:07.4; Lat 4.45 S Fix; Lon 102.84 E Fix; Dep 97.3 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.59, Plg=51, Azm=325; (N) Val=0.60, Plg=27, Azm=93; (P) Val=-7.19, Plg=27, Azm=197; Best double couple: Mo=6.9*10**16 Nm; NP1: Strike=332, Dip=30, Slip=153; NP2: Strike=86, Dip=77, Slip=62.													
13	06	50	24.5	15.747	S	174.768	W	200	G	4.5	0.9	87	TONGA ISLANDS
13	07	23	55.5*	32.000	S	71.765	W	35	G		0.5	14	NEAR COAST OF CENTRAL CHILE. MD 4.4 (SAN). Felt (II) at La Ligua.
13	07	37	39.1*	4.671	N	127.592	E	33	N	4.3	0.8	21	TALAUD ISLANDS, INDONESIA
13	08	32	19.1%	33.529	S	71.929	W	15	G		0.4	11	NEAR COAST OF CENTRAL CHILE. MD 3.7 (SAN).
13	09	00	35.9?	25.73	S	178.73	E	600	G	4.3	0.7	14	SOUTH OF FIJI ISLANDS
13	10	33	09.5*	13.483	N	87.540	W	300	G	4.2	0.9	23	HONDURAS
13	11	50	56.4*	18.224	N	146.725	E	100	G	4.1	1.3	20	MARIANA ISLANDS
13	12	46	49.5?	36.50	N	3.14	W	10	G		0.6	7	STRAIT OF GIBRALTAR. mbLg 2.7 (MDD).
13	13	32	27.0	3.065	N	96.224	E	33	N	4.6	1.0	28	NORTHERN SUMATERA, INDONESIA
13	13	49	05.4%	18.927	N	121.460	E	33	N		1.3	9	LUZON, PHILIPPINE ISLANDS
13	14	03	04.4?	32.51	S	70.30	W	100	G		0.3	9	CHILE-ARGENTINA BORDER REGION. MD 3.0 (SAN).
13	14	21	56.1%	47.367	N	4.258	E	5	G		1.4	11	FRANCE. ML 2.8 (LDG).
13	14	39	59.86	60.192	N	151.244	W	59				30	KENAI PENINSULA, ALASKA. <AEIC>. ML 3.2 (AEIC), 3.3 (PMR).
13	15	44	00.1*	23.744	S	179.337	W	400	G	4.0	0.7	14	SOUTH OF FIJI ISLANDS
13	15	55	50.7*	46.583	N	152.774	E	33	N		1.3	10	KURIL ISLANDS
13	17	13	03.4*	46.106	N	12.688	E	10	G		1.3	7	NORTHERN ITALY. ML 2.5 (VIE).
13	17	25	57.7*	42.960	N	13.235	E	10	G		1.5	18	CENTRAL ITALY. ML 3.5 (LDG).
13	17	28	52.0*	21.367	S	174.620	W	33	N	4.4	1.2	36	TONGA ISLANDS
13	17	55	52.5*	7.122	S	129.508	E	100	G	3.5	1.0	9	BANDA SEA
13	17	59	38.7	44.767	N	6.775	E	5	G		0.9	63	FRANCE. ML 3.4 (LDG), 3.3 (STR), 3.2 (GEN).
13	18	36	35.0*	30.098	N	88.026	E	33	N		0.8	10	XIZANG
13	18	38	09.5*	30.119	N	88.193	E	33	N	4.3	1.4	13	XIZANG
13	18	38	27.8*	27.642	N	53.068	E	10	G	4.3	1.2	20	SOUTHERN IRAN
13	19	23	00.9%	37.278	N	3.730	W	10	G		0.9	7	SPAIN. mbLg 2.1 (MDD).
13	19	32	37.2	50.382	N	177.676	E	33	N		0.9	23	RAT ISLANDS, ALEUTIAN ISLANDS
13	19	50	32.06	38.290	N	89.710	W	16				5	SOUTHERN ILLINOIS. <SLM-P>. mbLg 2.8 (SLM).
13	20	55	01.9*	36.727	N	2.804	W	10	G		0.6	6	STRAIT OF GIBRALTAR. mbLg 2.4 (MDD).
13	22	26	30.36	31.703	N	115.520	W	6	G			22	BAJA CALIFORNIA, MEXICO. <PAS-P>. ML 3.2 (PAS). MD 3.5 (ECX).
13	22	50	40.7?	18.26	S	177.84	W	500	G	4.1	1.2	15	FIJI ISLANDS REGION
13	23	31	25.9	6.152	S	149.852	E	66		5.0	0.8	92	NEW BRITAIN REGION, P.N.G. Mw 5.4 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 23:31:28.3; Lat 6.49 S; Lon 150.17 E; Dep 35.7; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.43, Plg=73, Azm=318; (N) Val=0.24, Plg=10, Azm=82; (P) Val=-1.67, Plg=14, Azm=174; Best double couple: Mo=1.5*10**17 Nm; NP1: Strike=278, Dip=32, Slip=108; NP2: Strike=76, Dip=59, Slip=79.													
14	00	39	35.3%	45.902	N	5.993	E	5	G		1.3	11	FRANCE. ML 2.4 (LDG).
14	00	57	11.6*	29.140	N	140.068	E	418	*	3.9	0.9	13	SOUTH OF HONSHU, JAPAN
14	00	58	04.9*	45.085	N	28.141	W	10	G	4.3	0.9	18	NORTHERN MID-ATLANTIC RIDGE
14	01	56	52.8	34.311	N	32.287	E	10	G	4.1	0.8	33	CYPRUS REGION. ML 4.2 (JER).
14	04	23	39.5%	6.877	N	94.070	E	10	G		0.6	8	NICOBAR ISLANDS, INDIA
14	05	14	24.9	52.132	N	175.667	E	70	D	4.5	0.9	51	RAT ISLANDS, ALEUTIAN ISLANDS
14	05	32	00.6*	34.279	N	139.255	E	33	N		1.3	17	NEAR S. COAST OF HONSHU, JAPAN
14	05	33	21.1*	34.351	N	139.210	E	33	N		1.4	17	NEAR S. COAST OF HONSHU, JAPAN
14	05	44	04.3*	14.526	N	144.550	E	24	D	4.5	0.9	26	MARIANA ISLANDS
14	07	58	00.1	56.064	N	164.691	E	33	N	4.2	0.9	30	KOMANDORSKY ISLANDS REGION
14	08	19	31.9%	5.449	S	146.599	E	33	N		0.8	6	EASTERN NEW GUINEA REG., P.N.G.
14	08	31	21.36	34.459	N	119.010	W	6				34	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS), 3.2 (GS).
14	08	36	59.0*	12.293	S	166.686	E	300	G	3.9	1.3	40	SANTA CRUZ ISLANDS
14	09	50	20.6	51.523	N	178.389	W	53		4.9	0.8	198	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.0 (PMR).
14	09	52	54.1	6.027	N	127.452	E	55	D	4.6	0.8	21	PHILIPPINE ISLANDS REGION
14	11	37	30.8?	23.42	S	169.57	E	33	N		0.7	8	LOYALTY ISLANDS REGION
14	11	54	38.1%	47.748	N	2.839	W	5	G		1.2	6	FRANCE. ML 1.8 (LDG).
14	13	02	46.4?	4.32	S	153.57	E	100	G	4.0	1.2	8	NEW IRELAND REGION, P.N.G.
14	13	16	15.8?	52.54	N	270.24	W	33	N		0.7	5	FOX ISLANDS, ALEUTIAN ISLANDS
14	14	19	02.2	20.830	S	179.042	W	650	G	4.0	0.9	47	FIJI ISLANDS REGION
14	14	56	00.7*	28.111	S	66.620	W	168		3.9	1.4	28	CATAMARCA PROVINCE, ARGENTINA
14	14	59	50.3	78.741	N	2.741	E	10	G		0.9	7	GREENLAND SEA
14	15	19	46.6%	44.214	N	7.113	E	5	G		0.1	6	NORTHERN ITALY. ML 1.8 (GEN).
14	15	20	01.2	58.197	N	142.817	W	10	G		0.7	38	GULF OF ALASKA. ML 2.9 (AEIC).

14	15	46	46.3	47.115	N	11.361	E	5	G	1.4	28	AUSTRIA. ML 2.8 (LDG), 2.7 (VIE).	
14	16	10	02.18	33.818	S	70.739	W	80	G	0.7	9	CHILE-ARGENTINA BORDER REGION. MD 2.8 (SAN).	
14	16	45	41.68	33.868	N	141.564	E	33	N	0.9	9	OFF EAST COAST OF HONSHU, JAPAN	
14	17	00	34.0*	38.491	S	175.496	E	200	G	1.2	28	NORTH ISLAND, NEW ZEALAND	
14	18	11	51.5	5.512	S	151.693	E	55	*	0.8	91	NEW BRITAIN REGION, P.N.G.	
14	18	23	48.38	45.328	N	6.606	E	10	G	0.7	6	FRANCE. ML 2.0 (LDG).	
14	18	38	42.6	16.885	S	69.713	W	116	*	0.8	44	PERU-BOLIVIA BORDER REGION	
14	19	38	16.72	45.25	N	150.41	E	33	N	0.8	8	KURIL ISLANDS	
14	21	41	47.16	61.964	N	151.224	W	87		105	105	SOUTHERN ALASKA. <AEIC>.	
14	21	55	32.9	4.790	S	153.119	E	55	*	0.9	53	NEW IRELAND REGION, P.N.G.	
14	21	58	54.06	60.080	N	152.709	W	93		74	74	SOUTHERN ALASKA. <AEIC>.	
14	22	10	54.48	27.212	N	140.674	E	483	*	0.5	11	BONIN ISLANDS REGION	
14	22	46	59.0*	18.538	S	167.918	E	10	G	1.4	21	VANUATU ISLANDS	
15	00	07	39.7	24.580	S	177.621	W	188	D	0.8	39	SOUTH OF FIJI ISLANDS	
15	00	31	15.4*	6.29	S	148.64	E	33	N	0.9	9	NEW BRITAIN REGION, P.N.G.	
15	01	07	49.2	34.164	N	141.440	E	33	N	0.8	45	OFF EAST COAST OF HONSHU, JAPAN	
15	01	14	56.4	34.233	N	141.449	E	33	N	0.9	37	OFF EAST COAST OF HONSHU, JAPAN	
15	01	39	52.9*	31.396	S	178.673	W	158	D	1.0	32	KERMADEC ISLANDS REGION	
15	01	52	46.58	44.241	N	6.916	E	5	G	0.5	5	FRANCE. ML 2.0 (LDG).	
15	01	56	44.98	44.244	N	7.000	E	5	G	0.8	6	NORTHERN ITALY. ML 1.8 (LDG).	
15	02	02	35.8	11.464	N	142.568	E	100	G	0.6	13	SOUTH OF MARIANA ISLANDS	
15	02	06	43.16	60.338	N	152.880	W	112		125	125	SOUTHERN ALASKA. <AEIC>. Felt (II) at Anchorage.	
15	02	54	02.16	57.679	N	152.808	W	49		97	97	KODIAK ISLAND REGION. <AEIC>. ML 3.5 (AEIC), 3.9 (PMR).	
15	03	03	53.3*	31.205	N	131.217	E	33	N	1.4	25	25	KYUSHU, JAPAN. Felt (II JMA) in southeastern Kagoshima Prefecture.
15	03	26	10.8*	42.511	N	126.303	W	10	G	0.4	15	15	OFF COAST OF OREGON
15	03	49	50.0	17.741	S	178.658	W	550	G	0.9	48	48	FIJI ISLANDS REGION
15	04	07	12.38	33.386	S	70.052	W	120	G	0.3	11	11	CHILE-ARGENTINA BORDER REGION. MD 2.6 (SAN).
15	04	38	34.6*	31.23	S	69.47	W	180	G	0.3	9	9	SAN JUAN PROVINCE, ARGENTINA. MD 3.2 (SAN).
15	06	27	37.2	4.610	S	102.653	E	54	D	0.7	30	30	SOUTHERN SUMATERA, INDONESIA. Felt (III) at Kepahiang and Manna.
15	07	30	46.8*	33.89	S	178.71	W	33	N	0.5	8	8	SOUTH OF KERMADEC ISLANDS
15	07	38	17.86	61.076	N	150.617	W	46		107	107	SOUTHERN ALASKA. <AEIC>. ML 3.9 (AEIC), 4.0 (PMR). Felt (III) at Anchorage.	
15	07	51	44.6*	6.40	S	153.09	E	33	N	0.3	5	5	NEW BRITAIN REGION, P.N.G.
15	07	57	05.4*	9.900	N	86.618	W	33	N	1.0	29	29	OFF COAST OF COSTA RICA
15	09	18	09.3*	20.045	S	177.997	W	500	G	0.8	14	14	FIJI ISLANDS REGION
15	09	58	00.96	59.900	N	153.400	W	135		42	42	SOUTHERN ALASKA. <AEIC>.	
15	11	13	06.5*	13.32	N	91.77	W	33	N	1.4	15	15	NEAR COAST OF GUATEMALA
15	11	23	02.7*	51.148	N	15.842	E	5	G	1.1	6	6	POLAND. ML 3.3 (VIE).
15	12	08	59.8*	31.67	S	70.38	W	130	G	0.3	10	10	CHILE-ARGENTINA BORDER REGION. MD 3.1 (SAN).
15	12	18	00.3*	31.447	S	117.655	E	10	G	0.2	5	5	WESTERN AUSTRALIA
15	12	58	11.5*	33.64	S	69.23	W	10	G	0.4	10	10	CHILE-ARGENTINA BORDER REGION. MD 3.5 (SAN).
15	13	05	42.7	8.098	N	126.642	E	51	D	1.0	185	185	MDANDANAO, PHILIPPINE ISLANDS. Mw 6.2 (GS), 6.1 (HRV). Me 5.7 (GS).
Broadband Source Parameters (GS): Dep 36; NP1: Strike=20, Dip=45, Slip=120; NP2: Strike=161, Dip=52, Slip=63; Radiated energy 9.0*10**12 Nm.													
Moment Tensor (GS): Dep 39; Principal axes (scale 10**18 Nm): (T) Val=1.94, Plg=81, Azm=322; (N) Val=0.31, Plg=7, Azm=175; (P) Val=-2.25, Plg=5, Azm=85; Best double couple: Mo=2.1*10**18 Nm; NP1: Strike=166, Dip=41, Slip=78; NP2: Strike=1, Dip=50, Slip=100.													
Centroid, Moment Tensor (HRV): Centroid origin time 13:05:48.9; Lat 8.03 N; Lon 126.93 E; Dep 51.1; Half-duration 2.6 sec; Principal axes (scale 10**18 Nm): (T) Val=1.49, Plg=76, Azm=343; (N) Val=-0.05, Plg=13, Azm=184; (P) Val=-1.44, Plg=5, Azm=93; Best double couple: Mo=1.5*10**18 Nm; NP1: Strike=169, Dip=42, Slip=70; NP2: Strike=15, Dip=51, Slip=107.													
15	13	31	57.9*	27.63	S	73.46	E	10	G	0.5	5	5	MID-INDIAN RIDGE
15	13	53	40.4	38.265	N	75.169	E	150	G	0.8	21	21	SOUTHERN XINJIANG, CHINA
15	15	38	23.5	16.242	N	98.376	W	33	N	1.0	106	106	NEAR COAST OF GUERRERO, MEXICO
15	15	40	30.3*	16.373	N	98.549	W	33	N	1.2	45	45	NEAR COAST OF GUERRERO, MEXICO
15	16	10	31.2*	3.327	S	140.926	E	33	N	1.4	10	10	IRIAN JAYA, INDONESIA
15	16	41	10.6*	30.093	N	88.292	E	33	N	1.1	10	10	XIZANG
15	16	52	44.7	25.529	N	45.322	W	10	G	0.9	55	55	NORTHERN MID-ATLANTIC RIDGE. Mw 5.2 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 16:52:49.7; Lat 25.39 N; Lon 45.25 W; Dep 15.0 Fix; Half-duration 1.3 sec; Principal axes (scale 10**16 Nm): (T) Val=6.76, Plg=0, Azm=103; (N) Val=0.69, Plg=0, Azm=13; (P) Val=-7.44, Plg=90, Azm=180; Best double couple: Mo=7.1*10**16 Nm; NP1: Strike=193, Dip=45, Slip=-90; NP2: Strike=13, Dip=45, Slip=-90.													
15	20	24	04.9	0.513	N	125.060	E	58	D	1.0	41	41	NORTHERN MOLUCCA SEA
15	20	31	59.0*	6.509	S	130.120	E	184	*	1.3	16	16	BANDA SEA
15	20	45	19.0*	51.257	N	176.944	W	33	N	1.1	11	11	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.4 (PMR).
15	20	59	50.38	33.634	S	71.707	W	20	G	0.2	9	9	NEAR COAST OF CENTRAL CHILE. MD 3.4 (SAN).
15	21	30	25.5	3.426	S	127.332	E	79	D	1.0	23	23	SERAM, INDONESIA
15	22	38	23.3*	10.834	S	43.156	E	10	G	1.0	31	31	NORTHWEST OF MADAGASCAR
15	22	44	30.0*	6.24	S	130.87	E	33	N	1.1	7	7	BANDA SEA
15	23	32	23.2	10.681	N	61.681	W	10	G	0.8	10	10	TRINIDAD
15	23	36	25.4*	4.474	S	153.505	E	128	?	0.8	17	17	NEW IRELAND REGION, P.N.G.
16	00	34	56.8*	16.808	S	167.392	E	33	N	0.9	19	19	VANUATU ISLANDS
16	01	27	25.5	44.028	N	11.757	E	5	G	0.4	14	14	NORTHERN ITALY. ML 2.9 (LDG).
16	02	36	34.0	8.652	S	74.457	W	153	D	0.6	58	58	PERU-BRAZIL BORDER REGION
16	04	35	48.26	61.044	N	147.573	W	30		107	107	SOUTHERN ALASKA. <AEIC>. ML 3.8 (AEIC), 3.7 (PMR).	
16	05	07	44.2	4.964	S	102.509	E	38	D	1.2	52	52	SOUTHERN SUMATERA, INDONESIA. Felt (II) at Bengkulu.
16	05	28	12.1*	34.636	N	135.919	E	33	N	0.9	9	9	NEAR S. COAST OF WESTERN HONSHU
16	06	40	58.1*	7.26	S	128.78	E	33	N	1.3	8	8	BANDA SEA
16	08	01	29.8	30.850	S	72.023	W	33	N	0.9	14	14	OFF COAST OF CENTRAL CHILE
16	08	29	05.0	11.956	N	141.654	E	100	G	0.7	16	16	WESTERN CAROLINE ISLANDS
16	08	33	54.3	34.481	N	32.013	E	10	G	0.6	20	20	CYPRUS REGION. ML 4.1 (JER).

