

U.S. DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY

**PRELIMINARY DETERMINATION OF EPICENTERS
MONTHLY LISTING**

JULY-SEPTEMBER 1999

NATIONAL EARTHQUAKE INFORMATION CENTER

Open-File Report

99-600-C



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2000

Preliminary Determination of Epicenters

Monthly Listing

National Earthquake Information Center

JULY 1999

ORIGIN TIME			GEOGRAPHIC		DEPTH	MAGNITUDE	SD	NO.	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS	
UTC			COORDINATES			GS		STA		
DAY	HR	MN	SEC	LAT	LONG	MB	MsZ	USED		
01	02	06	58.3	70.386 N	15.152 W	10 G	4.9 5.6	1.0	137	JAN MAYEN ISLAND REGION. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 02:07:03.9; Lat 70.16 N; Lon 14.36 W; Dep 15.0 Fix; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.04, Plg=24, Azm=290; (N) Val=0.12, Plg=7, Azm=24; (P) Val=-2.16, Plg=64, Azm=128; Best double couple: Mo=2.1*10**17 Nm; NP1: Strike=6, Dip=21, Slip=-109; NP2: Strike=206, Dip=70, Slip=-83. Scalar Moment (PPT): Mo=4.0*10**17 Nm.
01	02	08	02.0	70.280 N	15.351 W	10 G	4.9	1.2	63	JAN MAYEN ISLAND REGION. Mw 5.7 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 02:08:04.3; Lat 70.52 N; Lon 14.57 W; Dep 15.0 Fix; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=3.35, Plg=17, Azm=340; (N) Val=0.59, Plg=0, Azm=70; (P) Val=-3.94, Plg=73, Azm=160; Best double couple: Mo=3.7*10**17 Nm; NP1: Strike=69, Dip=28, Slip=-90; NP2: Strike=250, Dip=62, Slip=-90.
01	02	54	29.7	36.810 N	2.920 W	0			5	STRAIT OF GIBRALTAR. <MDD>. mbLg 1.9 (MDD).
01	02	55	02.2	33.426 S	72.461 W	33			10	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
01	02	57	46.6	44.322 N	7.322 E	12			24	NORTHERN ITALY. <GEN>. ML 2.4 (GEN), 2.1 (STR), 1.9 (LDG).
01	03	07	08.8	11.470 N	86.869 W	135 ?	4.5	0.9	33	NEAR COAST OF NICARAGUA
01	03	16	10.3	35.370 S	71.839 W	69			9	CENTRAL CHILE. <GUC>. MD 3.2 (GUC).
01	03	20	42.7	70.343 N	15.277 W	10 G	4.9 5.0	1.0	110	JAN MAYEN ISLAND REGION. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 03:20:48.1; Lat 69.89 N; Lon 15.63 W; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.38, Plg=20, Azm=88; (N) Val=2.47, Plg=28, Azm=347; (P) Val=-8.85, Plg=55, Azm=208; Best double couple: Mo=7.6*10**16 Nm; NP1: Strike=215, Dip=35, Slip=-36; NP2: Strike=336, Dip=70, Slip=-120.
01	03	39	44.7	44.296 N	7.302 E	13			4	NORTHERN ITALY. <GEN>. ML 1.6 (GEN).
01	04	22	19.1	32.879 N	93.696 E	33 N	4.7 4.5	1.0	35	XIZANG
01	04	33	16.0	42.32 N	141.84 E	33 N	4.4	1.2	9	HOKKAIDO, JAPAN REGION. Felt (I JMA) in parts of southern Hokkaido. Also felt (I JMA) in eastern Aomori Prefecture, Honshu.
01	06	54	24.7	44.658 N	7.170 E	11			5	NORTHERN ITALY. <GEN>. ML 1.9 (GEN).
01	07	25	32.8	46.253 N	13.644 E	10 G		1.5	13	AUSTRIA. ML 2.7 (VIE), 2.0 (LJU). Felt (IV) at Bovec, Slovenia.
01	07	40	56.4	43.694 N	20.992 E	10 G	4.9 4.8	1.2	257	NORTHWESTERN BALKAN REGION. Mw 5.2 (HRV). MD 5.0 (PD?). ML 4.5 (LJU). Several roofs collapsed (VII) in the Milutovac-Medveda area and some damage to chimneys at Trstenik, Serbia. Felt in the Belgrade area, Serbia. Also felt (IV) in the Skopje area, former Yugoslav Republic of Macedonia. Centroid, Moment Tensor (HRV): Centroid origin time 07:41:03.5; Lat 43.58 N; Lon 21.01 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=7.53, Plg=19, Azm=341; (N) Val=-1.40, Plg=41, Azm=233; (P) Val=-6.14, Plg=43, Azm=90; Best double couple: Mo=6.8*10**16 Nm; NP1: Strike=116, Dip=44, Slip=-20; NP2: Strike=221, Dip=76, Slip=-132.
01	08	28	30.3	39.627 N	29.407 E	7			5	TURKEY. <ISK>. MD 2.7 (ISK).
01	08	41	20.5	39.638 N	29.425 E	10 G			5	TURKEY. <ISK>. MD 2.7 (ISK).
01	08	44	24.2	40.291 N	31.027 E	10 G			4	TURKEY. <ISK>. MD 2.6 (ISK).
01	10	17	22.2	49.637 N	6.985 E	10 G		0.3	5	GERMANY. ML 2.0 (FBB).
01	10	55	28.1	39.550 N	30.028 E	10 G			4	TURKEY. <ISK>. MD 2.6 (ISK).
01	11	12	37.4	42.306 N	142.317 E	33 N	4.7 3.7	0.8	34	HOKKAIDO, JAPAN REGION. Felt (II JMA) in the epicentral area.
01	11	57	48.2	45.329 N	13.279 E	10 G		1.0	8	NORTHERN ITALY. ML 2.9 (VIE).
01	12	23	04.1	9.084 S	111.264 E	33 N	4.2	1.1	9	SOUTH OF JAVA, INDONESIA
01	12	37	14.4	36.627 N	71.307 E	204 ?		1.2	12	AFGHANISTAN-TAJIKISTAN BORD REG.
01	12	43	07.8	35.096 N	118.306 W	7			43	CENTRAL CALIFORNIA. <PAS-P>. ML 3.9 (PAS). Felt in the

01	13	17	45.1*	45.557 N	13.268 E	10 G	1.5	10	Tehachapi Mountains.
01	13	26	42.4&	39.012 N	27.504 E	10 G		5	NORTHERN ITALY. ML 3.0 (VIE).
01	13	45	06.5&	32.831 S	70.879 W	74		10	TURKEY. <ISK>. MD 2.6 (ISK).
01	14	24	28.7&	40.701 N	29.991 E	9		7	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
01	14	32	25.2*	45.366 N	13.228 E	10 G	0.8	10	TURKEY. <ISK>. MD 2.9 (ISK).
01	15	11	36.7&	39.136 N	27.655 E	10 G		4	NORTHERN ITALY. ML 3.0 (VIE).
01	15	45	05.7*	45.438 N	13.319 E	10 G	0.4	9	TURKEY. <ISK>. MD 2.6 (ISK).
01	15	59	29.9*	46.210 N	15.822 E	10 G	1.0	7	NORTHERN ITALY. ML 2.8 (VIE).
01	16	27	09.6*	48.005 N	15.380 E	5 G	1.3	5	NORTHWESTERN BALKAN REGION. ML 2.3 (VIE), 1.7 (LJJI).
01	16	42	33.6*	5.221 S	145.026 E	33 N	1.4	6	AUSTRIA. ML 2.4 (VIE).
01	17	00	21.5	53.337 N	170.101 E	33 N	4.8 4.3	0.9	EASTERN NEW GUINEA REG., P.N.G.
01	17	09	53.7	6.604 S	148.775 E	51 *	4.8 4.2	0.9	103 NEAR ISLANDS, ALEUTIAN ISLANDS. ML 4.7 (PMR).
01	17	12	50.4&	38.170 N	26.750 E	27		13	NEW BRITAIN REGION, P.N.G.
01	17	23	49.2*	19.340 N	105.904 W	33 N	4.3	1.1	13 AEGEAN SEA. <ATH>. MD 3.7 (ATH), 3.3 (ISK).
01	17	34	57.1*	53.332 N	35.354 W	10 G	4.6 4.1	1.2	27 NEAR COAST OF JALISCO, MEXICO
01	18	25	50.7&	37.150 N	29.374 E	10 G		8	29 NORTH ATLANTIC OCEAN
01	18	47	01.7*	19.238 N	121.086 E	33 N	4.5	1.4	8 TURKEY. <ISK>. MD 3.2 (ISK).
01	18	56	04.0	59.050 S	25.718 W	33 N	4.8	0.9	14 PHILIPPINE ISLANDS REGION
01	19	03	06.5	9.579 N	138.309 E	33 N	4.8 4.2	0.9	30 SOUTH SANDWICH ISLANDS REGION
01	19	17	09.6?	35.86 N	140.92 E	72 ?		1.0	21 WESTERN CAROLINE ISLANDS
01	19	26	28.1*	46.281 N	152.978 E	33 N	4.5 4.0	1.2	8 NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) in northern Ibaraki Prefecture.
01	19	45	44.1	11.048 N	125.833 E	59 *	4.5	1.0	24 KURIL ISLANDS
01	19	52	12.8	36.050 N	31.166 E	30	3.8	1.0	22 SAMAR, PHILIPPINE ISLANDS
01	19	52	19.1&	59.890 N	153.560 W	136	3.1		31 TURKEY. MD 3.9 (ISK).
01	20	29	31.8?	27.26 S	67.58 W	200 G		1.1	40 SOUTHERN ALASKA. <AEIC>.
01	20	50	11.7&	31.726 S	72.053 W	26			18 CATAMARCA PROVINCE, ARGENTINA
01	21	23	49.5&	43.060 N	0.090 W	8			9 OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).
01	21	42	41.0?	51.99 N	177.97 E	107 ?	4.2	0.7	12 PYRENEES. <STR>. ML 2.3 (STR), 2.3 (LDG).
01	22	16	55.5&	46.200 N	7.200 E	3			10 RAT ISLANDS, ALEUTIAN ISLANDS
01	22	53	20.6?	53.57 N	35.20 W	10 G		1.3	11 SWITZERLAND. <LDG>. ML 2.3 (LDG), 2.2 (STR).
01	23	29	27.2&	45.450 N	3.790 E	2			6 NORTH ATLANTIC OCEAN
02	00	14	25.7&	38.190 N	26.800 E	24			18 FRANCE. <STR>. ML 2.6 (STR), 2.4 (LDG).
02	01	25	21.9*	15.967 S	71.968 W	115 ?	4.4	1.1	6 AEGEAN SEA. <ATH>. MD 3.6 (ATH).
02	01	25	52.7&	38.584 N	27.413 E	10 G			23 SOUTHERN PERU. Felt (III) at Aplao and (II) at Arequipa and Camana.
02	01	26	51.8&	38.648 N	27.574 E	3			11 TURKEY. <ISK>. MD 3.1 (ISK).
02	01	42	29.3?	31.73 S	69.39 W	100 G		1.1	6 TURKEY. <ISK>. MD 3.1 (ISK).
02	01	52	09.5*	25.076 N	45.625 W	10 G	4.3	0.7	13 SAN JUAN PROVINCE, ARGENTINA. MD 3.6 (GUC).
02	02	57	39.2&	11.383 N	61.790 W	16			16 NORTHERN MID-ATLANTIC RIDGE
02	03	02	46.6&	60.300 N	152.740 W	113			4 WINDWARD ISLANDS. <TRN>. MD 3.0 (TRN).
02	03	14	40.4	43.740 N	21.189 E	10 G		0.9	27 SOUTHERN ALASKA. <AEIC>.
02	03	36	34.5&	38.666 N	27.606 E	10 G			23 NORTHWESTERN BALKAN REGION. MD 3.3 (PDG).
02	03	40	50.9&	36.260 N	28.430 E	64			5 TURKEY. <ISK>. MD 2.9 (ISK).
02	03	52	56.5*	6.550 S	143.895 E	33 N	4.2	1.3	15 DODECANESE ISLANDS. <ATH>. MD 3.1 (ISK).
02	04	10	20.3&	44.853 N	7.206 E	8			6 NEW GUINEA, PAPUA NEW GUINEA
02	04	24	01.9&	36.779 N	29.351 E	10 G			4 NORTHERN ITALY. <GEN>. ML 1.8 (GEN).
02	04	35	38.8&	36.680 N	7.620 W	2			5 TURKEY. <ISK>. MD 3.0 (ISK).
02	05	20	07.8&	31.816 S	71.363 W	43			9 STRAIT OF GIBRALTAR. <MDD>. mblg 2.3 (MDD).
02	05	22	19.0&	47.360 N	122.380 W	27			8 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
02	06	08	01.6&	32.707 S	71.735 W	26			16 WASHINGTON. <SEA-P>. MD 3.1 (SEA). ML 2.8 (PGC). Felt in the Bremerton-Seattle-Tacoma area and as far north as Monroe.
02	06	44	17.2	5.436 N	126.744 E	33 N	4.6 3.6	0.9	10 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
02	07	02	32.9&	32.696 S	71.714 W	31			29 MINDANAO, PHILIPPINE ISLANDS
02	07	20	13.8?	6.26 S	105.46 E	33 N	4.7	0.9	10 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
02	07	20	22.8&	35.870 N	33.940 E	33 N			6 SUNDA STRAIT
02	07	23	49.1?	18.87 S	169.35 E	231	4.1	1.0	9 CYPRUS REGION. <ISK>. MD 3.7 (ISK).
02	07	33	44.7&	35.805 N	33.948 E	33 N			11 VANUATU ISLANDS
02	07	43	59.9&	39.637 N	29.437 E	8			9 CYPRUS REGION. <ISK>. MD 3.7 (ISK). ML 3.6 (CSS).
02	07	45	13.6&	54.240 N	161.570 W	20			7 TURKEY. <ISK>. MD 2.6 (ISK).
02	08	08	19.9&	14.219 N	92.121 W	20			13 ALASKA PENINSULA. <AEIC>. ML 2.8 (AEIC).
02	08	42	13.4	7.633 S	154.716 E	26 D	5.1 4.5	0.8	7 NEAR COAST OF CHIAPAS, MEXICO. <UNM>. MD 4.2 (UNM).
02	08	50	40.9&	39.217 N	27.562 E	5			47 SOLOMON ISLANDS
02	08	57	35.3&	15.881 N	93.470 W	94			7 TURKEY. <ISK>. MD 2.8 (ISK).
02	09	05	09.3&	15.926 N	97.236 W	30			6 NEAR COAST OF CHIAPAS, MEXICO. <UNM>. MD 4.1 (UNM).
02	09	08	30.9&	39.220 N	27.720 E	5			6 NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 3.5 (UNM).
02	09	50	37.5&	39.580 N	30.277 E	10 G			6 TURKEY. <ISK>. MD 2.7 (ISK).
02	09	53	39.0&	44.300 N	7.500 E	5			4 TURKEY. <ISK>. MD 2.7 (ISK).
02	09	57	06.1&	39.428 N	28.150 E	10			6 NORTHERN ITALY. <LDG>. ML 2.0 (LDG).
02	10	05	53.0?	3.10 S	151.01 E	33 N	4.3	1.4	4 TURKEY. <ISK>. MD 2.6 (ISK).
02	10	33	40.9?	18.83 S	169.53 E	270 *	4.2	0.6	5 NEW IRELAND REGION, P.N.G.
02	10	48	48.4&	15.941 N	93.938 W	46			8 VANUATU ISLANDS
02	11	14	44.7*	45.322 N	13.126 E	10 G		0.4	11 NEAR COAST OF CHIAPAS, MEXICO. <UNM>. MD 4.1 (UNM).
02	11	17	53.8&	18.303 N	97.671 W	90			8 NORTHERN ITALY. ML 3.1 (VIE).
02	11	45	31.2	49.371 N	129.204 W	10 G	5.4 5.7	1.0	10 CENTRAL MEXICO. <UNM>. MD 3.9 (UNM).
02	12	30	14.3*	9.639 S	147.729 E	33 N	4.6	1.1	223 VANCOUVER ISLAND REGION. Mw 6.0 (GS), 5.9 (HRV). Me 6.4 (GS). Broadband Source Parameters (GS): Dep 7; NP1: Strike=324, Dip=90, Slip=178; NP2: Strike=54, Dip=88, Slip=0; Radiated energy 7.5*10**13 Nm.
									Moment Tensor (GS): Dep 12; Principal axes (scale 10**18 Nm): (T) Val=0.99, Plg=8, Azm=92; (N) Val=0.11, Plg=82, Azm=252; (P) Val=-1.10, Plg=3, Azm=2; Best double couple: Mo=1.0*10**18 Nm; NP1: Strike=137, Dip=83, Slip=177; NP2: Strike=227, Dip=87, Slip=7.
									Centroid, Moment Tensor (HRV): Centroid origin time 11:45:34.0; Lat 49.13 N; Lon 129.38 W; Dep 15.0 Fix; Half duration 2.1 sec; Principal axes (scale 10**17 Nm): (T) Val=7.72, Plg=10, Azm=271; (N) Val=-0.59, Plg=80, Azm=70; (P) Val=-7.13, Plg=4, Azm=180; Best double couple: Mo=7.4*10**17 Nm; NP1: Strike=315, Dip=81, Slip=176; NP2: Strike=46, Dip=86, Slip=10.
									Scalar Moment (PPT): Mo=1.3*10**18 Nm.
									EASTERN NEW GUINEA REG., P.N.G.

02	12	57	34.6?	58.97	S	28.86	W	33	N	4.3	1.5	9	SOUTH SANDWICH ISLANDS REGION
02	13	40	36.4	41.248	N	19.713	E	17			11	11	ALBANIA. <PDG>. MD 2.6 (PDG).
02	13	48	54.3?	3.92	S	151.98	E	76	*	4.1	1.0	6	NEW IRELAND REGION, P.N.G.
02	14	09	27.6	15.916	N	99.036	W	8			8	8	OFF COAST OF GUERRERO, MEXICO. <UNM>. MD 4.0 (UNM).
02	15	15	08.7	39.114	N	27.676	E	10	G		5	5	TURKEY. <ISK>. MD 2.6 (ISK).
02	15	16	48.6	39.168	N	27.525	E	10	G		4	4	TURKEY. <ISK>. MD 2.7 (ISK).
02	15	26	30.1	38.987	N	27.651	E	10	G		5	5	TURKEY. <ISK>. MD 2.7 (ISK).
02	16	03	02.5*	46.106	N	150.949	E	121	*	4.4	1.1	55	KURIL ISLANDS
02	16	03	36.0	46.012	N	11.825	E	10	G		0.7	21	NORTHERN ITALY. ML 3.0 (VIE), 2.7 (LDG).
02	16	10	07.2	21.169	N	120.131	E	10	G	4.1	1.0	18	TAIWAN REGION
02	16	15	03.0*	21.310	N	120.301	E	10	G	3.8	0.3	5	TAIWAN REGION
02	16	18	32.2?	38.03	N	74.96	E	179	?	4.2	1.5	11	TAJIKISTAN-XINJIANG BORDER REG.
02	16	26	56.0	45.758	N	26.870	E	33	N		0.6	5	ROMANIA
02	16	32	33.4	37.650	N	21.390	E	26			7	7	SOUTHERN GREECE. <ATH>. ML 3.3 (ATH).
02	16	34	50.7	17.809	N	66.906	W	34			8	8	PUERTO RICO REGION. <MPR>. MD 2.7 (MPR).
02	17	12	21.1	45.177	N	12.862	E	10	G		0.7	11	NORTHERN ITALY. ML 3.1 (VIE). MD 2.5 (LJU).
02	17	21	20.7*	3.748	S	151.322	E	10	G	4.4	1.5	13	NEW IRELAND REGION, P.N.G.
02	17	21	39.0	63.360	N	147.700	W	75			16	16	CENTRAL ALASKA. <AEIC>.
02	17	40	53.7	37.290	N	2.240	W	16			6	6	SPAIN. <MDD>. mbLg 2.4 (MDD).
02	18	29	40.0	10.224	S	161.298	E	64	D	5.1	0.8	57	SOLOMON ISLANDS
02	18	34	24.6	63.370	N	151.420	W	63			17	17	CENTRAL ALASKA. <AEIC>. ML 2.7 (AEIC).
02	18	38	01.3	63.230	N	150.480	W	126			31	31	CENTRAL ALASKA. <AEIC>.
02	18	52	43.7	13.628	N	60.958	W	44			8	8	WINDWARD ISLANDS. <TRN>. MD 2.7 (TRN), 2.4 (FDF).
02	20	09	20.3?	14.94	S	167.30	E	144	?	4.5	1.1	44	VANUATU ISLANDS
02	20	10	24.8*	7.699	S	128.042	E	33	N	3.9	1.5	8	BANDA SEA
02	20	23	20.8*	8.070	S	129.051	E	33	N	4.3	1.2	9	TIMOR SEA
02	21	43	31.8*	50.430	N	18.778	E	5	G		1.2	7	POLAND. ML 2.9 (CLL).
02	21	50	37.8*	9.257	S	120.555	E	177	*	4.5	0.7	10	SUMBA REGION, INDONESIA
02	22	17	30.7*	6.580	S	128.597	E	33	N	4.6	1.2	18	BANDA SEA
02	22	36	00.8	38.749	N	27.359	E	5			6	6	TURKEY. <ISK>. MD 2.9 (ISK).
02	23	14	39.2	60.130	N	153.420	W	145			30	30	SOUTHERN ALASKA. <AEIC>.
02	23	23	36.4	36.255	N	10.620	W	10	G		0.6	22	NORTH ATLANTIC OCEAN. mbLg 2.7 (MDD).
03	00	04	04.9*	25.889	N	143.373	E	33	N	4.0	0.8	9	VOLCANO ISLANDS REGION
03	00	11	09.4	36.527	N	70.973	E	199	D	4.1	0.9	51	HINDU KUSH REGION, AFGHANISTAN
03	00	33	20.9*	29.457	N	52.334	E	33	N	4.1	1.4	16	SOUTHERN IRAN
03	00	39	25.8	40.667	N	33.051	E	10	G	4.0		58	TURKEY. <ISK>. MD 3.9 (ISK).
03	01	21	21.1	19.050	N	66.852	W	34			6	6	PUERTO RICO REGION. <MPR>. MD 2.9 (MPR).
03	01	22	22.9	2.017	N	127.261	E	33	N	4.4	0.6	11	NORTHERN MOLUCCA SEA
03	01	26	46.5	37.175	N	118.377	W	14			8	8	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.0 (GM).
03	01	34	13.9	36.750	N	2.880	W	0			7	7	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.2 (MDD).
03	01	43	54.0	47.076	N	123.463	W	41		5.4 5.5	380	380	WASHINGTON. <SEA-P>. Mw 5.8 (GS), 5.8 (HRV). Me 5.3 (GS). Seven people injured in the Aberdeen-Satsop area and one person injured at Olympia. Damage (VII) at Aberdeen and Montesano. Slight damage (VI) at Brady, Central Park, Cosmopolis, Elma, Hoquiam, McCleary, Ocean Shores and Shelton. Felt (V) at many locations including Olympia, Seattle and Tacoma. Felt throughout western Washington and as far south as Portland and Tillamook, Oregon. Felt north as far as Nanaimo, Sidney, Vancouver and Victoria, British Columbia. Broadband Source Parameters (GS): Dep 41; NP1: Strike=345, Dip=70, Slip=-95; NP2: Strike=179, Dip=21, Slip=-77; Radiated energy 2.0*10**12 Nm. Moment Tensor (GS): Dep 50; Principal axes (scale 10**17 Nm): (T) Val=6.63, Plg=15, Azm=80; (N) Val=-0.06, Plg=16, Azm=345; (P) Val=-6.58, Plg=67, Azm=210; Best double couple: Mo=6.6*10**17 Nm; NP1: Strike=192, Dip=33, Slip=-59; NP2: Strike=336, Dip=62, Slip=-109. Centroid, Moment Tensor (HRV): Centroid origin time 01:43:57.4; Lat 47.10 N; Lon 123.43 W; Dep 45.0 Bdy; Half-duration 2.0 sec; Principal axes (scale 10**17 Nm): (T) Val=6.26, Plg=14, Azm=88; (N) Val=0.09, Plg=16, Azm=354; (P) Val=-6.36, Plg=69, Azm=218; Best double couple: Mo=6.3*10**17 Nm; NP1: Strike=199, Dip=34, Slip=-61; NP2: Strike=345, Dip=61, Slip=-108. Scalar Moment (PPT): Mo=3.4*10**17 Nm.
03	01	48	52.5*	19.127	S	169.377	E	224		4.5	0.6	12	VANUATU ISLANDS
03	01	58	59.0	34.434	N	32.004	E	25			6	6	CYPRUS REGION. <CSS>. ML 2.8 (CSS).
03	02	19	39.9	38.625	N	29.018	E	9			5	5	TURKEY. <ISK>. MD 2.7 (ISK).
03	03	00	57.2	51.546	N	16.141	E	5	G		0.5	13	POLAND. ML 3.2 (GRF), 3.2 (VIE).
03	03	16	23.0	63.700	N	149.533	W	107			35	35	CENTRAL ALASKA. <AEIC>.
03	03	23	08.6?	40.73	N	77.11	E	33	N	4.0	1.5	8	KYRGYZSTAN-XINJIANG BORDER REG.
03	04	02	36.0	55.060	N	159.300	W	8			14	14	ALASKA PENINSULA. <AEIC>. ML 3.5 (AEIC).
03	04	11	41.5?	57.32	N	163.22	E	33	N	4.4	1.4	8	NEAR EAST COAST OF KAMCHATKA
03	05	03	43.5	56.076	N	164.639	E	33	N	5.1 4.9	0.9	267	KOMANDORSKY ISLANDS REGION. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 05:03:45.3; Lat 56.23 N; Lon 164.66 E; Dep 29.2; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=1.93, Plg=7, Azm=258; (N) Val=0.05, Plg=83, Azm=91; (P) Val=-1.98, Plg=1, Azm=349; Best double couple: Mo=2.0*10**17 Nm; NP1: Strike=34, Dip=84, Slip=4; NP2: Strike=303, Dip=86, Slip=174. GREECE. <ATH>. MD 3.3 (ATH).
03	05	04	01.8	40.330	N	21.330	E	10			9	9	BONIN ISLANDS REGION. Mw 6.1 (GS), 6.1 (HRV). Me 5.9 (GS).
03	05	30	10.0	26.323	N	140.482	E	431	D	6.0	0.9	478	Broadband Source Parameters (GS): Dep 431; NP1: Strike=15, Dip=45, Slip=-45; NP2: Strike=140, Dip=60, Slip=-125; Radiated energy 1.6*10**13 Nm. Moment Tensor (GS): Dep 428; Principal axes (scale 10**18 Nm): (T) Val=1.32, Plg=1, Azm=93; (N) Val=0.30, Plg=31, Azm=184; (P) Val=-1.62, Plg=59, Azm=2; Best double couple: Mo=1.5*10**18 Nm; NP1: Strike=156, Dip=52, Slip=-130; NP2: Strike=30, Dip=53, Slip=-50. Centroid, Moment Tensor (HRV): Centroid origin time

05:30:14.1; Lat 26.29 N; Lon 140.55 E; Dep 433.7; Half-duration 2.6 sec; Principal axes (scale 10**18 Nm): (T) Val=1.26, Plg=10, Azm=254; (N) Val=0.20, Plg=30, Azm=158; (P) Val=-1.45, Plg=58, Azm=0; Best double couple: Mo=1.4*10**18 Nm; NP1: Strike=15, Dip=44, Slip=-43; NP2: Strike=139, Dip=62, Slip=-125.

03 05 30 44.3& 38.896 N 26.955 E 10 G 12 AEGEAN SEA. <ISK>. MD 3.4 (ATH), 3.2 (ISK).

03 05 36 39.0& 34.648 S 71.459 W 36 9 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.2 (GUC).

03 05 49 05.8& 18.372 N 99.886 W 40 13 GUERRERO, MEXICO. <UNM>. MD 3.5 (UNM).

03 06 20 21.9& 38.860 S 177.680 E 12 4.6 17 NORTH ISLAND, NEW ZEALAND. <WEL>. ML 4.4 (WEL).

03 07 23 31.1& 32.039 S 71.549 W 19 15 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).

03 08 37 38.1& 37.610 N 2.270 W 3 11 SPAIN. <MDD>. mbLg 2.1 (MDD).

03 08 46 26.0& 39.572 N 29.587 E 10 G 4 TURKEY. <ISK>. MD 2.6 (ISK).

03 08 56 42.8& 33.399 S 72.292 W 4 13 OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).

03 09 03 40.6& 39.050 N 27.754 E 14 4 TURKEY. <ISK>. MD 2.5 (ISK).

03 09 06 48.3 15.083 N 60.350 W 57 D 4.5 0.7 61 LEeward ISLANDS. MD 4.5 (TRN), 4.3 (FDF). Felt (II) on Martinique.

03 10 20 37.5& 37.710 N 2.270 W 0 G 7 SPAIN. <MDD>. mbLg 2.4 (MDD).

03 10 56 53.3 34.423 S 178.739 W 33 N 5.1 4.6 1.2 63 SOUTH OF KERMADec ISLANDS. Mw 5.2 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 10:56:54.6; Lat 34.25 S; Lon 177.72 W; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=8.65, Plg=34, Azm=294; (N) Val=-0.72, Plg=8, Azm=199; (P) Val=-7.93, Plg=55, Azm=97; Best double couple: Mo=8.3*10**16 Nm; NP1: Strike=53, Dip=13, Slip=-54; NP2: Strike=197, Dip=79, Slip=-98.

03 11 58 45.5& 39.065 N 27.679 E 10 G 4 TURKEY. <ISK>. MD 2.7 (ISK).

03 12 40 28.3 29.075 N 52.603 E 33 N 4.3 0.6 24 SOUTHERN IRAN

03 13 04 14.5& 32.589 S 71.791 W 28 13 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).

03 13 30 46.2& 33.997 S 70.713 W 96 13 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.8 (GUC).

03 14 26 20.4 34.985 N 26.688 E 33 N 4.0 1.3 46 CRETE. ML 4.2 (ATH).

03 15 10 34.5* 3.616 S 138.600 E 33 N 4.0 1.0 8 IRIAN JAYA, INDONESIA

03 15 26 05.5 61.449 N 150.450 W 61 D 5.0 0.8 257 SOUTHERN ALASKA. Mw 4.8 (HRV). ML 4.9 (PMR), 4.6 (AEIC). Felt throughout south-central Alaska including Anchorage, Palmer and Wasilla.

Centroid, Moment Tensor (HRV): Centroid origin time 15:26:07.6; Lat 61.01 N; Lon 150.83 W; Dep 41.1; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=1.64, Plg=8, Azm=258; (N) Val=0.56, Plg=19, Azm=351; (P) Val=-2.20, Plg=69, Azm=145; Best double couple: Mo=1.9*10**16 Nm; NP1: Strike=327, Dip=40, Slip=-120; NP2: Strike=184, Dip=56, Slip=-67.

03 15 34 20.6 38.437 N 133.667 E 434 4.2 0.9 29 SEA OF JAPAN

03 16 36 01.9 8.017 N 38.099 W 10 G 5.1 4.6 1.0 176 CENTRAL MID-ATLANTIC RIDGE. Mw 5.3 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 16:36:07.4; Lat 7.92 N; Lon 38.30 W; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=8.19, Plg=14, Azm=93; (N) Val=0.70, Plg=13, Azm=359; (P) Val=-8.89, Plg=70, Azm=228; Best double couple: Mo=8.5*10**16 Nm; NP1: Strike=201, Dip=33, Slip=-65; NP2: Strike=352, Dip=61, Slip=-105.

03 17 06 39.9? 30.22 N 137.46 E 442 ? 0.8 8 SOUTH OF HONSHU, JAPAN

03 17 10 15.4& 38.120 N 26.760 E 41 6 AEGEAN SEA. <ATH>. MD 3.5 (ATH).

03 17 21 13.0& 32.864 S 71.696 W 15 11 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).

03 17 44 52.2& 38.120 N 26.770 E 50 9 AEGEAN SEA. <ATH>. MD 3.5 (ATH), 3.1 (ISK).

03 18 19 02.6& 44.372 N 6.955 E 10 8 FRANCE. <GEN>. ML 1.9 (GEN).

03 18 21 51.0? 7.58 S 128.53 E 136 ? 4.0 0.8 8 BANDA SEA

03 18 32 55.4& 40.166 N 28.178 E 10 4 TURKEY. <ISK>. MD 2.3 (ISK).

03 18 35 18.9& 35.020 S 71.343 W 56 5 CENTRAL CHILE. <GUC>.

03 18 42 57.0* 32.159 N 141.703 E 42 D 4.3 0.7 10 SOUTH OF HONSHU, JAPAN

03 19 07 08.0* 44.904 N 138.487 E 292 * 4.2 1.5 24 EASTERN SEA OF JAPAN

03 19 34 35.3* 45.959 N 14.462 E 10 G 0.2 5 NORTHWESTERN BALKAN REGION. ML 1.1 (LJU), 0.8 (VIE).

03 19 46 30.0* 13.393 N 121.544 E 10 G 4.0 1.5 7 MINDORO, PHILIPPINE ISLANDS

03 19 48 08.6& 34.435 N 32.066 E 25 6 CYPRUS REGION. <CSS>. ML 2.5 (CSS).

03 20 13 56.2& 39.095 N 27.442 E 14 4 TURKEY. <ISK>. MD 2.7 (ISK).

03 20 25 06.9& 38.880 N 21.590 E 13 7 GREECE. <ATH>. MD 2.9 (ATH).

03 20 27 29.7& 38.392 N 25.949 E 1 20 AEGEAN SEA. <ISK>. MD 3.6 (ISK), 3.6 (ATH).

03 20 53 01.1* 29.365 S 24.583 E 5 G 4.5 1.5 10 REPUBLIC OF SOUTH AFRICA

03 21 03 06.4 6.010 S 146.661 E 49 * 4.0 1.0 13 EASTERN NEW GUINEA REG., P.N.G.

03 21 07 01.5& 38.450 N 26.040 E 35 5 AEGEAN SEA. <ATH>. MD 3.6 (ATH).

03 21 13 52.1 43.722 N 21.082 E 10 G 0.9 21 NORTHWESTERN BALKAN REGION. MD 3.2 (PDG).

03 21 35 50.1& 39.010 N 24.480 E 5 5 AEGEAN SEA. <ATH>. ML 2.9 (ATH).

03 21 53 56.5& 34.441 S 70.393 W 137 9 CHILE-ARGENTINA BORDER REGION. <GUC>.

03 22 40 06.2& 46.200 N 7.500 E 6 73 SWITZERLAND. <LDG>. ML 2.9 (STR), 2.8 (LDG), 2.6 (FBB).

03 22 53 22.9& 39.066 N 27.596 E 10 4 TURKEY. <ISK>. MD 2.7 (ISK).

03 22 54 29.5& 43.000 N 0.100 W 6 12 PYRENEES. <LDG>. ML 2.2 (STR), 2.0 (LDG). Felt (III) at Lau-Balagnas, France.

03 22 57 05.5& 38.918 N 27.721 E 10 G 7 TURKEY. <ISK>. MD 2.8 (ISK).

03 22 58 54.6& 39.068 N 27.600 E 6 4 TURKEY. <ISK>. MD 2.8 (ISK).

03 23 04 08.5& 33.426 S 72.237 W 7 11 OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).

03 23 07 21.2& 39.034 N 27.690 E 10 4 TURKEY. <ISK>. MD 2.7 (ISK).

03 23 15 13.4& 39.017 N 27.738 E 10 G 4 TURKEY. <ISK>. MD 2.8 (ISK).

03 23 21 15.8& 44.132 N 7.130 E 11 4 NORTHERN ITALY. <GEN>. ML 1.6 (GEN).

03 23 49 45.2& 37.360 N 2.190 W 4 12 SPAIN. <MDD>. mbLg 2.0 (MDD).

04 00 06 22.5 38.824 N 27.961 E 5 G 0.7 18 TURKEY. MD 3.8 (ATH), 3.6 (ISK).

04 00 44 53.8& 39.144 N 27.507 E 5 4 TURKEY. <ISK>. MD 2.6 (ISK).

04 01 06 48.7& 39.116 N 27.788 E 10 G 5 TURKEY. <ISK>. MD 2.8 (ISK).

04 01 12 17.5 46.363 N 7.353 E 10 G 1.1 54 SWITZERLAND. ML 2.8 (LDG), 2.6 (STR), 2.3 (FBB).

04 01 15 41.6& 39.212 N 27.864 E 8 12 TURKEY. <ISK>. MD 3.1 (ISK).

04 01 38 09.3* 6.253 N 127.020 E 127 * 5.0 1.0 32 PHILIPPINE ISLANDS REGION

04 01 56 22.1* 18.897 S 173.063 W 33 N 5.1 4.8 1.1 46 TONGA ISLANDS. Mw 5.3 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 01:56:24.0; Lat 18.92 S; Lon 172.50 W; Dep 15.0 Fix; Half-

duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=8.75, Plg=68, Azm=260; (N) Val=1.03, Plg=6, Azm=6; (P) Val=-9.78, Plg=21, Azm=98; Best double couple: Mo=9.3*10**16 Nm; NP1: Strike=199, Dip=25, Slip=105; NP2: Strike=3, Dip=66, Slip=83.

04 01 58 01.4& 46.300 N 7.500 E 5 7 SWITZERLAND. <LDG>. ML 1.8 (LDG).
04 02 10 56.5* 5.467 N 126.772 E 60 * 4.8 1.0 19 MINDANAO, PHILIPPINE ISLANDS
04 02 26 25.6* 9.849 N 125.896 E 66 * 4.4 1.2 11 MINDANAO, PHILIPPINE ISLANDS
04 02 43 54.3? 14.70 S 175.06 W 33 N 4.7 4.6 1.4 25 SAMOA ISLANDS REGION
04 03 44 25.1& 37.503 N 118.838 W 11 30 CALIFORNIA-NEVADA BORDER REGION. <GM-P>. ML 3.4 (GH), 3.4 (BRK).
04 04 08 03.6& 42.051 N 20.071 E 17 9 NORTHWESTERN BALKAN REGION. <PDG>. MD 1.9 (PDG).
04 05 28 05.3? 16.63 N 146.53 E 162 ? 3.3 0.9 7 MARIANA ISLANDS
04 05 32 34.3& 44.200 N 6.000 E 2 8 FRANCE. <LDG>. ML 2.1 (LDG), 1.8 (STR).
04 05 53 53.0& 33.351 S 70.883 W 70 13 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.7 (GUC).
04 06 42 11.7& 39.201 N 27.397 E 14 4 TURKEY. <ISK>. MD 2.6 (ISK).
04 06 46 19.2& 37.487 N 118.840 W 4 13 CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.9 (GM).
04 06 47 46.2? 55.94 S 63.40 W 33 N 4.1 1.2 12 DRAKE PASSAGE
04 06 48 51.9? 55.78 S 63.00 W 33 N 4.3 0.9 10 DRAKE PASSAGE
04 06 58 28.4& 37.490 N 118.839 W 4 12 CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.9 (GM).
04 07 01 59.7& 34.125 S 72.391 W 32 12 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
04 07 04 53.4& 34.105 S 72.372 W 35 11 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
04 07 08 15.5& 39.654 N 29.457 E 10 G 6 TURKEY. <ISK>. MD 2.6 (ISK).
04 07 09 09.3& 34.072 S 72.437 W 31 6 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.6 (ISK).
04 07 16 43.0& 34.081 S 72.406 W 14 6 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.6 (ISK).
04 07 20 21.6& 15.032 N 60.482 W 29 7 LEEWARD ISLANDS. <TRN>. MD 3.0 (TRN).
04 07 20 33.6& 32.875 S 71.499 W 9 8 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.8 (GUC).
04 08 14 05.9& 17.717 N 65.472 W 11 7 PUERTO RICO REGION. <MPR>. MD 3.4 (MPR).
04 08 15 36.7& 39.662 N 29.489 E 10 G 4 TURKEY. <ISK>. MD 2.6 (ISK).
04 08 21 01.3* 45.271 N 26.240 E 144 ? 1.0 9 ROMANIA
04 08 21 28.2& 42.330 N 6.890 W 11 8 SPAIN. <MDD>. mbLg 2.5 (MDD).
04 08 44 25.6& 39.302 N 27.706 E 10 G 5 TURKEY. <ISK>. MD 2.6 (ISK).
04 08 52 59.7& 34.089 S 72.387 W 30 6 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.7 (ISK).
04 09 18 38.6& 39.197 N 27.569 E 7 6 TURKEY. <ISK>. MD 2.7 (ISK).
04 09 32 40.2* 54.604 N 162.237 E 33 N 4.4 1.0 23 NEAR EAST COAST OF KAMCHATKA
04 09 40 14.7* 23.715 S 179.999 E 500 G 4.7 1.0 20 SOUTH OF FIJI ISLANDS
04 10 00 46.5& 39.049 N 27.673 E 10 G 5 TURKEY. <ISK>. MD 2.6 (ISK).
04 10 40 05.0& 38.490 N 117.860 W 11 24 NEVADA. <REN-P>. MD 3.2 (REN). ML 3.5 (GS).
04 10 41 51.8& 15.036 N 60.429 W 30 17 LEEWARD ISLANDS. <FDF>. MD 3.4 (TRN), 3.3 (FDF).
04 11 30 19.8& 37.480 N 118.782 W 6 8 CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.8 (G*).
04 12 53 06.3& 37.080 N 4.220 W 2 8 SPAIN. <MDD>. mbLg 1.9 (MDD).
04 13 06 02.4& 39.112 N 27.591 E 10 G 5 TURKEY. <ISK>. MD 2.6 (ISK).
04 14 36 35.6& 59.893 N 151.673 W 39 28 KENAI PENINSULA, ALASKA. <AEIC>. ML 2.5 (AEIC).
04 16 08 26.4& 38.950 N 27.833 E 5 5 TURKEY. <ISK>. MD 2.7 (ISK).
04 17 34 43.9& 40.254 N 28.975 E 14 8 TURKEY. <ISK>. MD 2.6 (ISK).
04 18 08 12.9* 7.568 S 127.788 E 163 * 4.6 1.4 17 BANDA SEA
04 18 55 43.7* 5.017 N 62.008 E 10 G 4.7 1.4 26 CARLSBERG RIDGE
04 19 23 57.2 4.755 S 151.854 E 134 D 4.9 1.1 23 NEW BRITAIN REGION, P.N.G.
04 19 32 00.0& 38.345 N 26.527 E 10 11 AEGEAN SEA. <ISK>. MD 3.6 (ATH), 3.4 (ISK).
04 20 27 18.2& 44.805 N 6.827 E 16 6 FRANCE. <GEN>. ML 1.8 (GEN).
04 20 32 56.2 37.136 N 3.811 W 5 G 0.8 25 SPAIN. mbLg 3.0 (MDD).
04 21 32 38.7& 15.790 N 98.720 W 14 16 OFF COAST OF GUERRERO, MEXICO. <UNM>. MD 4.2 (UNM).
04 22 27 24.6& 61.525 N 149.828 W 38 58 SOUTHERN ALASKA. <AEIC>. ML 3.4 (AEIC), 3.5 (PMR). Felt (II) at Palmer. Also felt at Wasilla.
04 23 02 37.0& 32.785 S 71.722 W 11 8 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (ISK).
04 23 10 47.8& 40.808 N 32.873 E 10 G 13 TURKEY. <ISK>. MD 3.8 (ISK).
04 23 42 45.1& 34.515 S 70.487 W 132 6 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 4.0 (MPR).
05 01 05 39.2 42.419 N 137.790 E 270 4.3 0.8 59 EASTERN SEA OF JAPAN
05 01 41 41.9* 7.883 N 73.630 W 134 * 4.0 1.4 15 NORTHERN COLOMBIA
05 01 47 27.7* 1.762 N 125.149 E 120 ? 4.9 1.3 23 NORTHERN MOLUCCA SEA
05 02 23 10.4& 19.505 N 64.667 W 25 8 VIRGIN ISLANDS. <MPR>. MD 4.0 (MPR).
05 02 36 51.3& 60.353 N 152.995 W 167 42 SOUTHERN ALASKA. <AEIC>. MD 3.5 (ISK).
05 02 57 31.4& 41.241 N 32.776 E 10 G 5 TURKEY. <ISK>. MD 3.5 (ISK).
05 03 06 29.5& 40.316 N 124.528 W 23 3.8 45 NEAR COAST OF NORTHERN CALIF. <GM-P>. Mw 4.1 (BRK). ML 3.8 (GM), 3.7 (BRK).
Moment Tensor (BRK): Dep 14; Principal axes (scale 10**15 Nm): (T) Val=1.42, Plg=65, Azm=84; (N) Val=0.00, Plg=22, Azm=296; (P) Val=-1.42, Plg=12, Azm=201; Best double couple: Mo=1.4*10**15 Nm; NP1: Strike=129, Dip=61, Slip=115; NP2: Strike=265, Dip=38, Slip=53.
05 03 34 58.0& 49.430 N 129.410 W 10 G 3.4 11 VANCOUVER ISLAND REGION. <PGC-P>. ML 3.5 (PGC).
05 03 45 47.6 43.632 N 147.621 E 60 D 5.2 0.7 240 KURIL ISLANDS. Mw 5.1 (HRV). Felt (III) at Kurilsk, Iturup. Also felt (III) at Yuzhno-Kurilsk, Kunashir.
Centroid, Moment Tensor (HRV): Centroid origin time 03:45:53.5; Lat 43.30 N; Lon 147.43 E; Dep 63.2; Falf-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.72, Plg=39, Azm=27; (N) Val=1.58, Plg=48, Azm=233; (P) Val=-6.31, Plg=13, Azm=128; Best double couple: Mo=5.5*10**16 Nm; NP1: Strike=175, Dip=53, Slip=20; NP2: Strike=72, Dip=74, Slip=141.
05 04 09 29.3* 18.490 S 176.194 E 33 N 4.5 1.2 23 FIJI ISLANDS REGION
05 04 40 05.2* 9.979 N 126.086 E 51 * 0.9 10 MINDANAO, PHILIPPINE ISLANDS
05 04 56 35.3& 33.356 S 72.350 W 11 12 OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
05 05 11 30.6& 38.820 N 20.120 E 5 5 GREECE. <ATH>. MD 3.0 (ATH).
05 05 18 21.1& 35.270 S 70.969 W 114 8 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (ISK).
05 06 50 33.6& 38.987 N 27.708 E 10 G 4 TURKEY. <ISK>. MD 2.6 (ISK).
05 07 07 24.2* 36.331 N 69.066 E 33 N 4.3 0.5 11 HINDU KUSH REGION, AFGHANISTAN
05 07 18 09.3& 39.288 N 27.490 E 10 G 5 TURKEY. <ISK>. MD 2.7 (ISK).
05 07 46 28.9& 38.530 N 22.190 E 9 6 GREECE. <ATH>. MD 3.1 (ATH).
05 07 49 36.5& 44.474 N 7.196 E 8 25 NORTHERN ITALY. <GEN>. ML 2.5 (GEN), 2.5 (LDG), 2.2 (STR).
05 08 06 53.5& 39.846 N 30.075 E 6 4 TURKEY. <ISK>. MD 2.6 (ISK).
05 08 07 28.9& 4.614 N 94.414 E 33 N 0.5 6 OFF W COAST OF NORTHERN SUMATRA
05 08 22 51.9& 37.597 N 118.815 W 6 10 CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.8 (G*).

05	08	27	38.6*	19.880 S	177.681 W	500 G	3.9	0.8	19	FIJI ISLANDS REGION
05	08	49	28.9	32.321 N	141.706 E	33 N	4.5	0.9	45	SOUTH OF HONSHU, JAPAN
05	09	01	59.6*	4.692 N	94.634 E	114 ?	4.3	1.2	13	OFF W COAST OF NORTHERN SUMATERA
05	09	20	48.0*	85.608 N	84.338 E	10 G		0.9	10	NORTH OF SEVERNAYA ZEMLYA
05	09	55	17.5*	47.758 N	128.416 W	10 G	3.5	1.0	12	OFF COAST OF WASHINGTON
05	10	09	06.0	85.663 N	82.604 E	10 G	4.5	1.2	16	NORTH OF SEVERNAYA ZEMLYA
05	10	11	54.5&	42.900 N	0.400 E	2			7	PYRENEES. <LDG>. ML 2.4 (LDG), 2.3 (STR).
05	10	26	48.9&	15.699 N	96.300 W	4			15	NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 4.3 (UNM).
05	10	39	34.0&	4.826 N	74.618 W	13			7	COLOMBIA. <RSNC>. ML 3.4 (RSNC).
05	11	11	34.3&	15.988 N	94.798 W	25			5	NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 3.9 (UNM).
05	11	14	09.4&	34.539 S	70.537 W	139			7	CHILE-ARGENTINA BORDER REGION. <GUC>.
05	12	23	13.5	30.531 N	50.111 E	49 *	4.7	1.1	73	NORTHERN IRAN
05	12	49	53.0&	34.084 S	71.882 W	36			7	NEAR COAST OF CENTRAL CHILE. <GUC>.
05	12	53	46.6&	39.046 N	27.642 E	10 G			6	TURKEY. <ISK>. MD 2.8 (ISK).
05	13	45	19.5*	8.379 N	126.746 E	33 N		1.1	7	MINDANAO, PHILIPPINE ISLANDS
05	13	49	29.2&	44.624 N	6.840 E	1			35	FRANCE. <GEN>. ML 3.0 (GEN), 2.6 (LDG), 2.6 (STR).
05	14	08	54.8&	39.094 N	27.679 E	10 G			4	TURKEY. <ISK>. MD 2.7 (ISK).
05	14	18	17.2&	43.800 N	2.900 E	2			7	FRANCE. <LDG>. ML 2.7 (LDG).
05	15	27	24.9&	15.768 N	94.054 W	18			5	NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 3.9 (UNM).
05	15	28	55.3&	39.460 N	28.131 E	6			6	TURKEY. <ISK>. MD 2.7 (ISK).
05	17	07	40.1*	26.294 N	110.361 W	10 G	4.1	1.3	15	GULF OF CALIFORNIA
05	17	36	23.2&	37.541 N	118.828 W	2			17	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. ML 3.1 (GM), 3.3 (BRK).
05	18	11	01.1&	18.869 N	65.100 W	53			5	PUERTO RICO REGION. <MPR>. MD 3.3 (MPR).
05	18	45	26.1	0.542 S	20.152 W	10 G	4.7	1.2	63	CENTRAL MID-ATLANTIC RIDGE
05	18	48	10.5	8.004 S	123.218 E	195 *	4.8	1.2	38	FLORES REGION, INDONESIA
05	19	12	47.1&	33.712 S	70.254 W	115			10	CHILE-ARGENTINA BORDER REGION. <GUC>.
05	19	46	54.6&	43.94 N	148.75 E	33 N	4.0	1.4	8	EAST OF KURIL ISLANDS
05	19	47	16.0&	41.399 N	20.206 E	7			12	ALBANIA. <PDG>. MD 2.4 (PDG).
05	19	53	59.5&	42.424 N	18.669 E	8			10	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.0 (PDG).
05	20	57	07.1&	48.500 N	3.500 W	10			11	FRANCE. <LDG>. ML 2.7 (LDG).
05	21	15	41.4&	16.067 N	96.997 W	15			5	OAXACA, MEXICO. <UNM>. MD 3.8 (UNM).
05	21	44	15.1	23.036 N	93.805 E	54 *	4.4 3.8	0.8	38	MYANMAR-INDIA BORDER REGION
05	21	45	26.6*	15.834 N	93.882 W	136 *		1.2	18	NEAR COAST OF CHIAPAS, MEXICO. MD 4.4 (UNM).
05	21	57	36.6*	10.474 N	93.393 E	150 ?	4.4	0.7	14	ANDAMAN ISLANDS, INDIA
05	22	00	47.7&	53.204 N	166.610 W	2			6	FOX ISLANDS, ALEUTIAN ISLANDS. <AEIC>. ML 3.0 (AEIC).
05	22	01	28.6&	35.093 N	32.329 E	20			5	CYPRUS REGION. <CSS>. ML 2.7 (CSS).
05	22	30	03.0&	40.749 N	29.842 E	8			17	TURKEY. <ISK>. MD 3.4 (ISK).
05	23	31	38.0	17.871 N	101.590 W	41	4.8 4.2	1.1	107	NEAR COAST OF GUERRERO, MEXICO. MD 5.0 (UNM). Felt at Chilpancingo, Zihuatanejo and in other parts of Guerrero. Also felt in parts of Michoacan.
06	00	13	12.0&	40.735 N	29.867 E	5				

06	20	42	49.6	35.400	N	6.150	W	27							16	STRAIT OF GIBRALTAR. <MDD>. mbLg 3.0 (MDD).
06	20	57	21.0	40.660	N	27.493	E	8							5	TURKEY. <ISK>. MD 2.6 (ISK).
06	22	05	45.1	38.319	N	108.859	W	5	G					0.7	17	COLORADO. ML 3.5 (GS). Felt at Bedrock and Paradox.
06	22	14	27.7	16.872	N	100.501	W	15							9	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.0 (UNM).
06	22	32	23.0	61.551	N	146.733	W	21							32	SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).
06	22	34	49.4	44.022	N	13.981	E	10	G					1.0	19	ADRIATIC SEA. ML 2.4 (VIE).
06	23	11	58.4	59.604	N	153.028	W	97							24	SOUTHERN ALASKA. <AEIC>.
06	23	38	10.5	18.00	S	176.57	W	106	?	4.6			1.3	22	FIJI ISLANDS REGION	
06	23	41	17.5	34.658	N	32.385	E	33	N				0.3	8	CYPRUS REGION. ML 3.1 (CSS).	
07	00	00	35.1	43.995	N	13.841	E	10	G				0.8	15	CENTRAL ITALY. ML 2.3 (VIE).	
07	00	34	28.3	17.56	N	84.77	W	33	N	4.1			1.3	13	CARIBBEAN SEA	
07	00	40	20.8	34.612	N	32.412	E	10	G				0.6	8	CYPRUS REGION. ML 3.0 (CSS).	
07	01	49	24.5	10.727	N	62.432	W	64						5	NEAR COAST OF VENEZUELA. <TRN>. MD 3.2 (TRN).	
07	02	02	10.5	6.955	N	72.745	W	153		3.8			0.6	9	NORTHERN COLOMBIA	
07	02	22	12.9	37.030	N	3.940	W	1						9	SPAIN. <MDD>. mbLg 2.2 (MDD).	
07	03	11	45.0	19.198	S	69.108	W	132	*	4.0			0.9	18	NORTHERN CHILE	
07	03	36	06.5	33.856	S	70.811	W	75						11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.2 (GUC).	
07	03	36	35.7	62.277	N	151.071	W	66						25	CENTRAL ALASKA. <AEIC>. ML 2.6 (AEIC).	
07	04	07	48.5	35.710	N	6.220	W	4						14	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.6 (MDD).	
07	04	20	45.9	22.93	S	169.59	E	33	N				1.3	12	LOYALTY ISLANDS REGION	
07	04	36	25.5	18.712	N	66.188	W	39						8	PUERTO RICO REGION. <MPR>. MD 3.0 (MPR).	
07	05	08	43.7	43.781	N	12.597	E	10	G				1.1	25	CENTRAL ITALY. ML 3.1 (VIE), 3.0 (LDG).	
07	05	44	12.6	39.290	N	27.796	E	10	G				0.6	13	TURKEY. MD 3.7 (ATH), 3.4 (ISK).	
07	05	46	32.4	39.274	N	27.703	E	5						6	TURKEY. <ISK>. MD 2.7 (ISK).	
07	05	52	10.8	15.561	N	94.729	W	33	N	3.9			1.0	23	NEAR COAST OF OAXACA, MEXICO. MD 4.4 (UNM).	
07	05	52	21.1	32.245	S	71.213	W	73						13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).	
07	05	59	47.9	60.144	N	153.379	W	151						48	SOUTHERN ALASKA. <AEIC>.	
07	06	52	21.4	42.650	N	0.580	E	10						11	PYRENEES. <STR>. ML 2.5 (STR). mbLg 2.5 (MDD).	
07	07	16	54.1	38.240	N	21.650	E	5						8	GREECE. <ATH>. MD 3.2 (ATH).	
07	07	24	04.9	41.590	N	2.870	E	6						13	SPAIN. <MDD>. ML 2.8 (STR), 2.7 (LDG). mbLg 2.6 (MDD).	
07	07	32	21.5	54.155	N	164.377	W	67						11	UNIMAK ISLAND REGION. <AEIC>. ML 3.5 (AEIC).	
07	07	37	43.0	59.832	N	152.888	W	101						35	SOUTHERN ALASKA. <AEIC>.	
07	07	46	03.5	40.135	N	28.824	E	10	G					5	TURKEY. <ISK>. MD 2.4 (ISK).	
07	08	28	40.2	39.640	N	29.425	E	12						6	TURKEY. <ISK>. MD 2.5 (ISK).	
07	08	48	07.0	39.658	N	29.489	E	10	G					5	TURKEY. <ISK>. MD 2.6 (ISK).	
07	09	10	02.0	44.659	N	7.176	E	11						10	NORTHERN ITALY. <GEN>. ML 2.3 (GEN).	
07	09	46	52.5	33.381	S	71.601	W	60					0.4	18	NEAR COAST OF CENTRAL CHILE. MD 4.4 (GUC). Felt (IV') at San Antonio, (III) at Quillota and (II) at Los Andes, San Felipe, Santiago and Valparaiso.	
07	09	53	54.2	61.107	N	148.599	W	25						51	SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC).	
07	10	22	13.5	44.282	N	20.357	E	10	G				1.0	17	NORTHWESTERN BALKAN REGION. MD 3.3 (PDG).	
07	12	24	25.8	35.090	N	4.050	W	15						13	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.6 (MDD).	
07	12	26	35.6	85.612	N	82.535	E	10	G				1.4	9	NORTH OF SEVERNAYA ZEMLYA	
07	12	42	50.2	39.173	N	27.643	E	5						4	TURKEY. <ISK>. MD 2.7 (ISK).	
07	13	09	39.0	40.809	N	32.355	E	5						4	TURKEY. <ISK>. MD 3.0 (ISK).	
07	13	16	06.2	46.701	N	153.100	E	33	N				1.5	11	KURIL ISLANDS	
07	13	30	23.3	72.423	N	1.747	E	10	G	4.1			1.1	18	NORWEGIAN SEA	
07	13	32	33.2	35.410	N	25.910	E	5		4.0				11	CRETE. <ATH>. MD 3.9 (ATH).	
07	13	42	07.1	40.583	N	33.065	E	10	G				0.5	9	TURKEY. MD 3.7 (ISK).	
07	13	45	05.6	40.669	N	33.026	E	0						5	TURKEY. <ISK>. MD 3.5 (ISK).	
07	13	53	13.6	23.368	N	120.845	E	33	N	4.9			1.0	53	TAIWAN. Felt (IV JMA) in northeastern Chia-i, western Nan-tou and eastern Yun-lin Counties. Felt (III JMA) at Chia-i and (I JMA) at Tai-chung and Tai-tung. Felt in many parts of central Taiwan.	
07	13	56	47.5	40.480	S	175.110	E	0						16	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 4.5 (WEL). Felt at Foxton, Levin, Palmerston North and Shannon. Also felt at Nelson on the South Island.	
07	14	03	09.9	85.664	N	84.813	E	10	G	4.7	4.5		0.9	65	NORTH OF SEVERNAYA ZEMLYA	
07	14	06	28.9	23.216	N	120.979	E	33	N	4.4			1.4	14	TAIWAN	
07	14	25	57.4	58.316	N	155.974	W	142						30	ALASKA PENINSULA. <AEIC>.	
07	17	16	10.8	44.292	N	10.896	E	10	G	4.7	4.6		1.0	201	NORTHERN ITALY. ML 4.8 (STR), 4.5 (FUR), 4.5 (LDG), 4.5 (FBB). Minor damage to a hospital at Pavullo nel Frignano. Felt in the Emilia-Romagna region.	
07	17	17	02.7	45.76	N	149.78	E	157	?	4.2			1.1	22	KURIL ISLANDS	
07	17	17	31.2	14.752	N	144.822	E	33	N	4.5			1.3	14	MARIANA ISLANDS	
07	17	19	17.2	25.151	N	128.342	E	33	N	4.4			0.6	10	RYUKYU ISLANDS	
07	17	27	34.8	35.140	N	4.080	W	30						32	STRAIT OF GIBRALTAR. <MDD>. mbLg 3.4 (MDD).	
07	17	43	01.3	44.294	N	10.934	E	10	G				0.6	13	NORTHERN ITALY. ML 2.8 (LDG).	
07	17	54	40.2	44.289	N	10.864	E	10	G				1.0	64	NORTHERN ITALY. ML 3.8 (STR), 3.6 (GRF), 3.5 (LDG).	
07	17	55	46.1	7.623	S	127.354	E	149		5.4			0.8	193	BANDA SEA. Mw 5.4 (HRV).	
																Centroid, Moment Tensor (HRV): Centroid origin time 17:55:53.7; Lat 7.51 S; Lon 127.88 E; Dep 167.4; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.69, Plg=56, Azm=337; (N) Val=-0.63, Plg=19, Azm=98; (P) Val=-1.05, Plg=27, Azm=198; Best double couple: Mo=1.4*10**17 Nm; NP1: Strike=326, Dip=25, Slip=141; NP2: Strike=93, Dip=75, Slip=70.
07	18	31	22.5	44.293	N	10.936	E	10	G				1.0	102	NORTHERN ITALY. ML 4.4 (STR), 3.9 (LDG), 3.7 (FUR).	
07	18	52	57.0	49.233	N	155.559	E	33	N	6.0	5.6		0.8	462	KURIL ISLANDS. Mw 6.1 (HRV), 6.0 (GS). Me 5.6 (GS). Felt (V) at Severo-Kurilsk.	
																Broadband Source Parameters (GS): Dep 29; NP1: Strike=215, Dip=48, Slip=90; NP2: Strike=35, Dip=42, Slip=90; Radiated energy 6.5*10**12 Nm.
																Moment Tensor (GS): Dep 29; Principal axes (scale 10**18 Nm): (T) Val=1.03, Plg=71, Azm=311; (N) Val=0.02, Plg=4, Azm=211; (P) Val=-1.04, Plg=19, Azm=119; Best double couple: Mo=1.0*10**18 Nm; NP1: Strike=203, Dip=26, Slip=82; NP2: Strike=32, Dip=64, Slip=94.
																Centroid, Moment Tensor (HRV): Centroid origin time 18:53:02.3; Lat 49.21 N; Lon 155.94 E; Dep 38.0 Bdy; Half-duration 2.7 sec; Principal axes (scale 10**18 Nm): (T) Val=1.42, Plg=73, Azm=295; (N) Val=0.06, Plg=3, Azm=33; (P) Val=-1.48, Plg=16, Azm=124; Best double couple:

Mo=1.5*10**18 Nm; NPl: Strike=218, Dip=29, Slip=95; NP2: Strike=32, Dip=61, Slip=87.
 Scalar Moment (PPT): Mo=1.3*10**18 Nm.

29 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
 84 OFF EAST COAST OF HONSHU, JAPAN
 11 GREECE. <ATH>. MD 3.4 (ATH).
 11 ALBANIA. <PDG>. MD 2.2 (PDG).
 7 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
 31 KOMANDORSKY ISLANDS REGION
 12 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.1 (GUC).
 7 CHILE-ARGENTINA BORDER REGION. <GUC>.
 11 PYRENEES. <LDG>. ML 2.2 (STR), 2.0 (LDG).
 64 NORTHERN ITALY. ML 3.7 (STR), 3.4 (LDG).
 25 VANUATU ISLANDS
 14 STRAIT OF GIBRALTAR. <MDD>. mbLg 2.3 (MDD).
 8 PAKISTAN
 22 NEAR EAST COAST OF KAMCHATKA
 13 NEAR COAST OF NORTHERN PERU
 8 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
 10 SPAIN. <MDD>. mbLg 1.9 (MDD).
 40 NORTHERN ITALY. ML 3.0 (LDG).
 8 SULAWESI, INDONESIA
 5 STRAIT OF GIBRALTAR. <MDD>. mbLg 1.7 (MDD).
 16 MARIANA ISLANDS REGION
 11 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).
 31 ADRIATIC SEA
 9 GERMANY. <STR>. ML 2.0 (STR), 1.8 (FBB).
 11 NORTHERN ITALY. ML 2.8 (LDG).
 37 SOUTHERN ALASKA. <AEIC>. ML 2.8 (AEIC), 3.0 (PMR).
 10 TAIWAN REGION
 22 MINDANAO, PHILIPPINE ISLANDS
 12 NORTHERN ITALY. ML 2.7 (LDG).
 37 SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC), 2.5 (PMR).
 8 VANUATU ISLANDS
 9 GREECE. <ATH>. MD 3.3 (ATH).
 11 CHILE-ARGENTINA BORDER REGION. <GUC>.
 54 SOUTHERN ALASKA. <AEIC>. ML 3.6 (AEIC), 3.9 (PMR). Felt (IV)
 at Willow and (III) at Palmer and Wasilla.
 6 TURKEY. <ISK>. MD 2.7 (ISK).
 9 OAXACA, MEXICO. <UNM>. MD 4.1 (UNM).
 9 TURKEY. <ISK>. MD 2.7 (ISK).
 15 TAIWAN REGION
 4 TURKEY. <ISK>. MD 2.7 (ISK).
 4 TURKEY. <ISK>. MD 2.5 (ISK).
 6 AEGEAN SEA. <ISK>. MD 3.2 (ISK).
 81 WINDWARD ISLANDS. MD 4.3 (TRN). Felt on Tobago.
 9 LEEWARD ISLANDS. <PDF>. MD 2.7 (PDF).
 5 TURKEY. <ISK>. MD 2.6 (ISK).
 52 JAN MAYEN ISLAND REGION
 10 CENTRAL PERU. Felt (III) at Satipo.
 110 KERMADEC ISLANDS, NEW ZEALAND. Mw 5.7 (HRV). Felt on Raoul.
 Centroid, Moment Tensor (HRV): Centroid origin time
 11:04:54.1; Lat 29.96 S; Lon 177.74 W; Dep 122.1; Half-
 duration 1.6 sec; Principal axes (scale 10**17 Nm): (T)
 Val=3.15, Plg=37, Azm=237; (N) Val=0.95, Plg=32, Azm=355;
 (P) Val=-4.10, Plg=37, Azm=112; Best double couple:
 Mo=3.6*10**17 Nm; NPl: Strike=264, Dip=32, Slip=179; NP2:
 Strike=354, Dip=90, Slip=58.
 Scalar Moment (PPT): Mo=5.9*10**17 Nm.

8 POLAND. ML 3.2 (VIE).
 9 CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.2 (GM).
 11 DODECANESE ISLANDS. <ATH>. MD 3.3 (ISK).
 4 CYPRUS REGION. <CSS>. ML 3.2 (CSS).
 30 VANUATU ISLANDS
 11 SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 3.3 (GUC).
 4 TURKEY. <ISK>. MD 2.7 (ISK).
 8 NORTHERN ITALY. ML 2.6 (LDG).
 69 FIJI ISLANDS REGION
 4 TURKEY. <ISK>. MD 2.6 (ISK).
 5 D'ENTRECASTEAUX ISLANDS REGION
 129 TAJIKISTAN. Mw 5.4 (HRV).
 Centroid, Moment Tensor (HRV): Centroid origin time
 16:42:15.3; Lat 37.55 N; Lon 72.52 E; Dep 67.9; Half-
 duration 1.1 sec; Principal axes (scale 10**17 Nm): (T)
 Val=1.16, Plg=5, Azm=261; (N) Val=0.01, Plg=85, Azm=92; (P)
 Val=-1.18, Plg=1, Azm=351; Best double couple:
 Mo=1.2*10**17 Nm; NPl: Strike=36, Dip=86, Slip=3; NP2:
 Strike=306, Dip=87, Slip=176.

72 NORTHERN ITALY. ML 3.5 (STR), 3.4 (LDG).
 75 VANUATU ISLANDS
 17 COOK STRAIT, NEW ZEALAND. <WEL>. Felt from Wanganui to
 Wellington on the North Island.
 8 GREECE. <ATH>. MD 3.2 (ATH).
 135 SOUTHERN GREECE. MD 4.4 (ATH).
 87 NORTH OF SEVERNAYA ZEMLYA. Mw 5.2 (HRV).
 Centroid, Moment Tensor (HRV): Centroid origin time
 19:25:14.1; Lat 85.74 N; Lon 83.36 E; Dep 15.0 Fix; Half-
 duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
 Val=6.04, Plg=27, Azm=69; (N) Val=0.87, Plg=15, Azm=167;
 (P) Val=-6.92, Plg=59, Azm=283; Best double couple:
 Mo=6.5*10**16 Nm; NPl: Strike=127, Dip=22, Slip=-132; NP2:
 Strike=351, Dip=74, Slip=-74.

69 NORTHERN ITALY. ML 3.3 (LDG), 3.3 (STR).

08	20	10	29.9?	15.61	S	172.66	W	33	N	4.3	1.2	18	SAMOA ISLANDS REGION
08	20	38	42.1	34.581	N	136.882	E	343		4.3	1.1	31	WESTERN HONSHU, JAPAN
08	20	40	45.7	44.278	N	10.900	E	10	G		1.1	70	NORTHERN ITALY. ML 3.5 (STR), 3.3 (LDG).
08	20	41	59.7&	37.460	N	2.640	W	0	G			8	SPAIN. <MDD>. mbLg 1.8 (MDD).
08	20	47	59.0&	32.517	S	71.709	W	28				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
08	20	55	44.3&	32.538	S	71.697	W	11				15	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.3 (GUC). Felt (III) at La Ligua and Papudo.
08	20	55	58.2*	37.210	N	71.519	E	137	?	3.8	0.3	7	AFGHANISTAN-TAJIKISTAN BORD REG.
08	21	05	31.6&	39.737	N	26.225	E	5				4	TURKEY. <ISK>. MD 2.9 (ISK).
08	21	57	58.2&	35.990	N	22.360	E	5				9	CENTRAL MEDITERRANEAN SEA. <ATH>. MD 3.6 (ATH).
08	22	02	57.3*	15.110	S	69.976	W	158	*	4.0	0.7	17	PERU-BOLIVIA BORDER REGION
08	22	15	45.0&	43.100	N	7.900	E	9				5	NEAR SOUTH COAST OF FRANCE. <LDG>. ML 1.8 (LDG).
08	22	28	40.9*	44.122	N	13.771	E	33	N		0.7	20	ADRIATIC SEA
08	23	02	55.3&	41.805	N	19.390	E	5				12	ALBANIA. <PDG>. ML 2.7 (PDG).
08	23	19	03.7&	33.601	S	70.359	W	16				8	CHILE-ARGENTINA BORDER REGION. <GUC>.
08	23	29	35.1*	31.387	S	69.156	W	150	G		0.5	10	SAN JUAN PROVINCE, ARGENTINA. MD 3.2 (GUC).
08	23	51	10.8*	44.257	N	13.687	E	33	N		0.7	15	ADRIATIC SEA
09	00	00	03.2&	41.611	N	19.513	E	14				8	ALBANIA. <PDG>. MD 2.2 (PDG).
09	01	20	56.9	24.967	S	70.504	W	41	D	5.5 5.0	0.9	259	NEAR COAST OF NORTHERN CHILE. Mw 5.6 (GS), 5.6 (HRV). Felt (IV) at El Salvador and Taltal; (III) at Antofagasta, Baquedano, Diego de Almagro, El Salado and Inca de Oro; (II) at Calama, Caldera, Chanaral, Copiapo and Potrerillos. Moment Tensor (GS): Dep 43; Principal axes (scale 10**17 Nm): (T) Val=2.51, Plg=68, Azm=125; (N) Val=0.95, Plg=6, Azm=19; (P) Val=-3.47, Plg=21, Azm=287; Best double couple: Mo=3.0*10**17 Nm; NP1: Strike=6, Dip=25, Slip=75; NP2: Strike=202, Dip=66, Slip=97. Centroid, Moment Tensor (HRV): Centroid origin time 01:21:03.7; Lat 24.94 S; Lon 71.33 W; Dep 35.1; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=2.84, Plg=61, Azm=140; (N) Val=0.67, Plg=16, Azm=19; (P) Val=-3.51, Plg=23, Azm=282; Best double couple: Mo=3.2*10**17 Nm; NP1: Strike=343, Dip=26, Slip=52; NP2: Strike=205, Dip=70, Slip=107. Scalar Moment (PPT): Mo=4.5*10**17 Nm.
09	01	25	04.9?	44.13	N	10.55	E	10	G		0.4	9	NORTHERN ITALY
09	02	08	27.1&	39.268	N	122.735	W	13				7	NORTHERN CALIFORNIA. <GM-P>. MD 2.9 (GM).
09	02	12	35.1&	44.155	N	7.221	E	9				6	NORTHERN ITALY. <GEN>. ML 1.9 (GEN).
09	02	18	00.8&	31.743	S	70.250	W	134				11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.7 (GUC).
09	02	27	44.8&	18.545	N	66.869	W	16				8	PUERTO RICO REGION. <MPR>. MD 2.9 (MPR).
09	02	42	41.3	86.183	N	78.345	E	10	G	4.4	1.1	41	NORTH OF SEVERNAYA ZEMLYA
09	02	45	12.0*	85.459	N	85.280	E	10	G	4.5	1.1	34	NORTH OF SEVERNAYA ZEMLYA
09	03	35	26.5&	16.349	N	99.351	W	18				7	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.7 (UNM).
09	03	37	51.9&	16.584	N	96.504	W	42				7	OAXACA, MEXICO. <UNM>. MD 4.0 (UNM).
09	04	15	06.7&	32.525	S	71.714	W	15				11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
09	04	27	29.1&	34.490	S	72.132	W	27				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
09	04	45	50.8&	35.090	N	3.870	W	14				16	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.8 (MDD).
09	04	46	49.1&	41.522	N	19.534	E	9				9	ALBANIA. <PDG>. MD 2.4 (PDG).
09	05	04	42.6	6.514	S	154.944	E	29	G	5.8 6.2	1.0	252	SOLOMON ISLANDS. Mw 6.3 (GS), 6.3 (HRV). Me 5.8 (GS). Broadband Source Parameters (GS): Dep 29; NP1: Strike=330, Dip=40, Slip=105; NP2: Strike=131, Dip=52, Slip=78; Radiated energy 1.2*10**13 Nm. Moment Tensor (GS): Dep 36; Principal axes (scale 10**18 Nm): (T) Val=2.81, Plg=85, Azm=136; (N) Val=0.00, Plg=5, Azm=325; (P) Val=-2.81, Plg=1, Azm=235; Best double couple: Mo=2.8*10**18 Nm; NP1: Strike=320, Dip=44, Slip=83; NP2: Strike=150, Dip=46, Slip=97. Centroid, Moment Tensor (HRV): Centroid origin time 05:04:50.9; Lat 6.72 S; Lon 154.94 E; Dep 44.0 Bdy; Half-duration 3.2 sec; Principal axes (scale 10**18 Nm): (T) Val=2.77, Plg=85, Azm=0; (N) Val=0.16, Plg=3, Azm=129; (P) Val=-2.93, Plg=4, Azm=219; Best double couple: Mo=2.8*10**18 Nm; NP1: Strike=312, Dip=42, Slip=94; NP2: Strike=126, Dip=49, Slip=86. Scalar Moment (PPT): Mo=1.1*10**18 Nm.
09	07	48	32.7&	39.301	N	27.555	E	10	G			5	TURKEY. <ISK>. MD 2.7 (ISK).
09	08	06	20.8*	55.811	S	30.188	W	33	N	4.3	1.0	10	SOUTH SANDWICH ISLANDS REGION
09	08	09	51.1?	52.18	S	139.07	E	10	G	4.2	1.3	9	WEST OF MACQUARIE ISLAND
09	08	12	37.4*	33.872	N	136.861	E	378	*		0.5	9	NEAR S. COAST OF WESTERN HONSHU
09	08	29	16.9&	39.679	N	29.485	E	10	G			5	TURKEY. <ISK>. MD 2.5 (ISK).
09	08	30	54.1&	43.900	N	3.000	E	3				7	NEAR SOUTH COAST OF FRANCE. <LDG>. ML 2.5 (LDG).
09	08	33	53.7	31.652	S	68.986	W	91	?		1.0	17	SAN JUAN PROVINCE, ARGENTINA. MD 3.7 (GUC).
09	08	39	19.8&	38.510	N	25.310	E	35				5	AEGEAN SEA. <ATH>. MD 3.6 (ATH).
09	09	18	13.2&	63.470	N	151.320	W	10				35	CENTRAL ALASKA. <AEIC>. ML 2.9 (AEIC), 3.2 (PMR).
09	09	24	55.8&	32.418	S	71.448	W	19				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.3 (GUC). Felt (III) at Petorca.
09	09	49	15.0&	39.680	N	29.483	E	10	G			4	TURKEY. <ISK>. MD 2.6 (ISK).
09	10	10	12.4	54.763	N	164.156	E	33	N	4.4	0.8	27	KOMANDORSKY ISLANDS REGION
09	10	59	03.4*	20.405	S	66.961	E	10	G	4.2	1.1	11	MAURITIUS-REUNION REGION
09	11	42	40.0&	34.990	N	27.360	E	57		4.0		51	EASTERN MEDITERRANEAN SEA. <ATH>. MD 3.9 (ATH).
09	11	44	14.3&	34.954	N	32.411	E	10				5	CYPRUS REGION. <CSS>. ML 3.2 (CSS).
09	12	09	01.6&	39.504	N	29.978	E	7				4	TURKEY. <ISK>. MD 2.8 (ISK).
09	12	50	40.0&	39.241	N	27.812	E	10	G			5	TURKEY. <ISK>. MD 2.8 (ISK).
09	13	40	51.1&	42.172	N	20.898	E	9				12	NORTHWESTERN BALKAN REGION. <PDG>. MD 3.0 (PDG). Felt at Tetovo.
09	14	09	04.0*	52.798	N	171.329	W	105	?	3.9	1.1	19	FOX ISLANDS, ALEUTIAN ISLANDS
09	14	16	50.1&	48.300	N	8.120	E	2	G			11	GERMANY. <STR>. ML 2.5 (LDG), 2.0 (STR).
09	14	41	14.2	6.593	N	126.750	E	201		5.4	0.8	76	MINDANAO, PHILIPPINE ISLANDS
09	14	54	11.8&	33.181	S	70.334	W	1				8	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
09	15	15	09.4?	4.48	S	152.16	E	163	*		1.3	7	NEW BRITAIN REGION, P.N.G.
09	15	58	52.0&	38.160	N	20.380	E	5				9	GREECE. <ATH>. MD 3.6 (ATH).
09	16	51	34.7&	34.346	S	70.263	W	11				14	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.9 (GUC).
09	18	02	34.6&	31.999	S	69.773	W	144				10	SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 3.2 (GUC).