16	08	35	53.0*	34.921 N	26.460 E	100 G	1.2	16	CRETE
16	08	38	20.1*	10.547 N	86.026 W	33 N 4.6	1.1	48	OFF COAST OF COSTA RICA
16	08	45	57.2*	17.62 N	67.24 W	33 N	0.3	5	MONA PASSAGE. MD 2.9 (MPR).
16	09	07	21.0*	13.515 S	166.311 E	33 N 4.3	1.2	9	VANUATU ISLANDS
16	10	08	16.4*	43.388 S	170.190 E	10 G 4.3	1.1	11	SOUTH ISLAND, NEW ZEALAND. ML 4.7 (WEL).
16	12	01	01.3*	7.218 N	77.047 W	33 N	1.0	11	PANAMA-COLOMBIA BORDER REGION
16	12	15	32.0	36.923 N	54.101 E	33 N 4.8	1.1	59	NORTHERN IRAN
16	13	09	57.6	6.631 S	146.872 E	65 D 4.8	0.6	34	EASTERN NEW GUINEA REG., P.N.G.
16	13	10	30.9*	43.860 N	7.926 E	5 G	0.4	6	NEAR SOUTH COAST OF FRANCE. ML 2.1 (LDG).
16	13	17	32.1*	38.372 N	68.968 E	33 N	1.0	10	TAJIKISTAN
16	13	30	08.0*	13.467 S	166.385 E	33 N 4.7	0.8	16	VANUATU ISLANDS
16	13	36	27.7	5.511 S	151.798 E	33 N 5.1 4.6	1.1	35	NEW BRITAIN REGION, P.N.G. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 13:36:31.0; Lat 5.62 S; Lon 152.27 E; Dep 33.0; Half- duration 1.2 sec; Principal axes (scale 10**16 Nm): (T) Val=6.90, Plg=64, Azm=349; (N) Val=1.10, Plg=1, Azm=257; (P) Val=-8.00, Plg=26, Azm=167; Best double couple: Mo=7.4*10**16 Nm; NP1: Strike=255, Dip=19, Slip=87; NP2: Strike=78, Dip=71, Slip=91.
16	13	43	39.4*	7.340 N	126.392 E	170 * 4.6	0.9	19	MINDANAO, PHILIPPINE ISLANDS
16	14	14	18.3*	11.071 N	60.754 W	10 G	0.8	5	WINDWARD ISLANDS
16	15	24	04.3*	43.480 S	170.176 E	10 G 4.7	1.4	13	SOUTH ISLAND, NEW ZEALAND. ML 4.8 (WEL). Felt along the west coast of the South Island.
16	16	43	24.8*	28.282 N	57.762 E	33 N 4.3	1.4	12	SOUTHERN IRAN
16	17	07	52.0	44.432 N	111.087 W	5 G	0.5	9	HEBGEN LAKE REGION. ML 3.0 (BUT).
16	17	52	11.0	14.708 N	93.641 W	33 N 4.6 4.3	1.1	52	NEAR COAST OF CHIAPAS, MEXICO
16	20	36	34.9*	3.281 S	129.417 E	33 N 4.3	1.3	16	SERAM, INDONESIA
16	23	07	21.7*	48.448 N	1.362 W	5 G	0.6	5	FRANCE. ML 1.8 (LDG).
16	23	43	56.0*	13.195 N	89.128 W	100 G 4.2	1.4	30	EL SALVADOR
17	00	39	00.16	40.535 N	112.179 W	1		24	UTAH. <SLC-P>. ML 3.0 (SLC).
17	01	22	14.0*	29.740 N	83.700 E	33 N 4.3	1.2	10	NEPAL
17	02	34	45.5*	46.29 N	13.86 E	10 G	0.7	4	AUSTRIA. ML 1.9 (VIE).
17	04	05	37.3*	58.800 N	154.776 W	113		24	ALASKA PENINSULA. <AEIC>.
17	04	12	35.1*	51.505 N	6.781 E	10 G	1.4	12	GERMANY. ML 2.7 (LDG), 2.6 (STR), 2.3 (DBN), 2.3 (UCC).
17	04	16	32.5	4.188 N	96.485 E	43 4.8	1.0	68	NORTHERN SUMATERA, INDONESIA
17	04	23	17.1*	63.895 N	147.771 W	10 G	1.0	6	CENTRAL ALASKA. ML 2.7 (PMR).
17	04	42	32.6	24.464 S	179.773 E	550 G 4.3	0.7	42	SOUTH OF FIJI ISLANDS
17	05	08	24.7*	22.661 S	63.731 W	533 * 4.6	0.8	9	SALTA PROVINCE, ARGENTINA
17	05	59	32.0*	5.505 S	134.202 E	33 N 4.0	1.4	17	ARU ISLANDS REGION, INDONESIA
17	06	41	13.6*	2.994 S	140.661 E	33 N 4.0	1.1	13	NEAR NORTH COAST OF IRIAN JAYA. Felt (III) at Jayapura.
17	07	01	47.2*	2.74 N	128.70 E	33 N 4.2	1.3	11	HALMAHERA, INDONESIA
17	07	17	09.9*	28.826 S	67.457 W	133 * 1.3	1.3	18	LA RIOJA PROVINCE, ARGENTINA
17	08	08	28.7*	32.294 N	115.146 W	6 G		1	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 2.9 (PAS). MD 3.3 (ECX).
17	09	00	55.3	17.591 S	174.731 W	177 D 4.7	1.0	59	TONGA ISLANDS
17	09	03	56.8	34.413 S	71.015 W	80 G 3.6	0.6	15	NEAR COAST OF CENTRAL CHILE. Felt (IV) at Curico, Iloca, Licanten and Rancagua, (III) at Santiago and (II) at Talca.
17	09	08	31.2*	33.920 N	137.352 E	327 3.3	0.6	11	NEAR S. COAST OF HONSHU, JAPAN
17	09	21	38.8*	42.847 N	12.870 E	10 G	1.2	14	CENTRAL ITALY. ML 2.9 (LDG).
17	09	56	02.6*	23.09 S	169.27 E	33 N 4.1	0.8	6	LOYALTY ISLANDS REGION
17	10	21	32.6*	44.908 N	6.718 E	5 G	0.8	7	FRANCE. ML 2.0 (LDG).
17	10	53	01.8*	39.089 S	175.377 E	5 G	0.5	10	NORTH ISLAND, NEW ZEALAND. ML 4.2 (WEL). Felt in the epicentral area.
17	11	15	01.8*	42.86 N	12.76 E	10 G	1.3	16	CENTRAL ITALY. ML 2.9 (LDG).
17	12	34	26.3	11.104 S	165.799 E	41 D 5.1 4.9	1.0	82	SANTA CRUZ ISLANDS. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 12:34:28.4; Lat 10.88 S; Lon 165.97 E; Dep 39.5; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.21, Plg=27, Azm=138; (N) Val=1.61, Plg=6, Azm=45; (P) Val=-6.82, Plg=62, Azm=302; Best double couple: Mo=6.0*10**16 Nm; NP1: Strike=244, Dip=19, Slip=-70; NP2: Strike=43, Dip=73, Slip=-97.
17	12	48	01.8*	5.08 S	153.50 E	122 D 4.1	1.4	9	NEW IRELAND REGION, P.N.G.
17	13	13	13.3*	46.94 N	4.38 W	10 G	0.6	9	BAY OF BISCAY. ML 3.1 (LDG).
17	14	25	28.6*	53.855 N	164.935 W	57 4.6		97	UNIMAK ISLAND REGION. <AEIC>. ML 4.6 (AEIC).
17	14	50	35.3	2.109 N	126.597 E	33 N 5.7 5.5	1.0	175	NORTHERN MOLUCCA SEA. Mw 6.0 (GS), 6.0 (HRV). Me 5.7 (GS). Felt (III) at Bitung, Indonesia. Broadband Source Parameters (GS): Dep 38; NP1: Strike=230, Dip=40, Slip=120; NP2: Strike=13, Dip=56, Slip=67; Radiated energy 8.5*10**12 Nm. Moment Tensor (GS): Dep 37; Principal axes (scale 10**18 Nm): (T) Val=1.13, Plg=67, Azm=193; (N) Val=0.44, Plg=23, Azm=12; (P) Val=-1.57, Plg=0, Azm=103; Best double couple: Mo=1.3*10**18 Nm; NP1: Strike=214, Dip=49, Slip=122; NP2: Strike=351, Dip=50, Slip=59. Centroid, Moment Tensor (HRV): Centroid origin time 14:50:43.6; Lat 2.42 N; Lon 126.59 E; Dep 37.5; Half- duration 2.4 sec; Principal axes (scale 10**18 Nm): (T) Val=1.33, Plg=80, Azm=119; (N) Val=-0.03, Plg=1, Azm=24; (P) Val=-1.30, Plg=10, Azm=294; Best double couple: Mo=1.3*10**18 Nm; NP1: Strike=23, Dip=35, Slip=89; NP2: Strike=205, Dip=55, Slip=91.
17	14	54	50.6*	61.736 N	151.595 W	94		25	SOUTHERN ALASKA. <AEIC>.
17	15	26	53.9	19.274 N	121.225 E	33 N 5.3	1.1	95	PHILIPPINE ISLANDS REGION. Mw 5.6 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 15:26:58.1; Lat 19.70 N; Lon 121.01 E; Dep 33.1; Half- duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=2.36, Plg=73, Azm=84; (N) Val=0.44, Plg=9, Azm=205; (P) Val=-2.80, Plg=14, Azm=297; Best double couple: Mo=2.6*10**17 Nm; NP1: Strike=40, Dip=32, Slip=107; NP2: Strike=200, Dip=60, Slip=80.
17	16	34	58.0*	11.530 S	117.582 E	33 N	0.8	7	SOUTH OF SUMBAWA, INDONESIA
17	16	40	41.4	51.459 N	176.193 W	33 N 4.5	0.9	20	ANDREANOF ISLANDS, ALEUTIAN IS.

17	16	58	48.7?	4.48	S	153.42	E	148	D	4.0	1.3	9	NEW IRELAND REGION, P.N.G.
17	17	26	52.6	49.128	N	150.589	E	350	G	4.1	0.9	22	NORTHWEST OF KURIL ISLANDS
17	18	10	48.2*	21.834	N	143.032	E	250	G	4.2	1.0	26	MARIANA ISLANDS REGION
17	18	16	31.6	35.619	N	90.457	W	5	G		0.6	6	ARKANSAS. mBLg 3.8 (GS). Some items knocked from shelves (V) at Lepanto. Felt (V) at Trumann; (IV) at Leachville and Marked Tree; (III) at Bay, Black Oak, Caraway, Corning, Etowah, Lake City, Rivervale and Tyrone. Also felt at Jonesboro.
17	19	11	49.1	51.554	N	16.253	E	5	G		0.5	12	POLAND. ML 3.4 (VIE), 3.4 (GRF).
17	19	43	09.0%	45.621	N	6.314	E	5	G		0.2	5	FRANCE. ML 1.7 (LDG).
17	19	58	20.7*	49.407	N	6.939	E	10	G		1.0	6	GERMANY. ML 1.7 (UCC).
17	20	55	17.2?	14.67	N	144.76	E	33	N		0.8	9	MARIANA ISLANDS
17	21	00	14.7	63.010	N	149.445	W	33	N		0.2	6	CENTRAL ALASKA. ML 3.0 (PMR).
17	21	44	29.7*	27.505	N	56.398	E	33	N	4.3	1.1	21	SOUTHERN IRAN
17	21	50	03.9*	2.958	S	128.030	E	33	N	4.5	1.3	27	CERAM SEA
17	22	16	02.8%	32.528	N	115.629	W	3				21	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.3 (PAS). MD 3.2 (ECX). First of two events about 6.5 seconds apart. Magnitude from the larger, second event.
17	23	23	20.0?	45.86	N	6.95	E	5	G		1.3	5	FRANCE. ML 2.7 (STR), 2.5 (LDG).
17	23	29	00.8	22.504	S	171.431	E	50	G	5.0 4.8	1.2	89	LOYALTY ISLANDS REGION. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 23:29:07.5; Lat 22.01 S; Lon 171.14 E; Dep 103.8; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=-6.65, Plg=59, Azm=333; (N) Val=-1.15, Plg=22, Azm=105; (P) Val=-5.50, Plg=21, Azm=204; Best double couple: Mo=6.1*10**16 Nm; NP1: Strike=327, Dip=31, Slip=136; NP2: Strike=96, Dip=69, Slip=67.
18	00	10	55.6*	30.151	S	178.343	W	85	*	4.6	1.0	18	KERMADEC ISLANDS, NEW ZEALAND. Felt (I) on Raoul.
18	00	12	32.1?	7.52	S	117.83	E	231	?	4.2	0.9	8	BALI SEA
18	00	54	16.3*	17.481	S	70.828	W	97	*		1.6	8	NEAR COAST OF PERU
18	01	15	22.0	31.291	N	139.991	E	10	G	4.8	1.1	20	SOUTH OF HONSHU, JAPAN
18	01	21	27.5*	41.939	S	79.941	E	10	G	4.6	1.0	15	MID-INDIAN RIDGE
18	02	14	59.9%	45.371	N	6.815	E	5	G		0.9	5	FRANCE. ML 1.7 (LDG).
18	02	46	56.0*	36.374	N	70.788	E	200	G	3.4	1.0	12	HINDU KUSH REGION, AFGHANISTAN
18	03	04	38.4	3.716	S	122.704	E	10	G	4.4	1.1	26	SULAWESI, INDONESIA
18	03	46	07.4	42.945	N	145.547	E	45	D	4.9	1.0	36	HOKKAIDO, JAPAN REGION. Felt (II JMA) in the Kushiro and Nemuro areas. Felt (II) at Yuzhno-Kurilsk, Kunashir.
18	03	50	04.6*	37.266	N	56.655	E	33	N	4.6	1.1	10	NORTHERN IRAN
18	04	09	27.9?	16.73	S	173.85	W	33	N	4.6	1.3	29	TONGA ISLANDS
18	04	47	54.9*	48.425	N	154.358	E	69	D	4.6	1.0	24	KURIL ISLANDS
18	06	32	01.3	38.075	N	121.196	E	33	N	4.8	1.5	30	NORTHEASTERN CHINA
18	06	41	44.7*	71.057	N	6.675	W	10	G	4.3	1.4	27	JAN MAYEN ISLAND REGION
18	07	37	10.0	28.872	N	88.148	E	33	N	4.6	0.9	24	XIZANG
18	07	57	01.3*	20.936	N	144.795	E	33	N	4.4	1.1	16	MARIANA ISLANDS
18	08	30	10.1%	62.851	N	152.124	W	10				38	CENTRAL ALASKA. <AEIC>. ML 2.5 (AEIC).
18	08	30	41.1%	60.105	N	153.507	W	151				57	SOUTHERN ALASKA. <AEIC>.
18	09	10	33.4	51.164	N	179.544	W	33	N	4.9	0.8	143	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.1 (PMR).
18	09	18	32.2	51.191	N	179.499	W	33	N	5.1 4.9	0.9	209	ANDREANOF ISLANDS, ALEUTIAN IS. Mw 5.6 (HRV). ML 5.2 (PMR). Centroid, Moment Tensor (HRV): Centroid origin time 09:18:36.3; Lat 51.21 N; Lon 179.51 W; Dep 15.0 Fix; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=-2.57, Plg=52, Azm=305; (N) Val=0.10, Plg=10, Azm=48; (P) Val=-2.67, Plg=36, Azm=146; Best double couple: Mo=2.6*10**17 Nm; NP1: Strike=279, Dip=13, Slip=142; NP2: Strike=47, Dip=82, Slip=80.
18	09	22	51.2*	16.024	S	177.736	W	450	G	4.2	0.9	27	FIJI ISLANDS REGION
18	09	40	59.2*	10.570	S	107.403	E	33	N	4.2	1.5	21	SOUTH OF JAWA, INDONESIA
18	10	02	30.17	32.10	S	71.85	W	10	G		0.4	11	NEAR COAST OF CENTRAL CHILE
18	10	31	29.4	25.277	N	140.851	E	197	D	4.6	1.0	75	VOLCANO ISLANDS REGION
18	10	38	31.1%	41.287	S	175.296	E	20	G		0.1	7	NORTH ISLAND, NEW ZEALAND. ML 2.9 (WEL).
18	11	03	39.8*	51.066	N	15.845	E	5	G		0.4	6	POLAND. MG 2.3 (WAR).
18	13	07	28.0%	41.278	S	174.839	E	20	G		0.1	7	COOK STRAIT, NEW ZEALAND. ML 2.8 (WEL).
18	14	31	38.6	49.844	N	86.146	E	33	N	4.9 4.1	0.9	115	KAZAKHSTAN-XINJIANG BORDER REG. Felt (II) at Leninogorsk, Ost-Kamenogorsk and Zyryanovsk, Kazakhstan.
18	14	52	53.8	27.106	N	53.909	E	33	N	4.8 4.1	0.9	110	SOUTHERN IRAN
18	16	34	01.1%	19.306	N	121.209	E	33	N		0.7	8	PHILIPPINE ISLANDS REGION
18	16	44	03.6*	4.592	S	139.138	E	10		4.1	1.1	18	IRIAN JAYA, INDONESIA
18	17	05	32.0*	3.687	S	144.678	E	33	N	4.7	0.8	19	NEAR N COAST OF NEW GUINEA, PNG.
18	17	14	50.7?	34.31	S	70.02	W	130	G		0.3	10	CHILE-ARGENTINA BORDER REGION. MD 3.1 (SAN).
18	18	19	41.3	60.722	S	24.479	W	33	N	5.4 5.1	0.9	95	SOUTH SANDWICH ISLANDS REGION. Mw 5.7 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 18:19:42.9; Lat 61.29 S; Lon 23.83 W; Dep 15.0 Fix; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=-4.72, Plg=8, Azm=331; (N) Val=-1.76, Plg=76, Azm=96; (P) Val=-2.96, Plg=11, Azm=239; Best double couple: Mo=3.8*10**17 Nm; NP1: Strike=15, Dip=76, Slip=-178; NP2: Strike=285, Dip=88, Slip=-14.
18	19	09	16.2%	31.389	S	117.753	E	10	G		0.8	7	WESTERN AUSTRALIA
18	19	35	51.0?	18.91	N	108.88	W	10	G	3.8	1.0	10	REVILLA GIGEDO ISLANDS REGION
18	19	39	41.3?	3.68	S	137.16	E	33	N	3.5	0.6	7	IRIAN JAYA, INDONESIA
18	19	52	31.6?	19.45	S	175.81	W	33	N	4.0	1.5	13	TONGA ISLANDS
18	20	24	46.2*	28.991	N	47.438	E	10	G	4.6	1.2	16	EASTERN ARABIAN PENINSULA
18	20	30	19.4?	15.81	S	174.82	W	250	G	4.5	0.7	14	TONGA ISLANDS
18	20	35	51.5*	19.124	S	69.020	W	138	*		1.0	14	NORTHERN CHILE
18	20	53	43.4*	15.497	S	75.571	W	61	*		0.9	8	NEAR COAST OF PERU
18	21	02	51.3	23.993	S	179.425	W	450	G	4.8	1.0	48	SOUTH OF FIJI ISLANDS
18	21	22	55.8*	33.418	N	136.078	E	430	*		0.8	8	NEAR S. COAST OF WESTERN HONSHU
18	22	50	31.9%	59.900	N	153.535	W	137				47	SOUTHERN ALASKA. <AEIC>.
18	23	03	28.3	13.092	S	167.089	E	204	D	4.9	1.0	134	VANUATU ISLANDS. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 23:03:33.7; Lat 13.00 S; Lon 166.95 E; Dep 211.6; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=-8.19, Plg=62, Azm=147; (N) Val=-2.20, Plg=27, Azm=336;

(P) Val=-5.99, Plg=4, Azm=244; Best double couple:
Mo=7.1*10**16 Nm; NP1: Strike=308, Dip=48, Slip=52; NP2:
Strike=178, Dip=54, Slip=124.