09	18	16	20.9	20.095 S	178.160 W	567 D	5.0	0.9	120	FIJI ISLANDS REGION. Mw 5.6 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 18:16:24.1; Lat 20.36 S; Lon 177.97 W; Dep 585.6; Half- duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=2.54, Plg=42, Azm=109; (N) Val=0.68, Plg=23, Azm=222; (P) Val=-3.22, Plg=39, Azm=332; Best double couple: Mo=2.9*10**17 Nm; NP1: Strike=128, Dip=23, Slip=176; NP2: Strike=221, Dip=89, Slip=67.
09	18	27	32.5	33.144 S	70.273 W	6			9	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
09	18	38	56.5	6.388 S	145.809 E	139		0.6	8	NEW GUINEA, PAPUA NEW GUINEA
09	18	53	39.3	27.271 N	55.795 E	33 N	4.4	1.4	33	SOUTHERN IRAN
09	19	16	43.9	52.151 N	175.585 E	33 N	4.4	0.9	31	RAT ISLANDS, ALEUTIAN ISLANDS
09	19	40	29.1	46.986 N	154.055 E	33 N	5.0 4.3	0.8	134	EAST OF KURIL ISLANDS. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 19:40:30.5; Lat 46.78 N; Lon 154.70 E; Dep 32.8; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.45, Plg=70, Azm=191; (N) Val=-1.31, Plg=16, Azm=49; (P) Val=-4.14, Plg=12, Azm=315; Best double couple: Mo=4.8*10**16 Nm; NP1: Strike=26, Dip=36, Slip=62; NP2: Strike=239, Dip=59, Slip=109.
09	20	04	50.7	47.543 N	14.427 E	10 G		0.7	5	AUSTRIA. ML 2.2 (VIE).
09	20	04	59.2	37.522 N	118.821 W	4			9	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.0 (GM).
09	20	28	02.3	0.155 S	124.647 E	33 N	4.4	1.4	12	SOUTHERN MOLUCCA SEA
10	00	08	59.8	46.000 N	5.600 E	3			19	FRANCE. <LDG>. ML 2.2 (STR), 2.1 (LDG).
10	00	10	48.0	45.600 N	6.100 E	4			16	FRANCE. <LDG>. ML 2.1 (LDG).
10	00	45	45.9	40.641 N	33.131 E	0	3.8		25	TURKEY. <ISK>. MD 4.0 (ISK).
10	01	05	25.1	52.078 N	156.188 E	193 *	3.7	0.9	19	KAMCHATKA
10	01	06	02.2	0.184 S	16.368 W	10 G	4.4	0.9	11	NORTH OF ASCENSION ISLAND
10	02	22	35.7	18.02 N	106.90 W	33 N	3.7	1.3	14	OFF COAST OF JALISCO, MEXICO
10	02	50	46.2	46.973 N	150.959 E	159 ?	4.5	0.6	59	KURIL ISLANDS
10	03	24	03.2	15.89 S	174.89 W	135 ?	4.3	1.0	27	TONGA ISLANDS
10	03	54	49.0	32.944 S	70.743 W	74			11	CHILE-ARGENTINA BORDER REGION. <GUC>.
10	04	18	45.5	40.612 N	33.057 E	7			9	TURKEY. <ISK>. MD 3.5 (ISK).
10	05	05	43.3	32.261 N	48.138 E	33 N	4.4 3.5	0.9	53	WESTERN IRAN
10	06	27	55.6	35.380 N	25.940 E	5			5	CRETE. <ATH>. MD 3.5 (ATH).
10	06	38	31.5	39.282 N	27.603 E	14			4	TURKEY. <ISK>. MD 2.7 (ISK).
10	07	25	01.0	19.19 S	169.41 E	234 *	4.0	0.6	8	VANUATU ISLANDS
10	07	56	41.6	44.273 N	10.929 E	10 G		1.2	128	NORTHERN ITALY. ML 4.4 (STR), 4.3 (GRF), 4.0 (LJU), 3.8 (LDG).
10	08	20	06.2	38.150 N	20.480 E	5			5	GREECE. <ATH>. MD 3.0 (ATH).
10	08	23	05.3	7.571 N	94.406 E	33 N	4.6	0.9	23	NICOBAR ISLANDS, INDIA
10	08	47	30.5	39.744 N	29.326 E	10 G			4	TURKEY. <ISK>. MD 2.6 (ISK).
10	09	15	08.0	39.741 N	29.373 E	10 G			4	TURKEY. <ISK>. MD 2.6 (ISK).
10	09	19	11.5	21.530 N	143.231 E	344 ?	3.6	1.3	13	MARIANA ISLANDS REGION
10	09	19	17.2	39.242 N	27.662 E	5			5	TURKEY. <ISK>. MD 2.8 (ISK).
10	09	22	41.9	38.967 N	27.724 E	10 G			6	TURKEY. <ISK>. MD 2.8 (ISK).
10	09	24	08.3	4.966 S	153.780 E	132 *	4.4	0.9	16	NEW IRELAND REGION, P.N.G.
10	09	45	46.0	8.464 N	126.699 E	65 ?	4.4	1.3	20	MINDANAO, PHILIPPINE ISLANDS
10	10	24	49.2	35.916 N	0.710 W	10 G		0.9	54	NORTHERN ALGERIA. mbLg 3.2 (MDD).
10	11	18	45.9	39.866 N	20.790 E	5 G		1.2	16	GREECE-ALBANIA BORDER REGION. MD 3.3 (ATH), 3.1 (PDG).
10	11	27	17.6	40.678 N	29.994 E	8			11	TURKEY. <ISK>. MD 3.1 (ISK).
10	11	27	21.4	37.450 N	4.430 W	1			7	SPAIN. <MDD>. mbLg 2.0 (MDD).
10	11	32	04.2	39.055 N	27.731 E	9			12	TURKEY. <ISK>. MD 3.5 (ATH), 3.2 (ISK).
10	11	58	22.3	45.256 S	14.845 W	10 G	4.4 4.1	1.3	15	SOUTHERN MID-ATLANTIC RIDGE
10	12	07	15.2	10.207 N	125.431 E	127	4.5	1.0	20	LEYTE, PHILIPPINE ISLANDS
10	12	38	36.3	63.610 N	151.120 W	4			17	CENTRAL ALASKA. <AEIC>. ML 2.6 (AEIC).
10	12	38	36.3	63.610 N	151.120 W	4			6	WINDWARD ISLANDS. <TRN>. MD 3.0 (TRN).
10	13	01	00.0	11.178 N	61.556 W	29			7	TURKEY. <ISK>. MD 2.8 (ISK).
10	13	01	00.0	11.178 N	61.556 W	29			6	TURKEY. <ISK>. MD 3.2 (ISK).
10	13	32	00.0	39.114 N	27.531 E	2			9	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.1 (GUC).
10	14	24	11.0	38.995 N	70.274 W	111			5	TURKEY. <ISK>. MD 3.0 (ISK).
10	14	33	21.7	38.995 N	29.973 E	5			5	POLAND. ML 3.1 (VIE).
10	15	48	03.3	51.480 N	16.400 E	5 G		1.0	7	LAKE BAYKAL REGION, RUSSIA
10	16	02	55.2	55.393 N	110.268 E	10 G		1.0	6	FRANCE. <GEN>. ML 2.6 (GEN), 2.5 (LDG), 2.3 (STR).
10	16	33	11.0	44.261 N	6.525 E	1			45	ANDREANOF ISLANDS, ALEUTIAN IS.
10	17	42	16.1	51.83 N	179.45 W	33 N	3.4	1.5	8	POLAND. ML 3.4 (VIE).
10	17	54	38.5	51.592 N	16.233 E	5 G		0.7	7	TURKEY. <ISK>. MD 2.7 (ISK).
10	18	56	16.0	39.820 N	26.538 E	8			4	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
10	19	18	00.9	33.963 N	116.362 W	6			25	CHILE-ARGENTINA BORDER REGION. <GUC>.
10	21	42	10.5	32.879 S	70.310 W	103			10	NEAR COAST OF NICARAGUA. MD 4.2 (CASC).
10	21	44	01.7	12.547 N	87.964 W	33 N	4.3	1.5	26	TAJIKISTAN
10	22	15	32.7	37.222 N	72.642 E	150 G	4.2	1.3	43	NEAR EAST COAST OF KAMCHATKA
10	23	06	04.4	54.356 N	161.634 E	33 N	4.3	1.2	21	TONGA ISLANDS
10	23	14	47.3	19.340 S	173.633 W	33 N	4.4	0.9	14	WINDWARD ISLANDS. <TRN>. MD 2.9 (TRN).
10	23	27	38.8	11.105 N	62.043 W	104			4	SOUTHEAST OF TAIWAN
11	00	44	56.5	22.852 N	123.030 E	10 G	4.7	1.3	17	ADRIATIC SEA
11	01	26	52.1	44.161 N	13.842 E	10 G		0.7	29	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.0 (MDD).
11	01	44	16.5	35.600 N	4.000 W	3			8	CENTRAL PERU
11	02	42	03.1	14.84 S	72.22 W	113 ?	4.3	0.6	5	LEEWARD ISLANDS. <FDF>. MD 3.2 (FDF).
11	02	57	02.8	15.738 N	60.482 W	30			6	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.8 (GUC).
11	04	06	19.9	32.914 S	70.244 W	104			13	OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
11	05	40	45.8	33.373 S	72.312 W	3			15	NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 3.8 (UNM).
11	06	30	23.2	15.953 N	97.510 W	16			6	VANUATU ISLANDS
11	06	46	58.4	18.995 S	169.196 E	260	4.5	1.0	30	NORTHERN ITALY. <GEN>. ML 1.7 (GEN).
11	07	41	23.6	44.351 N	7.303 E	14			5	NORTHERN CHILE
11	08	01	55.9	18.002 S	69.198 W	106 ?	4.0	1.5	6	TURKEY. <ISK>. MD 2.8 (ISK).
11	08	10	13.5	39.006 N	27.569 E	10 G			5	GREECE. <ATH>. MD 2.8 (ATH).
11	08	14	55.4	38.840 N	21.180 E	15			4	CENTRAL MEDITERRANEAN SEA. <ATH>. MD 3.4 (ATH).
11	08	47	56.4	36.950 N	20.430 E	5			4	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.2 (GUC).
11	09	19	20.7	34.268 S	70.093 W	7			8	KENAI PENINSULA, ALASKA. <AEIC>. ML 3.4 (AEIC), 3.4 (PMR).
11	09	24	03.8	60.582 N	151.698 W	64			44	WINDWARD ISLANDS. <TRN>. MD 4.0 (FDF), 3.9 (TRN).
11	11	05	20.9	11.734 N	61.027 W	34	3.9		27	PUERTO RICO REGION. <MPR>. MD 3.4 (MPR).
11	11	11	55.8	18.975 N	65.044 W	112			5	NEAR COAST OF OAXACA, MEXICO. MD 4.4 (UNM).
11	11	24	41.6	15.277 N	94.632 W	33 N	4.0	0.9	27	

11	11	42	55.0&	34.266	S	70.110	W	7							9	CHILE-ARGENTINA BORDER REGION. <GUC>.
11	11	43	21.9&	34.288	S	70.118	W	9							7	CHILE-ARGENTINA BORDER REGION. <GUC>.
11	11	51	14.1	16.432	N	59.663	W	61	D	4.9	1.3	106				LEeward ISLANDS. Mw 5.2 (HRV). MD 5.2 (TRN). Felt on Guadeloupe and Martinique.
																Centroid, Moment Tensor (HRV): Centroid origin time 11:51:19.1; Lat 16.90 N; Lon 60.32 W; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=7.86, Plg=28, Azm=246; (N) Val=-0.98, Plg=61, Azm=82; (P) Val=-6.89, Plg=7, Azm=339; Best double couple: Mo=7.4*10**16 Nm; NP1: Strike=26, Dip=65, Slip=16; NP2: Strike=289, Dip=76, Slip=154.
11	12	52	53.8?	24.22	S	179.21	E	582	?	4.1	0.5	14				SOUTH OF FIJI ISLANDS
11	14	14	16.5	15.782	N	88.330	W	10	G	6.0	6.6	1.0	434			HONDURAS. Mw 6.7 (GS), 6.7 (HRV). Me 7.0 (GS). Ms 6.7 (BRK). One person killed and another person died from a heart attack; at least 40 people injured in the Izabal-Puerto Barrios area, Guatemala. Seven houses destroyed, forty-one houses sustained considerable damage; bridges and highways damaged in the Izabal-Puerto Barrios area, Guatemala. Minor damage in western Honduras. Felt throughout most of Honduras and in eastern Guatemala. Felt in Belize, El Salvador and at Villahermosa, Mexico.
																Broadband Source Parameters (GS): Dep 15; NP1: Strike=345, Dip=85, Slip=180; NP2: Strike=255, Dip=90, Slip=-5; Radiated energy 8.0*10**14 Nm.
																Moment Tensor (GS): Dep 14; Principal axes (scale 10**19 Nm): (T) Val=1.20, Plg=14, Azm=302; (N) Val=0.03, Plg=75, Azm=149; (P) Val=-1.23, Plg=7, Azm=33; Best double couple: Mo=1.2*10**19 Nm; NP1: Strike=78, Dip=75, Slip=5; NP2: Strike=347, Dip=85, Slip=165.
																Centroid, Moment Tensor (HRV): Centroid origin time 14:14:24.6; Lat 16.04 N; Lon 88.53 W; Dep 15.0 Bd; Half-duration 5.4 sec; Principal axes (scale 10**19 Nm): (T) Val=1.14, Plg=1, Azm=301; (N) Val=0.16, Plg=75, Azm=34; (P) Val=-1.30, Plg=15, Azm=211; Best double couple: Mo=1.2*10**19 Nm; NP1: Strike=347, Dip=79, Slip=-170; NP2: Strike=255, Dip=80, Slip=-11.
11	14	31	59.3	15.828	N	88.610	W	10	G	4.8	1.4	44				HONDURAS. MD 4.5 (CASC).
11	14	52	10.8	4.459	S	153.017	E	33	N	5.3	0.9	133				NEW IRELAND REGION, P.N.G.
11	14	53	42.7	15.773	N	88.907	W	10	G	4.2	1.3	21				HONDURAS
11	15	26	39.7*	53.693	S	3.243	E	10	G	4.6	1.3	12				BOUVET ISLAND REGION
11	15	38	48.3*	4.142	S	128.164	E	33	N	4.2	1.0	11				BANDA SEA
11	16	03	54.4&	35.060	N	4.190	W	14				23				STRAIT OF GIBRALTAR. <MDD>. mbLg 2.9 (MDD).
11	16	47	36.3*	7.260	S	129.553	E	144	*	4.5	1.3	14				BANDA SEA
11	16	49	52.1*	23.979	N	121.842	E	33	N		0.9	10				TAIWAN
11	16	56	45.5&	37.030	N	21.530	E	5				4				SOUTHERN GREECE. <ATH>. MD 3.0 (ATH).
11	17	14	59.5	45.097	N	12.983	E	10	G		1.1	21				NORTHERN ITALY. ML 3.0 (VIE). MD 2.5 (LJU).
11	17	15	54.5*	4.099	S	128.013	E	33	N	4.5	1.4	16				BANDA SEA
11	17	30	36.4*	3.551	S	102.677	E	170	?	4.4	1.0	20				SOUTHERN SUMATERA, INDONESIA
11	17	52	47.8&	34.014	S	71.499	W	39				5				NEAR COAST OF CENTRAL CHILE. <GUC>.
11	18	07	14.6*	11.023	S	77.744	W	74	D	4.1	0.9	15				NEAR COAST OF PERU. Felt (III) at Chancay and (II) at Lima.
11	18	20	46.8&	35.731	N	118.479	W	5		4.6		75				CENTRAL CALIFORNIA. <PAS-P>. Mw 4.3 (BRK). ML 4.4 (PAS). Felt in the Lake Isabella area.
																Moment Tensor (BRK): Dep 8; Principal axes (scale 10**15 Nm): (T) Val=2.76, Plg=6, Azm=257; (N) Val=0.00, Plg=2, Azm=347; (P) Val=-2.76, Plg=84, Azm=95; Best double couple: Mo=2.8*10**15 Nm; NP1: Strike=169, Dip=51, Slip=-88; NP2: Strike=345, Dip=39, Slip=-93.
11	18	22	11.8&	35.733	N	118.478	W	4				20				CENTRAL CALIFORNIA. <PAS-P>. ML 3.7 (PAS). Felt in the Lake Isabella area.
11	18	29	55.9&	35.736	N	118.478	W	4		3.1		44				CENTRAL CALIFORNIA. <PAS-P>. ML 3.4 (PAS). Felt in the Lake Isabella area.
11	18	57	21.0&	45.500	N	5.400	E	3				12				FRANCE. <LDG>. ML 2.0 (STR), 1.9 (LDG).
11	19	07	54.0&	38.860	N	21.250	E	17				4				GREECE. <ATH>. MD 2.9 (ATH).
11	20	05	56.2&	53.290	S	72.160	W	36				10				NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).
11	20	08	47.5&	53.834	N	165.171	W	59				9				FOX ISLANDS, ALEUTIAN ISLANDS. <AEIC>. ML 3.3 (AEIC).
11	20	09	21.4	15.730	N	88.572	W	10	G	4.5	1.3	61				HONDURAS. MD 4.2 (CASC).
11	20	09	31.4*	32.026	S	68.637	W	202	?		0.3	13				MENDOZA PROVINCE, ARGENTINA. MD 3.5 (GUC).
11	20	16	06.1&	40.701	N	29.745	E	10	G			5				TURKEY. <ISK>. MD 2.8 (ISK).
11	20	17	25.7	15.260	N	88.415	W	10	G	4.5	1.1	32				HONDURAS
11	20	23	33.9*	47.763	S	100.736	E	10	G	4.4	1.0	10				SOUTHEAST INDIAN RIDGE
11	20	25	10.0	24.542	N	121.834	E	79		4.7	1.2	34				TAIWAN. Felt (III JMA) at I-lan, (II JMA) at Taipei and (I JMA) at Hua-lien. Felt in northern and central Taiwan.
11	20	25	18.9	44.234	N	13.730	E	10	G		0.8	35				ADRIATIC SEA
11	20	33	37.3&	35.736	N	118.481	W	5				11				CENTRAL CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
11	21	41	33.0&	61.714	N	149.767	W	36				37				SOUTHERN ALASKA. <AEIC>. ML 3.1 (AEIC), 3.4 (PMR).
11	21	43	37.9&	18.938	N	64.371	W	106				9				VIRGIN ISLANDS. <MPR>. MD 3.7 (MPR).
11	21	50	38.6&	40.444	N	25.898	E	10	G			6				AEIGIAN SEA. <ISK>. MD 3.2 (ISK).
11	22	16	41.5&	32.606	N	116.154	W	7				25				CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.4 (PAS). MD 3.4 (ECX).
11	22	32	41.1&	18.059	N	66.971	W	7				8				PUERTO RICO REGION. <MPR>. MD 2.9 (MPR).
11	22	44	27.2&	62.898	N	151.243	W	109				33				CENTRAL ALASKA. <AEIC>.
11	22	56	07.3&	47.000	N	0.000	E	4				14				FRANCE. <LDG>. ML 2.1 (LDG).
12	00	11	11.0*	20.794	N	146.165	E	60	?	4.6	1.2	27				MARIANA ISLANDS REGION
12	00	23	36.8&	16.068	N	98.595	W	16				10				NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.1 (UNM).
12	00	34	33.5&	15.980	N	98.637	W	20				8				OFF COAST OF GUERRERO, MEXICO. <UNM>. MD 4.1 (UNM).
12	00	51	51.8&	37.010	N	5.440	W	0	G			15				SPAIN. <MDD>. mbLg 2.3 (MDD).
12	01	41	16.6&	44.122	N	7.135	E	10				15				NORTHERN ITALY. <GEN>. ML 2.1 (LDG), 2.0 (GEN).
12	01	49	31.9&	31.945	S	71.124	W	34				7				NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
12	02	07	49.8&	31.509	S	70.831	W	135				8				CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
12	02	09	38.2&	39.615	N	28.837	E	5				6				TURKEY. <ISK>. MD 2.7 (ISK).
12	02	23	57.0&	15.923	N	98.553	W	16				17				OFF COAST OF GUERRERO, MEXICO. <UNM>. MD 4.5 (UNM).
12	02	48	41.9	16.322	N	98.375	W	33	N	4.8	4.0	1.0	100			NEAR COAST OF GUERRERO, MEXICO. MD 4.7 (UNM).
12	03	13	35.7&	39.193	N	27.432	E	10	G			4				TURKEY. <ISK>. MD 2.7 (ISK).

12 03 42 16.9 30.069 N 69.419 E 52 * 5.4 5.6 1.0 321 PAKISTAN. Mw 5.7 (HRV), 5.6 (GS). A landslide blocked a road between Barkhan and Kohlu. Felt in the epicentral area. Moment Tensor (GS): Dep 4; Principal axes (scale 10**17 Nm): (T) Val=2.92, Plg=73, Azm=255; (N) Val=0.08, Plg=14, Azm=37; (P) Val=-3.00, Plg=10, Azm=130; Best double couple: Mo=3.0*10**17 Nm; NP1: Strike=237, Dip=37, Slip=114; NP2: Strike=28, Dip=57, Slip=73. Centroid, Moment Tensor (HRV): Centroid origin time 03:42:17.4; Lat 29.90 N; Lon 69.66 E; Dep 15.0 Bdy; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=2.94, Plg=40, Azm=233; (N) Val=1.43, Plg=50, Azm=45; (P) Val=-4.37, Plg=4, Azm=140; Best double couple: Mo=3.7*10**17 Nm; NP1: Strike=269, Dip=60, Slip=152; NP2: Strike=13, Dip=66, Slip=33.

12 04 14 33.1* 6.427 S 154.633 E 100 * 4.3 1.1 20 SOLOMON ISLANDS

12 04 54 22.2 44.242 N 10.918 E 10 G 1.4 75 NORTHERN ITALY. ML 3.4 (LDG), 3.1 (TRI).

12 05 14 47.3* 51.474 N 176.641 W 41 D 4.4 1.3 33 ANDREANOF ISLANDS, ALEUTIAN IS.

12 05 22 21.4 36.157 N 76.265 E 130 D 4.4 0.7 34 KASHMIR-XINJIANG BORDER REGION

12 05 31 09.0 12.087 N 143.786 E 33 N 5.0 1.2 55 SOUTH OF MARIANA ISLANDS

12 05 57 59.0 5.513 N 126.709 E 33 N 5.6 5.1 0.9 163 MINDANAO, PHILIPPINE ISLANDS. Mw 5.7 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 05:58:04.9; Lat 5.66 N; Lon 127.11 E; Dep 51.3; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=3.85, Plg=59, Azm=215; (N) Val=0.12, Plg=30, Azm=48; (P) Val=-3.98, Plg=6, Azm=315; Best double couple: Mo=3.9*10**17 Nm; NP1: Strike=15, Dip=47, Slip=46; NP2: Strike=250, Dip=58, Slip=127.

12 06 28 45.4& 34.485 N 32.276 E 25 5 CYPRUS REGION. <CSS>. ML 2.9 (CSS).

12 07 04 40.2& 32.877 S 70.408 W 4 10 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.6 (GUC).

12 07 10 31.5& 19.080 N 68.359 W 11 9 NORTH ATLANTIC OCEAN. <MPR>. MD 3.6 (MPR).

12 07 21 14.8& 40.604 N 29.230 E 5 9 TURKEY. <ISK>. MD 2.9 (ISK).

12 07 29 32.8& 37.170 N 20.730 E 5 4 IONIAN SEA. <ATH>. MD 3.2 (ATH).

12 07 49 52.3& 18.713 N 64.504 W 98 9 VIRGIN ISLANDS. <MPR>. MD 3.6 (MPR).

12 08 11 28.9& 39.653 N 29.501 E 11 5 TURKEY. <ISK>. MD 2.6 (ISK).

12 08 30 42.0* 26.093 S 179.336 W 502 ? 4.2 1.2 17 SOUTH OF FIJI ISLANDS

12 08 35 54.2& 33.394 S 72.346 W 34 8 OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).

12 11 23 36.5 14.886 S 167.346 E 125 * 4.8 1.0 101 VANUATU ISLANDS

12 12 01 44.3* 30.962 S 71.354 W 10 G 1.0 13 NEAR COAST OF CENTRAL CHILE. MD 4.1 (GUC).

12 12 03 17.3& 39.193 N 27.442 E 10 6 TURKEY. <ISK>. MD 2.8 (ISK).

12 12 05 17.5* 41.448 S 85.595 W 10 G 5.1 4.5 1.0 40 WEST CHILE RISE. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 12:05:24.4; Lat 40.49 S; Lon 86.17 W; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.38, Plg=0, Azm=256; (N) Val=0.84, Plg=0, Azm=166; (P) Val=-5.21, Plg=90, Azm=180; Best double couple: Mo=4.8*10**16 Nm; NP1: Strike=346, Dip=45, Slip=-90; NP2: Strike=166, Dip=45, Slip=-90.

12 12 31 50.0 16.490 N 98.438 W 33 N 4.2 1.3 44 NEAR COAST OF GUERRERO, MEXICO. MD 4.4 (UNM).

12 13 35 49.4* 1.005 S 120.706 E 33 N 4.4 1.3 13 SULAWESI, INDONESIA

12 13 42 48.6* 3.293 S 133.980 E 33 N 4.1 1.4 14 IRIAN JAYA REGION, INDONESIA

12 14 36 29.6& 35.734 N 118.476 W 5 30 CENTRAL CALIFORNIA. <PAS-P>. ML 3.0 (PAS).

12 15 41 25.5& 31.302 S 71.522 W 33 12 NEAR COAST OF CENTRAL CHILE. <GUC>.

12 15 47 31.1& 35.731 N 118.482 W 5 10 CENTRAL CALIFORNIA. <PAS-P>. ML 2.9 (PAS).

12 16 13 47.2& 44.536 N 7.025 E 7 17 NORTHERN ITALY. <GEN>. ML 2.1 (GEN), 1.8 (LDG).

12 16 19 19.0& 40.110 N 21.920 E 5 6 GREECE. <ATH>. MD 3.0 (ATH).

12 16 36 32.5& 53.811 N 166.537 W 10 5 FOX ISLANDS, ALEUTIAN ISLANDS. <AEIC>. ML 2.6 (AEIC).

12 16 42 05.4& 19.158 N 64.887 W 69 8 VIRGIN ISLANDS. <MPR>. MD 3.6 (MPR).

12 17 01 22.1* 21.717 N 143.083 E 295 ? 4.2 1.1 20 MARIANA ISLANDS REGION

12 17 01 22.1* 21.717 N 143.083 E 295 ? 4.2 1.1 19 KERMADEC ISLANDS REGION

12 17 31 22.1* 21.717 N 143.083 E 295 ? 4.2 1.1 8 NORTH ATLANTIC OCEAN

12 17 49 22.9& 16.223 S 7.240 W 8 12 NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.2 (UNM).

12 17 59 57.5& 44.498 N 7.174 E 0 5 NORTHERN ITALY. <GEN>. ML 1.7 (GEN).

12 18 20 41.3* 44.34 S 79.39 W 10 G 4.2 1.3 12 OFF COAST OF SOUTHERN CHILE

12 18 26 37.2* 49.398 N 155.751 E 33 N 4.4 1.2 15 KURIL ISLANDS

12 18 39 32.6 58.135 N 32.370 W 10 G 4.5 4.4 1.1 34 NORTH ATLANTIC OCEAN

12 18 43 06.0& 61.804 N 149.625 W 40 56 SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).

12 18 44 46.7* 58.260 N 32.728 W 10 G 4.1 1.0 17 NORTH ATLANTIC OCEAN

12 18 47 18.5* 17.407 N 145.955 E 157 ? 4.0 1.2 19 MARIANA ISLANDS

12 19 10 27.6* 30.565 N 131.387 E 33 N 4.1 1.3 14 KYUSHU, JAPAN

12 19 11 53.7& 46.300 N 7.500 E 2 6 SWITZERLAND. <LDG>. ML 2.1 (LDG).

12 19 54 26.6* 9.88 S 160.27 E 33 N 1.3 6 SOLOMON ISLANDS

12 21 09 35.6& 34.800 N 26.130 E 5 6 CRETE. <ISK>. MD 3.7 (ISK).

12 21 20 14.2& 33.248 S 72.792 W 22 9 OFF COAST OF CENTRAL CHILE. <GUC>.

12 21 21 40.7& 39.057 N 40.051 E 4 7 TURKEY. <ISK>. MD 3.8 (ISK).

12 21 45 59.3 33.110 N 75.768 E 74 * 0.7 9 EASTERN KASHMIR

12 22 25 48.1* 37.095 N 20.676 E 33 N 3.7 1.5 22 IONIAN SEA. MD 3.8 (ATH).

12 22 31 11.8& 61.620 N 150.607 W 10 40 SOUTHERN ALASKA. <AEIC>. ML 3.1 (AEIC), 3.2 (PMR).

12 22 51 23.9* 9.284 N 94.748 E 33 N 4.5 0.6 8 NICOBAR ISLANDS, INDIA

12 23 27 55.5* 5.316 N 126.023 E 105 * 4.2 1.4 18 MINDANAO, PHILIPPINE ISLANDS

12 23 33 55.5& 32.620 S 71.855 W 24 12 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).

12 23 39 41.6* 58.492 N 32.477 W 10 G 4.3 0.9 19 NORTH ATLANTIC OCEAN

13 00 28 14.0* 14.951 S 73.308 W 96 * 4.2 1.1 18 CENTRAL PERU

13 00 38 44.6& 39.104 N 27.942 E 5 5 TURKEY. <ISK>. MD 2.8 (ISK).

13 00 57 36.0* 40.86 S 85.57 W 10 G 4.5 1.3 10 WEST CHILE RISE

13 01 08 16.3& 36.800 N 3.070 W 16 9 STRAIT OF GIBRALTAR. <MDD>. mbLg 2.1 (MDD).

13 01 17 06.5& 38.790 N 21.580 E 5 10 GREECE. <ATH>. MD 3.2 (ATH).

13 02 23 53.7 20.687 N 146.027 E 72 * 4.8 4.5 1.1 59 MARIANA ISLANDS REGION

13 02 45 55.1& 33.945 S 70.138 W 7 12 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).

13 03 21 01.0& 32.593 S 71.511 W 15 9 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).

13 03 39 34.8& 17.471 N 95.105 W 174 5 OAXACA, MEXICO. <UNM>. MD 3.8 (UNM).

13 04 03 10.8 2.121 N 126.837 E 33 N 5.0 4.1 1.1 44 NORTHERN MOLUCCA SEA. Mw 5.0 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 04:03:19.2; Lat 2.44 N; Lon 126.52 E; Dep 36.1; Half-

duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=3.55, Plg=78, Azm=16; (N) Val=-0.35, Plg=4, Azm=266; (P) Val=-3.20, Plg=11, Azm=175; Best double couple: Mo=3.4*10**16 Nm; NPl: Strike=259, Dip=34, Slip=82; NP2: Strike=88, Dip=56, Slip=95.

13 04 17 22.3& 60.282 N 151.135 W 53 21 KENAI PENINSULA, ALASKA. <AEIC>. ML 2.5 (AEIC).

13 04 28 21.3* 34.550 N 140.639 E 33 N 3.7 1.1 11 NEAR EAST COAST OF HONSHU, JAPAN

13 05 11 12.5* 43.785 N 21.036 E 10 G 1.0 10 NORTHWESTERN BALKAN REGION. MD 3.0 (PDG).

13 06 47 23.1& 18.368 N 99.867 W 40 12 GUERRERO, MEXICO. <UNM>. MD 3.5 (UNM).

13 07 14 03.8 23.294 S 67.981 W 145 4.3 1.1 32 CHILE-ARGENTINA BORDER REGION

13 07 42 34.0? 10.99 S 164.34 E 33 N 4.2 1.5 9 SANTA CRUZ ISLANDS REGION

13 08 56 33.6& 39.684 N 29.469 E 10 G 4 TURKEY. <ISK>. MD 2.7 (ISK).

13 10 00 53.5& 60.221 N 152.565 W 96 36 SOUTHERN ALASKA. <AEIC>.

13 10 05 41.9& 55.344 N 158.791 W 60 17 ALASKA PENINSULA. <AEIC>. ML 3.7 (AEIC).

13 10 09 22.4? 45.66 N 26.73 E 150 G 0.7 5 ROMANIA

13 11 05 15.7* 57.070 S 140.723 W 10 G 4.8 4.2 1.3 14 PACIFIC-ANTARCTIC RIDGE

13 11 16 43.4? 31.30 S 68.48 W 100 G 1.2 12 SAN JUAN PROVINCE, ARGENTINA. MD 3.4 (GUC).

13 12 26 42.2? 35.49 S 104.07 W 10 G 4.8 5.1 0.7 13 SOUTHERN PACIFIC OCEAN. Mw 5.6 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 12:26:49.2; Lat 35.78 S; Lon 104.15 W; Dep 15.0 Fix; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.52, Plg=18, Azm=54; (N) Val=-0.33, Plg=63, Azm=185; (P) Val=-2.19, Plg=19, Azm=318; Best double couple: Mo=2.4*10**17 Nm; NPl: Strike=96, Dip=63, Slip=-179; NP2: Strike=6, Dip=89, Slip=-27.

13 13 02 30.6 13.749 N 90.420 W 70 D 5.2 4.8 1.0 187 NEAR COAST OF GUATEMALA. Mw 5.6 (HRV). MD 4.8 (CASC). Felt in El Salvador, Guatemala and southern Mexico.

Centroid, Moment Tensor (HRV): Centroid origin time 13:02:30.7; Lat 13.53 N; Lon 90.79 W; Dep 66.2; Half-duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=3.08, Plg=13, Azm=31; (N) Val=-0.36, Plg=4, Azm=121; (P) Val=-2.71, Plg=76, Azm=227; Best double couple: Mo=2.9*10**17 Nm; NPl: Strike=115, Dip=32, Slip=-97; NP2: Strike=304, Dip=58, Slip=-86.

13 13 10 57.4 45.533 N 26.464 E 150 G 0.9 18 ROMANIA

13 15 49 08.3 12.632 N 88.335 W 33 N 4.4 1.0 27 OFF COAST OF CENTRAL AMERICA. MD 4.4 (CASC).

13 15 52 46.6 7.094 S 107.088 E 33 N 5.1 1.2 63 JAWA, INDONESIA. Mw 5.2 (HRV). Felt (III) at Jakarta and Pelabuhanratu.

Centroid, Moment Tensor (HRV): Centroid origin time 15:52:59.7; Lat 6.69 S; Lon 107.44 E; Dep 36.7; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.64, Plg=55, Azm=162; (N) Val=-0.45, Plg=2, Azm=70; (P) Val=-6.19, Plg=34, Azm=339; Best double couple: Mo=6.4*10**16 Nm; NPl: Strike=62, Dip=11, Slip=82; NP2: Strike=251, Dip=80, Slip=92.

13 16 20 56.0 12.334 N 88.398 W 33 N 4.5 4.0 1.4 49 OFF COAST OF CENTRAL AMERICA. MD 4.4 (CASC).

13 17 12 16.6? 4.71 S 102.75 E 33 N 4.3 0.8 6 SOUTHERN SUMATERA, INDONESIA

13 17 27 55.7& 36.940 N 3.690 W 0 20 STRAIT OF GIBRALTAR. <MDD>. mbLg 2.9 (MDD). Felt (II) at Albuñuelas and Jayena, Spain.

13 20 16 03.1* 14.959 S 167.428 E 163 ? 4.7 1.1 24 VANUATU ISLANDS

13 20 47 01.6 47.556 N 7.761 E 10 G 1.4 35 SWITZERLAND. ML 3.3 (LDG), 3.2 (FBB), 3.0 (STR), 3.0 (VIE).