18 23 51 47.0 47.691 N 120.020 W 4 27 WASHINGTON. <SEA-P>. MD 3.3 (SEA).
19 01 14 44.4 14.743 N 55.087 E 10 G 4.7 0.7 20 ARABIAN SEA
19 02 03 09.1 48.007 N 146.912 E 448 D 4.4 0.8 118 SEA OF OKHOTSK
19 02 35 09.0 51.639 N 16.277 E 5 G 0.6 17 POLAND. ML 3.8 (GRF), 3.3 (VIE).
19 04 32 26.0 32.34 S 70.34 W 120 G 0.3 10 CHILE-ARGENTINA BORDER REGION. MD 3.2 (SAN).
19 07 21 22.1 45.920 N 25.796 E 10 G 1.3 8 ROMANIA
19 07 47 03.3 1.124 N 99.072 E 100 G 4.0 0.6 9 NORTHERN SUMATERA, INDONESIA
19 09 09 11.4 42.395 N 84.235 E 33 N 4.4 1.1 12 NORTHERN XINJIANG, CHINA
19 09 15 34.7 15.97 S 172.18 W 33 N 4.2 1.3 20 SAMOA ISLANDS REGION
19 09 48 56.8 11.447 N 61.336 W 10 G 0.2 6 WINDWARD ISLANDS. MD 2.9 (TRN).
19 11 25 41.7 66.159 N 147.550 W 6 17 NORTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).
19 11 37 09.3 55.44 S 146.31 E 10 G 3.9 1.2 7 WEST OF MACQUARIE ISLAND
19 12 00 27.0 40.020 N 21.326 E 10 G 4.9 4.5 1.4 184 GREECE
19 14 25 27.1 43.425 N 3.889 E 10 G 0.6 10 NEAR SOUTH COAST OF FRANCE. ML 2.6 (LDG), 2.4 (STR).
19 15 39 08.6 44.755 N 6.761 E 10 G 1.0 14 FRANCE. ML 2.4 (LDG), 2.0 (STR).
19 16 17 56.7 36.035 N 70.532 E 100 G 4.5 1.1 25 HINDU KUSH REGION, AFGHANISTAN
19 16 30 23.7 5.596 N 125.446 E 85 * 4.3 0.7 15 MINDANAO, PHILIPPINE ISLANDS
19 16 34 54.6 0.120 S 16.609 W 10 G 4.5 1.4 15 NORTH OF ASCENSION ISLAND
19 16 52 35.9 37.05 N 3.73 W 10 G 1.1 4 SPAIN. mbLg 1.9 (MDD).
19 17 52 26.9 23.424 S 66.625 W 221 4.0 1.3 13 JUJUY PROVINCE, ARGENTINA
19 18 40 30.1 10.13 N 86.05 W 33 N 4.3 1.2 12 OFF COAST OF COSTA RICA
19 19 26 11.0 60.145 N 152.784 W 102 76 SOUTHERN ALASKA. <AEIC>.
19 19 56 26.3 12.025 N 144.748 E 33 N 3.9 0.9 10 SOUTH OF MARIANA ISLANDS
19 20 24 01.6 15.987 N 97.240 W 33 N 1.3 6 NEAR COAST OF OAXACA, MEXICO
19 20 37 05.3 27.139 N 53.918 E 33 N 4.2 0.7 18 SOUTHERN IRAN
19 20 48 01.8 19.497 N 144.775 E 33 N 4.0 0.6 11 MARIANA ISLANDS
19 20 49 37.0 19.551 N 144.562 E 33 N 4.3 0.6 18 MARIANA ISLANDS
19 21 23 26.2 44.099 N 6.984 E 5 G 0.5 7 FRANCE. ML 1.5 (LDG).
19 21 37 20.5 43.081 S 171.517 E 10 G 4.0 1.2 18 SOUTH ISLAND, NEW ZEALAND. Felt at Arthur's Pass,
Christchurch and many other parts of Canterbury.
19 22 33 42.1 34.759 N 32.303 E 33 N 4.1 1.3 14 CYPRUS REGION
19 22 34 08.1 44.754 N 6.630 E 5 G 0.5 5 FRANCE. ML 1.4 (LDG).
19 22 37 14.4 34.141 N 116.857 W 10 44 SOUTHERN CALIFORNIA. <PAS-P>. ML 4.1 (PAS), 4.0 (GS). Felt
in the epicentral area.
19 23 14 46.8 14.729 N 54.846 E 10 G 4.7 3.7 1.2 44 ARABIAN SEA
19 23 16 27.1 14.823 N 55.184 E 10 G 1.1 19 ARABIAN SEA
19 23 18 32.2 14.759 N 55.039 E 10 G 1.0 16 ARABIAN SEA
19 23 30 41.9 2.076 N 126.898 E 33 N 4.1 1.0 9 NORTHERN MOLUCCA SEA
20 00 29 22.3 37.523 N 3.746 W 10 G 0.8 5 SPAIN. mbLg 2.4 (MDD).
20 00 52 03.5 33.673 S 71.569 W 40 G 0.3 10 NEAR COAST OF CENTRAL CHILE. MD 3.5 (SAN).
20 01 01 19.4 5.26 S 152.48 E 33 N 3.6 0.9 7 NEW BRITAIN REGION, P.N.G.
20 02 30 23.2 50.485 N 18.971 E 5 G 1.3 15 POLAND. ML 3.3 (VIE), 3.0 (CLL).
20 03 20 41.6 27.14 N 53.96 E 33 N 1.1 7 SOUTHERN IRAN
20 03 59 20.6 2.34 S 128.17 E 33 N 4.3 1.1 11 CERAM SEA
20 04 19 38.7 22.99 S 170.21 E 33 N 4.5 1.2 12 LOYALTY ISLANDS REGION
20 04 30 03.8 24.075 S 66.968 W 200 G 0.8 11 SALTA PROVINCE, ARGENTINA
20 04 39 56.3 51.011 N 130.025 W 10 G 4.7 4.6 1.1 113 QUEEN CHARLOTTE ISLANDS REGION
20 05 55 50.4 37.18 N 90.92 W 5 G 0.9 4 EASTERN MISSOURI. mbLg 3.1 (GS).
20 06 08 02.5 40.961 N 124.480 W 21 12 NEAR COAST OF NORTHERN CALIF. <GM-P>. MD 3.1 (GM). ML 3.3
(BRK). Felt slightly at Arcata and McKinleyville.
20 06 53 15.3 59.878 N 153.514 W 130 72 SOUTHERN ALASKA. <AEIC>.
20 07 10 00.5 50.897 N 130.151 W 10 G 5.1 4.8 1.1 172 VANCOUVER ISLAND REGION. Mw 5.2 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time
07:09:58.9; Lat 50.70 N; Lon 130.75 W; Dep 15.0 Fix; Half-
duration 1.2 sec; Principal axes (scale 10**16 Nm): (T)
Val=9.23, Plg=13, Azm=123; (N) Val=-3.20, Plg=61, Azm=237;
(P) Val=-6.03, Plg=25, Azm=26; Best double couple:
Mo=7.6*10**16 Nm; NP1: Strike=167, Dip=63, Slip=-171; NP2:
Strike=73, Dip=82, Slip=-28.
20 08 21 01.7 7.393 S 128.663 E 172 * 4.4 1.5 28 BANDA SEA
20 08 53 07.3 31.40 S 69.73 W 170 G 0.3 10 SAN JUAN PROVINCE, ARGENTINA. MD 3.7 (SAN).
20 09 06 45.4 0.223 S 125.955 E 33 N 4.6 1.0 23 SOUTHERN MOLUCCA SEA
20 09 09 40.8 0.26 S 126.30 E 33 N 4.3 1.3 13 SOUTHERN MOLUCCA SEA
20 09 20 59.2 33.357 S 70.402 W 95 G 0.3 10 CHILE-ARGENTINA BORDER REGION. MD 2.6 (SAN).
20 09 35 44.0 17.950 S 178.349 W 502 * 4.6 1.2 93 FIJI ISLANDS REGION
20 10 41 48.7 1.375 N 121.732 E 500 * 4.9 1.1 42 MINAHASSA PENINSULA, SULAWESI
20 10 53 38.9 53.949 N 162.948 W 0 11 SOUTH OF ALASKA. <AEIC>. ML 2.9 (AEIC).
20 11 16 18.8 37.602 S 176.783 E 300 G 4.0 0.8 17 NORTH ISLAND, NEW ZEALAND
20 11 20 48.8 43.286 N 126.844 W 10 G 3.3 0.8 20 OFF COAST OF OREGON
20 11 28 06.0 33.959 S 70.784 W 80 G 0.3 9 CHILE-ARGENTINA BORDER REGION. MD 2.6 (SAN).
20 11 49 11.8 36.92 N 68.02 E 33 N 1.4 10 HINDU KUSH REGION, AFGHANISTAN
20 12 26 32.0 30.551 S 72.042 W 39 D 1.0 20 OFF COAST OF CENTRAL CHILE. MD 4.7 (SAN).
20 12 31 54.8 4.488 S 153.259 E 65 * 5.0 0.8 98 NEW IRELAND REGION, P.N.G. Mw 5.0 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time
12:31:57.6; Lat 4.67 S; Lon 153.19 E; Dep 58.5; Half-
duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
Val=4.73, Plg=60, Azm=301; (N) Val=-1.24, Plg=29, Azm=105;
(P) Val=-3.49, Plg=7, Azm=199; Best double couple:
Mo=4.1*10**16 Nm; NP1: Strike=318, Dip=46, Slip=133; NP2:
Strike=85, Dip=58, Slip=55.
20 12 54 34.2 36.416 N 70.513 E 200 G 1.3 11 HINDU KUSH REGION, AFGHANISTAN
20 15 38 17.7 66.222 N 18.510 W 10 G 4.5 3.7 1.4 84 ICELAND REGION
20 15 39 05.2 10.933 S 166.249 E 100 G 4.4 0.8 21 SANTA CRUZ ISLANDS
20 15 51 49.3 66.238 N 18.367 W 10 G 4.6 1.1 112 ICELAND REGION
20 15 52 32.3 21.696 S 68.285 W 132 * 4.1 1.3 21 CHILE-BOLIVIA BORDER REGION
20 16 11 32.1 28.683 S 177.624 W 30 G 6.1 7.0 1.0 359 KERMADEC ISLANDS REGION. Mw 7.0 (HRV), 6.9 (GS). Me 6.5
(GS). Ms 7.1 (BRK).
Broadband Source Parameters (GS): Dep 28; NP1: Strike=180,
Dip=35, Slip=80; NP2: Strike=12, Dip=56, Slip=97; Radiated
energy 1.3*10**14 Nm.

Moment Tensor (GS): Dep 35; Principal axes (scale 10**19 Nm): (T) Val=-2.61, Plg=78, Azm=320; (N) Val=0.32, Plg=11, Azm=166; (P) Val=-2.93, Plg=5, Azm=75; Best double couple: Mo=2.8*10**19 Nm; NP1: Strike=153, Dip=41, Slip=73; NP2: Strike=355, Dip=51, Slip=104.

Centroid, Moment Tensor (HRV): Centroid origin time 16:11:43.0; Lat 28.83 S Fix; Lon 176.99 W Fix; Dep 46.4; Half-duration 7.7 sec; Principal axes (scale 10**19 Nm): (T) Val=3.39, Plg=74, Azm=286; (N) Val=0.16, Plg=0, Azm=195; (P) Val=-3.55, Plg=16, Azm=105; Best double couple: Mo=3.5*10**19 Nm; NP1: Strike=195, Dip=29, Slip=90; NP2: Strike=15, Dip=61, Slip=90.

Scalar Moment (PPT): Mo=4.4*10**19 Nm.

20 16 34 45.8* 28.845 S 177.585 W 74 * 4.3 1.2 19 KERMADEC ISLANDS REGION
 20 17 12 20.1? 32.57 S 71.76 W 10 G 0.6 10 NEAR COAST OF CENTRAL CHILE. MD 3.3 (SAN).
 20 17 22 27.3* 51.955 N 172.046 E 33 N 4.4 1.3 14 NEAR ISLANDS, ALEUTIAN ISLANDS
 20 17 25 56.3? 28.76 S 177.66 W 33 N 4.0 0.4 8 KERMADEC ISLANDS REGION
 20 17 31 47.9? 28.57 S 177.57 W 33 N 0.8 7 KERMADEC ISLANDS REGION
 20 18 11 01.3 28.895 S 177.654 W 74 5.6 1.0 191 KERMADEC ISLANDS REGION. Felt (III) on Raoul.
 20 18 12 23.1* 23.766 S 66.912 W 205 * 1.0 8 JUJUY PROVINCE, ARGENTINA
 20 18 29 12.7? 28.45 S 177.71 W 33 N 3.5 1.4 10 KERMADEC ISLANDS REGION. Felt (II) on Raoul.
 20 18 44 15.6 51.486 N 16.183 E 5 G 0.4 12 POLAND. ML 3.7 (GRF), 3.7 (VIE).
 20 19 05 12.4? 11.052 N 60.708 W 10 G 0.7 5 WINDWARD ISLANDS. MD 2.7 (TRN).
 20 19 50 25.3? 34.26 S 70.25 W 125 G 0.2 9 CHILE-ARGENTINA BORDER REGION
 20 20 26 15.7 34.352 N 140.968 E 41 * 4.8 0.9 66 NEAR EAST COAST OF HONSHU, JAPAN
 20 20 27 39.9? 60.291 N 153.696 W 190 82 SOUTHERN ALASKA. <AEIC>.
 20 20 35 09.2? 40.24 N 77.47 E 33 N 3.6 1.1 8 KYRGYZSTAN-XINJIANG BORDER REG.
 20 21 27 44.0* 1.815 N 95.073 E 33 N 1.4 9 OFF W COAST OF NORTHERN SUMATERA
 20 22 14 13.3* 16.376 S 177.579 W 33 N 4.9 5.0 1.2 96 FIJI ISLANDS REGION. Mw 5.6 (HRV).
 Centroid, Moment Tensor (HRV): Centroid origin time 22:14:16.5; Lat 16.33 S; Lon 177.33 W; Dep 19.4; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=2.70, Plg=14, Azm=281; (N) Val=-0.36, Plg=5, Azm=86; (P) Val=-2.34, Plg=4, Azm=190; Best double couple: Mo=2.5*10**17 Nm; NP1: Strike=325, Dip=77, Slip=173; NP2: Strike=56, Dip=83, Slip=13.
 20 22 48 17.6? 36.85 N 6.63 W 10 G 1.1 4 STRAIT OF GIBRALTAR. mblg 2.9 (MDD).
 20 23 12 41.9* 37.054 S 72.391 W 100 G 0.8 15 CENTRAL CHILE. MD 4.3 (SAN). Felt (III) at Concepcion and Chillan; (II) at Angol, Coronel and Los Angeles.
 20 23 35 03.2* 24.234 S 67.056 W 194 * 0.8 10 CHILE-ARGENTINA BORDER REGION
 20 23 37 23.7? 33.713 S 70.410 W 10 G 0.6 9 CHILE-ARGENTINA BORDER REGION. MD 3.1 (SAN).
 21 00 10 54.9 10.069 S 120.475 E 44 * 4.3 1.4 39 SUMBA REGION, INDONESIA
 21 01 26 25.9? 30.17 S 176.45 W 33 N 3.6 0.6 5 KERMADEC ISLANDS REGION
 21 02 02 23.0* 40.539 S 86.196 W 10 G 0.6 9 WEST CHILE RISE
 21 02 10 33.2* 38.649 N 98.285 E 10 G 4.2 1.1 10 QINGHAI, CHINA
 21 02 21 23.2? 64.146 N 146.807 W 13 16 CENTRAL ALASKA. <AEIC>. ML 2.5 (AEIC).
 21 03 24 44.6 4.404 S 128.798 E 181 * 4.8 1.0 36 BANDA SEA
 21 03 28 50.2? 31.51 N 72.06 E 33 N 4.1 1.3 7 PAKISTAN
 21 04 05 19.2? 35.589 N 118.357 W 2 27 CENTRAL CALIFORNIA. <PAS-P>. ML 2.9 (PAS), 2.8 (GS). MD 2.9 (GM).
 21 05 25 55.3 44.813 N 148.424 E 101 * 4.3 1.0 50 KURIL ISLANDS
 21 05 27 09.4* 19.174 N 145.754 E 150 G 3.9 1.0 12 MARIANA ISLANDS
 21 05 36 06.3* 4.439 S 153.494 E 100 G 4.2 0.9 12 NEW IRELAND REGION, P.N.G.
 21 05 37 14.6? 6.97 S 150.76 E 33 N 1.1 6 NEW BRITAIN REGION, P.N.G.
 21 06 04 51.9? 48.535 N 1.989 W 10 G 0.5 6 FRANCE. ML 1.9 (LDG).
 21 06 27 33.8 43.702 N 6.668 E 10 G 0.7 24 NEAR SOUTH COAST OF FRANCE. ML 2.3 (LDG), 2.1 (STR).
 21 07 36 45.5? 33.776 S 70.695 W 80 G 0.2 10 CHILE-ARGENTINA BORDER REGION. MD 2.9 (SAN).
 21 07 40 39.9? 15.42 S 178.23 W 33 N 4.1 0.6 7 FIJI ISLANDS REGION
 21 07 45 36.4 52.747 N 159.417 E 67 D 4.4 0.7 58 OFF EAST COAST OF KAMCHATKA
 21 07 52 10.1? 34.261 S 70.600 W 100 G 0.2 11 CHILE-ARGENTINA BORDER REGION. MD 3.3 (SAN).
 21 07 54 46.1* 11.147 N 60.736 W 23 1.0 8 WINDWARD ISLANDS. MD 3.2 (TRN).
 21 08 24 20.2* 42.740 N 74.525 E 33 N 4.4 1.4 13 KYRGYZSTAN. Felt (IV) at Yuryevka and (III) at Bishkek.
 21 08 37 27.2? 26.94 N 53.98 E 33 N 0.7 7 SOUTHERN IRAN
 21 08 38 48.5? 6.57 S 130.43 E 33 N 4.1 0.9 4 BANDA SEA
 21 09 15 28.1? 2.01 S 120.98 E 33 N 1.3 6 SULAWESI, INDONESIA
 21 09 22 28.1* 17.931 S 178.262 W 450 G 3.5 0.8 16 FIJI ISLANDS REGION
 21 09 37 22.7* 3.335 S 130.525 E 21 D 4.6 1.3 23 SERAM, INDONESIA
 21 10 01 21.4? 2.39 N 98.98 E 33 N 0.1 4 NORTHERN SUMATERA, INDONESIA
 21 10 23 56.0 45.488 N 0.669 E 10 G 1.4 11 FRANCE. ML 2.6 (LDG).
 21 10 27 31.4* 45.488 N 0.459 E 10 G 0.7 7 FRANCE. ML 2.7 (STR), 2.1 (LDG).
 21 10 31 22.7? 17.812 N 67.703 W 33 N 0.3 9 MONA PASSAGE. MD 3.4 (MPR).
 21 11 14 32.6* 55.755 N 160.858 E 124 D 4.1 1.0 29 KAMCHATKA
 21 11 16 40.8* 32.778 N 132.277 E 33 N 0.8 6 SHIKOKU, JAPAN
 21 11 52 45.1? 63.258 N 151.072 W 22 18 CENTRAL ALASKA. <AEIC>. ML 2.5 (AEIC).
 21 12 17 26.7 11.152 S 163.084 E 33 N 5.1 5.3 1.2 57 SOLOMON ISLANDS. Mw 5.6 (HRV).
 Centroid, Moment Tensor (HRV): Centroid origin time 12:17:29.6; Lat 11.22 S; Lon 163.17 E; Dep 23.7; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=2.45, Plg=5, Azm=313; (N) Val=0.30, Plg=68, Azm=56; (P) Val=-2.74, Plg=22, Azm=221; Best double couple: Mo=2.6*10**17 Nm; NP1: Strike=359, Dip=71, Slip=-168; NP2: Strike=265, Dip=79, Slip=-19.
 21 12 18 02.5 5.297 S 145.587 E 111 * 4.8 0.9 47 EASTERN NEW GUINEA REG., P.N.G.
 21 12 35 00.1 41.172 N 1.947 W 10 G 1.1 11 SPAIN. mblg 2.8 (MDD). ML 2.6 (LDG).
 21 12 36 26.6 41.605 N 126.237 W 10 G 4.8 4.7 1.1 94 OFF COAST OF NORTHERN CALIFORNIA. Mw 5.4 (HRV), 5.2 (BRK). ML 4.9 (BRK).
 Centroid, Moment Tensor (HRV): Centroid origin time 12:36:30.6; Lat 41.56 N; Lon 126.20 W; Dep 15.0 Fix; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.57, Plg=32, Azm=284; (N) Val=-0.38, Plg=55, Azm=78; (P) Val=-1.18, Plg=12, Azm=186; Best double couple: Mo=1.4*10**17 Nm; NP1: Strike=320, Dip=58, Slip=164; NP2: Strike=59, Dip=77, Slip=33.

Moment Tensor (BRK): Dep 24; Principal axes (scale 10**16 Nm): (T) Val=9.48, Plg=21, Azm=93; (N) Val=0.00, Plg=69, Azm=276; (P) Val=-9.48, Plg=1, Azm=183; Best double couple: Mo=6.7*10**16 Nm; NP1: Strike=136, Dip=76, Slip=164; NP2: Strike=230, Dip=74, Slip=15.