13 20 55 24.3& 47.530 N 7.700 E 2 8 SWITZERLAND. <STR>. ML 2.0 (STR), 1.9 (FBB).

13 21 14 19.5& 33.245 S 70.372 W 7 8 CHILE-ARGENTINA BORDER REGION. <GUC>.

13 21 19 53.8& 33.503 S 70.837 W 74 11 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).

13 21 33 28.9& 35.780 N 26.520 E 5 10 CRETE. <ATH>. MD 3.8 (ATH).

13 21 49 24.6* 16.065 N 98.443 W 33 N 4.4 1.2 43 NEAR COAST OF GUERRERO, MEXICO. MD 4.7 (UNM).

13 21 53 09.5* 15.639 N 98.385 W 33 N 4.5 1.5 37 OFF COAST OF GUERRERO, MEXICO. MD 4.5 (UNM).

13 23 06 10.3 47.078 N 153.964 E 33 N 5.1 4.3 1.0 97 KURIL ISLANDS

13 23 06 34.3* 53.603 N 160.771 E 33 N 5.0 4.1 1.1 36 NEAR EAST COAST OF KAMCHATKA

13 23 36 26.4& 40.562 N 26.132 E 6 24 TURKEY. <ISK>. MD 3.9 (ATH), 3.6 (ISK).

13 23 42 57.9& 36.968 N 9.655 W 33 N 1.1 13 WEST OF GIBRALTAR. mbLg 2.0 (MDD).

13 23 48 39.4& 44.423 N 6.932 E 2 7 FRANCE. <GEN>. ML 1.6 (GEN).

14 00 03 50.7& 33.566 S 70.758 W 75 8 CHILE-ARGENTINA BORDER REGION. <GUC>.

14 00 15 33.1& 40.432 N 26.023 E 9 13 TURKEY. <ISK>. MD 3.4 (ATH), 3.3 (ISK).

14 00 50 13.7& 60.028 N 152.641 W 97 32 SOUTHERN ALASKA. <AEIC>.

14 01 01 50.2* 48.567 N 149.850 E 400 G 3.9 1.0 12 NORTHWEST OF KURIL ISLANDS

14 01 39 24.8& 13.354 N 60.471 W 69 7 WINDWARD ISLANDS. <TRN>. MD 3.1 (TRN), 2.5 (FDF).

14 01 45 13.9* 13.863 N 120.715 E 219 1.3 10 MINDORO, PHILIPPINE ISLANDS

14 02 02 51.4? 21.57 N 145.96 E 33 N 1.1 6 MARIANA ISLANDS REGION

14 02 27 19.8* 6.908 S 129.451 E 148 * 4.1 1.0 11 BANDA SEA

14 02 28 01.5* 22.038 N 145.655 E 41 D 1.2 14 NORTH PACIFIC OCEAN

14 02 29 04.0& 19.325 N 68.875 W 57 4 NORTH ATLANTIC OCEAN. <MPR>. MD 3.1 (MPR).

14 02 34 51.7& 21.722 N 145.568 E 33 N 1.2 9 MARIANA ISLANDS REGION

14 02 45 10.8& 48.000 N 3.500 W 13 6 FRANCE. <LDG>. ML 1.8 (LDG).

14 03 54 37.0& 35.659 N 0.676 W 10 G 0.6 21 NORTHERN ALGERIA. mbLg 2.4 (MDD).

14 04 06 04.1* 51.560 N 16.082 E 5 G 0.6 10 POLAND. ML 3.2 (VIE), 2.6 (CLL).

14 04 17 44.2& 40.739 N 29.839 E 10 G 4 TURKEY. <ISK>. MD 2.7 (ISK).

14 05 33 50.6& 62.767 N 149.838 W 76 42 CENTRAL ALASKA. <AEIC>.

14 05 50 56.1? 24.91 N 109.52 W 10 G 3.5 1.0 9 GULF OF CALIFORNIA

14 06 17 12.6& 33.190 N 115.565 W 1 9 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).

14 06 18 53.4* 20.769 S 168.306 E 33 N 4.8 1.2 15 LOYALTY ISLANDS

14 06 27 40.8& 54.078 N 164.062 W 17 23 UNIMAK ISLAND REGION. <AEIC>. ML 3.5 (AEIC).

14 07 10 06.3& 31.990 S 70.744 W 101 7 CHILE-ARGENTINA BORDER REGION. <GUC>.

14 07 57 58.2& 32.893 N 115.508 W 12 7 CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.1 (PAS).

Double event. Felt in the Brawley area, California.

14 08 02 32.0& 58.377 N 154.899 W 102 4.0 92 ALASKA PENINSULA. <AEIC>.

14 08 07 16.4& 39.674 N 29.432 E 8 6 TURKEY. <ISK>. MD 2.6 (ISK).

14 08 13 25.3& 35.426 S 71.008 W 141 8 CENTRAL CHILE. <GUC>.

14 08 53 47.4& 39.104 N 27.653 E 10 G 5 TURKEY. <ISK>. MD 2.8 (ISK).

14 08 54 57.1& 39.320 N 27.737 E 10 G 7 TURKEY. <ISK>. MD 2.7 (ISK).

14 08 57 55.7& 38.280 N 20.330 E 5 5 GREECE. <ATH>. MD 3.1 (ATH).

14 08 59 51.5* 36.391 N 71.232 E 72 ? 1.2 10 AFGHANISTAN-TAJIKISTAN BORD REG.

14 10 07 43.2* 44.799 N 10.426 E 10 G 1.0 10 NORTHERN ITALY. ML 2.9 (LDG), 2.8 (VIE).

14	10	31	53.9&	32.117 S	70.666 W	70										8	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).
14	11	15	23.8&	14.950 N	60.558 W	28										4	WINDWARD ISLANDS. <PDF>. MD 2.4 (FDF).
14	11	41	20.3*	18.436 N	147.255 E	33 N	4.6	1.1								22	MARIANA ISLANDS REGION
14	11	46	32.0&	35.019 S	70.350 W	148										6	CHILE-ARGENTINA BORDER REGION. <GUC>.
14	12	01	49.8	29.583 S	71.155 W	65	4.8	0.9								49	NEAR COAST OF CENTRAL CHILE. Felt (IV) at La Higuera; (III) at Copiapo, Coquimbo, La Serena, Paihuano and Vicuna; (II) at Alto del Carmen, Andacollo, Tierra Amarilla and Villenar.
14	12	06	14.7	15.922 N	88.514 W	10 G	4.5	0.8								44	HONDURAS. MD 4.4 (CASC). Felt at Puerto Barrios, Guatemala.
14	12	11	49.4*	57.882 N	156.952 W	33 N		0.8								6	ALASKA PENINSULA. ML 3.4 (PMR).
14	12	49	46.1&	14.846 N	60.907 W	115										10	WINDWARD ISLANDS. <PDF>. MD 2.9 (FDF).
14	13	12	38.2*	15.764 N	89.283 W	10 G	3.9	1.4								13	GUATEMALA. MD 4.2 (CASC).
14	13	54	09.7&	59.963 N	153.620 W	153										33	SOUTHERN ALASKA. <AEIC>.
14	14	52	18.8&	43.040 N	0.330 W	5 G										18	PYRENEES. <STR>. ML 2.9 (LDG), 2.4 (STR). mbLg 2.5 (MDD). Felt (III) at Laruns, France.
14	15	42	44.3?	61.30 N	146.87 W	33 N		1.1								8	SOUTHERN ALASKA. ML 3.2 (PMR).
14	15	45	06.0&	37.120 N	20.640 E	5										8	IONIAN SEA. <ATH>. MD 3.5 (ATH).
14	16	46	54.7&	35.989 N	117.877 W	4										14	CENTRAL CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
14	18	44	02.6&	32.173 S	69.638 W	131										10	MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 2.6 (GUC).
14	18	50	25.5&	59.510 N	152.386 W	44										16	SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC).
14	20	08	01.3&	37.374 N	2.116 W	10 G		0.8								19	SPAIN. mbLg 2.9 (MDD). Felt (II) at Albos.
14	20	12	38.3&	40.429 N	29.135 E	14										5	TURKEY. <ISK>. MD 2.6 (ISK).
14	21	22	18.0	45.411 N	6.632 E	10 G		1.2								40	FRANCE. ML 2.9 (LDG), 2.7 (STR).
14	21	38	42.7	42.515 N	16.375 E	10 G		1.1								33	ADRIATIC SEA. ML 3.5 (TRI), 3.1 (VIE), 2.9 (LUJ). MD 3.3 (PDG).
14	21	48	25.9*	63.348 N	150.892 W	33 N		0.5								6	CENTRAL ALASKA. ML 3.0 (PMR).
14	22	17	51.0&	33.383 S	72.245 W	6										10	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
14	22	20	00.7	32.469 N	137.302 E	408	4.3	0.9								34	SOUTH OF HONSHU, JAPAN
14	22	56	23.2	35.849 N	140.210 E	83	5.1 4.5	0.8								169	NEAR EAST COAST OF HONSHU, JAPAN. Mw 5.2 (HRV). Felt (III JMA) in Ibaraki; (II JMA) in northern Chiba, Kanagawa, eastern Saitama, eastern Shizuoka and southern Tochigi Prefectures. Felt (I JMA) as far as Nagano and Niigata Prefectures. Centroid, Moment Tensor (HRV): Centroid origin time 22:56:23.9; Lat 35.90 N; Lon 140.88 E; Dep 53.0 Bdy; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.90, Plg=71, Azm=309; (N) Val=0.86, Plg=9, Azm=192; (P) Val=-7.76, Plg=17, Azm=99; Best double couple: Mo=7.3*10**16 Nm; NP1: Strike=175, Dip=29, Slip=71; NP2: Strike=16, Dip=62, Slip=100.
14	23	24	15.7*	22.444 S	179.680 W	600 G	4.4	0.9								15	SOUTH OF FIJI ISLANDS
14	23	29	44.7&	45.900 N	6.100 E	2										8	FRANCE. <LDG>. ML 2.2 (LDG).
15	00	01	48.4	45.718 N	11.056 E	10 G		0.9								27	NORTHERN ITALY. ML 3.2 (VIE), 2.7 (FUR), 2.6 (TRI), 2.6 (LDG).
15	00	48	47.6&	38.680 N													

Mo=1.2*10**17 Nm; NP1: Strike=202, Dip=25, Slip=89; NP2: Strike=23, Dip=65, Slip=90.

15 14 54 34.1 34.398 N 32.290 E 34 4.5 1.4 82 CYPRUS REGION. MD 4.5 (ISK). ML 4.3 (GII). Felt (IV) at Limassol and Paphos; (III) at Nicosia.

15 15 09 11.6& 34.860 N 25.770 E 5 6 CRETE. <ATH>. MD 3.8 (ATH).

15 15 16 19.7& 46.200 N 6.900 E 2 5 SWITZERLAND. <LDG>. ML 2.3 (LDG).

15 15 44 14.8& 32.666 S 71.692 W 17 11 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).

15 15 44 59.2 18.154 S 168.191 E 43 D 5.0 4.5 1.3 107 VANUATU ISLANDS. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 15:45:00.3; Lat 18.52 S; Lon 168.06 E; Dep 38.1; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.03, Plg=74, Azm=1; (N) Val=2.99, Plg=16, Azm=184; (P) Val=-8.02, Plg=1, Azm=94; Best double couple: Mo=6.5*10**16 Nm; NP1: Strike=168, Dip=46, Slip=67; NP2: Strike=20, Dip=48, Slip=112.

15 15 53 03.9& 37.860 N 21.100 E 5 8 SOUTHERN GREECE. <ATH>. MD 3.2 (ATH).

15 16 05 50.6* 19.486 S 177.645 E 33 N 4.7 4.6 1.2 29 SOUTH OF FIJI ISLANDS

15 16 08 15.4* 8.190 N 137.725 E 33 N 4.6 1.4 19 WESTERN CAROLINE ISLANDS

15 17 21 37.3& 32.207 S 71.556 W 43 13 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).

15 17 24 31.4* 34.413 N 136.265 E 376 * 4.1 1.4 19 WESTERN HONSHU, JAPAN

15 17 59 10.4 34.370 N 133.188 E 33 N 4.2 0.8 9 NEAR S. COAST OF WESTERN HONSHU. Felt (III JMA) in southeastern Hiroshima; (II JMA) in other parts of Hiroshima and western Okayama Prefectures. Also felt (III JMA) in central Ehime; (II JMA) in other parts of Ehime, western Kagawa and southwestern Kochi Prefectures, Shikoku. Felt in much of Shikoku and western Honshu.

15 20 54 54.9 8.174 S 119.627 E 195 * 4.6 1.1 21 FLORES REGION, INDONESIA

15 21 06 09.0? 6.57 S 146.87 E 75 * 4.0 1.0 7 EASTERN NEW GUINEA REG., P.N.G.

15 21 17 54.1& 37.472 N 118.844 W 5 7 CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.9 (GM).

15 21 19 16.6& 37.469 N 118.847 W 5 7 CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.9 (GM).

15 21 47 09.6 37.466 N 72.503 E 72 * 4.9 1.4 88 TAJIKISTAN

15 21 47 19.6* 10.611 S 113.438 E 59 ? 4.2 1.1 12 SOUTH OF JAWA, INDONESIA

15 22 34 30.6* 17.813 S 168.076 E 130 * 4.4 1.3 33 VANUATU ISLANDS

15 22 36 03.1& 37.460 N 118.844 W 0 34 CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.1 (GM). ML 3.1 (BRK).

15 22 47 43.1* 40.394 N 71.104 E 33 N 4.5 1.5 22 TAJIKISTAN

15 22 54 51.2& 60.213 N 151.889 W 73 38 KENAI PENINSULA, ALASKA. <AEIC>.

15 23 13 08.5 28.582 N 128.235 E 126 D 5.1 1.1 111 RYUKYU ISLANDS. Felt (II JMA) on Amami-O-shima and (I JMA) as far as northern Okinawa.

15 23 27 45.1& 38.390 N 2.150 W 28 5 SPAIN. <MDD>. mbLg 2.0 (MDD).

16 00 15 25.7& 4.697 N 74.697 W 1 10 COLOMBIA. <RSNC>. ML 3.7 (RSNC).

16 00 27 51.4* 1.258 N 126.326 E 33 N 4.5 1.3 14 NORTHERN MOLUCCA SEA

16 00 30 58.3& 4.700 N 74.715 W 4 6 COLOMBIA. <RSNC>. ML 2.7 (RSNC).

16 00 39 08.2& 16.091 N 93.936 W 42 10 CHIAPAS, MEXICO. <UNM>. MD 4.4 (UNM).

16 01 03 12.5& 34.365 N 32.152 E 25 7 CYPRUS REGION. <CSS>. ML 3.3 (CSS).

16 01 29 20.2? 21.70 S 178.87 W 550 G 4.5 1.5 13 FIJI ISLANDS REGION

16 02 19 26.1 29.575 N 130.011 E 33 N 4.9 4.5 1.2 48 RYUKYU ISLANDS. Mw 5.0 (HRV). Felt (III JMA) on Nakano-shima. Centroid, Moment Tensor (HRV): Centroid origin time 02:19:28.0; Lat 29.56 N; Lon 129.74 E; Dep 54.9; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=3.19, Plg=17, Azm=3; (N) Val=0.03, Plg=7, Azm=270; (P) Val=-3.22, Plg=71, Azm=159; Best double couple: Mo=3.2*10**16 Nm; NP1: Strike=104, Dip=29, Slip=-75; NP2: Strike=267, Dip=63, Slip=-98.

16 02 40 29.0& 31.798 S 69.748 W 163 10 SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 3.4 (GUC).

16 02 49 40.1? 29.86 S 179.62 W 500 G 4.3 1.5 13 KERMADEC ISLANDS REGION

16 02 51 47.7 55.972 S 28.878 W 235 ? 0.7 20 SOUTH SANDWICH ISLANDS REGION

16 03 25 02.0* 17.412 S 175.599 E 33 N 4.6 1.0 23 FIJI ISLANDS REGION

16 04 14 55.3& 46.000 N 2.900 E 5 7 FRANCE. <LDG>. ML 1.6 (LDG).

16 05 17 33.0* 46.914 N 153.978 E 33 N 4.5 0.9 20 KURIL ISLANDS

16 05 24 43.1 45.541 N 10.560 E 5 G 1.1 71 NORTHERN ITALY. ML 3.7 (GRF), 3.6 (VIE), 3.4 (STR), 3.4 (LDG), 3.1 (FBB).

16 05 58 24.0& 45.650 N 122.770 W 20 9 WASHINGTON-OREGON BORDER REGION. <SEA-P>. MD 2.3 (SEA). Felt in the Vancouver-Woodland area, Washington.

16 05 59 59.0& 45.650 N 122.770 W 19 9 WASHINGTON-OREGON BORDER REGION. <SEA-P>. MD 2.3 (SEA). Felt in the Vancouver-Woodland area, Washington.

16 06 46 13.7& 35.725 N 118.476 W 5 11 CENTRAL CALIFORNIA. <PAS-P>. ML 2.9 (PAS).

16 07 24 45.6& 37.640 N 22.880 E 88 8 SOUTHERN GREECE. <ATH>.

16 07 25 28.5* 0.258 S 122.955 E 103 * 4.2 1.1 12 MINAHASSA PENINSULA, SULAWESI

16 08 15 20.2? 18.81 S 169.56 E 240 * 4.5 1.4 7 VANUATU ISLANDS

16 08 21 37.4& 15.623 N 95.464 W 16 8 NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 4.2 (UNM).

16 08 44 38.0& 37.463 N 118.851 W 0 27 CALIFORNIA-NEVADA BORDER REGION. <GM-P>. ML 3.7 (GM), 3.7 (BRK).

16 09 10 50.5& 37.464 N 118.848 W 1 37 CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.1 (GM). ML 3.3 (BRK).

16 09 32 35.8& 37.464 N 118.845 W 0 16 CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.0 (GM). ML 3.0 (BRK).

16 10 14 50.8& 37.462 N 118.843 W 0 36 CALIFORNIA-NEVADA BORDER REGION. <GM-P>. ML 3.8 (GM), 3.8 (BRK).

16 11 09 48.9* 0.478 S 133.767 E 33 N 4.0 1.0 11 IRIAN JAYA REGION, INDONESIA

16 12 32 30.0& 63.186 N 152.218 W 8 33 CENTRAL ALASKA. <AEIC>. ML 3.5 (AEIC), 3.7 (PMR).

16 12 37 49.9& 36.790 N 2.980 W 2 13 STRAIT OF GIBRALTAR. <MDD>. mbLg 2.6 (MDD).

16 12 43 35.5? 45.61 N 26.50 E 150 G 0.1 5 ROMANIA

16 12 46 14.2* 20.838 S 67.198 W 184 * 1.1 14 SOUTHERN BOLIVIA

16 13 45 25.5 23.775 N 108.708 W 10 G 5.1 4.7 1.1 108 GULF OF CALIFORNIA. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 13:45:32.9; Lat 24.22 N; Lon 108.77 W; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.08, Plg=18, Azm=261; (N) Val=-0.25, Plg=71, Azm=104; (P) Val=-0.83, Plg=7, Azm=353; Best double couple: Mo=9.6*10**16 Nm; NP1: Strike=38, Dip=72, Slip=8; NP2: Strike=306, Dip=83, Slip=162.

16 14 01 40.1 46.318 N 13.158 E 5 G 0.8 16 AUSTRIA. ML 2.6 (VIE), 2.0 (TRI), 1.9 (LJU).

16	16	12	09.4%	32.838 S	70.365 W	100										11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
16	16	18	55.8*	55.473 N	166.217 E	33 N	4.3	0.6								7	KOMANDORSKY ISLANDS REGION
16	16	50	06.9%	43.323 N	19.285 E	12										9	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.0 (PDG).
16	17	10	51.7%	33.152 S	70.235 W	7										7	CHILE-ARGENTINA BORDER REGION. <GUC>.
16	17	24	50.1*	24.967 N	108.444 W	10 G	4.2	1.3								28	GULF OF CALIFORNIA
16	17	42	07.5%	33.425 S	72.274 W	8										12	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
16	17	57	41.8%	33.423 S	72.302 W	11										13	OFF COAST OF CENTRAL CHILE. <GUC>.
16	18	12	21.8%	32.817 S	71.529 W	14										13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
16	18	25	37.3%	32.790 S	71.547 W	15										10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
16	18	27	54.2?	14.43 S	167.63 E	72 ?	4.2	1.2								26	VANUATU ISLANDS
16	18	46	18.4*	6.886 N	72.982 W	165 ?	3.8	0.8								12	NORTHERN COLOMBIA
16	19	05	31.9%	18.390 N	97.698 W	93										4	CENTRAL MEXICO. <UNM>. MD 3.6 (UNM).
16	19	15	11.1%	33.240 N	119.377 W	21										37	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.7 (PAS).
16	19	43	40.8%	48.200 N	7.700 E	5 G										16	FRANCE. <STR>. ML 2.2 (LDG), 1.9 (STR), 1.7 (FBB).
16	20	16	04.4	21.657 N	145.501 E	33 N	4.4	1.1								27	MARIANA ISLANDS REGION
16	20	17	37.6*	21.812 N	145.417 E	33 N	4.6	1.3								24	MARIANA ISLANDS REGION
16	21	06	42.7?	45.81 N	26.71 E	100 G		0.2								5	ROMANIA
16	21	15	34.0%	33.135 S	70.830 W	16										8	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.2 (GUC).
16	21	34	03.7%	45.648 N	122.773 W	19										68	WASHINGTON-OREGON BORDER REGION. <SEA-P>. MD 3.2 (SEA). Felt in the Portland, Oregon area.
16	22	51	27.7%	34.520 N	120.992 W	6 G										12	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
16	22	57	37.6%	16.264 N	98.258 W	10										7	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.8 (UNM).
17	01	06	22.3	43.850 N	147.579 E	55 *	4.7	4.2	0.8							98	KURIL ISLANDS
17	01	31	38.5%	15.611 N	96.756 W	7										6	NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 3.8 (UNM).
17	01	49	23.6%	44.300 N	6.200 E	6										14	FRANCE. <LDG>. ML 1.9 (LDG), 1.9 (STR).
17	02	12	57.4	6.742 N	72.997 W	169	4.4	0.9								57	NORTHERN COLOMBIA
17	02	19	13.8%	42.820 N	1.840 W	2										39	PYRENEES. <MDD>. ML 2.9 (LDG), 2.8 (STR). mbLg 2.6 (MDD). Felt (II) at Ciriza, Spain.
17	02	28	14.4%	32.886 S	71.536 W	15										13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
17	02	40	08.9%	43.100 N	0.190 W	2 G										9	PYRENEES. <STR>. ML 2.2 (STR), 1.8 (LDG).
17	02	43	07.6?	45.25 N	14.55 E	5 G		0.3								5	NORTHWESTERN BALKAN REGION. ML 2.9 (VIE).
17	03	13	33.4%	69.471 N	145.869 W	15										25	NORTHERN ALASKA. <AEIC>. ML 4.1 (AEIC), 4.2 (PMR).
17	03	25	50.0*	29.024 N	1												

Line	Time	Lat	Long	Elev	Depth	Dist	Dir	Mag	MagType	Source
18	02 44	38.9°	41.933° N	121.948° W	12					NORTHERN CALIFORNIA. <GM-P>. MD 3.0 (GM).
18	03 36	43.7°	30.318° N	69.779° E	33 N	3.7	1.4			PAKISTAN.
18	04 01	39.6°	34.100° S	70.712° W	88					CHILE-ARGENTINA BORDER REGION. <GUC>. MD 1.9 (GUC).
18	04 04	05.1°	38.160° N	21.790° E	14					GREECE. <ATH>. ML 3.1 (ATH).
18	04 32	15.2°	38.120° N	21.770° E	5					GREECE. <ATH>. ML 3.2 (ATH).
18	05 59	51.9°	48.500° N	2.900° W	3					FRANCE. <LDG>. ML 1.6 (LDG).
18	07 34	31.8°	18.859° S	177.516° W	405 ?	4.3	1.0			FIJI ISLANDS REGION
18	07 49	12.7°	17.638° N	95.514° W	20					OAXACA, MEXICO. <UNM>. MD 4.2 (UNM).
18	07 51	29.0°	38.150° N	21.880° E	5		3.9			GREECE. <ATH>. MD 3.6 (ATH).
18	08 04	45.3°	38.200° N	21.790° E	27					GREECE. <ATH>. MD 3.0 (ATH).
18	08 47	43.7°	32.057° S	70.754° W	106					CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.2 (GUC).
18	08 58	59.8°	15.056° N	60.428° W	31					LEEWARD ISLANDS. <FDF>. MD 2.7 (FDF).
18	09 29	49.1°	23.992° N	45.515° W	10 G	4.3	4.1	1.1		NORTHERN MID-ATLANTIC RIDGE
18	10 21	19.1°	34.769° N	22.450° E	33 N	3.8		1.5		CENTRAL MEDITERRANEAN SEA. MD 3.8 (ATH).
18	10 27	38.3°	61.598° N	148.002° W	27					SOUTHERN ALASKA. <AEIC>. ML 3.0 (AEIC), 3.0 (PMR).
18	10 34	03.2°	22.546° S	179.412° E	591 D	5.4		0.9	309	SOUTH OF FIJI ISLANDS. Mw 6.0 (GS), 5.9 (HRV). Moment Tensor (GS): Dep 568; Principal axes (scale 10**18 Nm): (T) Val=1.17, Plg=23, Azm=276; (N) Val=-0.38, Plg=55, Azm=42; (P) Val=-0.79, Plg=25, Azm=174; Best double couple: Mo=9.8*10**17 Nm; NP1: Strike=316, Dip=55, Slip=-178; NP2: Strike=225, Dip=88, Slip=-35. Centroid, Moment Tensor (HRV): Centroid origin time 10:34:07.6; Lat 22.45 S; Lon 179.70 E; Dep 586.5; Half-duration 2.3 sec; Principal axes (scale 10**18 Nm): (T) Val=1.06, Plg=20, Azm=277; (N) Val=-0.30, Plg=51, Azm=33; (P) Val=-0.76, Plg=32, Azm=174; Best double couple: Mo=9.1*10**17 Nm; NP1: Strike=319, Dip=52, Slip=-170; NP2: Strike=223, Dip=82, Slip=-39.
18	10 34	54.5°	22.460° S	179.309° E	598 ?	5.2		0.9	98	SOUTH OF FIJI ISLANDS
18	11 43	50.5°	18.598° N	66.942° W	13					PUERTO RICO REGION. <MPR>. MD 2.3 (MPR).
18	11 58	38.1°	42.030° S	174.010° E	16					OFF E. COAST OF S. ISLAND, N.Z. <WEI>. ML 4.8 (WEI).
18	12 45	57.8°	33.018° S	71.427° W	49					NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
18	13 11	00.5°	37.114° N	77.353° E	33 N	4.1	1.3			SOUTHERN XINJIANG, CHINA
18	14 00	36.5°	8.596° S	74.408° W	142 ?	4.0		0.6		PERU-BRAZIL BORDER REGION
18	14 55	38.8°	18.046° N	101.924° W	26					GUERRERO, MEXICO. <UNM>. MD 4.0 (UNM).
18	15 13	51.8°	33.211° S	70.355° W	98					CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.0 (GUC).
18	15 17	37.3°	44.310° N	7.501° E	8					NORTHERN ITALY. <GEN>. ML 1.8 (GEN).
18	15 18	20.7°	34.196° S	71.296° W	55					NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
18	16 26	22.6°	62.573° N	151.305° W	92					CENTRAL ALASKA. <AEIC>.
18	16 47	15.8°	10.61° S	166.07° E	175 ?	4.2		1.0		SANTA CRUZ ISLANDS
18	17 21	28.5°	35.290° N	4.120° W	3					STRAIT OF GIBALTAR. <MDD>. mbLg 3.2 (MDD).
18	17 26	47.0°	35.243° N	4.095° W	33 N	3.5	1.4			STRAIT OF GIBALTAR. mbLg 3.4 (MDD).
18	19 14	24.0°	35.860° N	4.420° W	23					STRAIT OF GIBALTAR. <MDD>. mbLg 2.5 (MDD).
18	19 16	28.3°	36.870° N	4.620° W	8					STRAIT OF GIBALTAR. <MDD>. mbLg 2.2 (MDD).
18	20 03	06.6°	44.063° N	8.069° E	3					NORTHERN ITALY. <GEN>. ML 2.1 (GEN).
18	20 14	53.8°	36.636° N	5.312° E	10 G			1		

19	03	59	07.5*	3.181 S	134.235 E	33 N	4.3	0.3	8	IRIAN JAYA REGION, INDONESIA
19	04	04	53.8&	32.709 S	71.440 W	57			10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.4 (GUC).
19	04	07	16.1&	62.987 N	148.705 W	72			46	CENTRAL ALASKA. <AEIC>.
19	04	25	45.9&	16.103 N	98.022 W	6			7	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.7 (UNM).
19	04	26	25.4&	37.830 S	176.290 E	189			13	NORTH ISLAND, NEW ZEALAND. <WEL>.
19	05	00	52.6	9.030 S	120.159 E	33 N	5.2 4.9	1.3	78	SUMBA REGION, INDONESIA. Mw 5.5 (HRV). Felt (IV) at Waingapu, Sumba. Also felt (IV) at Ruteng, Flores. Centroid, Moment Tensor (HRV): Centroid origin time 05:00:57.1; Lat 8.90 S; Lon 120.75 E; Dep 64.0; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.97, Plg=33, Azm=271; (N) Val=0.48, Plg=49, Azm=48; (P) Val=-2.45, Plg=22, Azm=166; Best double couple: Mo=2.2*10**17 Nm; NP1: Strike=305, Dip=50, Slip=172; NP2: Strike=40, Dip=84, Slip=41.
19	05	54	27.7	32.067 S	72.117 W	33 N	4.7	1.1	32	OFF COAST OF CENTRAL CHILE. MD 4.9 (GUC). Felt (II) at Papudo.
19	08	10	51.1	14.304 N	118.999 E	33 N	4.6	0.9	24	PHILIPPINE ISLANDS REGION
19	09	09	08.6&	40.050 S	176.770 E	12			13	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.9 (WEL).
19	09	10	41.1*	42.090 N	142.270 E	89 *		1.0	8	HOKKAIDO, JAPAN REGION. Felt (II JMA) in the Shizunai area.
19	09	52	44.7&	36.490 N	4.760 W	4			8	STRAIT OF GIBRALTAR. <MDD>. mbLg 1.8 (MDD).
19	09	58	38.4?	29.79 N	142.01 E	33 N		1.5	6	SOUTH OF HONSHU, JAPAN
19	10	26	38.0&	40.330 N	111.300 W	2			23	UTAH. <SLC-P>. ML 3.0 (SLC), 3.2 (GS).
19	10	33	23.7&	37.790 N	21.020 E	5			5	SOUTHERN GREECE. <ATH>. MD 3.2 (ATH).
19	11	08	26.7&	32.634 S	71.404 W	56			13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
19	12	15	51.8&	37.433 N	118.699 W	3			4	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.9 (GM).
19	12	37	20.0	7.570 N	94.458 E	33 N	4.5	0.9	12	NICOBAR ISLANDS, INDIA
19	13	19	49.5&	44.646 N	6.722 E	0			27	FRANCE. <GEN>. ML 2.3 (GEN), 2.3 (LDG), 2.1 (STR).
19	14	50	10.8&	62.555 N	151.332 W	85			38	CENTRAL ALASKA. <AEIC>.
19	15	30	32.5&	11.931 N	43.568 E	5			6	ETHIOPIA. <ARO>. ML 3.5 (ARO).
19	15	34	10.5	3.668 N	126.338 E	50 *	4.4	0.6	18	TALAUD ISLANDS, INDONESIA
19	15	44	29.7	46.642 N	15.171 E	10 G		1.3	11	NORTHWESTERN BALKAN REGION. ML 2.7 (VIE), 2.6 (LJU).
19	16	13	16.0	4.197 N	76.385 W	140 D	4.5	1.0	112	COLOMBIA. Felt at Cali and Trujillo.
19	16	45	03.0	33.580 S	176.705 W	33 N	5.5 5.0	1.0	100	SOUTH OF KERMADEC ISLANDS. Mw 5.5 (GS), 5.5 (HRV). Moment Tensor (GS): Dep 6; Principal axes (scale 10**17 Nm): (T) Val=1.85, Plg=29, Azm=277; (N) Val=0.04, Plg=20, Azm=176; (P) Val=-1.89, Plg=54, Azm=56; Best double couple: Mo=1.9*10**17 Nm; NP1: Strike=49, Dip=24, Slip=-34; NP2: Strike=171, Dip=77, Slip=-111. Centroid, Moment Tensor (HRV): Centroid origin time 16:45:03.7; Lat 33.12 S; Lon 176.56 W; Dep 15.0 Fix; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=2.12, Plg=3, Azm=274; (N) Val=0.21, Plg=43, Azm=182; (P) Val=-2.32, Plg=47, Azm=7; Best double couple: Mo=2.2*10**17 Nm; NP1: Strike=39, Dip=57, Slip=-36; NP2: Strike=151, Dip=61, Slip=-141.
19	17	35	21.4&	44.637 N	6.711 E	4			14	FRANCE. <GEN>. ML 2.0 (GEN), 1.8 (LDG).
19	17	37	59.3	5.404 S	151.706 E	68	4.7	1.0	36	NEW BRITAIN REGION, P.N.G.
19	17	56	33.6	15.654 N	88.317 W	10 G	4.6 4.2	1.2	55	HONDURAS. MD 4.8 (CASC). Felt at San Pedro Sula.
19	18	27	21.2*	58.898 S	26.289 W	152 ?	4.1	0.8	13	SOUTH SANDWICH ISLANDS REGION
19	18	40	00.5&	44.626 N	6.744 E	0			12	FRANCE. <GEN>. ML 1.9 (GEN), 1.5 (LDG).
19	19	16	44.0&	38.180 N	118.870 W	9			8	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. ML 2.9 (GS).
19	22	00	05.7	85.649 N	84.340 E	10 G	4.7 3.9	0.8	107	NORTH OF SEVERNAYA ZEMLYA
19	22	09	27.4&	33.632 N	116.719 W	14			20	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.2 (PAS). Felt at Aguanga, Escondido, Fallbrook, Hemet, Palm Desert, Palm Springs, San Diego and Temecula.
19	22	21	53.7&	43.100 N	0.100 W	4			10	PYRENEES. <LDG>. ML 2.1 (STR), 1.8 (LDG).
19	23	12	37.7&	43.000 N	0.100 W	2			9	PYRENEES. <LDG>. ML 2.0 (STR), 1.6 (LDG). Felt (II) in the Bigorre region, France.
19	23	12	59.0&	38.190 N	118.880 W	9			8	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. ML 2.8 (GS).
19	23	29	49.6&	37.534 N	118.815 W	6			16	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. ML 3.5 (GM), 3.6 (BRK).
20	00	05	04.3&	37.440 N	24.050 E	33 N			4	SOUTHERN GREECE. <ATH>. MD 2.9 (ATH).
20	00	30	40.5*	19.129 N	108.870 W	10 G	4.4 3.7	0.9	46	REVILLA GIGEDO ISLANDS REGION
20	00	53	24.6	26.904 N	141.455 E	90 D	5.2 4.8	0.9	171	BONIN ISLANDS REGION. Mw 5.6 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 00:53:26.1; Lat 26.95 N; Lon 141.98 E; Dep 86.4; Half-duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=3.16, Plg=23, Azm=258; (N) Val=-0.10, Plg=66, Azm=72; (P) Val=-3.06, Plg=2, Azm=167; Best double couple: Mo=3.1*10**17 Nm; NP1: Strike=300, Dip=72, Slip=165; NP2: Strike=35, Dip=75, Slip=19.
20	01	19	27.3&	62.456 N	149.819 W	60			35	CENTRAL ALASKA. <AEIC>. ML 3.0 (AEIC), 3.1 (PMR).
20	02	30	39.6&	34.190 S	70.057 W	14			7	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.5 (GUC).
20	03	54	03.7&	44.364 N	7.292 E	12			5	NORTHERN ITALY. <GEN>. ML 1.6 (GEN).
20	03	57	35.7*	35.016 N	23.923 E	33 N		1.1	12	CRETE. MD 3.9 (ATH).
20	04	16	02.6*	32.177 S	69.500 W	100 G		0.9	11	MENDOZA PROVINCE, ARGENTINA. MD 3.7 (GUC).
20	04	22	38.3	39.914 N	41.342 E	10 G	4.5 4.1	1.4	59	TURKEY. MD 4.2 (ISK).
20	05	10	06.5&	44.000 N	1.700 E	2			9	FRANCE. <LDG>. ML 2.4 (LDG).
20	05	25	00.6*	3.295 S	134.047 E	33 N	4.9 4.2	1.4	30	IRIAN JAYA REGION, INDONESIA
20	05	52	25.8	61.969 N	149.969 W	33 N		0.6	10	SOUTHERN ALASKA. ML 2.7 (PMR).
20	05	53	44.5*	20.356 S	173.870 W	33 N	4.8 4.3	1.3	35	TONGA ISLANDS
20	05	59	59.1?	13.49 N	91.01 W	33 N	3.7	1.3	12	NEAR COAST OF GUATEMALA
20	08	31	14.3&	39.570 N	20.560 E	30			6	GREECE-ALBANIA BORDER REGION. <ATH>. MD 3.0 (ATH).
20	08	49	22.0&	36.674 N	70.384 E	158 ?		1.2	7	HINDU KUSH REGION, AFGHANISTAN
20	10	36	11.0&	42.580 N	0.880 E	2			16	PYRENEES. <STR>. ML 2.7 (LDG), 2.4 (STR). mbLg 2.5 (MDD).
20	10	52	04.4*	55.477 S	146.804 E	10 G	4.5	1.3	17	WEST OF MACQUARIE ISLAND
20	11	20	47.4	3.229 S	143.595 E	33 N	4.7	1.0	19	NEAR N COAST OF NEW GUINEA, PNG.
20	11	30	05.0	36.473 N	70.560 E	204 D	4.3	0.8	22	HINDU KUSH REGION, AFGHANISTAN
20	11	38	28.6&	32.467 S	71.759 W	14			5	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
20	11	54	26.8*	17.769 S	168.040 E	33 N	4.8 4.5	1.2	39	VANUATU ISLANDS
20	13	43	43.6&	41.470 S	174.930 E	27			4	COOK STRAIT, NEW ZEALAND. <WEL>. ML 2.3 (WEL).
20	14	22	49.6?	63.54 S	167.02 W	10 G	4.5	1.2	9	PACIFIC-ANTARCTIC RIDGE
20	15	02	18.9?	33.34 S	72.59 W	33 N		0.7	13	OFF COAST OF CENTRAL CHILE. MD 4.2 (GUC).