21	13	15	45.4?	7.49	S	106.71	E	33	N	0.1	4	JAWA, INDONESIA
21	13	18	34.0	20.873	N	98.491	E	33	N	4.2	0.8	14 MYANMAR
21	13	26	07.8	4.482	S	153.546	E	121	D	4.6	0.8	28 NEW IRELAND REGION, P.N.G.
21	13	35	42.2*	17.842	N	101.842	W	33	N		0.9	9 NEAR COAST OF GUERRERO, MEXICO
21	14	23	07.9?	48.61	N	156.35	E	48	D		0.8	6 EAST OF KURIL ISLANDS
21	14	33	45.6?	30.24	S	68.45	W	190	G		0.5	11 SAN JUAN PROVINCE, ARGENTINA. MD 3.6 (SAN).
21	15	21	35.8?	31.66	N	78.37	E	33	N		0.5	6 XIZANG-INDIA BORDER REGION
21	15	24	10.2*	38.437	N	143.404	E	34	D	4.3	1.3	20 OFF EAST COAST OF HONSHU, JAPAN
21	15	31	03.8*	31.859	N	78.611	E	33	N		0.9	5 XIZANG-INDIA BORDER REGION
21	16	14	25.56	37.651	N	118.844	W	7				8 CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.2 (GM). ML 3.0 (GS). Double event.
21	16	25	25.3*	36.714	N	27.139	E	33	N	3.9	3.1	26 DODECANESE ISLANDS
21	17	14	15.9?	31.70	S	70.19	W	150	G		0.3	10 CHILE-ARGENTINA BORDER REGION. MD 2.8 (SAN).
21	17	27	20.7?	7.86	S	131.32	E	33	N	4.0	0.6	6 TANIMBAR ISLANDS REG., INDONESIA
21	18	13	22.7	7.360	S	30.370	E	10	G	5.7	6.2	196 LAKE TANGANYIKA REGION. Mw 5.9 (GS), 5.9 (HRV). Me 5.6 (GS). Broadband Source Parameters (GS): Dep 24; NP1: Strike=185, Dip=65, Slip=-45; NP2: Strike=298, Dip=50, Slip=-147; Radiated energy 4.8*10**12 Nm.
												Moment Tensor (GS): Dep 22; Principal axes (scale 10**17 Nm): (T) Val=7.10, Plg=24, Azm=255; (N) Val=-0.15, Plg=13, Azm=351; (P) Val=-6.94, Plg=62, Azm=107; Best double couple: Mo=7.0*10**17 Nm; NP1: Strike=320, Dip=24, Slip=-124; NP2: Strike=176, Dip=70, Slip=-76.
												Centroid, Moment Tensor (HRV): Centroid origin time 18:13:32.5; Lat 7.29 S; Lon 30.27 E; Dep 30.0 Bdy; Half-duration 2.2 sec; Principal axes (scale 10**17 Nm): (T) Val=8.42, Plg=15, Azm=255; (N) Val=-0.30, Plg=24, Azm=352; (P) Val=-8.11, Plg=61, Azm=135; Best double couple: Mo=8.3*10**17 Nm; NP1: Strike=315, Dip=36, Slip=-133; NP2: Strike=184, Dip=64, Slip=-64.
21	18	39	43.8	7.070	S	128.231	E	211	*	4.7	0.9	33 BANDA SEA
21	18	50	12.9	7.264	N	126.792	E	67	*	4.6	0.9	30 MINDANAO, PHILIPPINE ISLANDS
21	19	18	18.6*	19.589	N	109.146	W	33	N	4.5	1.1	44 REVILLA GIGEDO ISLANDS REGION
21	19	49	54.7?	25.35	S	173.04	W	33	N	4.3	0.5	9 SOUTH OF TONGA ISLANDS
21	20	10	36.7	18.818	S	168.423	E	33	N	4.5	4.9	59 VANUATU ISLANDS
21	20	25	31.8?	20.89	S	174.09	E	33	N		1.1	8 VANUATU ISLANDS REGION
21	20	45	34.86	62.489	N	151.458	W	91				17 CENTRAL ALASKA. <AEIC>.
21	20	49	31.46	37.650	N	118.844	W	6				9 CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.9 (GM). ML 2.8 (GS).
21	20	50	30.06	37.645	N	118.848	W	7				9 CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.0 (GM). ML 3.0 (GS).
21	20	55	01.5	23.973	S	179.807	W	500	G	4.8	1.1	70 SOUTH OF FIJI ISLANDS
21	21	31	10.7?	50.09	N	18.54	E	5	G		0.5	5 POLAND. ML 2.7 (VIE).
21	21	52	52.2?	10.32	N	85.97	W	33	N	3.4	1.3	13 COSTA RICA
21	22	03	04.9	51.992	N	170.566	W	33	N	5.2	4.7	260 FOX ISLANDS, ALEUTIAN ISLANDS. Mw 5.2 (HRV). ML 5.4 (PMR). Centroid, Moment Tensor (HRV): Centroid origin time 22:03:06.0; Lat 51.95 N; Lon 170.32 W; Dep 31.5; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=8.33, Plg=67, Azm=319; (N) Val=0.19, Plg=4, Azm=59; (P) Val=-8.51, Plg=22, Azm=151; Best double couple: Mo=8.4*10**16 Nm; NP1: Strike=250, Dip=23, Slip=101; NP2: Strike=57, Dip=67, Slip=85.
21	22	08	32.4*	28.919	S	177.663	W	150	G	4.1	1.1	20 KERMADEC ISLANDS REGION
21	22	48	06.1*	7.332	S	30.345	E	10	G	4.6	0.6	10 LAKE TANGANYIKA REGION
21	23	03	40.16	63.101	N	150.328	W	104				19 CENTRAL ALASKA. <AEIC>.
21	23	28	27.7*	16.902	N	99.732	W	33	N		1.3	6 NEAR COAST OF GUERRERO, MEXICO
21	23	39	34.3	22.330	S	179.965	E	600	G	4.6	0.8	79 SOUTH OF FIJI ISLANDS
22	00	03	27.8*	10.010	S	113.603	E	33	N	3.1	0.6	7 SOUTH OF JAWA, INDONESIA
22	00	24	35.7*	37.221	N	3.761	W	5	G		0.5	6 SPAIN. mbLg 2.2 (MDD).
22	00	42	04.76	59.561	N	152.985	W	102				79 SOUTHERN ALASKA. <AEIC>.
22	01	23	32.5*	45.950	N	3.108	E	5	G		0.9	8 FRANCE. ML 1.7 (LDG).
22	01	56	58.4	43.672	N	147.390	E	33	N	4.8	4.1	109 KURIL ISLANDS. Felt (III) at Yuzhno-Kurilsk.
22	02	41	33.9?	13.76	N	144.54	E	129	*	3.8	0.6	8 MARIANA ISLANDS
22	03	19	18.2*	51.281	N	15.895	E	5	G		0.4	5 POLAND. ML 3.1 (VIE).
22	03	33	05.1	8.231	S	119.364	E	33	N	4.5	1.3	36 FLORES REGION, INDONESIA
22	06	20	45.4	42.280	N	1.419	E	10	G		1.1	23 PYRENEES. ML 3.5 (STR), 3.3 (LDG). mbLg 3.0 (MDD).
22	06	29	20.96	60.081	N	152.955	W	110				50 SOUTHERN ALASKA. <AEIC>.
22	06	38	11.8?	3.97	S	129.01	E	109	?	4.2	0.5	8 SERAM, INDONESIA
22	06	41	54.5	46.095	N	151.896	E	49	D	5.0	4.2	128 KURIL ISLANDS
22	07	23	23.4	7.197	S	120.342	E	600	G	4.9	1.1	47 FLORES SEA
22	07	34	35.0*	0.050	N	16.625	W	10	G	4.8	1.1	15 NORTH OF ASCENSION ISLAND
22	07	39	38.9	52.080	N	30.019	W	10	G	4.5	1.1	60 NORTHERN MID-ATLANTIC RIDGE
22	08	24	55.96	63.320	N	144.233	W	0				43 CENTRAL ALASKA. <AEIC>. ML 2.8 (AEIC).
22	08	43	43.1*	18.210	N	66.685	W	10	G		0.7	6 PUERTO RICO REGION. MD 2.3 (MPR).
22	08	59	14.5	10.324	N	62.354	W	33	N	4.4	1.4	45 NEAR COAST OF VENEZUELA. MD 4.3 (TRN).
22	09	15	12.6*	48.142	N	155.062	E	33	N	4.1	1.1	9 KURIL ISLANDS
22	09	45	24.8*	24.377	S	179.225	W	600	G	4.3	0.8	19 SOUTH OF FIJI ISLANDS
22	09	54	37.4	17.995	N	95.438	W	33	N	3.5	1.3	13 OAXACA, MEXICO
22	09	56	00.4*	21.993	S	70.082	W	75	*		1.1	10 NEAR COAST OF NORTHERN CHILE
22	10	04	09.9*	46.193	N	13.898	E	10	G		1.2	6 AUSTRIA. ML 2.3 (VIE), 2.1 (LJU).
22	10	20	53.7?	51.16	N	176.68	W	33	N		1.3	7 ANDREANOF ISLANDS, ALEUTIAN IS.
22	12	05	06.3?	14.31	N	93.04	W	33	N	4.3	1.0	19 NEAR COAST OF CHIAPAS, MEXICO
22	12	06	28.4	14.438	N	93.075	W	33	N	4.9	5.1	86 NEAR COAST OF CHIAPAS, MEXICO. Mw 5.6 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 12:06:29.3; Lat 14.29 N; Lon 93.46 W; Dep 28.0; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.31, Plg=65, Azm=28; (N) Val=0.22, Plg=0, Azm=297; (P) Val=-2.53, Plg=25, Azm=207; Best double couple:

Mo=2.4*10**17 Nm; NP1: Strike=296, Dip=20, Slip=89; NP2: Strike=117, Dip=70, Slip=91.

22	12	09	08.4?	36.76	N	71.11	E	300	G	3.6	1.0	8	AFGHANISTAN-TAJIKISTAN BORD REG.
22	13	20	29.5	14.376	N	92.971	W	33	N	4.8	4.6	0.9	70
22	14	31	08.4*	17.810	S	178.488	W	500	G	4.1	0.8	14	NEAR COAST OF CHIAPAS, MEXICO
22	15	11	18.0*	25.551	S	178.594	W	350	G	4.2	1.2	22	FIJI ISLANDS REGION
22	16	28	50.3	14.526	N	93.054	W	33	N	4.8	4.4	1.1	45
22	16	28	50.3	14.526	N	93.054	W	33	N	4.8	4.4	1.1	45
22	16	37	04.6*	58.441	N	155.276	W	127				60	NEAR COAST OF CHIAPAS, MEXICO
22	17	46	35.4*	60.026	N	153.596	W	113				67	ALASKA PENINSULA. <AEIC>.
22	18	23	09.9?	45.42	N	26.39	E	150	G		1.3	6	SOUTHERN ALASKA. <AEIC>.
22	18	46	42.0*	61.917	N	151.899	W	115				83	ROMANIA
22	19	52	51.4*	62.240	N	149.332	W	52				52	SOUTHERN ALASKA. <AEIC>.
22	21	12	56.1*	57.285	N	154.026	W	25				17	CENTRAL ALASKA. <AEIC>. ML 2.9 (AEIC), 3.1 (PMR).
22	21	53	56.9?	31.06	S	178.60	W	300	G	4.0	0.9	13	KODIAK ISLAND REGION. <AEIC>. ML 3.0 (AEIC).
22	22	18	16.4	56.527	N	156.134	W	10	G		0.9	26	KERMADEC ISLANDS REGION
22	22	30	19.6*	44.439	N	7.157	E	5	G		0.5	7	ALASKA PENINSULA. ML 3.9 (PMR), 3.7 (AEIC).
23	00	10	49.8*	23.644	S	178.851	E	600	G	4.0	0.6	16	NORTHERN ITALY. ML 1.6 (LDG).
23	00	47	16.7*	19.657	N	91.765	W	10	G	4.1	1.4	14	SOUTH OF FIJI ISLANDS
23	01	46	17.2*	35.828	N	56.869	E	33	N	4.1	1.1	9	BAY OF CAMPECHE
23	02	17	28.3	48.282	N	8.205	E	10	G		1.0	11	NORTHERN IRAN
23	02	22	03.9*	44.996	N	6.771	E	5	G		0.6	10	GERMANY. ML 2.2 (LDG), 2.0 (STR).
23	02	30	52.3*	39.923	N	141.988	E	86	?	4.0	0.7	12	FRANCE. ML 2.1 (LDG).
23	02	45	01.7*	16.500	S	172.372	W	33	N	4.6	0.9	11	EASTERN HONSHU, JAPAN
23	03	06	14.7	35.738	N	56.972	E	33	N	4.5	3.9	1.0	56
23	03	25	46.5?	21.42	S	178.22	W	500	G	4.0	1.0	16	SAMOA ISLANDS REGION
23	04	16	24.6*	48.595	S	8.660	W	10	G		0.5	6	NORTHERN IRAN
23	04	55	45.7?	32.82	S	71.89	W	40	G		0.4	10	FIJI ISLANDS REGION
23	05	22	16.1*	48.526	N	1.968	W	5	G		0.2	6	SOUTHERN MID-ATLANTIC RIDGE
23	05	25	11.3*	3.589	S	145.679	E	33	N	4.7	1.2	20	NEAR COAST OF CENTRAL CHILE. MD 3.4 (SAN).
23	05	46	22.1?	32.36	S	71.83	W	10	G		0.6	10	FRANCE. ML 2.1 (LDG).
23	06	19	17.1*	19.058	S	177.908	W	550	G	4.8	0.9	42	NEAR N COAST OF NEW GUINEA, PNG.
23	06	49	11.3?	34.96	S	71.11	W	100	G		0.1	11	NEAR COAST OF CENTRAL CHILE. MD 3.7 (SAN).
23	07	30	27.5	51.855	N	175.326	W	56		4.9	0.8	152	FIJI ISLANDS REGION
23	07	54	47.5	24.196	S	177.196	W	140	D	4.9	1.0	58	NEAR COAST OF CENTRAL CHILE. MD 3.5 (SAN).
23	08	14	01.8*	59.681	N	152.106	W	60			1.0	23	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.8 (PMR).
23	08	22	15.4*	5.139	S	145.821	E	33	N	4.5	1.0	17	SOUTH OF FIJI ISLANDS
23	08	37	04.0*	48.026	N	156.664	E	33	N		0.6	7	SOUTHERN ALASKA. <AEIC>. ML 3.0 (AEIC), 3.4 (PMR).
23	10	37	31.3	8.111	S	150.051	E	33	N	4.8	0.8	45	EASTERN NEW GUINEA REG., P.N.G.
23	11	55	58.5*	14.992	S	173.809	W	33	N	4.4	1.1	14	EAST OF KURIL ISLANDS
23	12	16	40.0	47.209	N	0.978	E	10	G		1.2	13	EASTERN NEW GUINEA REG., P.N.G.
23	12	40	24.1*	37.077	N	3.699	W	10	G		1.0	16	SAMOA ISLANDS REGION
23	13	40	22.0*	7.332	S	128.958	E	149	?	4.1	1.5	17	FRANCE. ML 3.0 (STR), 2.5 (LDG).
23	14	21	09.4?	32.15	S	71.86	W	20	G		0.7	9	SPAIN. mbLg 3.1 (MDD). Felt (II) in the Alhendin area.
23	14	46	05.4*	15.971	N	96.996	W	33	N		1.7	5	BANDA SEA
23	15	05	59.1*	40.926	N	72.700	E	33	N		0.8	10	NEAR COAST OF CENTRAL CHILE. MD 3.4 (SAN).
23	15	08	55.2*	61.698	N	149.632	W	38				17	NEAR COAST OF OAXACA, MEXICO
23	15	19	05.8*	57.705	N	154.380	W	49				17	KYRGYZSTAN
23	15	21	17.6*	41.171	N	141.718	E	33	N		1.3	9	SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).
23	15	21	55.0*	20.185	N	145.399	E	100	G	4.2	0.7	15	KODIAK ISLAND REGION. <AEIC>. ML 2.9 (AEIC), 3.5 (PMR).
23	15	35	59.6	5.481	N	77.795	W	33	N	4.6	0.9	49	HOKKAIDO, JAPAN REGION
23	16	26	14.2	5.436	N	77.811	W	33	N	4.8	3.8	0.8	80
23	16	26	44.7*	48.851	S	164.011	E	10	G	4.8	1.2	30	MARIANA ISLANDS
23	16	32	48.4	45.104	N	5.639	E	10	G		1.3	42	NEAR WEST COAST OF COLOMBIA
23	16	48	45.8	4.767	N	126.433	E	100	G	4.5	1.1	33	NEAR WEST COAST OF COLOMBIA
23	16	53	06.3	4.062	N	95.014	E	33	N	4.7	0.7	27	OFF W. COAST OF S. ISLAND, N.Z.
23	17	41	55.7	2.809	S	140.834	E	33	N	4.3	1.1	28	FRANCE. ML 3.2 (LDG), 2.8 (STR).
23	17	51	23.4*	65.526	S	178.813	E	10	G	5.0	5.9	1.1	38
23	20	00	10.0*	26.077	S	179.672	E	500	G	4.3	1.0	31	TALAUD ISLANDS, INDONESIA
23	20	06	58.6*	44.693	N	7.260	E	10	G		0.7	9	NORTHERN SUMATERA, INDONESIA
23	20	15	40.2*	61.636	N	151.071	W	78				9	SOUTH INDIAN OCEAN
23	20	37	54.3	1.252	N	100.356	E	229	D	4.8	0.8	133	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.4 (PMR).
23	20	43	16.6?	28.60	S	84.68	E	10	G	4.7	0.4	6	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.4 (PMR).
23	20	44	25.4	51.864	N	173.586	W	33	N	4.3	1.0	43	ANDREANOF ISLANDS, ALEUTIAN IS. Felt slightly at Atka.
23	20	44	54.7	51.578	N	173.503	W	33	N	4.9	4.2	1.0	87
23	22	02	35.0*	35.464	N	139.073	E	33	N	3.4	0.9	12	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) in western Chiba, northern Kanagawa and southern Saitama Prefectures.
23	22	22	48.3*	55.606	S	26.846	W	33	N	4.6	0.9	16	SOUTH SANDWICH ISLANDS REGION
23	22	25	27.9*	55.644	S	26.799	W	33	N	3.9	0.6	7	SOUTH SANDWICH ISLANDS REGION
23	22	40	30.5*	59.126	N	152.309	W	70				23	SOUTHERN ALASKA. <AEIC>. ML 3.2 (AEIC), 3.3 (PMR).
23	23	20	48.6*	62.110	N	26.493	W	10	G	4.4	1.0	10	ICELAND REGION
24	00	09	06.7*	18.260	N	66.705	W	10	G		1.0	7	PUERTO RICO REGION. MD 2.2 (MPR).
24	00	15	05.8	34.618	N	23.423	E	33	N	4.1	1.3	41	CRETE
24	00	40	33.8?	48.88	S	124.40	E	10	G		0.7	6	SOUTH OF AUSTRALIA
24	00	59	48.4*	45.812	N	7.596	E	10	G		0.1	5	NORTHERN ITALY. ML 2.1 (LDG).
24	01	40	19.4	51.678	N	16.213	E	5	G		0.5	9	POLAND. ML 3.0 (VIE).
24	01	58	04.6?	17.90	S	178.62	W	600	G	4.5	1.2	19	FIJI ISLANDS REGION
24	02	18	56.0*	18.193	N	66.713	W	20	G		1.0	8	PUERTO RICO REGION. MD 2.9 (MPR).
24	02	32	19.4*	56.204	N	162.733	E	33	N	4.4	1.1	30	NEAR EAST COAST OF KAMCHATKA. Felt (III) at Ust-Kamchatsk.
24	03	27	37.8*	18.817	S	178.074	W	450	G	4.3	0.9	20	FIJI ISLANDS REGION
24	04	20	24.8*	36.545	N	89.817	W	5	G		0.2	5	NEW MADRID, MISSOURI REGION. mbLg 3.2 (GS).
24	04	41	33.7*	37.967	N	122.337	W	6				16	CENTRAL CALIFORNIA. <GM-P>. MD 2.5 (GM). ML 2.6 (BRK). Felt at El Cerrito, El Sobrante and Richmond.
24	04	45	56.3*	63.304	N	144.180	W	0				34	CENTRAL ALASKA. <AEIC>. ML 2.8 (AEIC).
24	05	27	56.6?	51.21	N	178.51	E	33	N		1.4	6	RAT ISLANDS, ALEUTIAN ISLANDS
24	05	33	43.8*	61.746	N	151.862	W	107				67	SOUTHERN ALASKA. <AEIC>.