20	17	31	21.8&	11.145 N		61.383 W	28								6	WINDWARD ISLANDS. <TRN>. MD 2.8 (TRN).
20	17	55	54.7&	44.329 N		7.287 E	17								16	NORTHERN ITALY. <GEN>. ML 2.2 (GEN), 1.8 (STR), 1.7 (LDG).
20	18	18	31.1	1.027 S		136.960 E	33 N	5.0	4.7	1.2				43	IRIAN JAYA REGION, INDONESIA. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 18:18:32.1; Lat 1.12 S; Lon 137.42 E; Dep 15.0 Bdy; Half- duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.10, Plg=57, Azm=216; (N) Val=0.10, Plg=6, Azm=117; (P) Val=-1.20, Plg=33, Azm=22; Best double couple: Mo=1.2*10**17 Nm; NP1: Strike=89, Dip=14, Slip=62; NP2: Strike=298, Dip=78, Slip=96.	
20	18	52	59.5&	38.480 N		25.390 E	32								9	AEGEAN SEA. <ATH>. MD 3.7 (ATH).
20	19	01	50.9*	51.154 N		15.842 E	5 G			1.2					8	POLAND. ML 3.1 (VIE).
20	19	13	18.4&	33.431 S		72.314 W	8								9	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
20	19	15	19.8	38.407 N		21.700 E	33 N	4.1		1.2					59	GREECE. MD 3.9 (ATH).
20	20	21	17.8*	26.079 S		179.946 E	482 D	4.6		1.2					40	SOUTH OF FIJI ISLANDS
20	20	42	47.2	2.719 S		138.741 E	33 N	5.3	4.9	0.9					81	IRIAN JAYA, INDONESIA. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 20:42:51.2; Lat 2.69 S; Lon 139.06 E; Dep 27.9; Half- duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.26, Plg=79, Azm=106; (N) Val=0.12, Plg=11, Azm=303; (P) Val=-1.39, Plg=3, Azm=213; Best double couple: Mo=1.3*10**17 Nm; NP1: Strike=292, Dip=43, Slip=74; NP2: Strike=133, Dip=49, Slip=104.
20	21	46	23.6&	39.690 N		19.750 E	5								5	GREECE-ALBANIA BORDER REGION. <ATH>. MD 3.1 (ATH).
20	22	06	06.5&	44.361 N		7.295 E	13								12	NORTHERN ITALY. <GEN>. ML 2.0 (GEN), 1.8 (LDG).
20	22	35	39.9&	38.470 N		25.410 E	39								8	AEGEAN SEA. <ATH>. MD 3.5 (ATH).
20	22	42	20.8&	31.694 S		70.120 W	143								9	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.7 (GUC).
21	01	15	39.2*	15.309 S		174.504 W	185 ?	4.1		0.9					29	TONGA ISLANDS
21	01	19	39.6	3.424 S		144.993 E	33 N	5.1	4.9	1.0					22	NEAR N COAST OF NEW GUINEA, PNG. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 01:19:41.0; Lat 3.31 S; Lon 144.88 E; Dep 15.0 Fix; Half- duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.32, Plg=34, Azm=135; (N) Val=0.17, Plg=52, Azm=343; (P) Val=-1.49, Plg=13, Azm=234; Best double couple: Mo=1.4*10**17 Nm; NP1: Strike=280, Dip=56, Slip=16; NP2: Strike=181, Dip=76, Slip=145.
21	01	40	31.7&	48.200 N		3.100 W	3								4	FRANCE. <LDG>. ML 1.6 (LDG).
21	02	36	06.9	42.559 N		108.459 W	5 G			0.6					18	WYOMING. ML 3.1 (GS).
21	02	38	46.6&	17.477 N		95.050 W	187								4	OAXACA, MEXICO. <UNM>. MD 4.1 (UNM).
21	03	10	44.4	18.289 S		177.906 W	561 D	5.4		0.9					407	FIJI ISLANDS REGION. Mw 5.7 (GS), 5.7 (HRV). Moment Tensor (GS): Dep 571; Principal axes (scale 10**17 Nm): (T) Val=3.41, Plg=17, Azm=152; (N) Val=0.01, Plg=13, Azm=58; (P) Val=-3.43, Plg=68, Azm=291; Best double couple: Mo=3.4*10**17 Nm; NP1: Strike=261, Dip=31, Slip=-63; NP2: Strike=51, Dip=63, Slip=-105. Centroid, Moment Tensor (HRV): Centroid origin time 03:10:49.2; Lat 18.20 S; Lon 177.85 W; Dep 583.5; Half- duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=3.28, Plg=18, Azm=152; (N) Val=0.32, Plg=17, Azm=57; (P) Val=-3.60, Plg=65, Azm=287; Best double couple: Mo=3.4*10**17 Nm; NP1: Strike=267, Dip=30, Slip=-55; NP2: Strike=49, Dip=65, Slip=-108.
21	03	33	12.0*	12.101 N		143.987 E	33 N	4.5		1.4					16	SOUTH OF MARIANA ISLANDS
21	03	56	51.9*	1.689 N		127.332 E	100 G	4.5		0.8					15	HALMAHERA, INDONESIA
21	03	57	39.1	12.140 N		88.369 W	52 *	4.3		1.0					32	OFF COAST OF CENTRAL AMERICA. MD 4.2 (CASC).
21	04	35	40.8&	37.740 N		22.110 E	5								4	SOUTHERN GREECE. <ATH>. MD 2.9 (ATH).
21	04	46	11.4*	19.764 S		12.142 W	10 G			1.2						

21	13	54	18.6*	6.548 N	126.896 E	81 *	1.1	13	Strike=87, Dip=77, Slip=88.
21	14	53	00.1&	47.600 N	0.900 W	4			MINDANAO, PHILIPPINE ISLANDS
21	15	37	35.3	43.691 N	21.203 E	10 G		9	FRANCE. <LDG>. ML 2.5 (LDG).
21	15	42	50.3&	44.657 N	7.164 E	10	0.7	25	NORTHWESTERN BALKAN REGION. MD 3.5 (PDG).
21	15	55	20.0&	28.436 N	52.748 E	33 N		9	NORTHERN ITALY. <GEN>. ML 2.1 (GEN).
21	16	17	02.4&	38.060 N	1.460 W	0 G	0.9	6	SOUTHERN IRAN
21	18	27	15.5*	2.965 S	122.559 E	33 N	4.5	1.4	10 SPAIN. <MDD>. mbLg 2.1 (MDD). Felt (II) at Mula.
21	18	40	34.5&	33.863 S	70.295 W	109		9	SULAWESI, INDONESIA
21	19	23	45.4	0.242 N	121.559 E	152 *	4.4	0.8	9 CHILE-ARGENTINA BORDER REGION. <GUC>.
21	19	38	21.0*	52.504 N	159.325 E	100 *		21	MINAHASSA PENINSULA, SULAWESI
21	21	17	08.3&	33.160 S	70.115 W	8		1.1	16 OFF EAST COAST OF KAMCHATKA
21	21	26	08.9?	37.69 S	177.76 E	179	3.7	1.1	11 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.2 (GUC).
21	21	48	01.8&	32.014 S	69.559 W	155		17	OFF E. COAST OF N. ISLAND, N.Z.
21	22	54	11.9*	85.604 N	84.046 E	10 G		8	MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 2.7 (GUC).
21	23	27	25.4&	17.300 N	94.921 W	121		0.9	12 NORTH OF SEVERNAYA ZEMLYA
21	23	32	18.1&	15.411 N	61.348 W	9		8	CHIAPAS, MEXICO. <UNM>. MD 4.3 (UNM).
21	23	33	02.2&	34.770 N	25.620 E	5		8	LEEWARD ISLANDS. <FDF>. MD 2.5 (FDF).
21	23	51	36.1	52.600 N	142.595 E	33 N	4.6 4.4	0.8	4 CRETE. <ATH>. MD 3.6 (ATH).
22	00	10	05.2&	43.220 N	3.260 W	0 G		69	SAKHALIN ISLAND. Felt (IV) at Piltun and (III) at Nogliki and Okha.
22	00	17	40.4&	36.190 N	27.410 E	24		7	SPAIN. <MDD>. mbLg 2.0 (MDD).
22	00	37	58.9&	10.774 N	62.337 W	69		7	DODECANESE ISLANDS. <ATH>. MD 3.8 (ATH).
22	01	18	35.4*	5.725 S	147.295 E	117 *	4.2	1.0	5 NEAR COAST OF VENEZUELA. <TRN>. MD 3.0 (TRN).
22	02	00	10.0&	42.270 N	111.360 W	7		8	EASTERN NEW GUINEA REG., P.N.G.
22	03	21	37.9*	59.743 S	26.115 W	33 N	4.6	1.0	16 EASTERN IDAHO. <SLC-P>. ML 2.9 (SLC). Felt at Montpelier.
22	04	50	18.8?	18.10 S	167.91 E	48 *		1.2	31 SOUTH SANDWICH ISLANDS REGION
22	05	34	53.7&	36.270 N	3.870 W	0 G		8	VANUATU ISLANDS
22	05	35	18.1&	61.297 N	149.385 W	46	5.0 4.5	14	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.4 (MDD).
22	05	47	09.8&	33.363 S	72.303 W	9		312	SOUTHERN ALASKA. <AEIC>. Mw 5.3 (HRV). ML 5.4 (AEIC), 5.6 (PMR). Felt (V) at Eagle River; (IV) at Anchorage and Palmer. Also felt at Chugiak, Clam Gulch, Elmendorf Air Force Base, Kenai, Seward, Soldotna, Sutton, Valdez and Wasilla.
22	05	47	49.0&	38.260 N	21.720 E	5			Centroid, Moment Tensor (HRV): Centroid origin time 05:35:21.7; Lat 61.42 N; Lon 149.48 W; Dep 68.8; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.22, Plg=12, Azm=282; (N) Val=-0.13, Plg=73, Azm=57; (P) Val=-1.09, Plg=12, Azm=189; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=326, Dip=73, Slip=179; NP2: Strike=56, Dip=89, Slip=17.
22	05	53	17.3&	16.273 N	97.826 W	0		13	OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
22	06	24	03.4&	61.305 N	149.374 W	44		4	GREECE. <ATH>. MD 2.9 (ATH).
22	06	39	56.7&	64.933 N	149.171 W	14		10	OAXACA, MEXICO. <UNM>. MD 4.0 (UNM).
22	06	55	25.0&	40.820 S	174.620 E	45		30	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC), 2.6 (PMR).
22	07	00	42.1&	11.157 N	62.035 W	87		32	CENTRAL ALASKA. <AEIC>. ML 3.2 (AEIC). Felt at Minto.
22	07	37	16.7&	36.530 N	7.360 W	15		15	COOK STRAIT, NEW ZEALAND. <WEL>. Felt at Wellington on the North Island.
22	08	02	37.6	46.016 N	14.795 E	10 G		6	WINDWARD ISLANDS. <TRN>. MD 3.2 (TRN).
22	08	14	06.8&	32.744 S	71.740 W	27		11	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.7 (MDD).

22	22	18	13	57.0&	38.060 N		118.890 W		7							12	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. ML 3.2 (GS).
22	19	06	39.1&	33.187 S		68.834 W		29								9	MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 3.2 (GUC).
22	19	59	52.0*	3.827 N		75.732 W		65 *	4.3			1.5				11	COLOMBIA
22	20	41	01.0&	48.150 N		7.650 E		12								9	FRANCE. <FBB>. ML 1.7 (STR), 1.5 (FBB).
22	21	01	26.0&	41.786 N		87.638 E		10 G				1.2				12	SOUTHERN XINJIANG, CHINA
22	21	31	09.9&	34.070 N		25.620 E		5								7	CRETE. <ATH>. MD 3.9 (ATH).
22	21	42	05.2&	39.950 N		22.340 E		5								5	GREECE. <ATH>. MD 2.9 (ATH).
22	21	46	24.0*	35.969 N		140.977 E		72 *	4.7			0.6				11	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) in the Choshi area and in central Ibaraki Prefecture.
22	21	49	46.7&	42.130 N		8.200 W		16								13	SPAIN. <MDD>. mbLg 2.7 (MDD).
22	21	53	47.2	36.024 N		140.982 E		64 *	4.9			1.0				35	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) in northeastern Chiba and southeastern Ibaraki; (I JMA) in parts of Chiba, Fukushima, Ibaraki, Saitama and Tochigi Prefectures.
22	22	03	46.9*	35.931 N		140.863 E		76 ?				0.8				10	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) in central Ibaraki Prefecture.
22	23	02	21.9	3.499 N		95.013 E		33 N	4.9	4.0		1.0				31	OFF W COAST OF NORTHERN SUMATERA
22	23	28	45.3&	11.122 N		62.176 W		75								5	WINDWARD ISLANDS. <TRN>. MD 2.6 (TRN).
23	00	52	10.4?	6.72 S		106.84 E		171 ?	4.4			0.6				11	JAWA, INDONESIA
23	01	16	00.1*	3.115 S		141.970 E		33 N	4.7			1.2				13	NEW GUINEA, PAPUA NEW GUINEA
23	01	19	45.1&	33.925 S		70.769 W		81								8	CHILE-ARGENTINA BORDER REGION. <GUC>.
23	01	41	26.2&	34.820 N		25.550 E		5								7	CRETE. <ATH>. MD 3.7 (ATH).
23	02	45	02.4	21.392 S		179.418 W		600 G	4.3			0.8				41	FILIPINO ISLANDS REGION
23	03	29	41.2*	6.907 S		134.042 E		33 N	3.9			1.3				5	ARU ISLANDS REGION, INDONESIA
23	03	56	45.2	20.857 S		177.823 W		508 ?	4.5			1.0				51	FILIPINO ISLANDS REGION
23	04	14	12.7&	32.596 S		71.777 W		31								8	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.0 (GUC).
23	05	23	46.9?	20.26 S		169.27 E		33 N	4.1			0.9				10	VANUATU ISLANDS
23	05	40	37.6	4.307 S		143.764 E		121 D	5.0			0.9				46	NEW GUINEA, PAPUA NEW GUINEA
23	05	54	33.6&	37.550 N		3.700 W		20								5	SPAIN. <MDD>. mbLg 1.9 (MDD).
23	06	41	45.0&	34.422 N		32.040 E		25								7	CYPRUS REGION. <CSS>. ML 3.4 (CSS).
23	06	44	41.0&	18.145 N		66.840 W		17								8	Puerto Rico Region. <MPR>. MD 2.4 (MPR).
23	07	09	58.1&	32.291 S		71.044 W		79								10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.3 (GUC).
23	07	21	09.1*	12.861 S		169.173 E		650 G	4.1			0.8				18	SANTA CRUZ ISLANDS REGION
23	07	59	15.5&	62.381 N		151.383 W		85								40	CENTRAL ALASKA. <AEIC>.
23	08	57	32.2	5.534 S		147.015 E		158	4.4			0.7				20	EASTERN NEW GUINEA REG., P.N.G.
23	10																

24	01	42	33.5	43.536 N	147.132 E	33 N	5.2	4.6	0.8	227	KURIL ISLANDS. Mw 5.2 (HRV). Felt (III) at Yuzhno-Kurilsk, Kunashir. Also felt (I JMA) in eastern Hokkaido. Centroid, Moment Tensor (HRV): Centroid origin time 01:42:37.2; Lat 43.12 N; Lon 146.87 E; Dep 49.4; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.54, Plg=56, Azm=342; (N) Val=2.23, Plg=1, Azm=73; (P) Val=-7.77, Plg=34, Azm=164; Best double couple: Mo=6.7*10**16 Nm; NP1: Strike=260, Dip=11, Slip=97; NP2: Strike=73, Dip=79, Slip=89.
24	02	01	26.0	32.768 N	115.556 W	15				37	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.9 (PAS). Felt at El Centro, California.
24	03	24	47.4	61.128 N	151.490 W	70	3.0			42	SOUTHERN ALASKA. <AEIC>. ML 3.1 (AEIC), 3.1 (PMR).
24	03	43	29.9	64.426 N	20.981 W	10 G	4.2		1.2	34	ICELAND
24	04	18	22.7	37.477 N	118.836 W	5				11	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.9 (GM).
24	04	51	51.1	3.32 S	133.80 E	33 N	4.2		1.0	7	IRIAN JAYA REGION, INDONESIA
24	05	37	43.6	18.726 N	145.418 E	195 D	4.9		0.8	115	MARIANA ISLANDS. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 05:37:47.9; Lat 18.43 N; Lon 145.64 E; Dep 187.5; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.95, Plg=78, Azm=325; (N) Val=-0.21, Plg=7, Azm=89; (P) Val=-6.74, Plg=10, Azm=180; Best double couple: Mo=6.8*10**16 Nm; NP1: Strike=279, Dip=35, Slip=102; NP2: Strike=84, Dip=56, Slip=82.
24	05	54	35.0	38.050 N	1.360 W	11				9	SPAIN. <MDD>. mbLg 2.5 (MDD). Felt (III) at Mula.
24	06	02	04.5	38.620 S	175.750 E	162				12	NORTH ISLAND, NEW ZEALAND. <WEL>.
24	06	08	50.8	31.551 S	69.969 W	147				12	SAN JUAN PROVINCE, ARGENTINA. <GUC>.
24	08	27	14.2	39.367 N	27.681 E	32				4	TURKEY. <ISK>. MD 2.9 (ISK).
24	09	19	13.7	39.690 N	20.310 E	4				11	GREECE-ALBANIA BORDER REGION. <ATH>. ML 3.8 (ATH).
24	09	38	33.9	31.820 S	71.834 W	23				8	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
24	09	57	52.4	5.621 S	150.229 E	106 *	4.4		1.0	17	NEW BRITAIN REGION, P.N.G.
24	10	08	36.2	35.360 N	27.940 E	34				11	DODECANESE ISLANDS. <ATH>. MD 3.8 (ATH).
24	10	10	10.4	74.782 N	8.838 E	10 G	4.6	4.3	1.1	79	GREENLAND SEA
24	11	46	39.6	33.313 S	70.227 W	98				8	CHILE-ARGENTINA BORDER REGION. <GUC>.
24	11	55	35.1	43.000 N	0.200 E	2				19	FRANCE. <LDG>. ML 2.4 (LDG), 2.3 (STR). mbLg 2.4 (MDD).
24	12	04	41.6	45.935 N	15.051 E	10 G			0.2	10	NORTHWESTERN BALKAN REGION. ML 2.5 (VIE), 2.1 (TRI), 2.0 (LJU).
24	12	20	08.1	33.965 S	70.620 W	99				11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).
24	12	20	48.0	7.030 S	129.450 E	125 ?	4.5		0.9	15	BANDA SEA
24	12	21	32.5	19.052 N	66.134 W	71				6	PUERTO RICO REGION. <MPR>. MD 3.1 (MPR).
24	12	22	31.7	19.069 N	66.165 W	31				10	PUERTO RICO REGION. <MPR>. MD 3.9 (MPR).
24	12	42	09.1	39.308 N	27.832 E	15				12	TURKEY. <ISK>. MD 3.8 (ATH), 3.5 (ISK).
24	13	01	30.7	23.73 N	108.55 W	10 G	3.8		1.1	16	GULF OF CALIFORNIA
24	13	14	26.0	60.703 N	147.262 W	20	3.2			48	SOUTHERN ALASKA. <AEIC>. ML 3.3 (AEIC), 3.5 (PMR).
24	13	46	15.2	45.400 N	6.100 E	2				9	FRANCE. <LDG>. ML 2.1 (STR), 1.9 (LDG).
24	14	53	32.2	17.595 N	94.783 W	169				9	CHIAPAS, MEXICO. <UNM>. MD 4.3 (UNM).
24	15	39	19.0	12.503 N	87.067 W	23				7	NEAR COAST OF NICARAGUA. <CASC>. MD 4.1 (CASC).
24	16	05	48.4	39.295 N	27.886 E	11	4.6	4.6		137	TURKEY. <ISK>. MD 4.6 (ATH), 4.3 (ISK). Felt at Balikesir, Bursa, Eskisehir and Izmir.
24	16	11	27.2	39.420 N	27.930 E	5				5	TURKEY. <ATH>. MD 3.7 (ATH).
24	16	20	35.1	17.52 S	179.25 W	600 G	4.2		1.1	12	FIJI ISLANDS REGION
24	17	29	56.8	40.140 N	118.004 E	33 N	3.8		0.9	6	NORTHEASTERN CHINA. ML 3.8 (BJI).
24	17	54	33.7	32.923 S	70.184 W	110				13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.1 (GUC).
24	17	55	46.9	39.327 N	27.855 E	10				18	TURKEY. <ISK>. ML 4.0 (ATH). MD 3.6 (ISK).
24	17	57	59.5	36.471 N	70.997 E	242 ?	3.5		1.0	10	HINDU KUSH REGION, AFGHANISTAN
24	18	02	16.0	33.665 S	70.991 W	60				8	CHILE-ARGENTINA BORDER REGION. <GUC>.
24	18	04	18.2	17.909 N	119.581 E	33 N	4.2		0.9	10	PHILIPPINE ISLANDS REGION
24	18	06	53.6	31.165 S	117.634 E	10 G			1.1	7	WESTERN AUSTRALIA
24	18	30	16.9	43.237 N	17.838 E	8				20	NORTHWESTERN BALKAN REGION. <PDG>. MD 3.0 (PDG).
24	18	32	05.5	37.140 N	21.120 E	5				4	SOUTHERN GREECE. <ATH>. MD 3.0 (ATH).
24	18	34	35.0	34.135 S	70.984 W	68				8	CHILE-ARGENTINA BORDER REGION. <GUC>.
24	19	13	29.6	39.400 N	27.940 E	5				5	TURKEY. <ATH>. MD 3.7 (ATH).
24	19	35	28.0	34.151 S	70.107 W	5				13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.9 (GUC).
24	19	36	43.0	35.110 N	70.800 E	102 ?	4.0		0.9	8	HINDU KUSH REGION, AFGHANISTAN
24	20	11	29.1	38.280 N	3.490 W	0 G				9	SPAIN. <MDD>. mbLg 2.1 (MDD).
24	20	36	22.2	32.463 S	72.053 W	16				12	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
24	20	52	30.4	43.000 N	0.100 W	2				12	PYRENEES. <LDG>. ML 2.3 (STR), 2.1 (LDG). Felt (II) at Caunterets, France.
24	21	22	16.9	85.777 N	86.193 E	10 G	4.3		1.3	10	NORTH OF SEVERNAYA ZEMLYA
24	21	31	04.2	60.790 N	151.716 W	74				5	KENAI PENINSULA, ALASKA. <AEIC>.
24	22	10	37.0	43.574 N	16.092 E	10 G			1.2	73	NORTHWESTERN BALKAN REGION. ML 3.7 (LDG). MD 3.6 (PDG).
24	22	31	05.2	39.410 N	27.930 E	5				6	TURKEY. <ATH>. ML 4.1 (ATH).
24	22	33	48.3	4.082 N	125.697 E	167 ?	4.5		1.2	14	TALAUD ISLANDS, INDONESIA
24	22	35	21.2	42.533 N	19.133 E	17				8	NORTHWESTERN BALKAN REGION. <PDG>. MD 1.3 (PDG).
24	22	35	37.0	46.550 N	1.970 E	2 G				8	FRANCE. <STR>. ML 2.2 (STR), 2.2 (LDG).
24	22	56	03.7	18.185 N	97.780 W	74				14	CENTRAL MEXICO. <UNM>. MD 4.0 (UNM).
24	23	38	10.0	6.334 S	149.312 E	33 N	4.3		1.3	16	NEW BRITAIN REGION, P.N.G. ML 4.4 (PMG).
25	00	07	44.8	30.956 S	71.758 W	14				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
25	00	26	23.3	62.337 N	152.302 W	141				23	CENTRAL ALASKA. <AEIC>.
25	00	51	19.9	32.01 S	67.53 W	33 N			1.2	12	MENDOZA PROVINCE, ARGENTINA
25	01	37	54.7	31.380 S	68.716 W	10 G			0.9	15	SAN JUAN PROVINCE, ARGENTINA. MD 4.0 (GUC).
25	05	19	19.4	17.17 S	70.20 W	142 *			1.5	7	NEAR COAST OF PERU
25	05	24	04.8	41.250 S	175.250 E	27				9	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.6 (WEL).
25	06	52	05.0	62.889 N	151.211 W	114				37	CENTRAL ALASKA. <AEIC>.
25	06	56	53.0	39.309 N	28.003 E	10 G	5.0	4.9	1.3	267	TURKEY. Mw 5.2 (HRV). MD 4.5 (ISK). Centroid, Moment Tensor (HRV): Centroid origin time 06:56:56.9; Lat 38.96 N; Lon 28.19 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=9.12, Plg=2, Azm=201; (N) Val=-1.68, Plg=59, Azm=294; (P) Val=-7.44, Plg=31, Azm=110; Best double couple: Mo=8.3*10**16 Nm; NP1: Strike=250, Dip=67, Slip=-158; NP2: Strike=151, Dip=70, Slip=-24.
25	07	29	24.4	1.462 S	137.014 E	33 N	4.2		1.5	9	NEAR NORTH COAST OF IRIAN JAYA
25	07	36	11.1	62.902 N	150.490 W	90				47	CENTRAL ALASKA. <AEIC>.

25	07	59	02.3&	8.361 N	82.843 W		3						12	PANAMA-COSTA RICA BORDER REGION.	<CASC>. MD 4.0 (CFSC).
25	08	12	00.7&	45.400 N	7.500 E		2						14	NORTHERN ITALY.	<LDG>. ML 2.2 (LDG).
25	08	37	38.2&	33.530 S	71.114 W		62						11	NEAR COAST OF CENTRAL CHILE.	<GUC>. MD 2.3 (GUC).
25	08	43	39.0?	33.39 S	176.85 W		33	N	4.7		1.2		11	SOUTH OF KERMADec ISLANDS	
25	09	02	31.3*	12.670 N	92.987 E		33	N	4.5		0.6		34	ANDAMAN ISLANDS, INDIA	
25	09	21	13.0*	17.839 S	178.902 W		653 ?		4.5		0.4		24	Fiji ISLANDS REGION	
25	09	21	52.0&	61.223 N	151.721 W		78						44	SOUTHERN ALASKA.	<AEIC>.
25	10	44	09.7&	17.976 N	68.297 W		82						9	MONA PASSAGE.	<MPR>. MD 3.5 (MPR).
25	11	11	46.4&	61.100 N	149.979 W		42						52	SOUTHERN ALASKA.	<AEIC>. ML 3.0 (AEIC).
25	11	22	18.0&	32.519 S	71.695 W		28						13	NEAR COAST OF CENTRAL CHILE.	<GUC>. MD 3.7 (GUC).
25	11	30	24.2&	19.115 N	66.056 W		30						10	PUERTO RICO REGION.	<MPR>. ML 3.2 (MPR).
25	11	55	42.5	15.532 S	173.132 W		33	N	4.6		0.6		45	TONGA ISLANDS	
25	12	36	46.4&	34.281 S	70.078 W		6						12	CHILE-ARGENTINA BORDER REGION.	<GUC>. MD 3.7 (GUC).
25	12	50	04.6&	34.020 S	70.140 W		10						9	CHILE-ARGENTINA BORDER REGION.	<GUC>.
25	13	18	44.8&	46.600 N	6.500 E		2						13	SWITZERLAND.	<LDG>. ML 2.3 (LDG), 2.0 (STR).
25	13	40	44.1	45.681 N	15.243 E		10 G				0.7		6	NORTHWESTERN BALKAN REGION.	ML 1.6 (LJU).
25	13	54	56.3&	63.358 N	145.601 W		0 G						42	CENTRAL ALASKA.	<AEIC>. ML 3.2 (AEIC), 3.4 (PMR).
25	14	12	40.7&	33.935 S	70.504 W		12						8	CHILE-ARGENTINA BORDER REGION.	<GUC>.
25	14	26	01.1&	19.191 N	98.962 W		8						15	CENTRAL MEXICO.	<UNM>. MD 3.6 (UNM).
25	14	38	40.2	43.037 N	111.144 W		5 G				1.0		32	EASTERN IDAHO.	ML 3.1 (GS), 3.6 (BUT).
25	14	48	18.7	46.018 N	14.801 E		10 G				1.1		12	NORTHWESTERN BALKAN REGION.	ML 2.9 (VIE), 2.3 (LJU). Felt (III) at Litija, Slovenia.
25	15	11	22.5&	18.134 N	67.231 W		23						5	MONA PASSAGE.	<MPR>. ML 2.8 (MPR).
25	16	53	14.5*	44.560 N	80.882 E		10 G		4.3		1.1		14	KAZAKHSTAN-XINJIANG BORDER REG.	
25	16	53	23.1?	31.00 S	68.83 W		137 ?				1.1		14	SAN JUAN PROVINCE, ARGENTINA.	MD 3.5 (GUC).
25	17	59	24.0&	50.330 N	7.400 E		10						19	GERMANY.	<FBB>. ML 2.9 (LDG), 2.5 (STR), 2.3 (FBB).
25	18	47	29.4*	5.515 N	126.135 E		33 N		4.4		1.4		12	MINDANAO, PHILIPPINE ISLANDS	
25	18	51	26.0&	33.051 S	71.880 W		33						13	NEAR COAST OF CENTRAL CHILE.	<GUC>. MD 3.5 (GUC).
25	19	25	06.3	85.619 N	84.315 E		10 G		4.4		1.2		18	NORTH OF SEVERNAYA ZEMLYA	
25	19	42	04.8	35.960 N	28.500 E		33 N				1.3		21	EASTERN MEDITERRANEAN SEA.	MD 3.8 (ATH).
25	21	07	11.5	46.217 N	13.604 E		10 G				1.1		51	AUSTRIA.	ML 3.7 (GRF), 3.4 (VIE), 3.2 (LDG), 3.2 (CLL), 3.1 (FUR), 2.9 (LJU), 2.9 (TRI). Felt (V) at Bovec, Dreznica, Kobarid and Tolmin, Slovenia.
25	22	36	23.6&	43.074 N	18.961 E		8						12	NORTHWESTERN BALKAN REGION.	<PDG>. ML 2.7 (PDG).
25	23	51	43.7&	38.010 N	0.620 W										

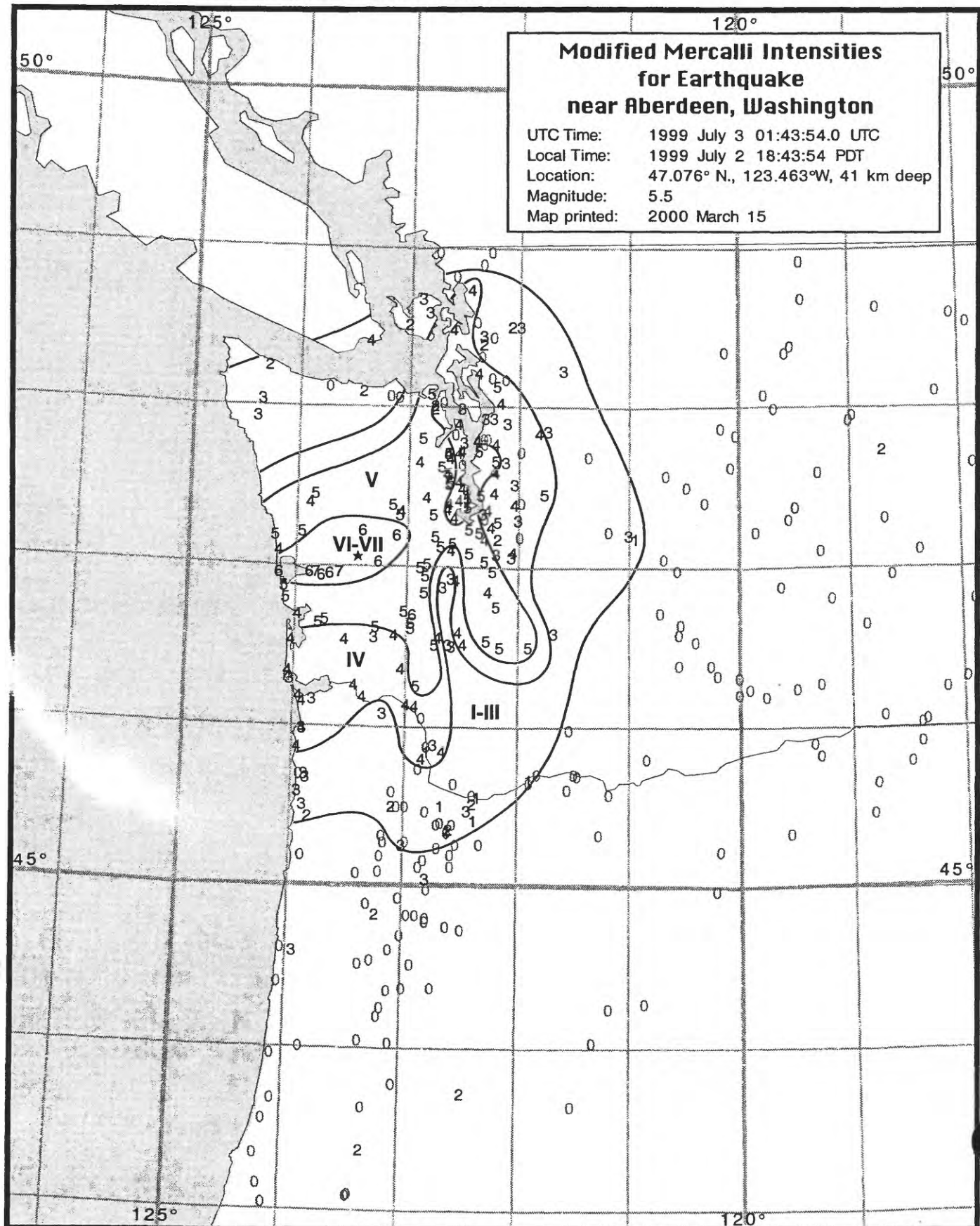
26	11	09	05.2*	33.784	N	47.584	E	62	*	4.5	1.2	33	WESTERN IRAN	
26	11	32	12.8&	43.016	N	17.938	E	11				9	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.2 (PDG).	
26	12	16	27.1&	46.400	N	4.700	E	2				9	FRANCE. <LDG>. ML 2.1 (LDG), 2.1 (STR).	
26	12	58	16.7*	53.688	N	166.946	E	33	N	4.0	1.1	10	KOMANDORSKY ISLANDS REGION	
26	13	08	02.6&	57.243	N	155.751	W	59				51	ALASKA PENINSULA. <AEIC>. ML 3.3 (AEIC), 3.7 (PMR).	
26	16	59	25.8&	34.141	S	72.237	W	30				6	NEAR COAST OF CENTRAL CHILE. <GUC>.	
26	18	08	12.8&	44.622	N	7.616	E	11				12	NORTHERN ITALY. <GEN>. ML 2.4 (GEN).	
26	18	48	34.5	2.979	S	150.494	E	33	N	5.3	5.4	1.1	90	NEW IRELAND REGION, P.N.G. Mw 5.6 (HRV).
														Centroid, Moment Tensor (HRV): Centroid origin time
														18:48:36.5; Lat 3.07 S; Lon 150.68 E; Dep 15.0 Fix; Half-
														duration 1.7 sec; Principal axes (scale 10**17 Nm): (T)
														Val=3.44, Plg=9, Azm=3; (N) Val=-0.30, Plg=73, Azm=126; (P)
														Val=-3.13, Plg=14, Azm=271; Best double couple:
														Mo=3.3*10**17 Nm; NP1: Strike=48, Dip=73, Slip=-176; NP2:
														Strike=317, Dip=87, Slip=-17.
26	20	00	24.5&	39.289	N	27.888	E	1				8	TURKEY. <ISK>. MD 3.1 (ISK).	
26	20	12	59.6&	39.310	N	27.893	E	8				5	TURKEY. <ISK>. MD 3.1 (ISK).	
26	20	14	32.4	36.649	N	27.175	E	156		4.4	0.9	129	DODECANESE ISLANDS	
26	21	18	34.6	3.046	S	150.572	E	33	N	4.9	1.4	35	NEW IRELAND REGION, P.N.G. Mw 5.5 (HRV).	
														Centroid, Moment Tensor (HRV): Centroid origin time
														21:18:39.2; Lat 3.24 S; Lon 150.70 E; Dep 15.0 Fix; Half-
														duration 1.1 sec; Principal axes (scale 10**17 Nm): (T)
														Val=1.99, Plg=45, Azm=74; (N) Val=0.47, Plg=15, Azm=179;
														(P) Val=-2.46, Plg=41, Azm=283; Best double couple:
														Mo=2.2*10**17 Nm; NP1: Strike=81, Dip=15, Slip=172; NP2:
														Strike=179, Dip=88, Slip=75.
26	21	22	01.9	49.255	N	156.275	E	33	N	5.1	0.9	177	KURIL ISLANDS. Felt (III) at Severo-Kurilsk.	
26	21	52	48.8&	61.538	N	149.924	W	34				53	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC), 2.7 (PMR).	
26	22	28	11.9&	39.334	N	27.840	E	8				8	TURKEY. <ISK>. MD 3.5 (ATH), 3.2 (ISK).	
26	23	47	53.4*	10.434	N	126.584	E	33	N	4.8	1.3	11	PHILIPPINE ISLANDS REGION	
27	03	35	26.7&	61.764	N	150.796	W	56				35	SOUTHERN ALASKA. <AEIC>. ML 2.8 (AEIC), 3.3 (PMR).	
27	04	03	16.2	44.777	N	10.704	E	10	G		1.1	82	NORTHERN ITALY. ML 3.8 (STR), 3.7 (VIE), 3.6 (LDG).	
27	04	03	34.4&	15.136	N	60.804	W	30				9	LEEWARD ISLANDS. <FDF>. MD 2.9 (FDF), 2.8 (TRN).	
27	04	12	33.9	21.194	S	67.106	W	198		4.4	1.3	63	CHILE-BOLIVIA BORDER REGION	
27	05	28	28.8*	3.197	S	142.200	E	33	N	4.7	0.8	12	NEAR N COAST OF NEW GUINEA, PNG.	
27	05	30	19.5	39.849	N	144.858	E	33	N	5.2	4.6	0.7	173	OFF EAST COAST OF HONSHU, JAPAN. Mw 5.2 (HRV). Felt (I JMA)
														in parts of Aomori, Iwate and Miyagi Prefectures. Also felt
														(I JMA) in southern Hokkaido.
														Centroid, Moment Tensor (HRV): Centroid origin time
														05:30:20.5; Lat 39.91 N; Lon 144.82 E; Dep 39.4; Half-
														duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
														Val=8.36, Plg=14, Azm=96; (N) Val=-1.79, Plg=24, Azm=192;
														(P) Val=-6.57, Plg=62, Azm=339; Best double couple:
														Mo=7.5*10**16 Nm; NP1: Strike=157, Dip=38, Slip=-132; NP2:
														Strike=25, Dip=63, Slip=-63.
27	06	27	40.3&	39.317	N	27.895	E	6				5	TURKEY. <ISK>. MD 2.9 (ISK).	
27	07	03	20.1&	33.848	S	70.702	W	96				13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 1.9 (GUC).	
27	07	38	00.4&	47.600	N	5.500	E	2				6	FRANCE. <LDG>. ML 2.2 (LDG).	
27	07	49	37.3*	12.578	N	86.479	W	33	N	3.8	0.7	5	NICARAGUA. ML 3.9 (CASC).	
27	08	38	56.7*	51.66	N	178.21	W	63	*	4.1	0.7	18	ANDREANOF ISLANDS, ALEUTIAN IS.	
27	08	43	05.0&	39.300	N	27.944	E	1				6	TURKEY. <ISK>. MD 2.8 (ISK).	
27	10	30	30.2&	60.135	N	153.188	W	150				39	SOUTHERN ALASKA. <AEIC>.	
27	10	42	11.9	40.387	N	125.979	W	10	G		0.7	23	OFF COAST OF NORTHERN CALIFORNIA. ML 3.5 (BRK), 3.5 (GS).	
27	11	55	52.4	54.059	N	165.580	W	63	D	4.5	1.3	45	FOX ISLANDS, ALEUTIAN ISLANDS	
27	12	05	32.1&	36.440	N	4.750	W	0				6	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.1 (MDD).	
27	12	25	40.6&	45.370	N	2.450	E	2				15	FRANCE. <STR>. ML 2.3 (LDG), 2.2 (STR).	
27	14	29	46.3	51.481	N	16.073	E	5	G		0.4	20	POLAND. ML 3.6 (VIE), 3.1 (FUR).	
27	15	51	48.3&	37.021	N	119.288	W	35				4	CENTRAL CALIFORNIA. <GM-P>. MD 3.0 (GM).	
27	16	35	35.2&	43.418	N	8.214	E	16				23	CORSICA. <GEN>. ML 2.8 (GEN), 2.5 (LDG), 2.1 (STR).	
27	16	38	07.4&	44.372	N	7.220	E	14				4	NORTHERN ITALY. <GEN>. ML 1.6 (GEN).	
27	17	33	40.7&	33.349	S	71.483	W	41				10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).	
27	18	04	40.3	7.234	S	155.809	E	33	N	5.0	4.6	1.0	85	SOLOMON ISLANDS. Mw 5.1 (HRV).
														Centroid, Moment Tensor (HRV): Centroid origin time
														18:04:41.9; Lat 7.52 S; Lon 155.93 E; Dep 46.3; Half-
														duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
														Val=6.12, Plg=72, Azm=345; (N) Val=-0.91, Plg=15, Azm=134;
														(P) Val=-5.20, Plg=9, Azm=226; Best double couple:
														Mo=5.7*10**16 Nm; NP1: Strike=334, Dip=39, Slip=115; NP2:
														Strike=123, Dip=55, Slip=72.
27	18	30	54.7&	59.942	N	152.199	W	70				40	SOUTHERN ALASKA. <AEIC>.	
27	19	13	48.9	19.716	N	147.333	E	33	N	4.7	0.8	27	MARIANA ISLANDS REGION	
27	19	17	12.1*	7.927	S	109.310	E	119	?	4.5	0.9	13	JAWA, INDONESIA	
27	20	13	33.0&	40.590	N	109.410	W	9				11	UTAH. <SLC-P>. ML 2.8 (SLC).	
27	20	15	10.1*	18.88	S	173.02	W	33	N	4.5	0.8	11	TONGA ISLANDS	
27	20	52	54.5&	44.370	N	7.226	E	13				4	NORTHERN ITALY. <GEN>. ML 1.5 (GEN).	
27	21	02	42.3&	40.610	S	179.670	E	33	N			16	OFF E. COAST OF N. ISLAND, N.Z. <WEL>. ML 4.7 (WEL).	
27	21	21	34.5&	34.116	S	70.247	W	104				8	CHILE-ARGENTINA BORDER REGION. <GUC>.	
27	21	25	18.7&	32.689	S	71.683	W	27				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).	
27	21	27	33.0&	19.432	N	98.791	W	0				6	CENTRAL MEXICO. <UNM>. MD 3.6 (UNM).	
27	21	42	03.7*	40.327	N	126.393	W	10	G		0.8	19	OFF COAST OF NORTHERN CALIFORNIA. ML 3.5 (GS).	
27	21	47	10.6&	35.500	N	23.570	E	5				6	CRETE. <ATH>. MD 3.3 (ATH).	
27	22	09	13.3&	48.300	N	2.600	W	11				6	FRANCE. <LDG>. ML 2.4 (LDG).	
27	22	36	07.9	5.527	S	147.301	E	199		4.4	0.9	25	EASTERN NEW GUINEA REG., P.N.G.	
27	22	51	08.4&	32.032	S	70.051	W	127				11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.2 (GUC).	
27	22	55	48.7&	39.270	N	27.956	E	9				10	TURKEY. <ISK>. MD 3.5 (ATH), 3.2 (ISK).	
27	23	30	20.0	15.201	S	173.324	W	33	N	5.4	5.4	1.3	223	TONGA ISLANDS. Mw 5.5 (HRV).
														Centroid, Moment Tensor (HRV): Centroid origin time
														23:30:24.9; Lat 15.19 S; Lon 173.08 W; Dep 58.4; Half-
														duration 1.5 sec; Principal axes (scale 10**17 Nm): (T)
														Val=2.30, Plg=49, Azm=183; (N) Val=0.02, Plg=14, Azm=76;
														(P) Val=-2.31, Plg=37, Azm=335; Best double couple:
														Mo=2.3*10**17 Nm; NP1: Strike=10, Dip=15, Slip=23; NP2:
														Strike=258, Dip=84, Slip=104.