24	05	55	32.76	63.317 N	144.226 W		0			57	CENTRAL ALASKA. <AEIC>. ML 3.3 (AEIC).
24	06	02	42.4*	6.836 S	108.496 E	214 *		0.5		9	JAWA, INDONESIA
24	06	10	22.06	48.623 N	123.115 W		8			20	VANCOUVER ISLAND REGION. <PGC-P>. ML 3.0 (PGC). MD 3.5 (SEA).
24	06	41	30.8*	62.091 N	26.264 W	10 G	4.5	1.2		20	ICELAND REGION
24	06	52	09.96	63.314 N	144.186 W		0			18	CENTRAL ALASKA. <AEIC>. ML 2.5 (AEIC).
24	07	00	55.7*	3.449 S	138.539 E	33 N	3.8	1.1		8	IRIAN JAYA, INDONESIA
24	07	34	12.3?	20.64 S	176.80 W	350 G	4.0	1.0		19	FIJI ISLANDS REGION
24	07	52	44.8	44.117 N	7.027 E	10 G		0.8		23	NORTHERN ITALY. ML 2.5 (LDG), 2.3 (STR).
24	08	14	00.66	63.318 N	144.229 W		1			30	CENTRAL ALASKA. <AEIC>. ML 2.7 (AEIC), 3.3 (PMR).
24	09	14	50.7	19.357 S	177.806 W	386 D	4.6	1.2		79	FIJI ISLANDS REGION
24	09	24	24.7?	33.05 S	71.96 W	20 G		0.6		9	NEAR COAST OF CENTRAL CHILE
24	10	07	36.2*	34.777 N	24.917 E	33 N	4.0	1.3		12	CRETE
24	10	48	26.9*	12.201 N	125.230 E	23 D	4.7	1.0		16	SAMAR, PHILIPPINE ISLANDS
24	10	53	56.1	6.934 S	155.736 E	75	4.9	0.9		71	SOLOMON ISLANDS. Mw 5.1 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 10:53:53.3; Lat 7.45 S; Lon 156.19 E; Dep 66.5; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.42, Plg=52, Azm=312; (N) Val=0.91, Plg=33, Azm=97; (P) Val=-6.33, Plg=17, Azm=198; Best double couple: Mo=5.9*10**16 Nm; NP1: Strike=327, Dip=40, Slip=147; NP2: Strike=83, Dip=70, Slip=55.											
24	10	58	33.4*	61.979 N	26.765 W	10 G	4.4 4.2	1.3		21	ICELAND REGION
24	11	10	50.0%	37.276 N	-3.010 W	10 G		0.2		7	SPAIN. mbLg 2.3 (MDD).
24	11	52	00.6*	8.527 N	126.737 E	33 N	4.6	0.8		21	MINDANAO, PHILIPPINE ISLANDS
24	11	59	49.7*	61.930 N	26.614 W	10 G	4.3	1.3		15	ICELAND REGION
24	12	31	23.4?	62.36 N	27.83 W	10 G	4.1	1.5		6	ICELAND REGION
24	13	40	14.1?	15.26 S	66.75 E	10 G		0.5		5	MID-INDIAN RIDGE
24	14	05	28.1%	44.898 N	6.681 E	5 G		0.9		6	FRANCE. ML 1.9 (LDG)..
24	14	25	57.1?	9.79 S	163.89 E	33 N	3.3	1.3		6	SOLOMON ISLANDS
24	15	10	58.0*	36.612 N	27.251 E	10 G	3.9	1.2		17	DODECANESE ISLANDS
24	15	16	28.3	21.024 S	174.273 W	33 N	4.9 4.7	1.1		70	TONGA ISLANDS. Mw 5.1 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 15:16:31.8; Lat 21.00 S; Lon 173.70 W; Dep 39.2; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.41, Plg=72, Azm=307; (N) Val=2.26, Plg=6, Azm=199; (P) Val=-6.67, Plg=17, Azm=107; Best double couple: Mo=5.5*10**16 Nm; NP1: Strike=187, Dip=29, Slip=77; NP2: Strike=22, Dip=62, Slip=97.											
24	16	54	37.6*	31.917 N	49.429 E	33 N		1.2		12	WESTERN IRAN
24	16	56	14.7	9.485 S	110.717 E	33 N	4.1	1.2		11	SOUTH OF JAVA, INDONESIA
24	16	58	33.3	51.679 N	173.442 W	33 N	4.4	0.8		32	ANDREANOF ISLANDS, ALEUTIAN IS.
24	17	57	49.1?	57.31 S	25.44 W	33 N	4.2	1.1		8	SOUTH SANDWICH ISLANDS REGION
24	18	21	47.2*	15.463 S	175.141 W	33 N	4.5 4.9	1.3		28	TONGA ISLANDS. Mw 5.2 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 18:21:51.4; Lat 15.34 S; Lon 174.99 W; Dep 15.0 Fix; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.74, Plg=28, Azm=138; (N) Val=0.54, Plg=50, Azm=7; (P) Val=-7.28, Plg=25, Azm=243; Best double couple: Mo=7.0*10**16 Nm; NP1: Strike=281, Dip=50, Slip=3; NP2: Strike=189, Dip=88, Slip=140.											
24	19	17	26.6?	51.35 N	16.00 E	5 G					

25	10	59	33.9*	52.356	N	170.798	W	33	N	4.0	1.0	14	FOX ISLANDS, ALEUTIAN ISLANDS
25	11	13	51.6	36.182	N	26.504	E	161		4.5	1.1	105	DODECANESE ISLANDS
25	12	00	13.7?	33.08	S	71.94	W	20	G		0.5	9	NEAR COAST OF CENTRAL CHILE. MD 3.4 (SAN).
25	12	28	07.5?	32.56	S	69.95	W	120	G		0.2	8	MENDOZA PROVINCE, ARGENTINA. MD 3.2 (SAN).
25	12	38	00.0%	58.176	N	154.185	W	66				17	ALASKA PENINSULA. <AEIC>. ML 2.7 (AEIC).
25	14	06	17.2%	45.824	N	5.321	E	10	G		0.8	7	FRANCE. ML 2.2 (LDG).
25	14	20	48.9	13.761	S	66.248	E	10	G	5.3 5.7	1.3	190	MID-INDIAN RIDGE. Mw 6.0 (GS), 6.0 (HRV). Moment Tensor (GS): Dep 18; Principal axes (scale 10**18 Nm): (T) Val=-1.12, Plg=4, Azm=274; (N) Val=0.10, Plg=81, Azm=157; (P) Val=-1.22, Plg=8, Azm=4; Best double couple: Mo=1.2*10**18 Nm; NP1: Strike=49, Dip=81, Slip=-3; NP2: Strike=139, Dip=87, Slip=-171. Centroid, Moment Tensor (HRV): Centroid origin time 14:20:54.5; Lat 13.54 S; Lon 66.11 E; Dep 15.0 Fix; Half-duration 2.4 sec; Principal axes (scale 10**18 Nm): (T) Val=-1.09, Plg=1, Azm=100; (N) Val=-0.04, Plg=75, Azm=195; (P) Val=-1.05, Plg=15, Azm=10; Best double couple: Mo=1.1*10**18 Nm; NP1: Strike=146, Dip=79, Slip=-170; NP2: Strike=54, Dip=80, Slip=-12.
25	15	17	19.9%	61.031	N	151.126	W	62				21	SOUTHERN ALASKA. <AEIC>. ML 3.0 (AEIC), 2.8 (PMR).
25	16	12	36.1?	35.49	N	141.44	E	33	N		1.1	5	NEAR EAST COAST OF HONSHU, JAPAN
25	17	25	55.5?	0.09	N	16.55	W	10	G	4.9	1.2	9	NORTH OF ASCENSION ISLAND
25	18	20	22.7*	47.484	N	12.819	E	5	G		0.7	5	AUSTRIA. ML 2.4 (VIE).
25	18	43	39.4%	36.453	N	5.365	W	10	G		1.0	20	STRAIT OF GIBRALTAR. mblg 3.5 (MDD).
25	18	44	16.9	4.358	S	152.018	E	167		4.6	0.9	49	NEW BRITAIN REGION, P.N.G.
25	19	07	40.0%	60.781	N	151.237	W	51				22	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.5 (AEIC).
25	19	54	03.1	12.496	S	166.468	E	33	N	5.3 5.1	1.4	153	SANTA CRUZ ISLANDS. Mw 5.6 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 19:54:08.8; Lat 12.48 S; Lon 166.14 E; Dep 55.0 Bdy; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=-2.66, Plg=72, Azm=320; (N) Val=-0.08, Plg=15, Azm=172; (P) Val=-2.58, Plg=9, Azm=80; Best double couple: Mo=2.6*10**17 Nm; NP1: Strike=152, Dip=38, Slip=65; NP2: Strike=3, Dip=56, Slip=109.
25	20	08	07.8%	34.399	N	118.350	W	5				27	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS). Felt in the San Fernando Valley.
25	20	39	22.8*	38.318	N	141.781	E	73	D		0.7	8	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) in northeastern Miyagi Prefecture.
25	21	15	54.0*	21.297	S	174.629	W	33	N	4.5	1.1	21	TONGA ISLANDS
25	21	51	15.6%	61.943	N	150.039	W	38		4.0		103	SOUTHERN ALASKA. <AEIC>. ML 3.9 (AEIC), 4.0 (PMR). Felt (II) at Talkeetna. Also felt at Palmer and Willow.
25	22	43	33.6?	33.39	S	72.23	W	15	G		0.4	9	OFF COAST OF CENTRAL CHILE. MD 3.9 (SAN).
25	23	26	53.3	27.092	S	176.779	W	41	D	5.3 5.3	0.9	127	KERMADEC ISLANDS REGION. Mw 5.5 (HRV), 5.4 (GS). Moment Tensor (GS): Dep 26; Principal axes (scale 10**17 Nm): (T) Val=-1.60, Plg=3, Azm=308; (N) Val=0.05, Plg=34, Azm=216; (P) Val=-1.65, Plg=55, Azm=43; Best double couple: Mo=1.6*10**17 Nm; NP1: Strike=69, Dip=52, Slip=-44; NP2: Strike=190, Dip=57, Slip=-132. Centroid, Moment Tensor (HRV): Centroid origin time 23:26:56.7; Lat 27.18 S; Lon 176.35 W; Dep 34.0; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=-1.67, Plg=6, Azm=118; (N) Val=0.01, Plg=12, Azm=210; (P) Val=-1.68, Plg=76, Azm=2; Best double couple: Mo=1.7*10**17 Nm; NP1: Strike=195, Dip=40, Slip=-109; NP2: Strike=39, Dip=53, Slip=-74.
26	00	14	14.1%	0.090	N	16.680	W	10	G		0.9	12	NORTH OF ASCENSION ISLAND
26	00	25	39.8%	27.568	N	130.590	E	33	N		1.3	8	RYUKYU ISLANDS
26	00	33	12.2	43.048	N	12.879	E	10	G	5.5 5.6	1.2	341	CENTRAL ITALY. Mw 5.7 (HRV), 5.6 (GS). Me 5.7 (GS). ML 5.9 (VIE), 5.7 (STR), 5.6 (FUR), 5.5 (ROM), 5.2 (LDG). Casualties and damage in the Marche and Umbria regions are included in the comment for the event at 09:40:26 UTC on September 26. Maximum intensity (VIII) in the epicentral area. Damage to the Basilica of St. Francis at Assisi. Broadband Source Parameters (GS): Dep 8; NP1: Strike=195, Dip=55, Slip=-25; NP2: Strike=300, Dip=70, Slip=-142; Radiated energy 7.6*10**12 Nm. Moment Tensor (GS): Dep 7; Principal axes (scale 10**17 Nm): (T) Val=-3.52, Plg=4, Azm=66; (N) Val=-0.36, Plg=1, Azm=336; (P) Val=-3.16, Plg=86, Azm=234; Best double couple: Mo=3.3*10**17 Nm; NP1: Strike=157, Dip=41, Slip=-89; NP2: Strike=335, Dip=49, Slip=-91. Centroid, Moment Tensor (HRV): Centroid origin time 00:33:18.9; Lat 43.01 N; Lon 12.86 E; Dep 15.0 Fix; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=-4.26, Plg=8, Azm=52; (N) Val=-0.89, Plg=12, Azm=320; (P) Val=-3.38, Plg=75, Azm=176; Best double couple: Mo=3.8*10**17 Nm; NP1: Strike=156, Dip=38, Slip=-71; NP2: Strike=312, Dip=54, Slip=-105.
26	01	35	13.4*	43.030	N	12.837	E	10	G		0.7	17	CENTRAL ITALY. MD 3.3 (ROM). ML 3.0 (LDG). Felt (IV) in the epicentral area.
26	01	45	07.2	42.981	N	12.595	E	10	G		1.2	42	CENTRAL ITALY. ML 3.0 (LDG).
26	01	53	54.3	42.972	N	12.940	E	10	G		1.2	60	CENTRAL ITALY. ML 3.9 (VIE), 3.4 (LDG), 3.3 (ROM). Felt (V) in the epicentral area.
26	02	07	16.9	42.974	N	12.795	E	10	G		1.4	71	CENTRAL ITALY. ML 4.2 (VIE), 4.0 (STR), 3.6 (LDG). MD 3.7 (ROM). Felt (V) in the epicentral area.
26	02	39	47.3*	42.912	N	13.231	E	10	G		0.7	15	CENTRAL ITALY. ML 3.2 (LDG).
26	02	51	29.6*	43.130	N	12.741	E	10	G		0.7	13	CENTRAL ITALY. ML 3.3 (VIE), 3.2 (LDG).
26	02	54	22.0	43.015	N	12.840	E	10	G		1.2	46	CENTRAL ITALY. ML 4.2 (VIE), 3.9 (STR), 3.5 (LDG).
26	04	02	30.0%	61.703	N	151.779	W	99				40	SOUTHERN ALASKA. <AEIC>.
26	04	11	55.5*	42.999	N	13.056	E	10	G		0.6	12	CENTRAL ITALY. ML 3.4 (LDG).
26	04	14	16.0	43.029	N	12.699	E	10	G		1.4	79	CENTRAL ITALY. ML 4.2 (VIE), 4.1 (STR), 3.8 (LDG).
26	04	23	15.2*	43.072	N	12.644	E	10	G		1.1	24	CENTRAL ITALY. ML 3.7 (VIE), 3.5 (LDG).
26	04	24	13.4%	63.046	N	151.547	W	10				9	CENTRAL ALASKA. <AEIC>. ML 2.3 (AEIC), 2.8 (PMR).

Year	Month	Day	Time	Lat	Long	Depth	Magnitude	Location	Notes		
26	04	28	53.9*	43.202 N	12.559 E	10 G	0.7	13	CENTRAL ITALY. ML 3.1 (LDG).		
26	04	44	36.8	42.554 N	13.378 E	10 G	1.3	61	CENTRAL ITALY. ML 4.4 (VIE), 4.2 (STR), 3.8 (LDG). MD 3.7 (ROM). Felt (V) in the epicentral area.		
26	05	26	52.4*	23.192 N	112.869 E	33 N	4.2	1.0	10	NEAR SOUTHEASTERN COAST OF CHINA	
26	06	40	31.7*	18.151 S	168.657 E	33 N	4.9	4.6	1.3	31	VANUATU ISLANDS
26	07	05	05.1	42.967 N	12.882 E	10 G			1.4	32	CENTRAL ITALY. ML 3.9 (VIE).
26	07	27	30.8*	17.604 S	175.348 E	33 N	4.6		0.8	13	FIJI ISLANDS REGION
26	07	35	34.3*	42.816 N	12.798 E	10 G			1.3	29	CENTRAL ITALY. ML 4.0 (VIE), 3.5 (LDG).
26	07	39	17.2*	44.87 N	6.70 E	10 G			0.1	4	FRANCE
26	08	12	01.6*	42.958 N	12.757 E	10 G			1.5	26	CENTRAL ITALY. ML 3.7 (VIE), 3.4 (LDG).
26	08	30	14.3	42.927 N	12.844 E	10 G			1.4	28	CENTRAL ITALY. ML 4.0 (VIE), 3.4 (LDG).
26	08	50	20.9*	8.72 N	103.03 W	33 N	4.2		1.1	10	OFF COAST OF MEXICO
26	09	05	24.8*	60.160 N	147.082 W	9			45		SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).
26	09	10	01.2*	33.364 S	71.742 W	20 G			0.3	8	NEAR COAST OF CENTRAL CHILE. MD 3.4 (SAN).
26	09	33	48.3	43.043 N	12.779 E	10 G	4.4		1.2	122	CENTRAL ITALY. ML 4.7 (VIE), 4.5 (STR), 4.1 (LDG).
26	09	40	26.3	43.084 N	12.812 E	10 G	5.7	6.0	1.3	348	CENTRAL ITALY. Mw 6.0 (GS), 6.0 (HRV). Me 6.1 (GS). ML 6.4 (VIE), 6.2 (FUR), 6.0 (STR), 5.8 (ROM), 5.6 (LDG). Eleven people killed, more than 100 injured and about 80,000 homes destroyed or damaged in the Marche and Umbria regions by this earthquake and the event at 00:33:12 UTC on September 26. Maximum intensity (X) at Serravalle di Chienti and (IX) at Valtopina. Extensive damage to the Basilica of St. Francis at Assisi. Felt in many parts of central and northern Italy from Bologna and Modena to Rome. Felt (IV) in western and central Slovenia and (III) in southern Karnten Province, Austria.
Broadband Source Parameters (GS): Dep 6; NP1: Strike=200, Dip=55, Slip=-30; NP2: Strike=308, Dip=66, Slip=-141; Radiated energy 2.9*10**13 Nm.											
Moment Tensor (GS): Dep 3; Principal axes (scale 10**18 Nm): (T) Val=1.10, Plg=3, Azm=54; (N) Val=-0.10, Plg=2, Azm=324; (P) Val=-0.99, Plg=86, Azm=199; Best double couple: Mo=1.0*10**18 Nm; NP1: Strike=146, Dip=42, Slip=-87; NP2: Strike=322, Dip=48, Slip=-93.											
Centroid, Moment Tensor (HRV): Centroid origin time 09:40:33.3; Lat 43.08 N; Lon 12.78 E; Dep 15.0 Fix; Half-duration 2.7 sec; Principal axes (scale 10**18 Nm): (T) Val=1.18, Plg=6, Azm=50; (N) Val=-0.09, Plg=2, Azm=320; (P) Val=-1.09, Plg=84, Azm=214; Best double couple: Mo=1.1*10**18 Nm; NP1: Strike=142, Dip=39, Slip=-87; NP2: Strike=318, Dip=51, Slip=-92.											
26	09	47	38.6	43.163 N	12.752 E	10 G	4.7		1.3	89	CENTRAL ITALY. ML 5.3 (VIE), 4.7 (LDG), 4.7 (ROM). Additional damage (VII) to buildings in the epicentral area.
26	09	53	43.8*	42.998 N	12.832 E	10 G			1.3	18	CENTRAL ITALY. ML 3.6 (LDG).
26	10	18	04.8*	42.97 N	12.63 E	10 G			1.4	17	CENTRAL ITALY. ML 3.7 (VIE), 3.3 (LDG).
26	10	20	46.0*	43.13 N	12.75 E	10 G			1.0	8	CENTRAL ITALY. ML 3.4 (LDG).
26	10	25	48.3*	43.198 N	12.576 E	10 G			1.0	13	CENTRAL ITALY. ML 3.2 (LDG).
26	10	35	32.9*	29.257 S	177.031 W	100 G	4.5		1.0	20	KERMADEC ISLANDS, NEW ZEALAND
26	10	47	49.6*	42.981 N	12.840 E	10 G			1.3	12	CENTRAL ITALY. ML 3.5 (LDG).
26	10	57	51.0*	33.091 S	71.279 W	50 G			0.3	9	NEAR COAST OF CENTRAL CHILE. MD 3.4 (SAN).
26	11	04	19.2	43.065 N	12.765 E	10 G			1.1	23	CENTRAL ITALY. ML 3.5 (LDG).
26	11	11	49.9	43.132 N	12.584 E	10 G			1.2	65	CENTRAL ITALY. ML 3.5 (LDG), 3.0 (ROM).
26	11	13	09.7*	39.298 N	40.831 E	33 N	4.1		1.4	8	TURKEY. Felt at Erzurum.
26	11	24	48.7*	43.052 N	12.502 E	10 G			1.5	28	CENTRAL ITALY. ML 3.8 (VIE), 3.4 (LDG).
26	11	27	00.3	43.035 N	12.587 E	10 G			1.0	14	CENTRAL ITALY. ML 3.4 (LDG).
26	12	23	13.4	43.813 N	7.873 E	5 G			1.0	22	NEAR SOUTH COAST OF FRANCE. ML 2.7 (LDG), 2.5 (STR).
26	12	25	42.3*	43.080 N	12.602 E	10 G			1.1	15	CENTRAL ITALY. ML 3.0 (LDG).
26	12	30	32.2*	29.364 S	177.041 W	33 N	4.9		1.0	27	KERMADEC ISLANDS, NEW ZEALAND
26	13	09	17.8*	23.185 S	66.369 W	226	4.5		0.8	11	JUJUY PROVINCE, ARGENTINA
26	13	10	11.9	43.064 N	12.701 E	10 G	3.8		1.3	57	CENTRAL ITALY. ML 4.2 (VIE), 4.2 (STR), 3.5 (LDG). Felt (V) in the epicentral area.
26	13	21	15.5*	51.120 N	178.784 E	33 N	3.9		1.1	20	RAT ISLANDS, ALEUTIAN ISLANDS. ML 4.4 (PMR).
26	13	26	58.9	42.940 N	12.789 E	10 G			1.1	42	CENTRAL ITALY. ML 3.5 (LDG), 3.1 (ROM).
26	13	30	51.8	43.033 N	12.938 E	10 G	4.7		1.2	126	CENTRAL ITALY. ML 4.5 (STR), 4.1 (LDG). MD 4.1 (ROM). Felt (VI) in the epicentral area.
26	13	46	28.4*	42.918 N	12.877 E	10 G			1.4	24	CENTRAL ITALY. ML 3.4 (LDG).
26	13	52	54.8	43.014 N	12.847 E	10 G	3.9		1.4	53	CENTRAL ITALY. ML 4.1 (VIE), 3.6 (LDG).
26	14	00	05.8	0.124 N	16.923 W	10 G	5.1	5.0	1.1	150	NORTH OF ASCENSION ISLAND. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 14:00:09.4; Lat 0.16 N; Lon 16.90 W; Dep 15.0 Fix; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.00, Plg=19, Azm=47; (N) Val=-0.16, Plg=16, Azm=311; (P) Val=-1.84, Plg=64, Azm=183; Best double couple: Mo=1.9*10**17 Nm; NP1: Strike=162, Dip=30, Slip=-55; NP2: Strike=303, Dip=66, Slip=-108.
26	14	12	26.2	43.057 N	12.716 E	10 G			1.1	22	CENTRAL ITALY. ML 3.4 (LDG).
26	14	16	00.9	3.145 S	139.082 E	33 N	5.3	5.3	1.0	60	IRIAN JAYA, INDONESIA. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 14:16:05.1; Lat 3.36 S; Lon 139.33 E; Dep 43.5; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.22, Plg=66, Azm=356; (N) Val=-0.16, Plg=18, Azm=130; (P) Val=-1.38, Plg=16, Azm=225; Best double couple: Mo=1.3*10**17 Nm; NP1: Strike=340, Dip=32, Slip=124; NP2: Strike=121, Dip=64, Slip=70.
26	14	43	44.5*	38.489 N	142.244 E	33 N	4.2		1.3	14	NEAR EAST COAST OF HONSHU, JAPAN
26	14	54	27.8	43.065 N	12.853 E	10 G	4.0		1.2	119	CENTRAL ITALY. ML 4.6 (VIE), 4.0 (LDG). Felt (V) in the epicentral area.
26	15	08	16.7	43.829 N	7.865 E	5 G			1.1	22	NEAR SOUTH COAST OF FRANCE. ML 2.7 (LDG), 2.6 (STR).
26	15	19	23.6*	43.486 N	11.882 E	10 G			1.0	10	CENTRAL ITALY. ML 2.9 (LDG).
26	15	23	10.1*	63.336 N	145.337 W	6			58		CENTRAL ALASKA. <AEIC>. ML 3.2 (AEIC), 3.4 (PMR). Felt in the epicentral area.
26	15	31	08.6	51.650 N	16.244 E	5 G			0.8	15	POLAND. ML 2.9 (CLL).
26	15	42	49.8*	47.595 N	2.749 W	10 G			0.8	12	FRANCE. ML 3.0 (LDG).