28	00	16	57.5	28.690 S	177.523 W	33 N	5.9	5.7	0.9	325	KERMADEC ISLANDS REGION. Mw 6.1 (GS), 6.0 (HRV). Me 5.8 (GS). Felt on Raoul. Broadband Source Parameters (GS): Dep 37; NP1: Strike=225, Dip=40, Slip=90; NP2: Strike=45, Dip=50, Slip=90; Radiated energy 9.5*10**12 Nm. Moment Tensor (GS): Dep 43; Principal axes (scale 10**18 Nm): (T) Val=1.42, Plg=76, Azm=239; (N) Val=-0.04, Plg=14, Azm=64; (P) Val=-1.37, Plg=1, Azm=333; Best double couple: Mo=1.4*10**18 Nm; NP1: Strike=49, Dip=46, Slip=70; NP2: Strike=257, Dip=48, Slip=110. Centroid, Moment Tensor (HRV): Centroid origin time 00:17:06.1; Lat 28.49 S; Lon 177.12 W; Dep 49.0 Bd; Half-duration 2.6 sec; Principal axes (scale 10**18 Nm): (T) Val=1.22, Plg=76, Azm=271; (N) Val=0.15, Plg=3, Azm=12; (P) Val=-1.37, Plg=13, Azm=103; Best double couple: Mo=1.3*10**18 Nm; NP1: Strike=197, Dip=32, Slip=95; NP2: Strike=11, Dip=58, Slip=87.
28	00	17	45.4*	12.542 S	114.444 E	33 N	4.5		1.5	16	NORTHWEST OF AUSTRALIA
28	00	43	14.1&	39.490 N	19.280 E	5				4	GREECE-ALBANIA BORDER REGION. <ATH>. MD 2.9 (ATH).
28	01	15	30.7	31.168 S	179.727 W	347 D	4.8		1.3	66	KERMADEC ISLANDS REGION
28	01	15	43.9&	32.260 S	71.703 W	23				17	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.3 (GUC).
28	01	45	04.6&	32.272 S	71.723 W	24				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
28	01	54	14.4&	43.338 N	8.148 E	14				22	CORSICA. <GEN>. ML 2.5 (GEN), 2.3 (LDG), 2.1 (STR).
28	02	10	03.0	41.037 N	116.557 W	5 G	3.4		0.6	17	NEVADA. ML 3.7 (GS).
28	02	21	53.5	41.029 N	116.525 W	5 G			0.8	8	NEVADA. ML 3.2 (GS).
28	02	34	38.3&	39.334 N	27.898 E	9				8	TURKEY. <ISK>. MD 3.5 (ATH), 3.2 (ISK).
28	02	37	50.0*	51.022 N	177.476 W	33 N	4.0		0.9	13	ANDREANOF ISLANDS, ALEUTIAN IS.
28	02	39	52.0&	38.250 N	21.700 E	5				8	GREECE. <ATH>. MD 3.2 (ATH).
28	02	44	25.7	19.659 S	66.807 W	258	4.3		0.7	19	SOUTHERN BOLIVIA
28	02	58	46.9	46.068 N	14.775 E	10 G			0.2	6	NORTHWESTERN BALKAN REGION. ML 1.8 (VIE), 1.3 (LJU).
28	03	03	39.0&	37.100 N	4.200 W	5				5	SPAIN. <MDD>. mbLg 1.4 (MDD).
28	03	48	47.2&	35.201 S	71.340 W	79				13	CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
28	05	38	08.0&	34.218 N	117.437 W	14				29	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS). Felt in the epicentral area.
28	05	52	05.8&	15.105 N	60.467 W	28				5	LEEWARD ISLANDS. <FDF>. MD 2.3 (FDF).
28	06	41	40.0&	38.520 N	21.740 E	35				4	GREECE. <ATH>. MD 2.9 (ATH).
28	07	14	05.0&	38.140 N	22.050 E	36				12	GREECE. <ATH>. MD 3.2 (ATH).
28	07	42	39.0*	15.379 S	167.404 E	151 ?	4.4		1.0	29	VANUATU ISLANDS
28	07	48	04.3&	39.800 N	20.330 E	5				10	GREECE-ALBANIA BORDER REGION. <ATH>. MD 3.3 (ATH).
28	09	18	39.0&	40.100 N	21.680 E	5				7	GREECE. <ATH>. MD 3.0 (ATH).
28	09	25	17.2&	61.261 N	149.320 W	38				9	SOUTHERN ALASKA. <AEIC>. ML 2.9 (AEIC), 2.6 (PMR).
28	09	27	01.0&	46.700 N	6.100 E	2				12	SWITZERLAND. <LDG>. ML 2.2 (LDG).
28	09	53	04.9*	11.852 N	143.323 E	33 N	4.6		1.2	17	SOUTH OF MARIANA ISLANDS
28	10	08	20.6	30.285 S	178.014 W	25 G	6.1	6.0	1.1	412	KERMADEC ISLANDS, NEW ZEALAND. Mw 6.3 (GS), 6.3 (HRV). Me 6.1 (GS). Felt on Raoul. Broadband Source Parameters (GS): Dep 25; NP1: Strike=210, Dip=30, Slip=110; NP2: Strike=7, Dip=62, Slip=79; Radiated energy 3.0*10**13 Nm. Moment Tensor (GS): Dep 17; Principal axes (scale 10**18 Nm): (T) Val=3.31, Plg=74, Azm=268; (N) Val=0.00, Plg=3, Azm=169; (P) Val=-3.31, Plg=16, Azm=78; Best double couple: Mo=3.3*10**18 Nm; NP1: Strike=164, Dip=29, Slip=84; NP2: Strike=350, Dip=61, Slip=93. Centroid, Moment Tensor (HRV): Centroid origin time 10:08:30.1; Lat 30.15 S; Lon 177.55 W; Dep 36.0 Bd; Half-duration 3.7 sec; Principal axes (scale 10**18 Nm): (T) Val=3.34, Plg=72, Azm=273; (N) Val=0.36, Plg=4, Azm=16; (P) Val=-3.70, Plg=17, Azm=108; Best double couple: Mo=3.5*10**18 Nm; NP1: Strike=204, Dip=28, Slip=99; NP2: Strike=14, Dip=62, Slip=85.
28	10	11	09.6*	36.120 N	69.786 E	319 ?	3.9		0.9	10	HINDU KUSH REGION, AFGHANISTAN
28	10	53	12.3&	43.566 N	20.833 E	17				11	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.7 (PDG).
28	11	08	28.4&	44.493 N	7.286 E	9				5	NORTHERN ITALY. <GEN>. ML 1.7 (GEN).
28	11	54	18.7&	47.100 N	5.600 E	2				5	FRANCE. <LDG>. ML 2.2 (LDG).
28	12	08	51.5&	18.989 N	65.041 W	44				9	PUERTO RICO REGION. <MPR>. MD 3.4 (MPR).
28	12	25	15.2*	22.440 S	179.064 E	661 ?	4.5		0.4	22	SOUTH OF FIJI ISLANDS
28	12	50	27.0&	38.940 N	111.470 W	5				13	UTAH. <SLC-P>. ML 2.8 (SLC).
28	13	17	12.4	29.999 N	69.397 E	33 N	5.0	4.6	1.1	125	PAKISTAN. Mw 5.5 (HRV). Felt at Barkhan. Centroid, Moment Tensor (HRV): Centroid origin time 13:17:13.0; Lat 29.20 N; Lon 69.74 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.80, Plg=36, Azm=192; (N) Val=0.35, Plg=27, Azm=80; (P) Val=-2.14, Plg=42, Azm=323; Best double couple: Mo=2.0*10**17 Nm; NP1: Strike=342, Dip=27, Slip=-7; NP2: Strike=79, Dip=87, Slip=-117.
28	13	27	59.8	41.064 N	116.562 W	5 G	3.4		0.6	31	NEVADA. ML 3.8 (GS).
28	13	50	10.6*	49.411 N	155.119 E	33 N			1.3	9	KURIL ISLANDS
28	14	26	32.9&	17.149 N	95.035 W	168				10	OAXACA, MEXICO. <UNM>. MD 4.3 (UNM).
28	14	49	19.0&	61.649 N	146.709 W	24				8	SOUTHERN ALASKA. <AEIC>. ML 2.9 (AEIC).
28	15	58	47.0&	48.100 N	1.400 W	2				6	FRANCE. <LDG>. ML 2.0 (LDG).
28	16	26	40.1*	5.91 S	151.29 E	78 ?	4.6		1.3	8	NEW BRITAIN REGION, P.N.G.
28	16	58	12.6&	59.522 N	151.596 W	32				6	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.9 (AEIC), 2.5 (PMR).
28	17	12	53.0*	53.323 N	167.154 W	33 N	4.4		1.3	13	FOX ISLANDS, ALEUTIAN ISLANDS
28	17	30	39.7&	18.279 N	67.184 W	93				5	MONA PASSAGE. <MPR>. MD 2.6 (MPR).
28	17	55	04.3*	25.771 N	93.435 E	73 ?	4.2		0.9	23	NORTHEASTERN INDIA
28	19	05	12.4&	42.546 N	18.598 E	15				10	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.6 (PDG).
28	19	18	15.3*	52.730 S	19.868 E	10 G	4.2		0.8	12	SOUTHWEST OF AFRICA
28	19	36	37.1&	14.488 N	60.846 W	127				4	WINDWARD ISLANDS. <FDF>. MG 2.6 (FDF).
28	19	48	01.1&	60.876 N	150.853 W	58				5	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.7 (AEIC), 2.6 (PMR).
28	20	05	04.1&	2.036 N	75.794 W	12				17	COLOMBIA. <RSNC>. ML 4.3 (RSNC).
28	20	20	49.3&	33.322 S	72.867 W	25				10	OFF COAST OF CENTRAL CHILE. <GUC>.
28	20	42	02.4&	39.140 S	174.400 E	5				5	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.7 (WEL).
28	20	43	48.5*	51.252 N	15.946 E	5 G			1.2	11	POLAND. ML 3.2 (VIE).

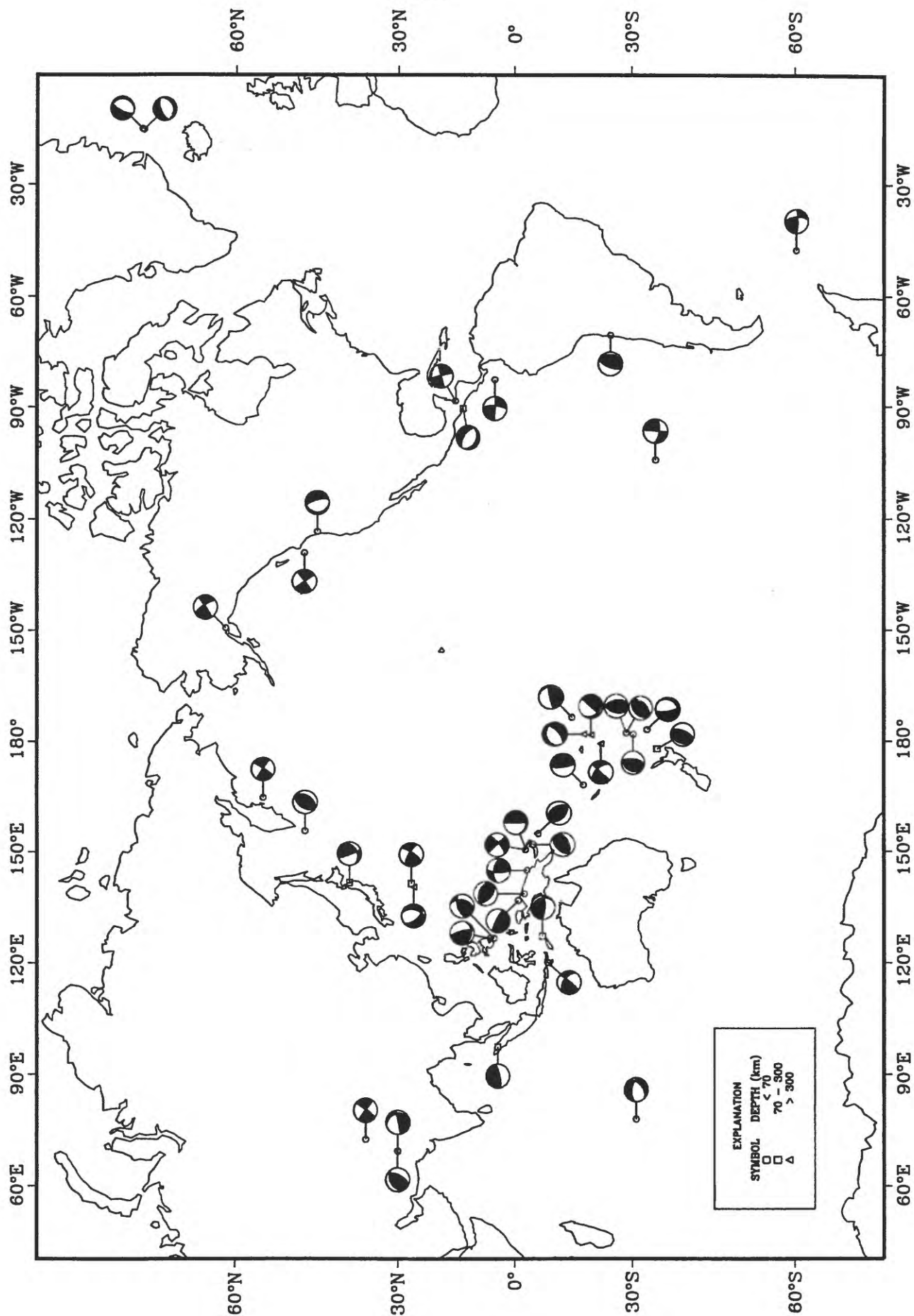
28	20	56	49.7*	44.292 N	149.014 E	33 N		0.9	21	KURIL ISLANDS
28	21	19	33.7	45.306 N	151.164 E	49	4.8 3.9	0.8	130	KURIL ISLANDS
28	21	29	06.3&	35.280 S	70.946 W	118			8	CHILE-ARGENTINA BORDER REGION. <GUC>.
28	22	46	49.4&	33.607 S	68.653 W	13			15	MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 3.5 (GUC).
29	00	43	18.7&	33.333 S	71.327 W	45			11	NEAR COAST OF CENTRAL CHILE. <GUC>.
29	01	30	02.6?	14.05 N	124.37 E	33 N	4.5	0.9	6	LUZON, PHILIPPINE ISLANDS
29	03	55	28.0	1.303 S	14.557 W	10 G	4.6	1.1	33	NORTH OF ASCENSION ISLAND
29	04	00	59.1&	37.340 N	7.890 W	12			12	PORTUGAL. <MDD>. mbLg 2.5 (MDD).
29	04	27	44.3&	44.345 N	7.297 E	12			9	NORTHERN ITALY. <GEN>. ML 1.9 (GEN).
29	04	33	04.4*	30.734 S	71.570 W	33 N		0.7	18	NEAR COAST OF CENTRAL CHILE. MD 4.3 (GUC).
29	04	37	51.8&	39.290 N	27.920 E	3			5	TURKEY. <ISK>. MD 3.0 (ISK).
29	04	49	43.8&	34.446 N	32.868 E	15	4.4		74	CYPRUS REGION. <CSS>. ML 4.1 (GII). Felt (IV) at Episkopi, Evdhimou and Limassol.
29	04	52	26.6&	38.797 N	122.733 W	4			19	NORTHERN CALIFORNIA. <GM-P>. Mw 3.7 (BRK). ML 3.6 (GM), 3.6 (BRK).
										Scalar Moment (BRK): Mo=4.3*10**14 Nm.
29	04	59	46.7&	37.270 N	20.670 E	5			4	IONIAN SEA. <ATH>. MD 3.0 (ATH).
29	05	25	27.5&	35.840 N	21.390 E	30			4	CENTRAL MEDITERRANEAN SEA. <ATH>. MD 3.4 (ATH).
29	05	27	59.0&	34.557 N	32.920 E	10			4	CYPRUS REGION. <CSS>. ML 2.5 (CSS).
29	05	35	51.9&	34.169 N	32.937 E	15			6	CYPRUS REGION. <CSS>. ML 2.7 (CSS).
29	06	51	36.7*	62.618 N	152.694 W	33 N		1.0	7	CENTRAL ALASKA. ML 2.6 (PMR).
29	06	59	56.1&	34.393 N	32.857 E	20			6	CYPRUS REGION. <CSS>. ML 3.0 (CSS).
29	08	02	49.9&	54.098 N	164.116 W	12			15	UNIMAK ISLAND REGION. <AEIC>. ML 3.0 (AEIC).
29	08	06	39.9&	10.772 N	60.911 W	28			6	TRINIDAD. <TRN>. MD 3.3 (TRN).
29	08	35	19.1	40.104 N	71.125 E	33 N	4.7 3.8	1.1	51	TAJIKISTAN. Felt (V) at Farghona, (IV) at Andijon and (II) at Toshkent, Uzbekistan.
29	08	39	10.6&	15.525 N	94.158 W	18			6	NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 4.2 (UNM).
29	09	49	54.8*	4.398 S	153.068 E	33 N	4.4	1.1	9	NEW IRELAND REGION, P.N.G.
29	09	53	53.6&	34.299 N	32.879 E	15			7	CYPRUS REGION. <CSS>. ML 3.6 (CSS).
29	10	21	36.7&	34.459 N	32.887 E	20			5	CYPRUS REGION. <CSS>. ML 3.0 (CSS).
29	10	35	49.7&	47.100 N	5.500 E	2			11	FRANCE. <LDG>. ML 2.4 (LDG).
29	10	50	01.5&	33.616 S	70.342 W	106			8	CHILE-ARGENTINA BORDER REGION. <GUC>.
29	10	59	46.6&	42.500 N	1.900 W	2			4	PYRENEES. <LDG>. ML 2.5 (LDG).
29	11	28	08.5*	5.526 S	103.627 E	33 N	4.7	1.0	18	SOUTHERN SUMATERA, INDONESIA
29	11	51	31.2&	32.200 S	71.672 W	37			12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
29	11	53	28.7*	10.689 S	161.842 E	59 ?		1.6	11	SOLOMON ISLANDS
29	12	02	45.6&	38.811 N	31.841 E	9			9	TURKEY. <ISK>. MD 3.7 (ISK).
29	12	02	58.5&	46.300 N	7.200 E	2			8	SWITZERLAND. <LDG>. ML 2.4 (LDG).
29	12	50	56.1	60.788 N	57.863 W	10 G	4.8 4.1	0.8	206	DAVIS STRAIT
29	14	34	58.4*	49.136 N	156.202 E	33 N	4.6	1.2	49	KURIL ISLANDS
29	14	57	34.7	63.379 N	150.715 W	30 *		1.0	8	CENTRAL ALASKA. ML 2.6 (PMR).
29	15	29	13.4	13.423 N	119.711 E	33 N	4.7	1.0	19	PHILIPPINE ISLANDS REGION
29	15	59	13.2&	47.900 N	1.300 W	21			4	FRANCE. <LDG>. ML 1.9 (LDG).
29	16	58	27.8&	9.038 N	83.991 W	20 G			13	COSTA RICA. <CASC>. MD 4.0 (CASC).
29	17	33	59.9&	35.740 N	26.220 E	35			5	CRETE. <ATH>. MD 3.5 (ATH).
29	17	34	36.7&	37.130 N	2.720 W	0 G			36	SPAIN. <MDD>. mbLg 3.5 (MDD). Felt (II) at Nacimiento.
29	17	39	09.8?	5.32 S	151.63 E	60 *	4.4	1.0	10	NEW BRITAIN REGION, P.N.G.
29	18	10	29.5&	34.750 N	23.150 E	5			17	CRETE. <ATH>. ML 3.9 (ATH).
29	19	14	35.9&	43.080 N	0.090 W	2 G			6	PYRENEES. <STR>. ML 2.2 (STR).
29	20	05	46.6&	33.629 S	71.646 W	27			8	NEAR COAST OF CENTRAL CHILE. <GUC>.
29	20	19	24.6*	8.227 S	123.899 E	164 *	4.8	1.3	18	FLORES REGION, INDONESIA
29	20	38	45.5	5.439 S	146.781 E	158	4.6	1.0	22	EASTERN NEW GUINEA REG., P.N.G.
29	20	39	48.4	35.901 N	69.108 E	27 D	4.5	0.5	12	HINDU KUSH REGION, AFGHANISTAN
29	20	53	40.0*	19.010 S	169.109 E	170	4.2	0.9	15	VANUATU ISLANDS
29	21	00	46.1&	63.502 N	148.653 W	86			44	CENTRAL ALASKA. <AEIC>.
29	21	50	42.2	17.024 N	94.252 W	135 D	5.0	0.8	225	CHIAPAS, MEXICO. MD 4.7 (UNM).
29	22	13	11.5&	32.638 S	71.609 W	32			11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
29	22	39	15.8&	41.140 S	174.040 E	61			11	COOK STRAIT, NEW ZEALAND. <WEL>.
29	22	40	48.2&	37.490 N	1.960 W	1			7	SPAIN. <MDD>. mbLg 2.1 (MDD).
29	22	58	44.9&	37.270 N	20.930 E	5			4	IONIAN SEA. <ATH>. MD 2.9 (ATH).
29	23	39	55.1&	35.530 N	23.520 E	5			7	CRETE. <ATH>. MD 3.7 (ATH).
30	01	49	42.7&	34.442 S	70.464 W	130			7	CHILE-ARGENTINA BORDER REGION. <GUC>.
30	02	02	49.9&	32.909 S	70.243 W	102			13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.1 (GUC).
30	02	39	35.1*	8.456 S	109.110 E	33 N	4.4	1.4	22	JAWA, INDONESIA
30	03	18	45.3*	30.226 S	178.262 W	250 G	4.5	1.0	15	KERMADEC ISLANDS, NEW ZEALAND
30	03	22	10.8&	31.781 S	70.322 W	119			10	CHILE-ARGENTINA BORDER REGION. <GUC>.
30	04	15	15.8&	42.748 N	20.172 E	11			10	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.0 (PDG).
30	04	29	21.2&	18.643 N	66.736 W	24			8	PUERTO RICO REGION. <MPR>. ML 3.2 (MPR).
30	05	28	19.9&	38.950 N	22.300 E	5			5	GREECE. <ATH>. MD 3.0 (ATH).
30	06	45	40.8&	16.836 N	62.072 W	25			7	LEEWARD ISLANDS. <TRN>. MD 2.9 (TRN).
30	07	31	05.0&	36.970 N	117.880 W	6			13	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.8 (REN).
30	07	31	39.5&	34.413 S	70.755 W	104			7	CHILE-ARGENTINA BORDER REGION. <GUC>.
30	08	49	22.1?	30.17 S	177.37 W	33 N	4.5	1.2	9	KERMADEC ISLANDS, NEW ZEALAND
30	09	31	12.3&	51.689 N	3.201 W	6			28	UNITED KINGDOM. <BGS>. ML 3.3 (LDG), 2.7 (BGS).
30	10	14	36.2&	37.030 N	3.660 W	1			7	SPAIN. <MDD>. mbLg 2.1 (MDD).
30	10	50	35.1&	35.540 N	23.190 E	5			5	CRETE. <ATH>. MD 3.3 (ATH).
30	10	55	12.2*	76.212 N	8.066 E	10 G	4.0	0.6	7	SVALBARD REGION
30	10	57	57.1	85.681 N	82.938 E	10 G	4.7 4.3	1.0	76	NORTH OF SEVERNAYA ZEMLYA
30	11	14	37.5*	75.864 N	9.397 E	10 G	4.0	1.5	7	GREENLAND SEA
30	11	20	54.9&	48.100 N	5.500 E	2			8	FRANCE. <LDG>. ML 2.4 (LDG).
30	11	35	30.5&	43.820 N	6.750 E	2			9	NEAR SOUTH COAST OF FRANCE. <STR>. ML 2.3 (STR), 2.3 (LDG).
30	12	09	48.8&	43.900 N	7.160 E	2 G			9	NEAR SOUTH COAST OF FRANCE. <STR>. ML 2.2 (LDG), 2.0 (STR).
30	12	12	35.8	13.993 N	145.072 E	25 *	4.7 4.1	1.0	34	MARIANA ISLANDS
30	12	49	57.4&	36.616 N	121.220 W	6			17	CENTRAL CALIFORNIA. <GM-P>. ML 3.0 (GM), 3.0 (BRK).
30	12	54	32.0	36.993 S	72.850 W	37 D	4.5	1.0	61	NEAR COAST OF CENTRAL CHILE. Felt (V) at Arauco, Chillan and Concepcion; (IV) at Los Angeles; (II) at Angol, Cauquenes, Linares, Renaico and Talca.
30	13	44	29.6&	34.090 S	70.761 W	93			10	CHILE-ARGENTINA BORDER REGION. <GUC>.
30	15	20	56.5&	37.820 N	20.810 E	5			5	IONIAN SEA. <ATH>. MD 3.2 (ATH).
30	15	29	43.7&	45.400 N	2.500 E	2			18	FRANCE. <LDG>. ML 2.5 (LDG), 2.4 (STR).
30	15	34	39.3	51.999 N	178.098 E	103 D	4.8	0.9	134	RAT ISLANDS, ALEUTIAN ISLANDS
30	15	46	15.1*	5.905 S	149.983 E	53 *	4.8	1.4	23	NEW BRITAIN REGION, P.N.G.
30	15	48	14.8	17.838 S	178.330 W	600 D	4.6	0.9	64	FIJI ISLANDS REGION

30	16	02	37.8&	37.020 N	4.190 W	1			8	SPAIN. <MDD>. mbLg 2.0 (MDD).
30	16	08	20.1&	37.020 N	4.220 W	0			14	SPAIN. <MDD>. mbLg 2.1 (MDD).
30	17	18	26.6*	32.980 N	136.846 E	410 *	3.9	1.0	12	SOUTHEAST OF SHIKOKU, JAPAN
30	17	37	20.7&	42.442 N	19.099 E	21			7	NORTHWESTERN BALKAN REGION. <PDG>. MD 1.3 (PDG).
30	17	41	38.4*	14.448 S	171.772 E	600 G	4.2	0.7	11	VANUATU ISLANDS REGION
30	18	34	19.1&	38.144 N	29.789 E	0			5	TURKEY. <ISK>. MD 3.1 (ISK).
30	20	44	28.5&	45.624 N	26.682 E	33 N		0.3	6	ROMANIA
30	21	12	31.6&	35.060 N	3.990 W	0			14	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.4 (MDD).
30	21	33	57.4*	9.133 N	126.606 E	48 *	4.4	1.0	18	MINDANAO, PHILIPPINE ISLANDS
30	22	02	50.0*	19.000 N	145.264 E	350 G		0.7	9	MARIANA ISLANDS
30	22	24	48.2&	44.800 N	6.500 E	2			7	FRANCE. <GEN>. ML 1.6 (GEN).
30	22	30	36.1*	1.260 S	149.779 E	33 N	4.6	1.0	16	NEW IRELAND REGION, P.N.G.
30	22	43	17.8&	51.691 N	3.188 W	7			6	UNITED KINGDOM. <BGS>. ML 1.3 (BGS).
30	22	56	05.5*	7.093 S	128.807 E	33 N	4.4	1.3	15	BANDA SEA
30	23	42	16.1?	47.12 N	154.56 E	33 N	4.5	1.1	12	KURIL ISLANDS
31	00	07	58.1&	39.479 N	28.055 E	8			12	TURKEY. <ISK>. MD 3.5 (ATH), 3.2 (ISK).
31	00	23	26.1	7.401 S	147.505 E	75	4.9	1.0	36	EASTERN NEW GUINEA REG., P.N.G. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 00:23:25.5; Lat 7.82 S; Lon 147.57 E; Dep 93.3; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.87, Plg=36, Azm=254; (N) Val=0.18, Plg=53, Azm=66; (P) Val=-5.05, Plg=4, Azm=161; Best double couple: Mo=5.0*10**16 Nm; NP1: Strike=291, Dip=62, Slip=155; NP2: Strike=33, Dip=68, Slip=30.
31	00	28	45.2&	44.338 N	7.281 E	11			4	NORTHERN ITALY. <GEN>. ML 1.6 (GEN).
31	00	51	32.7&	29.130 N	14.390 W	0 G			4	CANARY ISLANDS REGION. <MDD>. mbLg 3.2 (MDD). Felt (III) at Pajara.
31	02	01	37.9&	35.130 N	3.840 W	0 G			7	STRAIT OF GIBRALTAR. <MDD>. mbLg 1.9 (MDD).
31	02	24	48.1	85.774 N	82.932 E	10 G	4.3	1.3	34	NORTH OF SEVERNAYA ZEMLYA
31	03	15	10.9&	56.142 N	3.694 W	0			6	UNITED KINGDOM. <BGS>. ML 1.4 (BGS). Felt at Clackmannan and Forrestmill.
31	03	29	06.2&	34.833 N	33.198 E	40			7	CYPRUS REGION. <CSS>.
31	04	00	51.7*	39.379 N	141.925 E	116 ?	4.3	1.2	10	EASTERN HONSHU, JAPAN. Felt (II JMA) in southeastern Iwate and northeastern Miyagi; (I JMA) in southeastern Aomori and other parts of Iwate Prefectures.
31	04	07	33.4*	19.023 S	169.465 E	267 *	4.2	1.1	38	VANUATU ISLANDS
31	04	32	33.3*	41.704 N	141.873 E	57 *	4.5	1.0	33	HOKKAIDO, JAPAN REGION. Felt (II JMA) in eastern Aomori Prefecture, Honshu. Felt (I JMA) in parts of southern Hokkaido and in northern Iwate Prefecture, Honshu.
31	04	52	14.0&	37.390 N	117.080 W	6			6	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.9 (REN).
31	05	02	31.0?	32.37 S	117.89 E	10 G		0.7	5	WESTERN AUSTRALIA
31	05	44	53.9&	34.218 S	70.676 W	111			7	CHILE-ARGENTINA BORDER REGION. <GUC>.
31	05	51	40.6&	42.620 S	173.780 E	16			6	SOUTH ISLAND, NEW ZEALAND. <WEL>. ML 3.3 (WEL).
31	05	56	55.3*	19.343 S	172.914 W	33 N	4.3	0.8	22	TONGA ISLANDS REGION
31	06	18	01.1&	39.192 N	29.260 E	10			6	TURKEY. <ISK>. MD 2.9 (ISK).
31	07	11	35.2	5.201 N	82.579 W	10 G	4.8 4.8	1.3	126	SOUTH OF PANAMA. Mw 5.5 (HRV). MD 4.7 (CASC). Centroid, Moment Tensor (HRV): Centroid origin time 07:11:41.2; Lat 5.09 N; Lon 82.52 W; Dep 15.0 Fix; Half- duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=2.03, Plg=14, Azm=320; (N) Val=0.09, Plg=71, Azm=97; (P) Val=-2.11, Plg=13, Azm=227; Best double couple: Mo=2.1*10**17 Nm; NP1: Strike=3, Dip=71, Slip=179; NP2: Strike=94, Dip=89, Slip=19.
31	07	16	08.6&	14.189 N	61.054 W	14			4	WINDWARD ISLANDS. <PDF>. MD 2.8 (PDF).
31	07	19	10.6&	38.380 N	22.050 E	5	3.8		33	GREECE. <ATH>. MD 3.7 (ATH).
31	07	23	21.5&	42.621 N	19.057 E	11			9	NORTHWESTERN BALKAN REGION. <PDG>. MD 1.2 (PDG).
31	07	33	48.3&	51.699 N	3.222 W	2			5	UNITED KINGDOM. <BGS>. ML 1.1 (BGS).
31	08	06	18.2?	9.44 N	92.86 E	33 N	4.3	1.5	7	NICOBAR ISLANDS, INDIA
31	10	11	38.9&	35.923 N	117.757 W	7			15	CENTRAL CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
31	10	32	08.3	22.758 S	69.887 W	38 D	4.4	1.2	27	NORTHERN CHILE
31	10	33	44.7&	38.590 N	24.410 E	36			8	AEGEAN SEA. <ATH>. MD 3.2 (ATH).
31	10	36	45.0&	33.262 N	116.001 W	4			28	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
31	10	50	22.2&	39.257 N	27.796 E	6			10	TURKEY. <ISK>. MD 3.6 (ATH), 3.1 (ISK).
31	11	16	56.8&	34.443 S	70.750 W	105			12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.3 (GUC).
31	11	36	39.1	49.352 N	156.247 E	36	4.4	1.0	44	KURIL ISLANDS
31	11	52	02.0&	10.821 N	62.343 W	68			5	NEAR COAST OF VENEZUELA. <TRN>. MD 3.0 (TRN).
31	12	21	10.5&	38.380 N	21.940 E	5			14	GREECE. <ATH>. MD 3.4 (ATH).
31	12	42	06.0&	39.310 N	20.290 E	21			5	GREECE-ALBANIA BORDER REGION. <ATH>. MD 3.1 (ATH).
31	12	44	01.3&	31.328 S	71.679 W	18			11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
31	14	17	09.0&	34.633 S	70.291 W	15			7	CHILE-ARGENTINA BORDER REGION. <GUC>.
31	14	35	25.8*	52.865 N	160.205 E	51 *		1.4	10	OFF EAST COAST OF KAMCHATKA
31	14	44	43.2&	46.718 N	0.355 E	10 G		1.1	6	FRANCE. ML 2.3 (LDG).
31	14	47	41.6	7.863 N	73.190 W	188	4.1	0.6	36	NORTHERN COLOMBIA
31	15	23	53.8*	29.188 S	112.289 W	10 G	4.7	0.6	21	EASTER ISLAND REGION
31	16	11	14.0&	42.850 N	0.680 W	2 G			6	PYRENEES. <STR>. ML 2.2 (STR).
31	16	43	47.8&	11.447 N	61.933 W	15			4	WINDWARD ISLANDS. <TRN>. MD 2.7 (TRN).
31	16	49	30.3&	41.304 N	19.654 E	1			14	ALBANIA. <PDG>. MD 3.4 (PDG).
31	17	14	10.8&	41.905 N	20.071 E	12			12	ALBANIA. <PDG>. MD 2.7 (PDG).
31	17	27	23.0	85.666 N	83.887 E	10 G	4.5 4.1	1.0	58	NORTH OF SEVERNAYA ZEMLYA
31	17	36	48.5	23.032 N	123.057 E	33 N	4.8 4.3	1.3	52	SOUTHWESTERN RYUKYU ISLANDS. Felt (I JMA) on Iriomote-jima.
31	18	23	57.0*	5.057 S	143.744 E	106 *	3.7	1.1	11	NEW GUINEA, PAPUA NEW GUINEA
31	18	58	11.5	49.386 N	155.692 E	56	4.9 4.1	0.8	180	KURIL ISLANDS
31	19	54	30.5?	16.46 S	173.23 W	33 N	4.4 4.5	1.0	25	TONGA ISLANDS
31	20	22	38.8*	5.433 S	152.057 E	93 *	4.5	1.4	13	NEW BRITAIN REGION, P.N.G.
31	22	10	01.4&	34.387 N	32.087 E	25			4	CYPRUS REGION. <CSS>. ML 1.7 (CSS).
31	22	18	18.5	1.178 S	149.790 E	33 N	4.9 4.3	1.1	31	NEW IRELAND REGION, P.N.G.
31	22	31	31.2&	40.160 N	21.710 E	10			6	GREECE. <ATH>. MD 3.0 (ATH).
31	22	47	18.8&	32.167 S	71.426 W	39			10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
31	22	56	04.7?	1.07 S	150.13 E	33 N	3.9	1.4	7	NEW IRELAND REGION, P.N.G.
31	23	26	32.2&	31.670 S	69.991 W	144			11	SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 2.3 (GUC).

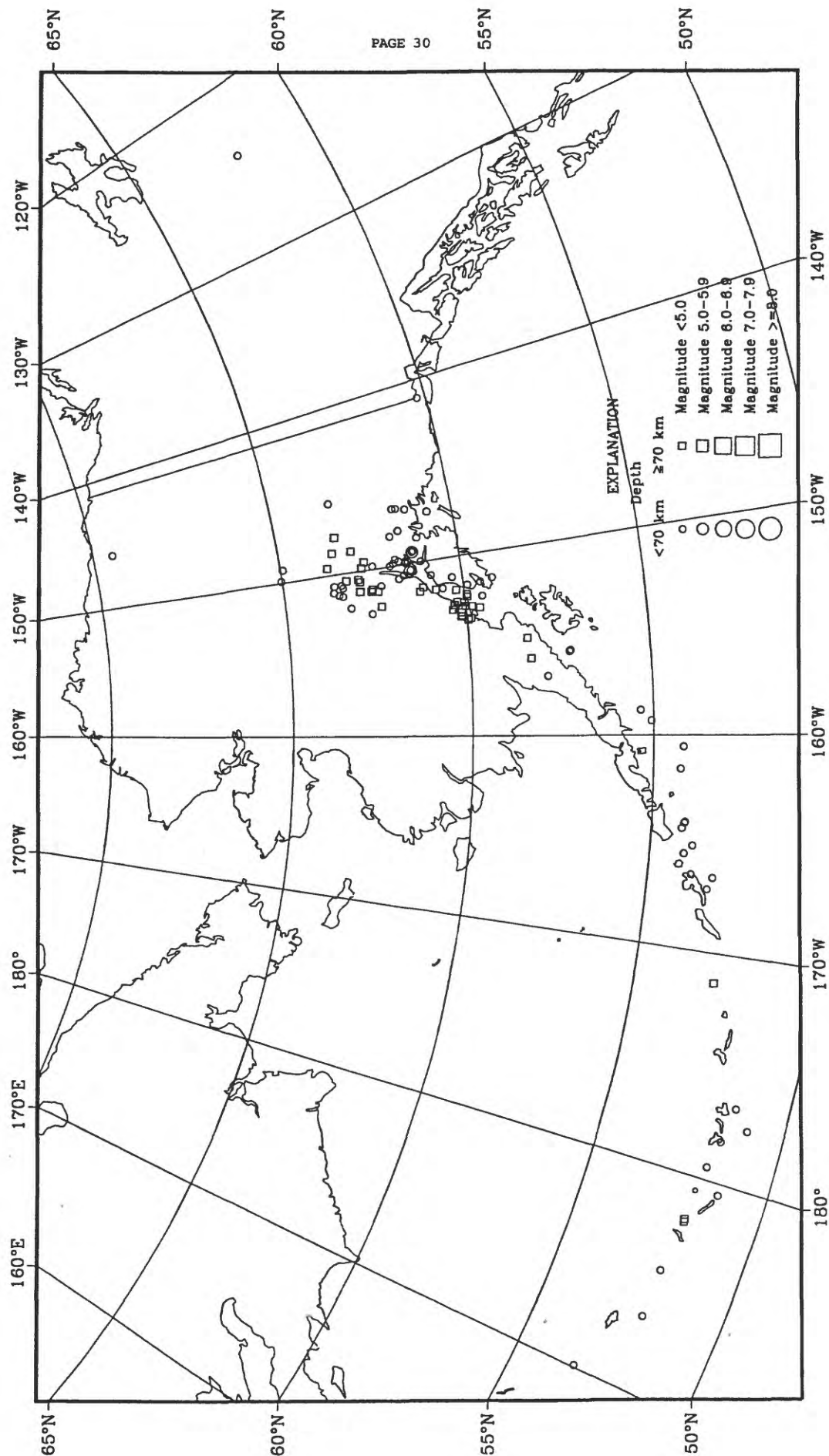
Compiled by John J. Bellini, Pamela J. Benfield, Don L. Blakeman, Charles G. Bufe, George L. Choy, Stuart K. Koyanagi, Brian C. Lassige, Alena L. Leeds, John H. Minsch, Waverly J. Person, Bruce W. Presgrave, Stuart A. Sipkin, William K. Smith, Trina F. Vithayathil and Madeleine D. Zirbes.



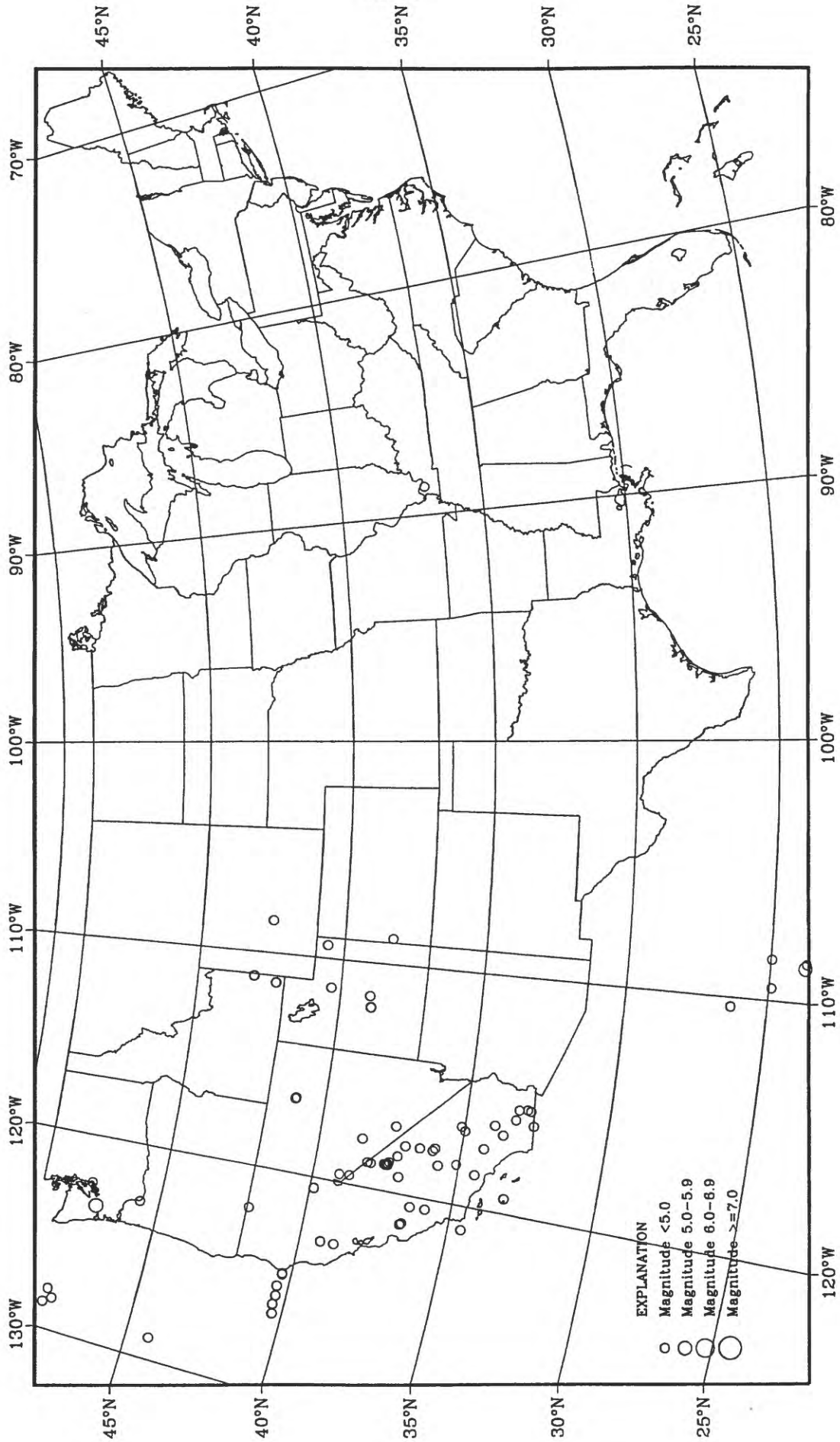
Earthquake Focal Mechanisms for July 1999



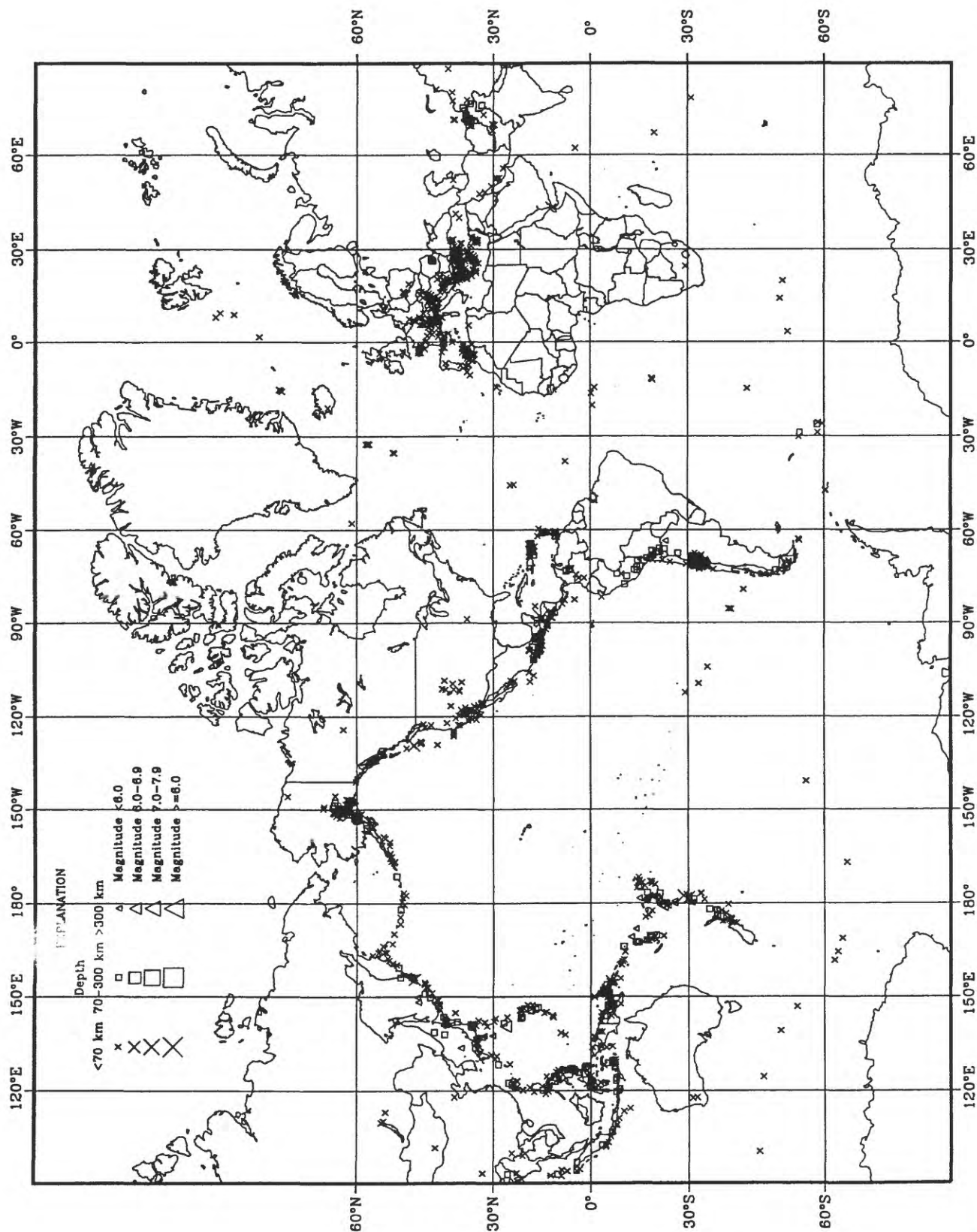
Earthquake epicenters in Alaska and adjacent regions for July 1999



Earthquake epicenters in the conterminous United States and adjacent regions for July 1999



Earthquakes located worldwide in July 1999



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.
 CASC Central America Seismic Center, Costa Rica.
 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 Institut 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 MB 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 $5 \cdot 10^{18}$ 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.

A. M. Dziewonski, G. Ekstrom and M. P. Salganik, Department of Earth and Planetary Sciences, Harvard University, Cambridge, MA 02138

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

Dziewonski, A. M., Chou, T. A., and Woodhouse, J. H., 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 Δ is the epicentral distance in km. Seismic moments quoted in "Preliminary Determination of Epicenters" are converted to Newton-meters (1 Newton-meter = 10^{+7} dyne-cm).

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

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 1999

ORIGIN TIME			GEOGRAPHIC		DEPTH	MAGNITUDE		SD	NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
DAY	HR	MIN SEC	LAT	LONG		GS	MsZ			
01	00	29 24.4*	54.075 S	56.089 W	10 G	4.2		1.1	13	FALKLAND ISLANDS REGION
01	00	32 21.4&	43.020 N	17.897 E	0				9	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.3 (PDG).
01	01	12 19.2	24.915 N	123.045 E	162	4.6		1.0	54	SOUTHWESTERN RYUKYU ISLANDS. Felt (II JMA) on Iricmote-jima and Ishigaki-jima; (I JMA) on Miyako-jima.
01	01	23 18.9&	40.580 S	174.780 E	28				6	COOK STRAIT, NEW ZEALAND. <WEL>. ML 3.3 (WEL). Felt at Marton on the North Island.
01	01	37 26.8&	37.210 N	3.710 W	0				8	SPAIN. <MDD>. mbLg 1.5 (MDD).
01	01	46 31.6*	1.275 S	149.909 E	33 N	4.4		1.5	12	NEW IRELAND REGION, P.N.G.
01	02	03 39.2&	32.587 S	70.481 W	99				12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
01	02	28 40.6	16.196 N	93.410 W	153	4.3		1.3	27	CHIAPAS, MEXICO. MD 4.6 (UNM).
01	02	32 15.9?	31.24 S	71.71 W	33 N			0.3	13	NEAR COAST OF CENTRAL CHILE. MD 3.8 (GUC).
01	02	48 32.5*	36.546 N	140.434 E	33 N			0.8	7	NEAR EAST COAST OF HONSHU, JAPAN
01	03	43 01.5&	46.600 N	4.200 E	12				43	FRANCE. <LDG>. ML 3.1 (LDG), 2.9 (STR).
01	03	50 50.9&	41.420 S	175.000 E	25				9	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.4 (WEL).
01	04	12 31.2&	11.044 N	61.959 W	24				5	WINDWARD ISLANDS. <TRN>. MD 3.3 (TRN).
01	04	17 14.0&	37.390 N	117.080 W	6				33	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.9 (REN). ML 3.9 (GS).
01	04	22 22.6&	35.312 S	71.451 W	91				8	CENTRAL CHILE. <GUC>.
01	04	33 06.6&	18.285 N	67.176 W	23				5	MONA PASSAGE. <MPR>. ML 3.3 (MPR).
01	04	54 59.4*	44.751 N	17.779 E	10 G			0.5	10	NORTHWESTERN BALKAN REGION
01	05	06 40.4&	42.790 N	7.250 W	1				7	SPAIN. <MDD>. mbLg 2.5 (MDD).
01	05	08 24.9&	42.790 N	7.200 W	4				49	SPAIN. <MDD>. mbLg 3.5 (MDD). Felt (IV) in the Triacastela area.
01	05	10 39.0&	42.790 N	7.220 W	4				9	SPAIN. <MDD>. mbLg 3.1 (MDD).
01	05	22 06.8*	2.173 S	101.338 E	103 *	4.5		0.9	29	SOUTHERN SUMATERA, INDONESIA
01	05	33 40.1&	33.353 S	70.446 W	89				16	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 4.0 (GUC).
01	05	40 10.0&	37.380 N	117.070 W	6				12	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.9 (REN). ML 3.0 (GS).
01	06	03 56.0&	37.390 N	117.060 W	6				11	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.9 (REN). ML 2.9 (GS).
01	06	11 52.7&	42.790 N	7.270 W	0 G				10	SPAIN. <MDD>. mbLg 2.7 (MDD).
01	06	20 43.0&	47.490 N	10.160 E	5				10	AUSTRIA. <FBB>. ML 2.1 (VIE), 2.0 (FBB).
01	07	06 37.5*	36.111 N	10.159 W	10 G			0.8	26	NORTH ATLANTIC OCEAN. mbLg 2.9 (MDD).
01	07	07 58.0&	48.850 N	9.570 E	11				47	GERMANY. <FBB>. ML 3.0 (VIE), 2.9 (LDG), 2.9 (GRF), 2.8 (FBB), 2.7 (STR), 2.6 (FUR).
01	07	28 04.5%	52.848 S	27.348 E	10 G			1.0	8	SOUTH OF AFRICA
01	07	36 23.6?	17.91 S	172.75 W	33 N	4.2		1.0	16	TONGA ISLANDS REGION
01	08	09 01.9*	15.564 S	70.858 W	182 *	3.8		0.9	11	SOUTHERN PERU
01	08	24 46.1	28.442 N	86.733 E	40	5.2		0.7	205	XIZANG
01	08	38 50.1*	22.820 S	170.236 E	33 N			1.1	11	LOYALTY ISLANDS REGION
01	08	39 04.9	30.367 S	177.832 W	10 G	5.7 6.4		0.8	275	KERMADEC ISLANDS, NEW ZEALAND. Mw 6.5 (HRV), 6.2 (GS). Me 6.2 (GS).
Broadband Source Parameters (GS): Radiated energy 4.5*10**13 Nm.										
Moment Tensor (GS): Dep 19; Principal axes (scale 10**18 Nm): (T) Val=2.20, Plg=59, Azm=317; (N) Val=-0.19, Plg=17, Azm=196; (P) Val=-2.01, Plg=25, Azm=98; Best double couple: Mo=2.1*10**18 Nm; NPl: Strike=156, Dip=25, Slip=47; NP2: Strike=22, Dip=72, Slip=108.										
Centroid, Moment Tensor (HRV): Centroid origin time 08:39:17.6; Lat 30.34 S; Lon 177.32 W; Dep 18.0 B*Y; Half-duration 5.0 sec; Principal axes (scale 10**18 Nm): (T) Val=6.43, Plg=66, Azm=275; (N) Val=0.38, Plg=6, Azm=18; (P) Val=-6.81, Plg=24, Azm=111; Best double couple: Mo=6.6*10**18 Nm; NPl: Strike=213, Dip=22, Slip=106; NP2: Strike=16, Dip=69, Slip=84.										
Scalar Moment (PPT): Mo=8.0*10**18 Nm.										
01	08	47 29.4?	30.79 S	177.50 W	33 N	4.6		1.5	11	KERMADEC ISLANDS, NEW ZEALAND
01	08	49 59.8&	31.886 S	70.534 W	125				15	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.1 (GUC).
01	10	02 16.2	30.498 S	177.421 W	33 N	4.9		1.2	45	KERMADEC ISLANDS, NEW ZEALAND
01	11	06 59.2&	32.778 S	69.925 W	120				13	MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 2.6 (GUC).

01	11	20	27.4	15.188 S	173.582 W	33 N	4.8	0.7	79	TONGA ISLANDS
01	11	33	16.5	44.789 N	6.853 E	15			7	FRANCE. <GEN>. ML 2.1 (GEN).
01	12	29	03.1	65.010 N	148.773 W	21			21	NORTHERN ALASKA. <AEIC>. ML 2.8 (AEIC), 3.1 (PMR).
01	12	47	50.1	51.520 N	176.273 W	33 N	5.5 5.5	0.8	294	ANDREANOF ISLANDS, ALEUTIAN IS. Mw 5.9 (GS), 5.9 (HRV). Me 5.6 (GS). Felt strongly on Adak. Broadband Source Parameters (GS): Dep 34; Radiated energy 6.4*10**12 Nm. Moment Tensor (GS): Dep 34; Principal axes (scale 10**18 Nm): (T) Val=0.74, Plg=69, Azm=315; (N) Val=0.26, Plg=10, Azm=73; (P) Val=-1.00, Plg=18, Azm=166; Best double couple: Mo=8.7*10**17 Nm; NP1: Strike=271, Dip=29, Slip=111; NP2: Strike=68, Dip=64, Slip=79. Centroid, Moment Tensor (HRV): Centroid origin time 12:47:53.3; Lat 51.51 N; Lon 176.09 W; Dep 34.0 Bdy; Half-duration 2.3 sec; Principal axes (scale 10**17 Nm): (T) Val=8.92, Plg=66, Azm=323; (N) Val=0.37, Plg=3, Azm=60; (P) Val=-9.28, Plg=24, Azm=152; Best double couple: Mo=9.1*10**17 Nm; NP1: Strike=248, Dip=22, Slip=98; NP2: Strike=59, Dip=69, Slip=87. Scalar Moment (PPT): Mo=1.4*10**18 Nm.
01	13	02	14.6	37.070 N	3.920 W	0			11	SPAIN. <MDD>. mbLg 2.2 (MDD).
01	13	14	42.9	12.44 S	166.79 E	299 ?	4.2	1.1	38	SANTA CRUZ ISLANDS
01	14	02	17.4	5.005 S	153.239 E	61 *	5.0	0.8	36	NEW IRELAND REGION, P.N.G.
01	14	29	55.7	8.474 S	118.518 E	126 *	4.1	1.3	14	SUMBAWA REGION, INDONESIA
01	14	56	26.0	37.380 N	117.090 W	6			7	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.5 (REN).
01	14	56	40.6	37.417 N	117.071 W	5 G		1.0	26	CALIFORNIA-NEVADA BORDER REGION. ML 3.8 (GS). MD 3.7 (REN).
01	15	28	05.2	41.017 N	71.953 E	10 G		0.9	10	KYRGYZSTAN. Felt (IV) at Namangan, Uzbekistan.
01	15	40	58.5	18.424 N	68.801 W	166			9	MONA PASSAGE. <MPR>. MD 3.7 (MPR).
01	15	44	32.2	36.940 S	176.790 E	284			9	OFF E. COAST OF N. ISLAND, N.Z. <WEL>.
01	16	06	22.0	37.390 N	117.080 W	8	5.7 5.4		369	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. Mw 5.7 (GS), 5.7 (HRV), 5.7 (BRK). Me 5.6 (GS). MD 5.3 (REN). Felt at Amargosa Valley, Beatty, Fallon, Goldfield, Las Vegas, Pahrump, Round Mountain and Tonopah, Nevada. Also felt at Big Pine, Bishop, Death Valley Junction, Fresno, Ridgecrest and Yermo, California. Broadband Source Parameters (GS): Dep 9; NP1: Strike=195, Dip=70, Slip=-150; NP2: Strike=94, Dip=62, Slip=-23; Radiated energy 5.4*10**12 Nm. Moment Tensor (GS): Dep 6; Principal axes (scale 10**17 Nm): (T) Val=3.66, Plg=2, Azm=320; (N) Val=-0.05, Plg=32, Azm=229; (P) Val=-3.61, Plg=58, Azm=52; Best double couple: Mo=3.6*10**17 Nm; NP1: Strike=78, Dip=51, Slip=-48; NP2: Strike=202, Dip=55, Slip=-130. Centroid, Moment Tensor (HRV): Centroid origin time 16:06:30.6; Lat 37.58 N Fix; Lon 117.11 W Fix; Dep 15.0 Bdy; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=4.26, Plg=5, Azm=315; (N) Val=-0.63, Plg=26, Azm=223; (P) Val=-3.63, Plg=63, Azm=55; Best double couple: Mo=4.0*10**17 Nm; NP1: Strike=71, Dip=46, Slip=52; NP2: Strike=203, Dip=55, Slip=-123. Moment Tensor (BRK): Dep 8; Principal axes (scale 10**17 Nm): (T) Val=3.61, Plg=19, Azm=314; (N) Val=0.00, Plg=3, Azm=45; (P) Val=-3.61, Plg=71, Azm=142; Best double couple: Mo=3.6*10**17 Nm; NP1: Strike=226, Dip=64, Slip=-87; NP2: Strike=39, Dip=26, Slip=-96.
01	16	06	58.5	21.558 N	143.350 E	265 ?		1.0	12	MARIANA ISLANDS REGION
01	16	11	20.4	37.399 N	117.042 W	5 G	4.8	0.8	56	CALIFORNIA-NEVADA BORDER REGION
01	16	19	24.4	38.732 N	39.935 E	10			5	TURKEY. <ISK>. MD 3.6 (ISK).
01	16	19	29.0	37.430 N	117.042 W	5 G		0.3	8	CALIFORNIA-NEVADA BORDER REGION. ML 3.3 (GS).
01	16	25	05.5	37.387 N	117.058 W	5 G		0.7	11	CALIFORNIA-NEVADA BORDER REGION. ML 3.0 (GS).
01	16	26	47.0	37.380 N	117.070 W	0			61	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. ML 4.2 (BRK), 3.9 (GS).
01	16	27	16.9	37.351 N	117.043 W	5 G	4.7	1.0	99	CALIFORNIA-NEVADA BORDER REGION. ML 4.9 (GS).
01	16	32	44.3	37.398 N	117.028 W	5 G		0.8	17	CALIFORNIA-NEVADA BORDER REGION. ML 3.5 (GS).
01	16	46	46.2	37.358 N	117.064 W	5 G		0.5	21	CALIFORNIA-NEVADA BORDER REGION. ML 3.7 (GS). Small precursor about eight seconds prior to this event.
01	16	57	34.0	37.410 N	117.070 W	5			13	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.5 (REN). ML 3.2 (GS).
01	17	05	54.0	37.400 N	117.150 W	0			38	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.7 (REN). ML 3.7 (GS).
01	17	15	50.0	37.430 N	117.100 W	0			33	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.4 (REN). ML 3.6 (GS).
01	17	31	34.0	37.420 N	117.070 W	4			13	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.2 (REN). ML 3.3 (GS).
01	17	39	21.0	37.430 N	117.110 W	6			10	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.9 (REN). ML 3.1 (GS).
01	17	47	45.0	37.380 N	117.070 W	6			31	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.7 (REN). ML 3.8 (GS).
01	17	59	19.8	52.558 N	169.011 W	33 N	4.6	0.7	13	FOX ISLANDS, ALEUTIAN ISLANDS
01	18	03	47.0	37.410 N	117.120 W	0			9	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.8 (REN).
01	18	08	44.4	1.992 N	127.174 E	114 *	4.6	0.9	25	HALMAHERA, INDONESIA
01	18	11	41.0	37.410 N	117.070 W	1			15	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.2 (REN). ML 3.3 (GS).
01	18	13	31.0	37.410 N	117.090 W	6			15	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.0 (REN). ML 3.5 (GS).
01	18	18	36.7	16.941 S	167.450 E	33 N	4.7 4.5	1.1	81	VANUATU ISLANDS
01	18	26	00.0	37.390 N	117.070 W	2			22	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.7 (REN). ML 3.7 (GS).
01	18	35	35.0	37.410 N	117.070 W	8			14	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.3 (REN). ML 3.3 (GS).
01	19	22	52.6	33.855 N	48.386 E	33 N	4.6	1.0	92	WESTERN IRAN
01	19	38	19.0	32.025 S	71.442 W	46			12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
01	19	52	26.0	37.390 N	117.060 W	4			20	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.3 (REN). ML

Time	Lat	Long	Depth	Magnitude	Location	Notes
01 19 57 26.2*	2.079 S	134.355 E	33 N	3.9	IRIAN JAYA REGION, INDONESIA	1.0 8
01 19 58 10.5*	34.218 N	135.240 E	10 G		NEAR S. COAST OF WESTERN HONSHU. Felt (II JMA) in Osaka and southern Hyogo Prefectures.	1.4 9
01 19 59 49.0&	37.400 N	117.230 W	6		CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.4 (REN). ML 3.5 (GS).	19
01 20 07 17.4?	30.51 S	177.14 W	33 N	4.4	KERMADEC ISLANDS, NEW ZEALAND	1.3 10
01 20 10 54.3	52.303 N	173.381 W	51 D	5.2	ANDREANOF ISLANDS, ALEUTIAN IS. Mw 5.3 (GS), 5.3 (HFV). Moment Tensor (GS): Dep 50; Principal axes (scale 10**17 Nm): (T) Val=0.98, Plg=72, Azm=269; (N) Val=0.06, Plg=18, Azm=100; (P) Val=-1.04, Plg=3, Azm=9; Best double couple: Mo=1.0*10**17 Nm; NP1: Strike=81, Dip=45, Slip=65; NP2: Strike=295, Dip=51, Slip=113. Centroid, Moment Tensor (HRV): Centroid origin time 20:10:57.0; Lat 52.12 N; Lon 173.27 W; Dep 57.7; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.04, Plg=77, Azm=293; (N) Val=-0.07, Plg=8, Azm=63; (P) Val=-0.98, Plg=9, Azm=154; Best double couple: Mo=1.0*10**17 Nm; NP1: Strike=254, Dip=36, Slip=104; NP2: Strike=57, Dip=55, Slip=80.	0.9 289
01 20 22 18.0&	37.440 N	117.110 W	6		CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.0 (REN). ML 3.0 (GS).	8
01 20 29 27.0*	0.290 S	123.108 E	92 ?	4.0	MINAHASSA PENINSULA, SULAWESI	0.9 9
01 20 47 48.8*	24.649 N	122.049 E	45 *	4.5	TAIWAN REGION	0.7 10
01 20 54 56.5*	51.309 N	177.000 W	33 N	4.2	ANDREANOF ISLANDS, ALEUTIAN IS.	1.3 18
01 21 00 49.0&	37.390 N	117.080 W	4		CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.8 (REN). ML 2.9 (GS).	10
01 21 09 53.0&	37.430 N	117.100 W	6		CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.1 (REN). ML 3.2 (GS).	10
01 21 23 49.3&	48.600 N	2.300 W	2		FRANCE. <LDG>. ML 2.3 (LDG).	5
01 22 04 34.7*	27.673 S	71.347 W	63 *	4.2	NEAR COAST OF NORTHERN CHILE	1.2 17
01 22 07 00.0&	37.390 N	117.090 W	9		CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.9 (REN). ML 3.2 (GS).	13
01 22 09 41.0&	37.390 N	117.060 W	3		CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.1 (REN). ML 3.4 (GS).	12
01 22 17 21.0&	37.390 N	117.060 W	4		CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.1 (REN). ML 3.2 (GS).	13
01 22 51 39.6*	13.474 N	120.089 E	81 *		MINDORO, PHILIPPINE ISLANDS	1.4 11
01 23 38 56.0&	37.380 N	117.070 W	6		CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.8 (REN). ML 3.7 (GS).	35
01 23 51 49.0&	37.400 N	117.090 W	6		CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.0 (REN). ML 2.9 (GS).	10
02 00 16 32.8	37.388 N	117.070 W	5 G		CALIFORNIA-NEVADA BORDER REGION. ML 3.3 (GS).	9
02 00 26 37.0&	42.130 N	19.315 E	18		NORTHWESTERN BALKAN REGION. <PDG>. MD 2.2 (PDG).	10
02 01 03 54.4*	30.492 S	178.886 W	400 G	4.2	KERMADEC ISLANDS, NEW ZEALAND	0.9 14
02 01 06 37.7	33.023 S	70.153 W	95 D	5.2	CHILE-ARGENTINA BORDER REGION. Mw 5.5 (HRV). MD 5.1 (GUC). Felt (V) at Llaillay, Los Andes, San Esteban, San Felipe and Santiago; (IV) at Casablanca, La Ligua, Papudo, Quillota, Rancagua, San Antonio, Valparaiso and Vina del Mar; (III) at Quintero; (II) at Curico, Iliapel and Talca, Chile. Centroid, Moment Tensor (HRV): Centroid origin time 01:06:43.3; Lat 33.08 S; Lon 70.10 W; Dep 107.9; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.40, Plg=34, Azm=99; (N) Val=-0.27, Plg=17, Azm=201; (P) Val=-2.13, Plg=51, Azm=313; Best double couple: Mo=2.3*10**17 Nm; NP1: Strike=141, Dip=19, Slip=-151; NP2: Strike=23, Dip=81, Slip=-73.	0.9 142
02 01 15 22.1&	33.134 S	70.359 W	98		CHILE-ARGENTINA BORDER REGION. <GUC>. MD 1.9 (GUC).	8
02 01 26 32.7&	33.106 S	70.363 W	103		CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.9 (GUC).	13
02 01 28 41.2*	45.187 N	15.554 E	10 G		NORTHWESTERN BALKAN REGION. ML 2.9 (TRI), 2.3 (LJU).	1.3 14
02 01 52 35.8*	7.242 S	154.231 E	200 G	4.3	SOLOMON ISLANDS	1.3 14
02 01 58 35.9&	33.116 S	70.354 W	99		CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).	13
02 02 17 03.7&	33.333 S	71.807 W	33		NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).	13
02 02 46 28.0&	37.370 N	117.090 W	2		CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.4 (REN). ML 3.3 (GS).	9
02 03 30 24.0*	12.607 N	144.673 E	33 N	4.6 4.1	SOUTH OF MARIANA ISLANDS	1.2 12
02 03 56 09.0&	37.390 N	117.060 W	0		CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.4 (REN). ML 3.4 (GS).	18
02 04 15 29.8	32.901 N	137.856 E	337	4.3	SOUTH OF HONSHU, JAPAN	0.8 67
02 05 16 04.0&	37.380 N	117.090 W	5		CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.9 (REN). ML 2.9 (GS).	9
02 05 40 27.0&	37.380 N	117.080 W	2	3.6	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 4.1 (REN). ML 4.1 (GS).	62
02 06 05 13.0&	37.380 N	117.070 W	3	5.1 4.4	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. Mw 5.1 (BFK). MD 4.6 (REN). Felt in the epicentral area. Moment Tensor (BRK): Dep 11; Principal axes (scale 10**16 Nm): (T) Val=4.90, Plg=23, Azm=308; (N) Val=0.00, Plg=46, Azm=63; (P) Val=-4.90, Plg=36, Azm=200; Best double couple: Mo=4.9*10**16 Nm; NP1: Strike=251, Dip=82, Slip=-44; NP2: Strike=349, Dip=47, Slip=-169.	226
02 06 19 01.0&	37.450 N	117.140 W	4		CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.4 (REN). ML 3.4 (GS).	13
02 06 40 58.3	85.688 N	84.127 E	10 G	4.9 4.3	NORTH OF SEVERNAYA ZEMLYA. Mw 4.9 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 06:40:57.6; Lat 85.69 N Fix; Lon 84.13 E Fix; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=2.87, Plg=0, Azm=265; (N) Val=-0.22, Plg=0, Azm=175; (P) Val=-2.65, Plg=90, Azm=180; Best double couple: Mo=2.8*10**16 Nm; NP1: Strike=355, Dip=45, Slip=-90; NP2: Strike=175, Dip=45, Slip=-90.	71
02 07 00 17.0*	34.807 N	140.915 E	33 N		NEAR EAST COAST OF HONSHU, JAPAN	0.8 6
02 08 14 23.3&	44.500 N	2.900 E	2		FRANCE. <LDG>. ML 2.6 (LDG).	11