26	15	48	34.2	5.385 S	128.994 E	254 D	5.8	0.9	310	BANDA SEA. Mw 6.0 (GS), 6.0 (HRV). Me 6.1 (GS). Broadband Source Parameters (GS): Dep 235; NP1: Strike=240, Dip=53, Slip=50; NP2: Strike=114, Dip=52, Slip=130; Radiated energy 2.8*10**13 Nm. Complex earthquake with at least one larger event occurring about 5 seconds after the onset. Moment Tensor (GS): Dep 245; Principal axes (scale 10**18 Nm): (T) Val=-1.12, Plg=54, Azm=79; (N) Val=0.16, Plg=35, Azm=247; (P) Val=-1.28, Plg=6, Azm=341; Best double couple: Mo=1.2*10**18 Nm; NP1: Strike=103, Dip=50, Slip=139; NP2: Strike=223, Dip=60, Slip=48. Centroid, Moment Tensor (HRV): Centroid origin time 15:48:39.5; Lat 5.29 S; Lon 129.13 E; Dep 268.4; Half-duration 2.6 sec; Principal axes (scale 10**18 Nm): (T) Val=-1.33, Plg=60, Azm=88; (N) Val=0.03, Plg=28, Azm=245; (P) Val=-1.36, Plg=10, Azm=341; Best double couple: Mo=1.3*10**18 Nm; NP1: Strike=101, Dip=43, Slip=134; NP2: Strike=228, Dip=61, Slip=57.
26	16	18	37.3	43.084 N	12.875 E	10 G		1.3	46	CENTRAL ITALY. ML 4.0 (VIE), 3.5 (LDG). MD 3.5 (ROM). Felt (V) in the epicentral area.
26	16	35	25.18	44.623 N	7.296 E	10 G		0.4	8	NORTHERN ITALY. ML 2.3 (LDG).
26	16	47	38.5*	24.532 S	176.340 W	39 D	4.7	1.0	31	SOUTH OF FIJI ISLANDS
26	17	10	19.8*	43.180 N	12.526 E	10 G		0.8	11	CENTRAL ITALY. ML 3.2 (LDG).
26	17	16	47.5*	32.732 S	71.574 W	20 G		0.7	10	NEAR COAST OF CENTRAL CHILE. MD 3.8 (SAN).
26	18	00	36.08	43.041 N	12.773 E	10 G		1.3	11	CENTRAL ITALY
26	18	10	12.8*	33.125 S	70.307 W	100 G		0.5	11	CHILE-ARGENTINA BORDER REGION. MD 4.2 (SAN).
26	18	16	00.26	54.357 N	162.326 W	0			18	ALASKA PENINSULA. <AEIC>. ML 3.3 (AEIC).
26	18	37	27.6	24.886 N	45.764 W	10 G	4.7	0.9	62	NORTHERN MID-ATLANTIC RIDGE
26	18	44	44.0	43.027 N	12.725 E	10 G		1.3	32	CENTRAL ITALY. ML 4.0 (VIE), 3.4 (LDG).
26	18	48	02.5*	9.390 N	79.279 W	73 *	4.5	1.0	20	PANAMA
26	19	16	21.5	43.034 N	12.573 E	10 G		1.3	40	CENTRAL ITALY. ML 3.9 (VIE), 3.3 (LDG).
26	19	28	44.0	43.005 N	12.570 E	10 G		1.0	27	CENTRAL ITALY. ML 3.3 (LDG).
26	19	34	06.3	43.034 N	12.651 E	10 G		1.3	41	CENTRAL ITALY. ML 3.6 (VIE), 3.3 (LDG).
26	19	38	18.28	44.459 N	7.306 E	10 G		0.2	8	NORTHERN ITALY. ML 1.8 (LDG).
26	19	58	02.46	37.286 N	121.664 W	7			25	CENTRAL CALIFORNIA. <GM-P>. MD 3.1 (GM). ML 3.2 (BRK).
26	20	12	23.8	48.421 N	5.762 E	10 G		1.3	30	FRANCE. ML 2.7 (LDG), 2.4 (STR).
26	20	23	31.9*	43.214 N	12.431 E	10 G		0.6	14	CENTRAL ITALY. ML 3.0 (LDG).
26	20	41	23.5*	10.090 N	126.069 E	61 D	4.8	1.2	15	PHILIPPINE ISLANDS REGION
26	20	44	27.1	10.062 N	126.015 E	33 N	5.0 4.1	0.9	62	PHILIPPINE ISLANDS REGION. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 20:44:34.4; Lat 10.14 N; Lon 126.31 E; Dep 38.3; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.64, Plg=68, Azm=355; (N) Val=-0.26, Plg=22, Azm=189; (P) Val=-4.37, Plg=5, Azm=97; Best double couple: Mo=4.5*10**16 Nm; NP1: Strike=165, Dip=44, Slip=58; NP2: Strike=26, Dip=54, Slip=117.
26	20	59	29.2*	18.832 S	169.355 E	250 G	4.3	1.2	45	VANUATU ISLANDS
26	21	01	33.3*	43.190 N	12.689 E	10 G		0.8	14	CENTRAL ITALY. MD 3.4 (ROM). ML 3.0 (LDG). Felt (IV) in the epicentral area.
26	22	03	07.5*	43.196 N	12.192 E	10 G		1.1	13	CENTRAL ITALY. ML 2.9 (LDG).
26	22	14	05.0	17.532 N	94.763 W	150 G	4.4	1.2	47	CHIAPAS, MEXICO
26	22	57	12.3*	43.296 N	12.466 E	10 G		1.3	14	CENTRAL ITALY. ML 2.8 (LDG).
26	23	01	08.6*	43.319 N	12.387 E	10 G		1.2	15	CENTRAL ITALY. ML 3.0 (LDG).
26	23	22	03.9*	43.295 N	12.585 E	10 G		0.7	14	CENTRAL ITALY. ML 3.0 (LDG).
26	23	54	19.6*	43.038 N	12.686 E	10 G		0.6	14	CENTRAL ITALY. ML 3.1 (LDG).
26	23	58	19.8*	43.165 N	12.647 E	10 G		0.4	15	CENTRAL ITALY. ML 3.1 (LDG).
27	00	02	09.1*	3.990 N	97.088 E	33 N	4.3	1.0	9	NORTHERN SUMATERA, INDONESIA
27	01	53	00.36	37.632 N	118.942 W	6			16	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.4 (GM). ML 3.5 (BRK).
27	02	12	18.9?	42.86 N	13.35 E	10 G		0.8	10	CENTRAL ITALY. MD 3.2 (ROM). ML 3.1 (LDG). Felt (IV) in the epicentral area.
27	02	17	24.0	43.086 N	12.784 E	10 G		1.3	91	CENTRAL ITALY. ML 4.2 (VIE), 4.1 (STR), 3.7 (LDG). MD 3.5 (ROM). Felt (V) in the epicentral area.
27	03	03	21.0	43.030 N	12.771 E	10 G		1.1	66	CENTRAL ITALY. ML 4.1 (VIE), 3.5 (LDG). MD 3.6 (ROM). Felt (V) in the epicentral area.
27	03	06	13.4*	6.246 S	130.595 E	100 G	4.0	1.2	15	BANDA SEA
27	04	00	06.86	63.486 N	150.825 W	10			17	CENTRAL ALASKA. <AEIC>. ML 2.5 (AEIC), 2.9 (PMR).
27	04	40	10.3	51.579 N	16.225 E	5 G		0.9	8	POLAND. MG 2.6 (WAR).
27	04	57	15.6	43.036 N	12.715 E	10 G	4.0	1.2	98	CENTRAL ITALY. ML 4.2 (VIE), 4.2 (STR), 3.8 (LDG). MD 3.7 (ROM). Felt (V) in the epicentral area.
27	05	00	20.36	37.633 N	118.942 W	6			8	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.8 (GM). ML 2.8 (GS).
27	05	20	10.1*	18.924 S	173.709 W	33 N	4.4	1.0	25	TONGA ISLANDS
27	05	22	19.8*	36.240 N	140.799 E	75 ?		0.5	9	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) in Ibaraki Prefecture.
27	05	28	39.3?	30.44 S	177.47 W	33 N	4.4	0.4	9	KERMADEC ISLANDS, NEW ZEALAND
27	05	52	56.3	43.034 N	13.034 E	10 G		0.9	15	CENTRAL ITALY. MD 3.5 (ROM). Felt (V) in the epicentral area.
27	06	03	02.7	43.066 N	12.690 E	10 G	4.0	1.3	101	CENTRAL ITALY. ML 4.2 (VIE), 4.1 (STR), 3.9 (LDG). Felt (V) in the epicentral area.
27	06	09	14.76	60.066 N	153.006 W	112	3.1		23	SOUTHERN ALASKA. <AEIC>.
27	06	09	48.6	42.899 N	12.691 E	10 G		1.3	20	CENTRAL ITALY. ML 3.0 (LDG).
27	06	19	45.5?	39.04 S	176.76 E	200 G	3.2	0.5	11	NORTH ISLAND, NEW ZEALAND
27	06	41	28.0*	21.875 S	65.777 W	271		0.8	8	SOUTHERN BOLIVIA
27	06	47	33.4?	43.17 N	12.68 E	10 G		0.8	8	CENTRAL ITALY. ML 2.9 (LDG).
27	06	51	03.4*	43.019 N	13.151 E	10 G		1.5	15	CENTRAL ITALY. MD 3.4 (ROM). Felt (IV) in the epicentral area.
27	07	06	00.7?	42.96 N	13.31 E	10 G		0.5	9	CENTRAL ITALY. ML 3.0 (LDG).
27	07	07	11.6*	22.948 S	169.586 E	33 N	4.3	1.5	27	LOYALTY ISLANDS REGION
27	07	22	50.9	29.555 S	176.906 W	33 N	5.1 5.4	1.3	74	KERMADEC ISLANDS REGION. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 07:22:53.5; Lat 29.30 S; Lon 176.15 W; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.04, Plg=64, Azm=305; (N) Val=-0.05, Plg=10, Azm=192;

(P) Val=-0.99, Plg=23, Azm=98; Best double couple:
Mo=1.0*10**17 Nm; NP1: Strike=168, Dip=23, Slip=63; NP2:
Strike=16, Dip=69, Slip=101.

27 07 48 12.0? 45.97 N 14.12 E 10 G 0.6 4 NORTHWESTERN BALKAN REGION. ML 2.1 (LJU). Felt (IV) at Logatec and Petkovec, Slovenia.

27 07 50 33.9 43.055 N 12.882 E 10 G 1.2 33 CENTRAL ITALY. ML 3.4 (LDG).

27 07 58 53.1? 42.86 N 13.43 E 10 G 0.6 11 CENTRAL ITALY. ML 3.2 (LDG).

27 08 07 17.5? 44.417 N 6.913 E 5 G 0.6 7 FRANCE. ML 2.0 (LDG).

27 08 08 07.6 43.126 N 12.767 E 10 G 4.4 1.1 145 CENTRAL ITALY. ML 4.8 (VIE), 4.6 (STR), 4.3 (LDG). MD 4.0 (ROM). Felt (V) in the epicentral area.

27 08 08 15.8 40.327 N 125.352 W 10 G 1.1 78 OFF COAST OF NORTHERN CALIFORNIA. Mw 4.3 (BRK). ML 4.0 (BRK). Moment Tensor (BRK): Dep 21; Principal axes (scale 10**15 Nm): (T) Val=3.60, Plg=8, Azm=55; (N) Val=0.00, Plg=78, Azm=281; (P) Val=-3.60, Plg=8, Azm=147; Best double couple: Mo=3.6*10**15 Nm; NP1: Strike=281, Dip=90, Slip=-168; NP2: Strike=191, Dip=78, Slip=0.

27 08 33 46.8* 43.177 N 12.715 E 10 G 0.8 12 CENTRAL ITALY. ML 3.2 (LDG).

27 08 39 59.0* 43.148 N 12.855 E 10 G 0.8 14 CENTRAL ITALY. ML 3.3 (LDG).

27 08 59 13.4? 44.498 N 6.508 E 5 G 0.5 9 FRANCE. ML 1.8 (LDG).

27 09 11 21.4? 37.635 N 118.942 W 6 15 CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.9 (GM). ML 3.1 (BRK).

27 10 09 51.8? 36.977 N 3.722 W 10 G 0.8 12 STRAIT OF GIBRALTAR. mbLg 2.8 (MDD).

27 10 16 45.3* 22.836 S 169.871 E 33 N 4.2 1.0 16 LOYALTY ISLANDS REGION

27 10 18 08.0? 23.20 S 169.51 E 33 N 1.4 7 LOYALTY ISLANDS REGION

27 10 40 05.5? 43.07 N 13.15 E 10 G 0.8 8 CENTRAL ITALY. MD 3.3 (ROM). ML 3.3 (LDG). Felt (IV) in the epicentral area.

27 10 43 20.9? 23.06 N 94.29 E 91 ? 4.0 0.6 9 MYANMAR-INDIA BORDER REGION

27 10 49 48.2? 42.84 N 13.44 E 10 G 0.8 12 CENTRAL ITALY. MD 3.3 (ROM). Felt (IV) in the epicentral area.

27 11 17 54.2? 40.13 N 77.73 E 33 N 1.2 6 KYRGYZSTAN-XINJIANG BORDER REG.

27 11 26 57.7* 43.112 N 12.852 E 10 G 0.8 15 CENTRAL ITALY. ML 3.4 (LDG). MD 3.3 (ROM). Felt (IV) in the epicentral area.

27 11 28 14.3 10.750 S 165.518 E 23 ? 5.2 5.1 0.9 91 SANTA CRUZ ISLANDS. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 11:28:21.9; Lat 10.63 S; Lon 165.31 E; Dep 34.3; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.20, Plg=70, Azm=256; (N) Val=-0.27, Plg=7, Azm=6; (P) Val=-0.92, Plg=18, Azm=99; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=200, Dip=27, Slip=106; NP2: Strike=3, Dip=64, Slip=82.

27 11 55 43.8* 16.012 S 175.151 W 299 * 4.1 0.6 16 TONGA ISLANDS

27 12 09 33.8 27.885 S 66.664 W 176 5.0 0.9 122 CATAMARCA PROVINCE, ARGENTINA

27 12 14 09.3* 36.201 N 89.484 W 5 G 1.0 5 NEW MADRID, MISSOURI REGION. mbLg 3.0 (GS).

27 12 43 27.0? 67.44 N 147.87 W 10 G 1.1 7 NORTHERN ALASKA. ML 3.5 (PMR).

27 13 23 47.5 42.937 N 12.823 E 10 G 1.2 89 CENTRAL ITALY. ML 3.8 (LDG), 3.3 (ROM). Felt (V) in the epicentral area.

27 13 35 05.5 42.914 N 12.777 E 10 G 3.7 1.2 17 CENTRAL ITALY. ML 3.7 (VIE), 3.5 (LDG). MD 3.3 (ROM). Felt (IV) in the epicentral area.

27 13 43 59.8* 17.057 N 96.088 W 100 G 1.4 9 OAXACA, MEXICO

27 13 54 09.2* 71.573 N 2.089 E 10 G 1.0 7 NORWEGIAN SEA

27 14 42 37.7? 53.534 N 165.278 W 45 10 FOX ISLANDS, ALEUTIAN ISLANDS. <AEIC>. ML 3.5 (AEIC).

27 15 10 26.4? 62.918 N 151.256 W 115 17 CENTRAL ALASKA. <AEIC>.

27 15 59 02.7* 19.442 S 173.613 W 42 D 4.5 1.0 23 TONGA ISLANDS

27 16 03 33.8? 32.57 S 71.58 W 20 G 0.4 10 NEAR COAST OF CENTRAL CHILE. MD 3.5 (SAN).

27 16 08 59.5* 7.065 S 155.043 E 33 N 3.9 0.9 13 SOLOMON ISLANDS

27 16 43 04.6 43.030 N 12.835 E 10 G 0.7 14 CENTRAL ITALY. ML 3.3 (LDG).

27 16 46 37.0 6.919 S 128.880 E 182 * 4.1 0.9 19 BANDA SEA

27 16 47 29.8? 32.72 S 71.70 W 10 G 0.7 10 NEAR COAST OF CENTRAL CHILE. MD 3.3 (SAN).

27 16 54 49.2? 33.255 S 71.952 W 20 G 0.4 10 NEAR COAST OF CENTRAL CHILE. MD 3.7 (SAN).

27 16 55 43.6? 42.92 N 13.28 E 10 G 0.7 13 CENTRAL ITALY. ML 3.3 (LDG).

27 16 58 24.0? 43.23 N 12.17 E 10 G 0.6 7 CENTRAL ITALY. ML 3.0 (LDG).

27 17 13 02.8 43.022 N 12.829 E 10 G 4.5 1.2 108 CENTRAL ITALY. ML 4.3 (STR), 4.3 (VIE), 3.8 (LDG). MD 3.7 (ROM). Felt (V) in the epicentral area.

27 17 39 08.1? 32.73 S 71.75 W 50 G 0.4 10 NEAR COAST OF CENTRAL CHILE. MD 3.6 (SAN).

27 17 51 18.0? 43.13 N 12.38 E 10 G 1.0 8 CENTRAL ITALY. ML 2.9 (LDG).

27 19 01 29.0? 60.331 N 150.851 W 62 16 KENAI PENINSULA, ALASKA. <AEIC>. ML 2.5 (AEIC).

27 19 53 19.1? 47.36 N 0.07 E 5 G 0.4 4 FRANCE. ML 1.9 (LDG).

27 19 56 42.9 43.062 N 12.765 E 10 G 4.5 1.2 134 CENTRAL ITALY. ML 4.3 (STR), 4.3 (VIE), 4.2 (FUR), 3.9 (LDG). MD 4.0 (ROM). Felt (V) in the epicentral area.

27 19 59 21.8* 4.933 S 151.725 E 114 D 3.7 0.6 11 NEW BRITAIN REGION, P.N.G.

27 20 19 33.2 43.038 N 12.713 E 10 G 1.1 26 CENTRAL ITALY. ML 3.0 (LDG).

27 20 34 21.5? 39.94 N 21.50 E 33 N 1.3 7 GREECE

27 20 39 31.6* 19.041 N 145.351 E 600 G 0.8 12 MARIANA ISLANDS

27 21 36 06.9? 45.83 N 7.68 E 5 G 1.0 5 NORTHERN ITALY. ML 2.1 (LDG).

27 23 36 00.9? 65.750 N 147.971 W 9 13 NORTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).

27 23 36 32.6 42.956 N 12.827 E 10 G 1.3 24 CENTRAL ITALY. MD 3.5 (ROM). ML 3.0 (LDG). Felt (V) in the epicentral area.

28 00 05 38.3? 22.22 S 175.26 E 33 N 3.4 0.4 6 SOUTH OF FIJI ISLANDS

28 00 12 56.0? 59.971 N 141.439 W 9 21 SOUTHEASTERN ALASKA. <AEIC>. ML 2.5 (AEIC).

28 00 54 05.8 43.111 N 12.773 E 10 G 1.1 27 CENTRAL ITALY. ML 2.9 (LDG).

28 00 57 54.4? 40.340 N 124.252 W 31 5 NEAR COAST OF NORTHERN CALIF. <GM-P>. MD 2.8 (GM).

28 01 02 32.2? 43.05 N 12.94 E 10 G 0.8 13 CENTRAL ITALY. ML 2.7 (LDG).

28 01 11 18.0* 35.947 N 12.927 E 33 N 1.5 30 CENTRAL MEDITERRANEAN SEA. ML 3.5 (LDG).

28 01 38 28.6 3.776 S 119.727 E 33 N 5.6 5.5 1.3 145 SULAWESI, INDONESIA. Mw 5.9 (GS), 5.9 (HRV). Me 5.6 (GS). At least 18 people killed, over 300 injured and 650 houses and buildings destroyed in the Parepare-Pinrang area. Felt (IV) at Majene and (III) at Ujungpandang. Broadband Source Parameters (GS): Dep 13; NP1: Strike=0, Dip=35, Slip=90; NP2: Strike=180, Dip=55, Slip=90; Radiated energy 6.2*10**12 Nm. Moment Tensor (GS): Dep 16; Principal axes (scale 10**17 Nm): (T) Val=5.54, Plg=61, Azm=359; (N) Val=2.55, Plg=29, Azm=175; (P) Val=-8.09, Plg=2, Azm=266; Best double couple:

Mo=6.8*10**17 Nm; NP1: Strike=22, Dip=50, Slip=129; NP2: Strike=150, Dip=53, Slip=53.
Centroid, Moment Tensor (HRV): Centroid origin time 01:38:34.2; Lat 3.92 S; Lon 119.77 E; Dep 34.5; Half-duration 2.1 sec; Principal axes (scale 10**17 Nm): (T) Val=6.49, Plg=76, Azm=24; (N) Val=1.19, Plg=13, Azm=177; (P) Val=-7.68, Plg=6, Azm=269; Best double couple: Mo=7.1*10**17 Nm; NP1: Strike=13, Dip=40, Slip=110; NP2: Strike=167, Dip=53, Slip=74.

28	01	46	48.6*	43.075	N	12.707	E	10	G	0.7	15	CENTRAL ITALY. ML 2.6 (LDG).		
28	02	03	28.2*	43.416	N	11.987	E	10	G	1.0	14	CENTRAL ITALY. MD 3.3 (ROM). ML 2.8 (LDG). Felt (IV) in the epicentral area.		
28	02	18	31.0?	43.04	N	13.06	E	10	G	0.6	13	CENTRAL ITALY. MD 3.3 (ROM). ML 3.0 (LDG). Felt (IV) in the epicentral area.		
28	02	47	47.0*	43.021	N	12.810	E	10	G	1.0	25	CENTRAL ITALY. ML 3.7 (VIE), 3.1 (LDG). MD 3.6 (ROM). Felt (V) in the epicentral area.		
28	02	58	12.6	51.366	N	6.368	E	10	G	1.1	49	GERMANY. ML 3.4 (STR), 3.3 (LDG), 3.2 (GRF), 3.1 (UCC), 2.9 (DBN).		
28	03	09	03.5*	10.652	S	161.762	E	84	*	4.2	1.0	20	SOLOMON ISLANDS	
28	03	51	33.1	43.076	N	12.736	E	10	G	1.2	104	CENTRAL ITALY. ML 4.2 (STR), 4.2 (VIE), 3.7 (LDG). MD 3.7 (ROM). Felt (V) in the epicentral area.		
28	04	26	46.9?	43.15	N	12.65	E	10	G	0.7	13	CENTRAL ITALY. ML 2.7 (LDG).		
28	04	43	38.0	42.986	N	12.822	E	10	G	0.6	22	CENTRAL ITALY. MD 3.2 (ROM). ML 3.1 (LDG). Felt (IV) in the epicentral area.		
28	05	09	42.1	43.113	N	12.924	E	10	G	0.9	16	CENTRAL ITALY. MD 3.3 (ROM). ML 3.1 (LDG). Felt (IV) in the epicentral area.		
28	07	00	02.7*	43.485	N	11.909	E	10	G	1.1	12	CENTRAL ITALY. ML 2.9 (LDG).		
28	07	14	07.8*	0.997	N	127.044	E	100	G	4.2	1.0	12	HALMAHERA, INDONESIA	
28	07	54	21.7	24.529	N	121.716	E	50	G	4.4	0.9	21	TAIWAN. Felt at Taipei and in many other parts of Taiwan.	
28	07	56	07.5*	43.167	N	12.796	E	10	G	0.8	12	CENTRAL ITALY. MD 3.2 (ROM). ML 2.8 (LDG). Felt (IV) in the epicentral area.		
28	08	01	54.1*	43.018	N	12.770	E	10	G	1.3	14	CENTRAL ITALY. MD 3.3 (ROM). ML 2.8 (LDG). Felt (IV) in the epicentral area.		
28	08	39	34.8?	18.44	S	167.90	E	33	N	4.8	4.6	1.4	27	VANUATU ISLANDS
28	08	48	04.9	12.775	N	143.369	E	99		4.9	1.0	92	SOUTH OF MARIANA ISLANDS. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 08:48:02.9; Lat 12.23 N; Lon 143.53 E; Dep 88.9; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.01, Plg=4, Azm=75; (N) Val=-0.08, Plg=52, Azm=170; (P) Val=-0.93, Plg=38, Azm=341; Best double couple: Mo=9.7*10**16 Nm; NP1: Strike=125, Dip=61, Slip=-154; NP2: Strike=22, Dip=68, Slip=-32.	
28	09	16	58.3?	6.79	S	155.39	E	33	N	3.7	0.9	8	SOLOMON ISLANDS	
28	10	28	05.6?	3.80	S	119.67	E	33	N		1.6	4	SULAWESI, INDONESIA	
28	10	49	02.7?	22.18	S	175.00	W	33	N	3.9	1.1	9	TONGA ISLANDS REGION	
28	11	03	45.0*	43.345	N	12.430	E	10	G		0.9	16	CENTRAL ITALY. ML 2.9 (LDG).	
28	11	13	59.6	30.665	S	71.514	W	68	D	3.5	1.1	17	NEAR COAST OF CENTRAL CHILE	
28	11	24	31.6	42.971	N	12.793	E	10	G		1.2	91	CENTRAL ITALY. ML 4.2 (STR), 4.2 (VIE), 3.6 (LDG). MD 3.5 (ROM). Felt (VI) in the epicentral area.	
28	11	40	00.1?	5.88	S	147.55	E	137	*	4.0	1.3	9	EASTERN NEW GUINEA REG., P.N.G.	
28	11	46	49.3*	43.293	N	12.540	E	10	G		1.3	14	CENTRAL ITALY. ML 2.9 (LDG).	
28	11	59	27.0*	20.037	S	168.061	E	33	N	4.6	1.3	18	LOYALTY ISLANDS	
28	12	09	35.1	34.260	N	136.174	E	384		4.2	0.8	49	WESTERN HONSHU, JAPAN	
28	13	03	41.5*	43.079	N	12.854	E	10	G		0.9	13	CENTRAL ITALY. ML 2.7 (LDG).	
28	13	29	45.3*	25.207	N	122.303	E	200	G	3.6	1.2	12	TAIWAN REGION	
28	13	58	10.2*	7.151	N	34.273	W	10	G	4.8	4.6	1.3	55	CENTRAL MID-ATLANTIC RIDGE
28	14	15	04.6*	33.655	N	69.598	E	82	*	3.5	0.6	13	AFGHANISTAN	
28	14	32	39.5	25.235	N	94.917	E	129	*	4.6	0.6	25	MYANMAR-INDIA BORDER REGION	
28	14	56	11.0?	4.49	S	153.50	E	109	*	4.1	0.8	11	NEW IRELAND REGION, P.N.G.	
28	14	57	10.1*	42.128	N	84.136	E	10	G	4.3	1.5	13	NORTHERN XINJIANG, CHINA	
28	15	01	02.8?	43.00	N	147.68	E	33	N		0.3	6	KURIL ISLANDS	
28	15	01	42.1*	61.022	N	150.463	W	39				37	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).	
28	15	30	19.6*	43.060	N	12.819	E	10	G		0.5	12	CENTRAL ITALY. ML 3.0 (LDG).	
28	15	52	26.9?	45.84	N	7.06	E	10	G		0.1	4	NORTHERN ITALY. ML 2.1 (LDG).	
28	15	57	22.9*	34.301	N	116.452	W	8		4.0		81	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.4 (PAS), 4.7 (BRK). Felt in the Yucca Valley-Palm Springs area.	
28	16	04	45.2	43.042	N	12.822	E	10	G		0.9	32	CENTRAL ITALY. ML 3.6 (VIE). MD 3.3 (ROM). Felt (IV) in the epicentral area.	
28	16	08	48.6*	61.512	N	152.078	W	1				40	SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).	
28	16	48	52.8*	35.236	N	23.818	E	33	N	3.5	1.1	11	CRETE	
28	17	15	31.7*	43.451	N	12.024	E	10	G		1.4	14	CENTRAL ITALY. ML 3.0 (LDG).	
28	17	42	05.7	3.868	S	119.677	E	28		4.4	1.2	21	SULAWESI, INDONESIA	
28	17	47	18.7*	43.165	N	12.563	E	10	G		0.4	11	CENTRAL ITALY. ML 2.9 (LDG).	
28	17	55	55.3?	3.78	N	79.39	W	33	N		1.5	11	SOUTH OF PANAMA	
28	18	17	01.7	41.670	N	7.693	W	10	G		0.6	8	PORTUGAL. mbLg 2.8 (MDD).	
28	18	28	59.1*	61.490	N	150.754	W	67				42	SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC).	
28	18	54	14.8*	36.012	N	141.018	E	33	N		0.9	7	NEAR EAST COAST OF HONSHU, JAPAN	
28	19	11	34.8*	44.547	N	10.971	E	10	G		0.7	11	NORTHERN ITALY. ML 2.5 (LDG).	
28	19	44	53.6*	43.226	N	12.579	E	10	G		0.7	14	CENTRAL ITALY. ML 2.7 (LDG).	
28	20	07	50.8*	37.630	N	118.930	W	9				9	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.7 (GM).	
28	20	47	57.8*	19.747	S	11.908	W	10	G	4.6	0.9	14	SOUTHERN MID-ATLANTIC RIDGE	
28	21	15	43.6*	43.156	N	12.719	E	10	G		0.6	12	CENTRAL ITALY. ML 2.8 (LDG).	
28	21	34	54.7*	19.476	S	167.396	E	39	D	4.5	1.0	20	VANUATU ISLANDS REGION	
28	21	52	36.4	7.753	S	118.889	E	33	N	4.5	1.3	22	FLORES SEA. ML 5.1 (DJA).	
28	22	09	55.6*	12.101	N	120.690	E	33	N	4.8	4.3	1.3	27	MINDORO, PHILIPPINE ISLANDS
28	22	13	31.7*	12.059	N	120.774	E	33	N	4.4	0.9	12	MINDORO, PHILIPPINE ISLANDS	
28	22	32	21.3*	45.076	N	147.780	E	33	N	4.6	0.9	57	KURIL ISLANDS	
28	22	53	35.1*	43.363	N	12.200	E	10	G		1.1	11	CENTRAL ITALY. ML 3.0 (LDG).	
28	22	56	37.8*	59.597	N	152.267	W	88				38	SOUTHERN ALASKA. <AEIC>.	
28	23	13	13.9	22.407	S	68.449	W	107	D	5.7	0.9	291	NORTHERN CHILE. Mw 5.6 (GS), 5.6 (HRV). Felt (V) at Calama and Chuquicamata, (III) at San Pedro de Atacama and (II) at Antofagasta. Moment Tensor (GS): Dep 109; Principal axes (scale 10**17	

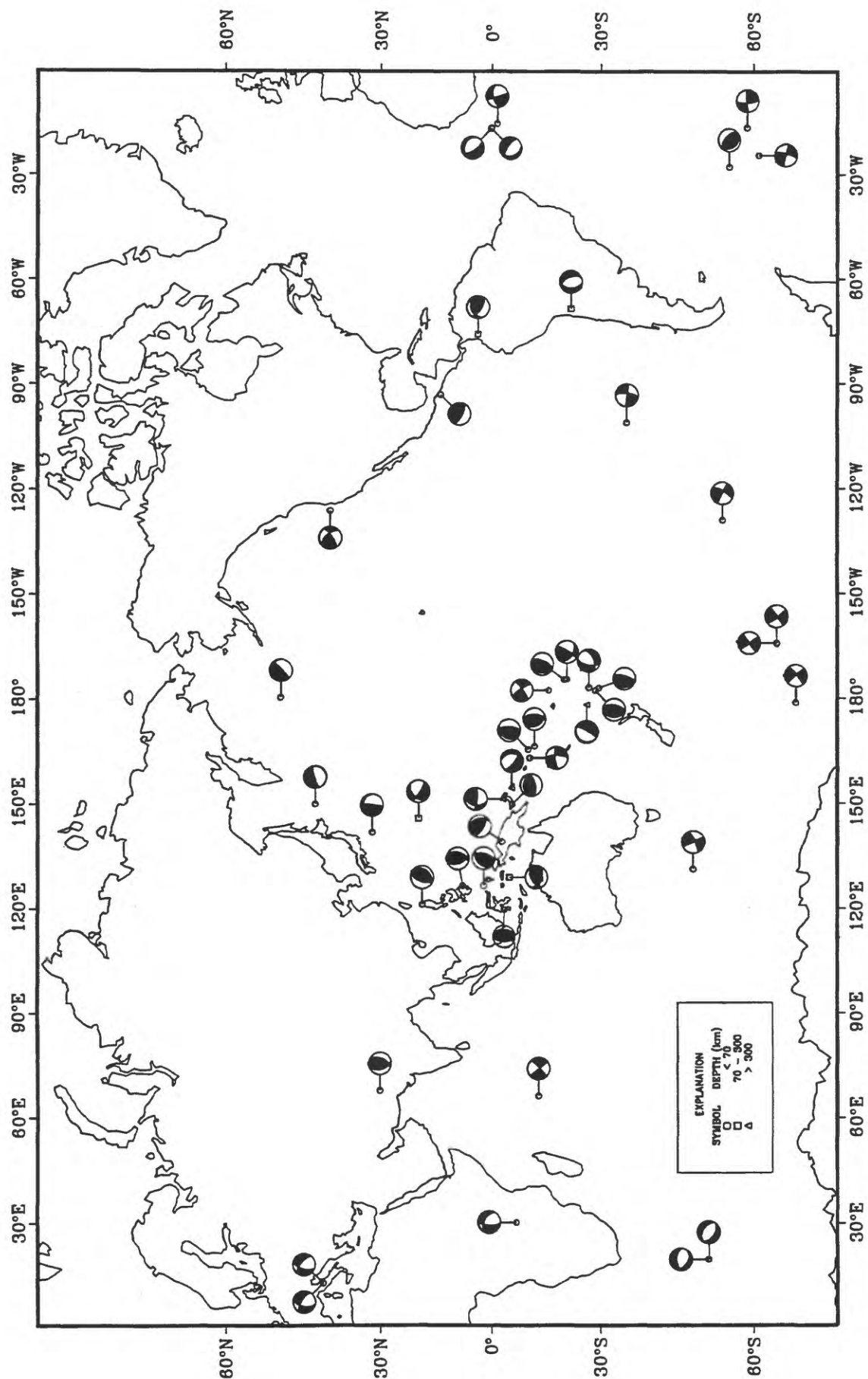
Nm): (T) Val=2.59, Plg=7, Azm=78; (N) Val=0.04, Plg=12, Azm=346; (P) Val=-2.64, Plg=76, Azm=196; Best double couple: Mo=2.6*10**17 Nm; NP1: Strike=181, Dip=40, Slip=-71; NP2: Strike=337, Dip=53, Slip=-105.

Centroid, Moment Tensor (HRV): Centroid origin time 23:13:24.5; Lat 22.22 S; Lon 68.31 W; Dep 146.3; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.68, Plg=10, Azm=257; (N) Val=-0.20, Plg=16, Azm=350; (P) Val=-2.48, Plg=71, Azm=137; Best double couple: Mo=2.6*10**17 Nm; NP1: Strike=328, Dip=38, Slip=-117; NP2: Strike=181, Dip=57, Slip=-71.

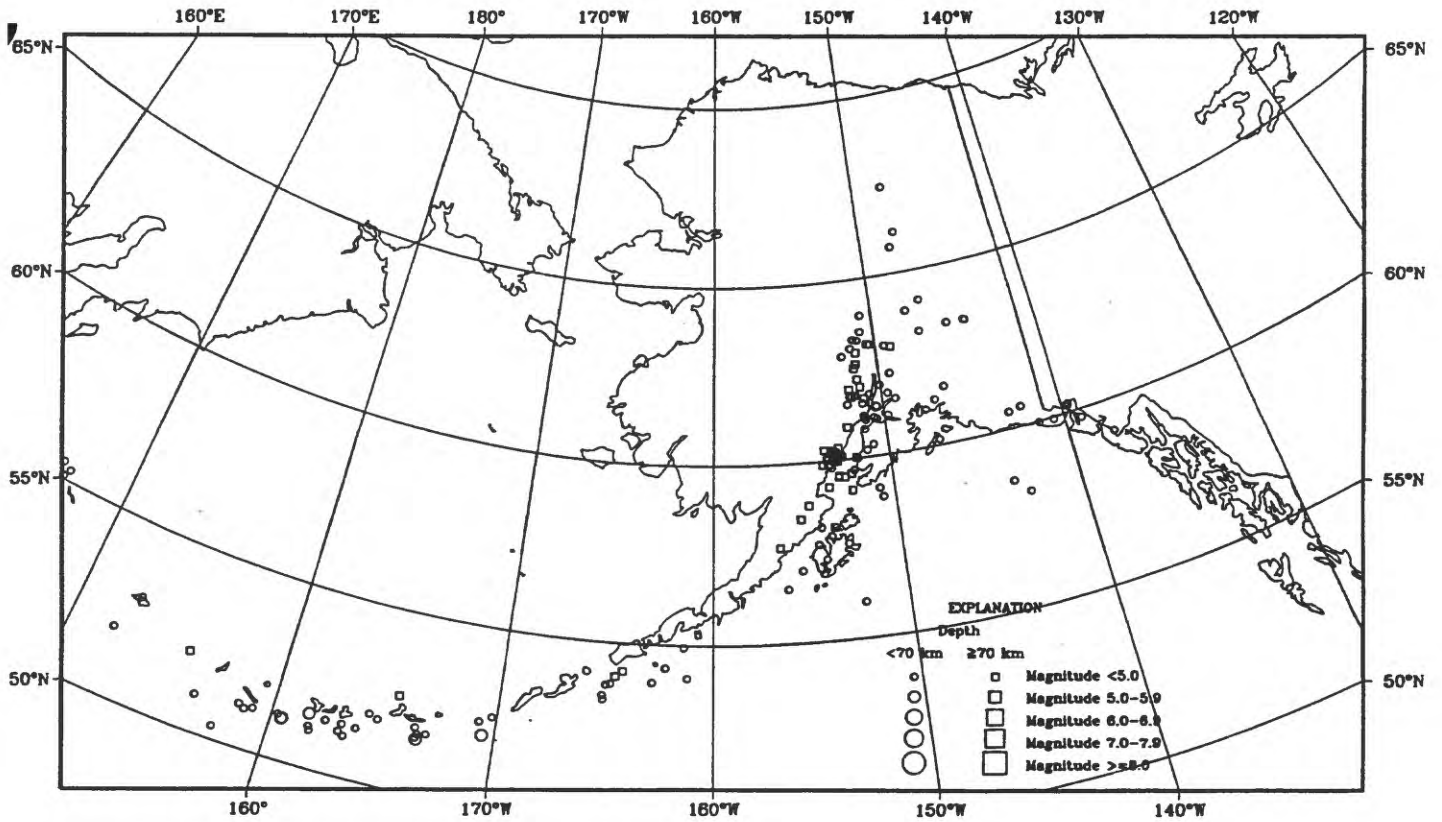
28	23	14	14.8?	12.08	N	141.60	E	33	N	0.8	6	SOUTH OF MARIANA ISLANDS	
28	23	16	28.1?	3.48	S	68.22	E	33	N	4.8	17	CHAGOS ARCHIPELAGO REGION	
28	23	19	17.3&	37.634	N	118.938	W	6			12	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.8 (GM). ML 3.2 (BRK).	
28	23	29	14.5&	38.994	S	175.444	E	100	G	1.0	9	NORTH ISLAND, NEW ZEALAND. Felt near Mount Ruapehu.	
28	23	44	23.6?	48.72	N	3.85	W	10	G	1.2	5	FRANCE. ML 2.5 (LDG).	
28	23	57	52.9	42.990	N	12.753	E	10	G	0.9	26	CENTRAL ITALY. ML 3.8 (VIE), 3.1 (LDG).	
29	00	08	38.0*	43.069	N	12.903	E	10	G	0.6	10	CENTRAL ITALY. ML 3.1 (LDG).	
29	00	15	06.0*	23.348	S	179.439	W	600	G	4.2	0.5	14	SOUTH OF FIJI ISLANDS
29	00	24	12.2	18.834	N	145.242	E	350	G	4.2	1.0	34	MARIANA ISLANDS
29	01	10	39.4?	40.40	N	25.57	E	10	G	0.9	8	AEGEAN SEA	
29	01	30	08.8&	45.425	N	6.490	E	5	G	0.3	5	FRANCE. ML 1.4 (LDG).	
29	02	17	50.5*	21.956	S	174.316	E	33	N	4.3	1.2	36	VANUATU ISLANDS REGION
29	02	51	51.8	43.055	N	12.675	E	10	G	1.1	22	CENTRAL ITALY. ML 3.0 (LDG).	
29	02	58	39.2*	42.934	N	13.018	E	10	G	0.5	11	CENTRAL ITALY. ML 2.8 (LDG).	
29	03	03	00.7*	43.059	N	12.676	E	10	G	1.1	17	CENTRAL ITALY. ML 3.2 (VIE), 3.0 (LDG).	
29	03	17	29.6*	18.483	N	146.709	E	100	G	4.2	1.1	21	MARIANA ISLANDS
29	03	21	27.7?	16.93	N	95.03	W	150	G	1.4	6	OAXACA, MEXICO	
29	03	42	11.5?	51.61	N	16.18	E	5	G	0.8	5	POLAND. MG 2.6 (WAR).	
29	03	45	23.9*	23.353	S	70.100	W	33	N	1.4	8	NEAR COAST OF NORTHERN CHILE	
29	03	52	36.3*	43.025	N	12.801	E	10	G	1.0	18	CENTRAL ITALY. ML 3.3 (VIE), 3.2 (LDG).	
29	05	37	49.0*	42.992	N	12.693	E	10	G	1.2	16	CENTRAL ITALY. ML 3.5 (VIE), 3.3 (LDG).	
29	05	41	00.1?	15.86	N	94.15	W	100	G	1.4	7	NEAR COAST OF OAXACA, MEXICO	
29	05	48	22.3*	22.093	S	179.665	W	600	G	4.2	1.2	28	SOUTH OF FIJI ISLANDS
29	06	43	43.9*	27.354	N	140.144	E	450	G	4.0	0.9	23	BONIN ISLANDS REGION
29	06	46	19.8	28.702	S	177.672	W	33	N	4.8	1.0	40	KERMADEC ISLANDS REGION
29	07	19	24.0*	43.130	N	12.728	E	10	G	0.6	11	CENTRAL ITALY. ML 3.2 (LDG).	
29	07	44	13.0?	1.17	S	137.50	E	100	G	3.8	1.0	9	NEAR NORTH COAST OF IRIAN JAYA
29	08	01	33.1	43.095	N	12.757	E	10	G	1.0	17	CENTRAL ITALY. ML 3.6 (VIE), 3.3 (LDG). MD 3.2 (ROM). Felt (IV) in the epicentral area.	
29	09	52	36.1	46.223	N	13.178	E	10	G	1.2	10	AUSTRIA. ML 2.7 (VIE).	
29	10	34	05.6?	30.55	S	178.40	W	33	N	4.6	1.0	7	KERMADEC ISLANDS, NEW ZEALAND
29	11	55	32.4&	61.378	N	150.398	W	10			28	SOUTHERN ALASKA. <AEIC>. ML 2.9 (AEIC), 3.0 (PMR).	
29	12	07	31.4	45.240	N	150.303	E	48	D	4.4	1.0	30	KURIL ISLANDS
29	13	14	13.7*	43.270	N	10.412	E	10	G	1.2	12	CENTRAL ITALY. ML 2.9 (LDG).	
29	13	29	15.6*	43.103	N	12.795	E	10	G	0.9	13	CENTRAL ITALY. ML 3.3 (LDG), 3.1 (VIE). MD 3.2 (ROM). Felt (IV) in the epicentral area.	
29	14	46	23.8	35.662	N	140.478	E	78	*	4.6	0.9	36	NEAR EAST COAST OF HONSHU, JAPAN
29	15	30	37.3?	1.95	S	121.46	E	33	N	4.0	1.3	7	SULAWESI, INDONESIA
29	15	47	17.4&	61.734	N	150.756	W	50			20	SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC).	
29	17	16	31.0	14.464	N	93.137	W	38		4.6 4.7	1.1	80	NEAR COAST OF CHIAPAS, MEXICO. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 17:16:35.9; Lat 14.53 N; Lon 93.24 W; Dep 48.3; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=8.02, Plg=75, Azm=76; (N) Val=1.18, Plg=12, Azm=292; (P) Val=-9.20, Plg=9, Azm=200; Best double couple: Mo=8.6*10**16 Nm; NP1: Strike=276, Dip=38, Slip=70; NP2: Strike=121, Dip=55, Slip=105.
29	17	35	51.0	20.197	N	145.807	E	70	D	5.3	1.0	152	MARIANA ISLANDS. Mw 5.6 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 17:35:53.3; Lat 20.24 N; Lon 146.06 E; Dep 54.9; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.49, Plg=21, Azm=182; (N) Val=-0.01, Plg=40, Azm=291; (P) Val=-2.48, Plg=43, Azm=71; Best double couple: Mo=2.5*10**17 Nm; NP1: Strike=227, Dip=42, Slip=161; NP2: Strike=122, Dip=77, Slip=49.
29	17	45	09.5&	38.700	N	77.500	W	5	G		7	VIRGINIA. <MACRO>. mbLg 2.5 (GS). Felt in the Manassas area.	
29	18	10	13.0	43.060	N	12.804	E	10	G	1.1	72	CENTRAL ITALY. ML 3.6 (VIE), 3.4 (LDG).	
29	18	25	34.3?	43.72	N	7.61	E	5	G	0.3	5	NEAR SOUTH COAST OF FRANCE. ML 1.8 (LDG).	
29	19	55	39.3&	18.031	N	67.011	W	10	G	0.6	7	MONA PASSAGE. MD 2.7 (MPR).	
29	20	11	53.9?	33.45	S	179.97	E	300	G	4.1	0.7	16	SOUTH OF KERMADEC ISLANDS
29	20	23	53.7?	43.65	N	127.99	W	10	G	0.9	23	OFF COAST OF OREGON	
29	20	54	10.4&	44.730	N	6.588	E	10	G	0.4	5	FRANCE. ML 1.8 (GEN).	
29	21	01	34.1	46.737	N	12.110	E	5	G	1.0	105	NORTHERN ITALY. ML 3.9 (GRF), 3.7 (VIE), 3.7 (STR), 3.6 (LDG), 3.5 (CLL), 3.4 (UCC). Felt (IV) at Sillian, Austria.	
29	21	35	28.2*	5.991	N	125.832	E	84	*	4.4	0.8	21	MINDANAO, PHILIPPINE ISLANDS
29	21	52	42.8	43.168	N	12.592	E	10	G	0.8	19	CENTRAL ITALY. ML 3.4 (VIE), 3.2 (LDG).	
29	22	05	00.4*	14.489	N	93.073	W	65	*	4.4	1.3	17	NEAR COAST OF CHIAPAS, MEXICO
29	22	38	15.1?	34.11	N	141.66	E	33	N	1.2	6	OFF EAST COAST OF HONSHU, JAPAN	
29	22	51	45.5	43.079	N	12.696	E	10	G	1.0	28	CENTRAL ITALY. ML 3.4 (VIE), 3.3 (LDG). MD 3.2 (ROM). Felt (IV) in the epicentral area.	
29	22	57	24.7*	41.517	N	141.921	E	100	G	1.0	16	HOKKAIDO, JAPAN REGION	
29	23	36	04.3*	0.440	S	98.069	E	33	N	3.5	0.9	12	SOUTHERN SUMATERA, INDONESIA
29	23	44	27.5?	37.09	N	15.65	E	10	G	0.6	10	SICILY	
29	23	51	20.7*	43.551	N	147.527	E	33	N	1.2	12	KURIL ISLANDS	
29	23	53	55.9?	43.25	N	6.63	E	5	G	0.2	4	NEAR SOUTH COAST OF FRANCE. ML 2.0 (LDG).	
30	00	37	32.7&	54.094	N	161.262	W	26			14	ALASKA PENINSULA. <AEIC>. ML 3.1 (AEIC).	
30	00	50	26.3*	18.633	N	145.815	E	200	G	4.1	0.8	15	MARIANA ISLANDS
30	00	53	42.2&	37.628	N	118.944	W	6			15	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.8 (GM).	
30	01	19	37.0&	57.680	N	156.465	W	111			41	ALASKA PENINSULA. <AEIC>.	
30	01	23	07.5?	43.24	N	6.65	E	5	G		4	NEAR SOUTH COAST OF FRANCE. ML 2.1 (LDG).	
30	01	46	30.5&	38.386	N	122.606	W	9			6	NORTHERN CALIFORNIA. <GM-P>. MD 2.9 (GM). ML 3.1 (BRK).	

30	03	04	59.2	46.347	N	0.043	E	20	G	0.7	21	FRANCE. ML 3.4 (STR), 3.0 (LDG).
30	03	21	03.7*	6.118	S	130.435	E	131	?	4.2	1.3	10 BANDA SEA
30	03	37	54.56	59.116	N	137.603	W	0			26	SOUTHEASTERN ALASKA. <AEIC>. ML 3.4 (AEIC), 3.4 (PGC).
30	03	45	31.4*	19.264	N	121.255	E	33	N		1.0	6 PHILIPPINE ISLANDS REGION
30	04	24	20.2*	42.973	N	12.665	E	10	G		1.0	17 CENTRAL ITALY. ML 3.5 (VIE). MD 3.2 (ROM). Felt (IV) in the epicentral area.
30	04	26	30.7*	30.062	S	177.734	W	33	N	4.9	1.2	41 KERMADec ISLANDS, NEW ZEALAND
30	05	52	50.3*	42.972	N	12.951	E	10	G		0.8	13 CENTRAL ITALY. ML 3.0 (LDG).
30	05	53	50.2*	6.903	S	148.016	E	33	N		1.1	7 NEW BRITAIN REGION, P.N.G.
30	06	16	48.1*	43.138	N	12.536	E	10	G		0.7	18 CENTRAL ITALY. ML 3.4 (VIE), 3.3 (LDG). MD 3.1 (ROM). Felt (IV) in the epicentral area.
30	06	27	24.7	31.959	N	141.878	E	10	G	5.5 6.5	1.1	245 SOUTH OF HONSHU, JAPAN. Mw 6.2 (GS), 6.2 (HRV). Me 5.8 (GS). Ms 6.5 (BRK). Broadband Source Parameters (GS): Radiated energy 1.2*10**13 Nm. Moment Tensor (GS): Dep 19; Principal axes (scale 10**18 Nm): (T) Val=-1.85, Plg=43, Azm=258; (N) Val=0.04, Plg=20, Azm=8; (P) Val=-1.89, Plg=40, Azm=117; Best double couple: Mo=1.9*10**18 Nm; NP1: Strike=273, Dip=21, Slip=175; NP2: Strike=8, Dip=88, Slip=69. Centroid, Moment Tensor (HRV): Centroid origin time 06:27:33.9; Lat 31.83 N; Lon 142.06 E; Dep 15.0 Fix; Half-duration 3.1 sec; Principal axes (scale 10**18 Nm): (T) Val=-2.05, Plg=68, Azm=273; (N) Val=0.09, Plg=2, Azm=177; (P) Val=-2.13, Plg=22, Azm=86; Best double couple: Mo=2.1*10**18 Nm; NP1: Strike=172, Dip=23, Slip=84; NP2: Strike=358, Dip=67, Slip=93.
30	06	37	01.5*	47.831	N	5.342	E	5	G		0.5	6 FRANCE. ML 2.3 (LDG).
30	06	37	35.9	31.830	N	141.865	E	10	G	4.9	0.9	46 SOUTH OF HONSHU, JAPAN
30	06	51	28.2*	51.07	N	178.22	W	33	N		0.2	5 ANDREANOF ISLANDS, ALEUTIAN IS.
30	06	52	33.4*	36.315	N	69.255	E	60	?		1.4	13 HINDU KUSH REGION, AFGHANISTAN
30	07	13	25.0*	35.723	N	134.673	E	310	*		0.8	7 WESTERN HONSHU, JAPAN
30	07	19	13.0*	1.02	S	137.52	E	33	N	3.9	1.1	8 NEAR NORTH COAST OF IRIAN JAYA
30	07	25	11.2*	33.358	N	140.801	E	62	D	4.4	1.0	13 SOUTH OF HONSHU, JAPAN
30	07	58	55.0	49.224	N	6.929	E	10	G		0.8	11 GERMANY. ML 2.9 (UCC), 2.9 (DBN). Mining induced event in the Lorraine region, France.
30	08	12	32.9*	7.27	S	129.75	E	160	?		1.3	6 BANDA SEA
30	09	28	47.5	19.108	N	145.774	E	91	D	5.1	1.1	117 MARIANA ISLANDS
30	10	24	39.3*	27.417	S	71.086	W	33	N		1.4	13 NEAR COAST OF NORTHERN CHILE. Felt (III) at Caldera and Copiapo; (II) at Tierra Amarilla.
30	10	55	55.2*	31.740	N	141.342	E	10	G	3.8	1.3	10 SOUTH OF HONSHU, JAPAN
30	11	10	13.1*	29.462	N	141.225	E	33	N		0.6	12 SOUTH OF HONSHU, JAPAN
30	12	13	32.6*	9.475	S	117.483	E	33	N	3.8	1.2	7 SUMBAWA REGION, INDONESIA
30	12	39	10.7*	31.776	N	141.725	E	10	G	4.0	1.1	15 SOUTH OF HONSHU, JAPAN
30	13	15	08.6	23.960	S	66.427	W	229		4.0	1.0	29 JUJUY PROVINCE, ARGENTINA
30	13	27	00.1*	14.18	N	93.38	W	33	N	4.5	1.5	19 NEAR COAST OF CHIAPAS, MEXICO
30	14	04	03.16	54.226	N	164.373	W	76			1.4	14 UNIMAK ISLAND REGION. <AEIC>.
30	14	22	21.4	44.336	N	7.233	E	10	G		0.8	20 NORTHERN ITALY. ML 2.6 (GEN), 2.5 (LDG).
30	14	27	08.4*	45.767	N	15.548	E	10	G		1.2	5 NORTHWESTERN BALKAN REGION. ML 1.1 (LJU).
30	14	36	40.8*	46.440	N	1.495	E	20	G		1.1	6 FRANCE. ML 2.3 (LDG).
30	15	12	54.8*	42.776	N	7.208	W	10	G		0.6	5 SPAIN. mbLg 3.0 (MDD). Felt (II) in the Sarria-Becerrea area.
30	15	13	20.5*	42.79	N	7.17	W	10	G		0.1	4 SPAIN. mbLg 2.5 (MDD). Felt (II) in the Sarria-Becerrea area.
30	15	13	58.8*	42.778	N	7.156	W	10	G		0.8	5 SPAIN. mbLg 2.9 (MDD). Felt (II) in the Sarria-Becerrea area.
30	17	09	04.5*	46.48	N	155.66	E	33	N		1.2	10 EAST OF KURIL ISLANDS
30	19	06	33.4*	22.481	N	121.628	E	74	?		1.3	17 TAIWAN REGION
30	19	36	53.2	13.194	S	77.230	W	33	N	4.5	1.1	32 OFF COAST OF PERU
30	20	22	21.2	31.806	N	141.597	E	10	G	5.0 4.8	0.9	105 SOUTH OF HONSHU, JAPAN. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 20:22:26.5; Lat 31.74 N; Lon 141.90 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=-9.55, Plg=76, Azm=247; (N) Val=0.17, Plg=4, Azm=352; (P) Val=-9.72, Plg=13, Azm=83; Best double couple: Mo=9.6*10**16 Nm; NP1: Strike=178, Dip=32, Slip=97; NP2: Strike=350, Dip=58, Slip=86.
30	20	25	15.3*	31.74	N	141.69	E	10	G	4.2	1.6	6 SOUTH OF HONSHU, JAPAN
30	21	55	40.3*	37.84	N	17.95	W	10	G		1.3	19 NORTH ATLANTIC OCEAN. mbLg 3.2 (MDD).
30	22	18	48.8	43.131	N	12.695	E	10	G		1.1	24 CENTRAL ITALY. ML 3.3 (VIE), 2.9 (LDG).
30	23	40	15.9*	42.999	N	12.738	E	10	G		1.3	20 CENTRAL ITALY. ML 3.2 (VIE), 2.8 (LDG).

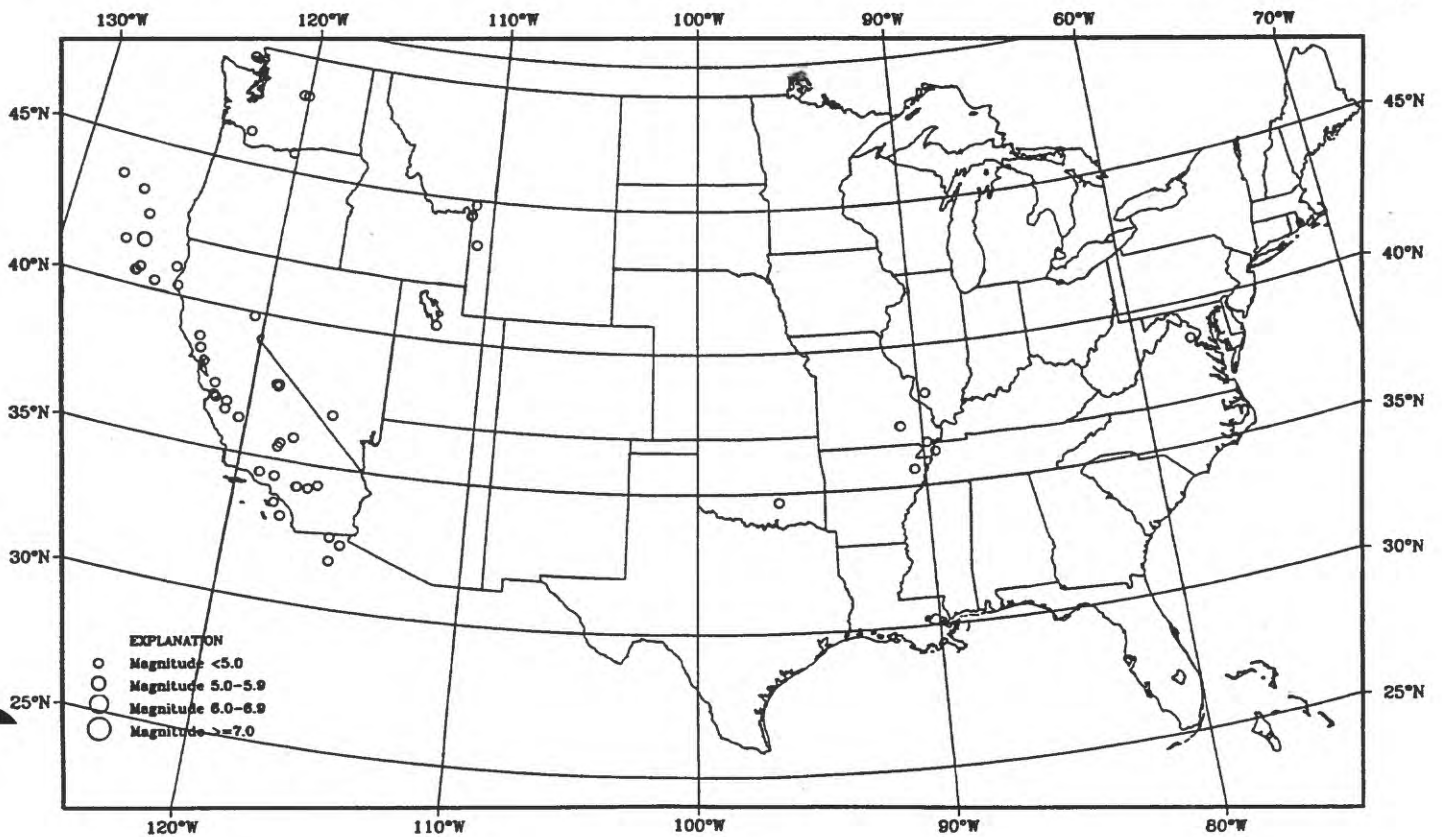
Earthquake Focal Mechanisms for September 1997



Earthquake epicenters in Alaska and adjacent regions for September 1997



Earthquake epicenters in the conterminous United States and adjacent regions for September 1997



Earthquakes located worldwide in September 1997