02	09	13	39.0&	37.400 N	117.120 W	6				13	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.3 (REN). ML 3.2 (GS).
02	09	31	50.0&	37.300 N	3.820 W	0 G				7	SPAIN. <MDD>. mbLg 1.7 (MDD).
02	09	47	12.0	12.550 S	167.175 E	251 D	5.3	0.8	239	SANTA CRUZ ISLANDS. Mw 5.7 (GS), 5.7 (HRV). Moment Tensor (GS): Dep 243; Principal axes (scale 10**17 Nm): (T) Val=3.99, Plg=62, Azm=172; (N) Val=0.27, Plg=27, Azm=10; (P) Val=-4.26, Plg=7, Azm=276; Best double couple: Mo=4.1*10**17 Nm; NPl: Strike=339, Dip=44, Slip=50; NP2: Strike=208, Dip=57, Slip=122. Centroid, Moment Tensor (HRV): Centroid origin time 09:47:13.7; Lat 12.61 S; Lon 167.23 E; Dep 246.8; Half-duration 1.8 sec; Principal axes (scale 10**17 Nm): (T) Val=3.66, Plg=73, Azm=102; (N) Val=0.13, Plg=17, Azm=284; (P) Val=-3.80, Plg=0, Azm=194; Best double couple: Mo=3.7*10**17 Nm; NPl: Strike=268, Dip=47, Slip=67; NP2: Strike=120, Dip=48, Slip=113.	
02	10	47	08.0&	39.322 N	27.861 E	6				15	TURKEY. <ISK>. MD 3.9 (ATH), 3.5 (ISK).
02	10	49	53.1&	39.327 N	27.912 E	8				6	TURKEY. <ISK>. MD 3.0 (ISK).
02	10	51	27.8&	61.181 N	151.956 W	90				8	SOUTHERN ALASKA. <AEIC>.
02	11	33	54.7*	47.093 N	152.742 E	50 D	4.5	0.7	16	KURIL ISLANDS	
02	11	58	37.0*	23.917 S	70.019 E	10 G	4.6	1.5	17	MID-INDIAN RIDGE	
02	12	04	35.1*	12.878 N	144.255 E	33 N	4.6	1.2	23	SOUTH OF MARIANA ISLANDS	
02	12	27	12.0&	37.430 N	117.150 W	4			11	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.2 (REN). ML 3.1 (GS).	
02	13	09	34.7&	63.508 N	150.883 W	18			64	CENTRAL ALASKA. <AEIC>. ML 3.3 (AEIC), 3.8 (PMR).	
02	13	25	53.6&	37.390 N	20.600 E	5			4	IONIAN SEA. <ATH>. MD 2.9 (ATH).	
02	13	58	08.0&	37.400 N	117.090 W	5			9	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.9 (REN).	
02	14	36	04.3&	32.562 S	70.877 W	85			12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).	
02	14	50	10.6*	0.031 N	125.149 E	67 *	4.3	0.7	9	NORTHERN MOLUCCA SEA	
02	15	23	25.9&	36.950 N	21.930 E	38			5	SOUTHERN GREECE. <ATH>. MD 3.3 (ATH).	
02	15	30	32.7*	37.446 N	117.065 W	5 G		1.2	6	CALIFORNIA-NEVADA BORDER REGION. ML 2.9 (GS). Double event.	
02	15	31	47.5*	40.163 N	141.863 E	61 *	4.8	1.1	44	NEAR EAST COAST OF HONSHU, JAPAN	
02	15	52	32.0*	14.840 N	147.017 E	33 N	4.8	1.0	16	MARIANA ISLANDS REGION	
02	16	00	58.4	6.034 S	128.667 E	307	3.9	0.5	16	BANDA SEA	
02	16	11	59.5&	61.266 N	149.367 W	43			48	SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).	
02	16	58	37.2&	36.520 N	29.170 E	16			7	TURKEY. <ATH>. ML 4.3 (ATH).	
02	17	04	48.4&	63.310 N	151.381 W	13			40	CENTRAL ALASKA. <AEIC>. ML 2.9 (AEIC), 3.1 (PMR).	
02	18	59	29.6&	32.713 S	70.384 W	99			6	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 1.9 (GUC).	
02	19	25	07.1&	37.450 S	72.914 W	89			11	CENTRAL CHILE. <GUC>. MD 3.5 (GUC). Felt (II) at Angol and Renaico.	
02	20	09	40.8&	33.124 S	70.373 W	100			9	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).	
02	21	02	22.8&	36.760 N	27.520 E	5			4	DODECANESE ISLANDS. <ATH>. MD 3.7 (ATH).	
02	23	59	43.3&	33.813 S	70.679 W	83			13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.8 (GUC).	
03	00	12	45.8*	21.131 N	94.507 E	111 *		0.9	11	MYANMAR	
03	00	19	05.6&	32.718 S	70.072 W	121			11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.7 (GUC).	
03	00	44	00.0&	37.400 N	117.090 W	4			24	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.5 (REN). ML 3.2 (GS).	
03	02	03	06.9&	44.500 N	6.400 E	2			15	FRANCE. <LDG>. ML 2.1 (LDG).	
03	02	09	34.6&	44.500 N	6.400 E	2			15	FRANCE. <LDG>. ML 2.3 (LDG).	
03	02	20	28.9*	50.253 N	18.024 E	5 G		0.9	7	POLAND. ML 3.5 (VIE), 3.1 (CLL).	
03	02	51	02.4*	4.174 S	144.819 E	33 N		1.3	7	NEAR N COAST OF NEW GUINEA, PNG.	
03	03	53	31.0&	37.190 N	3.940 W	7			6	SPAIN. <MDD>. mbLg 1.2 (MDD).	
03	03	57	15.1	5.600 S	131.515 E	33 N	5.0	1.0	40	BANDA SEA	
03	04	07	53.0&	17.699 N	99.561 W	77			4	GUERRERO, MEXICO. <UNM>. MD 3.7 (UNM).	
03	05	25	13.2&	33.552 S	70.178 W	117			12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.7 (GUC).	
03	07	01	13.0	12.412 N	125.311 E	33 N	5.1 4.8	1.0	75	SAMAR, PHILIPPINE ISLANDS. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 07:01:16.6; Lat 12.16 N; Lon 125.18 E; Dep 25.8; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.32, Plg=49, Azm=340; (N) Val=0.05, Plg=19, Azm=227; (P) Val=-1.37, Plg=35, Azm=123; Best double couple: Mo=1.3*10**17 Nm; NPl: Strike=161, Dip=21, Slip=22; NP2: Strike=50, Dip=82, Slip=109.	
03	07	39	09.0&	43.800 N	7.600 E	2			5	NEAR SOUTH COAST OF FRANCE. <LDG>. ML 2.1 (LDG).	
03	07	46	06.6&	31.714 S	70.427 W	128			11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.8 (GUC).	
03	07	49	35.1&	44.300 N	7.600 E	2			5	NORTHERN ITALY. <LDG>. ML 2.3 (LDG).	
03	07	50	38.9&	31.745 S	72.121 W	25			14	OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).	
03	07	55	25.3&	39.339 N	27.794 E	4			6	TURKEY. <ISK>. MD 2.8 (ISK).	
03	08	07	09.9*	45.491 N	26.569 E	100 G		1.2	7	ROMANIA	
03	08	13	16.6	20.308 S	177.806 W	508 D	4.4	0.9	54	FIJI ISLANDS REGION	
03	09	43	23.8&	37.700 N	23.840 E	37			5	SOUTHERN GREECE. <ATH>. MD 3.0 (ATH).	
03	09	48	18.6&	39.298 N	27.925 E	10			12	TURKEY. <ISK>. MD 3.6 (ATH), 3.3 (ISK).	
03	09	53	38.4*	8.033 S	74.357 W	138 ?	4.0	0.9	25	PERU-BRAZIL BORDER REGION	
03	09	59	04.4&	35.630 N	4.780 W	1			20	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.9 (MDD).	
03	11	22	44.5&	33.154 S	71.805 W	15			10	NEAR COAST OF CENTRAL CHILE. <GUC>.	
03	11	43	43.2&	35.680 N	25.900 E	5			5	CRETE. <ATH>. MD 3.5 (ATH).	
03	12	02	30.2	36.196 N	69.074 E	33 N	5.1 4.2	0.9	142	HINDU KUSH REGION, AFGHANISTAN. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 12:02:35.6; Lat 36.37 N; Lon 69.23 E; Dep 24.3; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=7.46, Plg=38, Azm=43; (N) Val=-1.84, Plg=45, Azm=260; (P) Val=-5.62, Plg=19, Azm=149; Best double couple: Mo=6.5*10**16 Nm; NPl: Strike=193, Dip=48, Slip=16; NP2: Strike=92, Dip=78, Slip=136.	
03	12	20	55.8*	9.525 N	69.979 W	33 N	4.3	1.2	34	VENEZUELA	
03	13	03	38.8*	6.661 S	154.381 E	33 N		1.1	10	SOLOMON ISLANDS	
03	13	18	40.6&	33.646 S	70.848 W	80			13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.7 (GUC).	
03	13	29	44.7?	30.60 S	176.99 W	33 N		1.3	9	KERMADEC ISLANDS REGION	
03	13	55	41.4	72.261 N	0.396 E	10 G	5.0 5.1	1.0	206	NORWEGIAN SEA. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 13:55:43.2; Lat 72.18 N; Lon 1.17 E; Dep 15.0 Fix; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.19, Plg=4, Azm=315; (N) Val=0.04, Plg=5, Azm=45; (P)	

Val=-1.23, Plg=84, Azm=183; Best double couple:
Mo=1.2*10**17 Nm; NP1: Strike=39, Dip=41, Slip=-97; NP2:
Strike=229, Dip=49, Slip=-84.

03 14 17 09.9 6.686 N 72.966 W 180 4.0 1.0 29 NORTHERN COLOMBIA
03 14 30 59.8* 12.575 N 87.349 W 33 N 4.3 1.0 12 NEAR COAST OF NICARAGUA
03 15 41 59.1 12.225 N 125.104 E 77 * 4.6 0.9 27 SAMAR, PHILIPPINE ISLANDS
03 15 58 57.6 3.453 S 79.162 W 88 D 5.7 5.0 0.9 389 NEAR COAST OF ECUADOR. Mw 5.9 (GS), 5.9 (HRV). Felt at
Guayaquil. Also felt (IV) at Piura and Sullana, Peru.
Moment Tensor (GS): Dep 93; Principal axes (scale 10**17
Nm): (T) Val=6.81, Plg=4, Azm=110; (N) Val=0.10, Plg=6,
Azm=200; (P) Val=-6.91, Plg=83, Azm=347; Best double
couple: Mo=6.9*10**17 Nm; NP1: Strike=193, Dip=41,
Slip=-99; NP2: Strike=25, Dip=49, Slip=-82.
Centroid, Moment Tensor (HRV): Centroid origin time
15:59:02.2; Lat 3.49 S; Lon 79.15 W; Dep 84.0; Half-
duration 2.0 sec; Principal axes (scale 10**17 Nm): (T)
Val=7.35, Plg=1, Azm=105; (N) Val=-1.00, Plg=3, Azm=15; (P)
Val=-6.35, Plg=87, Azm=213; Best double couple:
Mo=6.8*10**17 Nm; NP1: Strike=198, Dip=44, Slip=-86; NP2:
Strike=13, Dip=46, Slip=-94.

03 16 24 44.8& 32.817 S 70.822 W 80 4.3 48 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 4.8 (GUC). Felt (V)
at Nogales and San Antonio; (IV) at Casablanca,
Chimbarongo, Nancagua, Papudo, Rancagua, San Fernando,
Santa Cruz, Santiago and Valparaíso; (III) at Curico,
Illapel and Salamanca; (II) at Canela, Guardia Vieja,
Libertadores, Navidad, Quintero and Talca, Chile.

03 19 07 26.4* 28.999 N 51.836 E 33 N 4.2 0.7 18 SOUTHERN IRAN
03 19 55 32.3 37.359 N 86.763 E 33 N 4.7 1.0 31 SOUTHERN XINJIANG, CHINA
03 20 02 38.2 6.478 N 126.869 E 101 5.4 0.9 80 MINDANAO, PHILIPPINE ISLANDS. Mw 5.3 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time
20:02:41.7; Lat 6.68 N; Lon 126.30 E; Dep 66.1; Half-
duration 1.1 sec; Principal axes (scale 10**16 Nm): (T)
Val=8.52, Plg=30, Azm=292; (N) Val=0.82, Plg=49, Azm=64;
(P) Val=-9.33, Plg=25, Azm=187; Best double couple:
Mo=8.9*10**16 Nm; NP1: Strike=328, Dip=49, Slip=176; NP2:
Strike=61, Dip=87, Slip=41.

03 20 09 39.6* 62.177 S 155.092 W 10 G 4.9 5.1 0.9 11 PACIFIC-ANTARCTIC RIDGE. Mw 5.4 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time
20:09:45.1; Lat 62.17 S; Lon 155.38 W; Dep 15.0 Fix; Half-
duration 1.2 sec; Principal axes (scale 10**17 Nm): (T)
Val=1.48, Plg=21, Azm=169; (N) Val=-0.28, Plg=69, Azm=5;
(P) Val=-1.20, Plg=5, Azm=261; Best double couple:
Mo=1.3*10**17 Nm; NP1: Strike=307, Dip=72, Slip=11; NP2:
Strike=213, Dip=79, Slip=161.

03 20 52 51.6& 36.020 N 21.590 E 31 11 SOUTHERN GREECE. <ATH>. MD 3.7 (ATH).
03 21 23 01.9* 6.041 N 127.000 E 76 * 4.7 1.2 19 PHILIPPINE ISLANDS REGION
03 21 37 34.4* 12.437 N 125.707 E 33 N 1.2 7 SAMAR, PHILIPPINE ISLANDS
03 21 56 03.0& 38.040 N 26.770 E 5 9 AEGEAN SEA. <ATH>. MD 3.8 (ATH).
03 21 56 21.3 45.995 N 15.183 E 10 G 0.2 6 NORTHWESTERN BALKAN REGION. ML 1.7 (VIE), 1.4 (LJU).
03 22 10 38.0* 23.971 N 125.881 E 33 N 4.1 3.7 1.4 15 SOUTHWESTERN RYUKYU ISLANDS
03 22 14 38.0& 35.850 N 23.620 E 5 7 CRETE. <ATH>. MD 3.5 (ATH).
03 23 06 31.7& 32.845 S 70.788 W 73 16 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 4.3 (GUC). Felt
(III) at Santiago, Valparaíso and Vina del Mar; (II) at
Quillota, Chile.

03 23 23 23.7? 9.77 N 69.93 W 33 N 3.9 1.5 12 VENEZUELA
04 00 09 00.5 37.386 N 86.879 E 33 N 5.0 4.6 1.5 93 SOUTHERN XINJIANG, CHINA. Mw 5.1 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time
00:08:57.7; Lat 37.39 N Fix; Lon 86.88 E Fix; Dep 33.0 Fix;
Half-duration 1.0 sec; Principal axes (scale 10**16 Nm):
(T) Val=4.47, Plg=54, Azm=319; (N) Val=1.52, Plg=30,
Azm=101; (P) Val=-5.99, Plg=18, Azm=202; Best double
couple: Mo=5.2*10**16 Nm; NP1: Strike=330, Dip=38,
Slip=145; NP2: Strike=89, Dip=69, Slip=57.

04 01 56 35.2& 41.200 N 21.100 E 10 12 NORTHWESTERN BALKAN REGION. <SKO>. MD 2.7 (PDG).
04 02 17 23.1& 38.300 N 22.240 E 5 9 GREECE. <ATH>. ML 3.1 (ATH).
04 02 27 22.1& 36.900 S 176.290 E 411 17 OFF E. COAST OF N. ISLAND, N.Z. <WEL>.
04 03 01 58.9& 39.860 N 24.470 E 5 10 AEGEAN SEA. <ATH>. MD 3.4 (ATH).
04 03 14 46.0& 38.580 N 112.180 W 0 12 UTAH. <SLC-P>. ML 3.2 (SLC).
04 03 55 52.0& 38.570 N 112.170 W 2 11 UTAH. <SLC-P>. ML 2.9 (SLC).
04 04 03 14.3& 40.510 S 175.120 E 5 6 NORTH ISLAND, NEW ZEALAND. <WEL>. ML 2.8 (WEL).
04 04 10 52.6 44.297 N 148.910 E 44 D 4.8 3.9 0.9 58 KURIL ISLANDS
04 04 20 21.5& 32.697 S 70.731 W 77 9 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.1 (GUC).
04 05 02 34.5& 39.900 S 175.070 E 71 10 NORTH ISLAND, NEW ZEALAND. <WEL>.
04 05 40 22.9* 52.151 S 14.400 E 10 G 4.9 4.5 0.9 16 SOUTHWEST OF AFRICA. Mw 5.1 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time
05:40:30.6; Lat 52.15 S Fix; Lon 14.40 E Fix; Dep 15.0 Fix;
Half-duration 1.0 sec; Principal axes (scale 10**16 Nm):
(T) Val=4.22, Plg=20, Azm=20; (N) Val=0.18, Plg=13,
Azm=286; (P) Val=-4.40, Plg=66, Azm=165; Best double
couple: Mo=4.3*10**16 Nm; NP1: Strike=132, Dip=28,
Slip=-61; NP2: Strike=280, Dip=66, Slip=-104.

04 06 42 13.7 6.164 S 26.542 E 10 G 4.7 3.7 1.0 70 ZAIRE
04 07 32 42.2? 5.92 N 125.64 E 108 ? 1.2 12 MINDANAO, PHILIPPINE ISLANDS
04 07 45 47.2* 24.406 S 179.522 E 585 ? 4.6 0.8 18 SOUTH OF FIJI ISLANDS
04 07 50 02.5& 32.850 S 70.807 W 75 13 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.1 (GUC).
04 07 54 49.8& 32.149 S 71.710 W 20 15 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.3 (GUC). Felt (II)
at La Ligua.

04 08 01 32.2& 35.730 N 22.440 E 106 30 CENTRAL MEDITERRANEAN SEA. <ATH>.
04 08 05 25.6* 5.432 S 146.786 E 33 N 1.0 9 EASTERN NEW GUINEA REG., P.N.G. ML 4.0 (PMG).
04 09 00 57.1& 63.492 N 151.314 W 23 29 CENTRAL ALASKA. <AEIC>. ML 2.7 (AEIC), 2.9 (PMR).
04 09 02 54.8 35.575 N 5.169 W 10 G 4.2 1.1 96 STRAIT OF GIBRALTAR. mbLg 4.0 (MDD). Felt (IV) at Cuta;
(III) Algeciras and La Linea, Spain.

04 09 18 19.6 37.431 N 117.084 W 5 G 0.3 13 CALIFORNIA-NEVADA BORDER REGION. ML 3.1 (GS).

04	11	49	12.8*	52.482 S	14.178 E	10 G	4.7	0.9	14	SOUTHWEST OF AFRICA
04	11	59	51.2	5.384 S	146.222 E	62	4.8	0.8	21	EASTERN NEW GUINEA REG., P.N.G.
04	13	04	06.5?	28.36 N	51.88 E	33 N	4.1	1.1	8	SOUTHERN IRAN
04	14	28	24.3	37.430 N	117.067 W	5 G		0.6	14	CALIFORNIA-NEVADA BORDER REGION. ML 3.1 (GS).
04	15	35	05.7&	37.450 N	4.170 W	1			8	SPAIN. <MDD>. mbLg 2.0 (MDD).
04	15	37	24.3&	37.450 N	4.150 W	0			14	SPAIN. <MDD>. mbLg 2.5 (MDD).
04	16	49	50.7	31.656 S	68.079 W	115 D	5.4	1.0	144	SAN JUAN PROVINCE, ARGENTINA. Mw 5.4 (GS), 5.4 (HRV). MD 5.3 (GUC). Felt (II) at Los Andes, Olmue, San Esteban and San Felipe, Chile.
Moment Tensor (GS): Dep 112; Principal axes (scale 10**17 Nm): (T) Val=1.36, Plg=2, Azm=247; (N) Val=-0.08, Plg=36, Azm=156; (P) Val=-1.28, Plg=54, Azm=339; Best double couple: Mo=1.3*10**17 Nm; NP1: Strike=8, Dip=54, Slip=-43; NP2: Strike=127, Dip=56, Slip=-135.										
Centroid, Moment Tensor (HRV): Centroid origin time 16:49:54.7; Lat 31.87 S; Lon 67.98 W; Dep 125.5; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.17, Plg=10, Azm=98; (N) Val=0.26, Plg=32, Azm=194; (P) Val=-1.42, Plg=56, Azm=353; Best double couple: Mo=1.3*10**17 Nm; NP1: Strike=155, Dip=45, Slip=-139; NP2: Strike=33, Dip=62, Slip=-53.										
04	17	06	32.9&	62.861 N	150.938 W	111			5	CENTRAL ALASKA. <AEIC>.
04	18	33	12.0&	38.590 N	112.180 W	0			21	UTAH. <SLC-P>. ML 3.3 (SLC), 3.3 (GS). Felt at Richfield.
04	18	57	26.8*	10.674 S	66.608 E	10 G	4.6	0.7	18	MID-INDIAN RIDGE
04	19	10	06.4	37.354 N	117.043 W	5 G		0.9	10	CALIFORNIA-NEVADA BORDER REGION. ML 3.0 (GS).
04	19	24	30.1&	32.597 S	71.527 W	24			11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
04	19	43	27.5&	44.712 N	10.198 E	0			30	NORTHERN ITALY. <GEN>. ML 3.2 (GEN), 2.7 (LDG), 2.5 (VIE).
04	20	15	12.8?	36.15 N	71.52 E	149 ?	4.3	1.5	11	AFGHANISTAN-TAJIKISTAN BORD REG.
04	20	15	51.1?	44.71 N	124.88 W	10 G		0.3	18	NEAR COAST OF OREGON
04	20	24	50.1&	42.700 N	0.550 E	2 G			12	PYRENEES. <STR>. ML 2.4 (STR), 2.3 (LDG).
04	21	03	52.8	22.784 N	121.388 E	33 N	4.7	1.1	35	TAIWAN REGION. Felt (III JMA) at Tai-tung.
04	21	12	15.0&	47.800 N	7.610 E	16			23	SWITZERLAND. <FBB>. ML 2.4 (STR), 2.2 (FBB), 2.2 (LDG).
04	21	21	11.0*	37.534 N	72.661 E	59 ?	4.4	1.0	27	TAJIKISTAN
04	22	19	55.5	47.207 N	11.432 E	10 G		1.3	7	AUSTRIA. ML 1.8 (VIE).
04	22	34	33.9*	51.256 N	15.826 E	10 G		1.1	9	POLAND. ML 3.3 (GRF), 3.2 (VIE).
04	23	25	44.4&	63.060 N	150.923 W	130			25	CENTRAL ALASKA. <AEIC>.
04	23	35	41.3*	12.278 S	166.557 E	97 *	4.7	1.3	16	SANTA CRUZ ISLANDS
05	00	17	27.1*	18.859 S	177.943 W	579 ?	5.0	0.6	18	FIJI ISLANDS REGION
05	00	22	07.4&	32.275 S	71.830 W	24			15	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.3 (GUC). Felt (II) at La Ligua and Papudo.
05	01	00	44.9&	36.990 N	4.090 W	0			7	STRAIT OF GIBRALTAR. <MDD>. mbLg 1.5 (MDD).
05	02	27	34.2&	62.084 N	151.294 W	70			25	CENTRAL ALASKA. <AEIC>. ML 2.9 (AEIC).
05	02	41	35.2*	19.273 S	168.032 E	33 N		0.8	7	VANUATU ISLANDS
05	03	11	19.4?	63.68 N	153.97 W	10 G		1.4	5	CENTRAL ALASKA. ML 3.0 (PMR).
05	03	12	07.2&	44.710 N	6.743 E	10 G		0.7	6	FRANCE
05	04	02	27.6	40.510 S	173.853 E	113	4.6	1.0	33	COOK STRAIT, NEW ZEALAND. Felt from Wanganui to Wellington on the North Island.
05	04	34	12.7	18.273 S	175.544 W	251 D	4.9	1.1	62	TONGA ISLANDS
05	04	35	49.3	12.234 N	86.614 W	10 G	4.9 4.5	1.4	103	NICARAGUA. Mw 5.2 (HRV). MD 5.0 (CASC). Felt at Chinandega, Leon and in other parts of western Nicaragua.
Centroid, Moment Tensor (HRV): Centroid origin time 04:35:54.5; Lat 12.48 N; Lon 87.08 W; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=7.61, Plg=30, Azm=76; (N) Val=-1.02, Plg=39, Azm=194; (P) Val=-6.59, Plg=36, Azm=321; Best double couple: Mo=7.1*10**16 Nm; NP1: Strike=111, Dip=39, Slip=-174; NP2: Strike=17, Dip=87, Slip=-51.										
05	04	48	30.1*	12.458 N	87.126 W	10 G	4.1	0.7	14	NEAR COAST OF NICARAGUA
05	04	48	51.1	37.404 N	117.075 W	5 G		0.6	15	CALIFORNIA-NEVADA BORDER REGION. ML 3.3 (GS).
05	04	50	55.1	12.563 N	86.717 W	10 G	4.5	1.1	49	NICARAGUA. MD 4.3 (CASC).
05	04	53	54.0	12.395 N	86.980 W	10 G	4.4	0.8	37	NICARAGUA. MD 4.5 (CASC).
05	05	02	06.7?	12.69 N	86.69 W	10 G	4.2	1.4	15	NICARAGUA
05	05	02	14.1	44.559 S	167.743 E	33 N	4.9 4.9	1.2	29	SOUTH ISLAND, NEW ZEALAND. ML 5.1 (WEL).
05	05	10	00.6	37.410 N	117.078 W	5 G		0.4	10	CALIFORNIA-NEVADA BORDER REGION. ML 3.0 (GS).
05	05	31	48.2	12.612 N	86.544 W	10 G	5.0 4.6	1.0	172	NICARAGUA. Mw 5.2 (HRV). MD 5.0 (CASC). Felt at Chinandega, Leon and in other parts of western Nicaragua.
Centroid, Moment Tensor (HRV): Centroid origin time 05:31:51.6; Lat 12.61 N Fix; Lon 86.54 W Fix; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.44, Plg=14, Azm=96; (N) Val=0.49, Plg=55, Azm=206; (P) Val=-6.92, Plg=32, Azm=358; Best double couple: Mo=6.7*10**16 Nm; NP1: Strike=141, Dip=58, Slip=-166; NP2: Strike=44, Dip=78, Slip=-33.										
05	05	39	45.8	12.530 N	86.872 W	10 G	4.5	1.0	39	NICARAGUA. MD 4.3 (CASC).
05	05	39	46.2*	55.951 S	27.337 W	33 N	4.7	1.3	11	SOUTH SANDWICH ISLANDS REGION
05	05	56	12.7	12.629 N	86.692 W	10 G	4.5	1.3	37	NICARAGUA. MD 4.5 (CASC).
05	05	58	48.2?	42.41 N	126.69 W	10 G		0.6	19	OFF COAST OF OREGON
05	06	29	29.8	12.575 N	86.600 W	10 G	4.5	1.4	38	NICARAGUA. MD 4.7 (CASC).
05	06	52	48.5?	31.06 S	68.65 W	124 ?		1.1	12	SAN JUAN PROVINCE, ARGENTINA. MD 3.5 (GUC).
05	06	57	15.3*	55.194 N	161.809 E	85 ?	4.3	1.3	12	NEAR EAST COAST OF KAMCHATKA
05	07	03	31.3	12.597 N	86.681 W	10 G	4.4	1.2	29	NICARAGUA. MD 4.6 (CASC).
05	07	11	15.7	12.343 N	86.724 W	10 G	4.9 4.6	1.2	129	NICARAGUA. Mw 5.1 (HRV). MD 5.1 (CASC). Felt at Chinandega, Leon and in other parts of western Nicaragua.
Centroid, Moment Tensor (HRV): Centroid origin time 07:11:20.2; Lat 12.26 N; Lon 86.69 W; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.29, Plg=16, Azm=77; (N) Val=-1.16, Plg=45, Azm=184; (P) Val=-5.13, Plg=41, Azm=333; Best double couple: Mo=5.7*10**16 Nm; NP1: Strike=123, Dip=49, Slip=-160; NP2: Strike=20, Dip=75, Slip=-43.										
05	07	46	39.2&	40.149 N	29.111 E	1			5	TURKEY. <ISK>. MD 2.6 (ISK).
05	08	01	51.4	12.605 N	86.728 W	10 G	4.4	1.1	47	NICARAGUA. ML 4.4 (CASC).
05	08	58	52.1*	12.399 N	86.841 W	10 G	4.0	0.7	8	NICARAGUA. MD 4.1 (CASC).

05	09	06	43.8&	63.264 N	151.418 W	4									42	CENTRAL ALASKA. <AEIC>. ML 4.0 (AEIC), 4.0 (PMR).
05	09	20	28.8	12.525 N	86.649 W	10	G	4.7	4.5	1.1					72	NICARAGUA. MD 5.0 (CASC). Felt at Chinandega, Leon and in other parts of western Nicaragua.
05	09	25	13.3&	38.250 N	20.480 E	10									6	GREECE. <ATH>. MD 3.0 (ATH).
05	09	38	32.6	24.384 S	179.605 E	580	?	4.7		1.2					15	SOUTH OF FIJI ISLANDS
05	09	47	25.1*	12.527 N	86.676 W	10	G	4.2		1.3					20	NICARAGUA. MD 4.4 (CASC).
05	10	37	43.0*	8.202 N	38.477 W	33	N	4.4		0.7					9	CENTRAL MID-ATLANTIC RIDGE
05	10	50	20.4&	35.390 N	27.790 E	5									5	DODECANESE ISLANDS. <ATH>. MD 3.8 (ATH).
05	10	51	04.4*	0.196 S	122.963 E	84	?			1.2					12	MINAHASSA PENINSULA, SULAWESI
05	10	52	44.7&	33.974 S	72.225 W	15									8	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
05	11	01	08.6&	37.508 N	118.836 W	13									15	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.9 (G*).
05	12	07	11.5*	24.708 N	119.466 E	10	G	4.1		1.5					9	TAIWAN REGION
05	12	10	29.1	42.003 N	21.744 E	10	G			1.1					16	NORTHWESTERN BALKAN REGION. MD 3.3 (ATH), 3.1 (PDG). Felt (IV) in the Skopje area.
05	13	26	56.8	19.426 N	108.677 W	10	G	4.4		1.1					45	REVILLA GIGEDO ISLANDS REGION
05	14	49	57.6&	33.620 S	70.242 W	111									14	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC). Felt (II) at Puente Alto, Chile.
05	14	57	22.6*	36.637 N	15.266 E	10	G	4.1		0.7					16	SICILY
05	15	02	36.0&	48.310 N	9.040 E	11									6	GERMANY. <FBB>. ML 2.2 (STR), 1.9 (FBB).
05	15	12	12.3*	18.882 N	67.177 W	72	*	4.3		1.3					21	MONA PASSAGE. MD 4.2 (MPR).
05	15	12	48.3&	61.390 N	150.940 W	61									47	SOUTHERN ALASKA. <AEIC>. ML 3.6 (AEIC), 3.6 (PMR).
05	15	37	01.3*	27.842 S	71.543 W	49	*	4.5		1.2					32	NEAR COAST OF NORTHERN CHILE
05	15	50	03.7*	45.483 N	13.209 E	10	G			0.6					8	NORTHERN ITALY. ML 2.7 (VIE).
05	16	14	32.9*	2.972 S	129.483 E	33	N			1.0					9	SERAM, INDONESIA
05	16	26	07.1*	35.575 N	140.253 E	87	?	4.3		1.1					16	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) in the epicentral area.
05	17	00	53.0	6.082 S	151.606 E	43	*	5.1		1.0					36	NEW BRITAIN REGION, P.N.G. Mw 5.0 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 17:01:07.2; Lat 5.85 S; Lon 151.02 E; Dep 42.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.11, Plg=15, Azm=137; (N) Val=-1.53, Plg=69, Azm=269; (P) Val=-2.58, Plg=15, Azm=43; Best double couple: Mo=3.3*10**16 Nm; NP1: Strike=180, Dip=69, Slip=-180; NP2: Strike=90, Dip=90, Slip=-21.
05	17	59	28.7&	38.350 N	22.270 E	5									10	GREECE. <ATH>. MD 3.2 (ATH).
05	19	05	37.8&	34.033 S	72.203 W	14									13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.1 (GUC).
05	19	32	25.9*	45.624 N	14.263 E	10	G			0.5					6	NORTHWESTERN BALKAN REGION. ML 2.6 (VIE).
05	19	57	17.6&	36.980 N	4.290 W	26									8	STRAIT OF GIBALTAR. <MDD>. mbLg 1.8 (MDD).
05	20	22	58.9?	12.30 N	86.42 W	10	G	4.3		1.1					14	NICARAGUA. MD 4.4 (CASC).
05	20	51	47.0&	34.181 S	70.644 W	101									12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.7 (GUC).
05	21	06	21.8?	21.13 S	178.70 W	605	?									

07	21	09	15.4&	39.090 N		0.820 W	7						8 SPAIN. <MDD>. mbLg 2.1 (MDD).
07	21	55	14.6&	34.074 S		70.971 W	71						7 CHILE-ARGENTINA BORDER REGION. <GUC>.
07	22	24	58.7&	37.380 N		2.140 W	0 G						5 SPAIN. <MDD>. mbLg 1.9 (MDD).
07	22	40	49.3&	33.141 S		70.456 W	104						13 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.8 (GUC).
07	23	50	12.2	7.224 S		128.374 E	158 *	4.4	1.1	21			BANDA SEA
08	00	02	52.0	32.633 S		68.741 W	33 N		1.0	16			MENDOZA PROVINCE, ARGENTINA. MD 4.1 (GUC).
08	02	43	49.1	5.894 N		127.047 E	61	5.3	1.1	111			PHILIPPINE ISLANDS REGION. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 02:43:51.1; Lat 5.63 N; Lon 127.26 E; Dep 58.5; Half- duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.02, Plg=74, Azm=337; (N) Val=0.04, Plg=14, Azm=184; (P) Val=-1.05, Plg=7, Azm=92; Best double couple: Mo=1.0*10**17 Nm; NP1: Strike=166, Dip=40, Slip=68; NP2: Strike=14, Dip=53, Slip=108.
08	02	58	19.7*	31.733 S		69.075 W	100 G		1.0	14			SAN JUAN PROVINCE, ARGENTINA. MD 3.5 (GUC).
08	03	51	35.5	3.171 S		130.095 E	10 G	4.7	1.1	24			SERAM, INDONESIA
08	04	08	22.3&	61.475 N		149.918 W	39			6			SOUTHERN ALASKA. <AEIC>. ML 2.9 (AEIC).
08	04	10	10.9*	12.237 N		86.885 W	33 N	4.1	0.9	13			NICARAGUA
08	04	10	26.0*	7.456 S		128.208 E	147 ?	3.9	1.1	8			BANDA SEA
08	04	45	13.0	41.069 N		127.257 W	10 G	4.8	0.9	95			OFF COAST OF NORTHERN CALIFORNIA. ML 4.1 (BRK).
08	05	07	33.4	40.785 N		127.419 W	10 G	3.9	1.1	31			OFF COAST OF NORTHERN CALIFORNIA
08	05	10	16.0&	44.740 N		110.980 W	7			35			YELLOWSTONE REGION, WYOMING. <SLC-P>. ML 3.5 (BUT), 3.3 (GS).
08	06	28	53.9	51.599 N		16.139 E	5 G		0.8	15			POLAND. ML 3.3 (GRF), 3.2 (VIE).
08	06	33	19.4	41.771 N		2.847 E	10 G		1.2	36			SPAIN. ML 3.6 (STR), 3.3 (LDG). mbLg 2.8 (MDD).
08	07	42	43.6&	39.164 N		28.734 E	10			9			TURKEY. <ISK>. MD 3.2 (ISK).
08	08	35	07.5&	37.870 N		0.990 W	3			11			SPAIN. <MDD>. mbLg 2.0 (MDD).
08	09	54	00.1?	43.65 N		128.44 W	10 G		0.5	30			OFF COAST OF OREGON
08	10	09	30.3&	33.970 S		71.237 W	64			10			NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.6 (GUC).
08	10	23	57.1	32.478 S		67.723 W	10 G		1.1	13			MENDOZA PROVINCE, ARGENTINA. MD 4.0 (GUC).
08	11	08	38.5*	45.839 N		150.550 E	33 N	4.2	0.7	9			KURIL ISLANDS
08	11	49	56.8&	62.838 N		151.362 W	106			5			CENTRAL ALASKA. <AEIC>.
08	12	19	39.9&	31.108 S		71.890 W	23			14			NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
08	12	21	03.2	5.992 S		146.663 E	61 *	4.1	0.9	12			EASTERN NEW GUINEA REG., P.N.G.
08	12	43	23.9&	44.662 N		7.163 E	11			25			NORTHERN ITALY. <GEN>. ML 2.3 (GEN), 2.3 (LDG), 2.1 (STR).
08	13	45	44.1	85.838 N		82.147 E	10 G	4.9 4.7	1.1	185			NORTH OF SEVERNAYA ZEMLYA. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 13:45:45.3; Lat 85.84 N Fix; Lon 82.15 E Fix; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.07, Plg=11, Azm=173; (N) Val=2.63, Plg=35, Azm=75; (P) Val=-7.70, Plg=52, Azm=278; Best double couple: Mo=6.4*10**16 Nm; NP1: Strike=299, Dip=46, Slip=-36; NP2: Strike=56, Dip=65, Slip=-130.
08	14	35	12.0&	37.390 N		117.070 W	2			18			CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.1 (REN). ML 3.1 (GS).
08	14	36	54.5*	86.703 N		62.850 E	10 G	3.8	1.0	7			NORTH OF FRANZ JOSEF LAND
08	15	15	34.2	56.435 S		143.024 W	10 G	5.4 5.1	1				

09 13 08 12.3& 62.607 N	151.291 W	93				47	CENTRAL ALASKA. <AEIC>.
09 13 14 08.5& 47.000 N	7.200 E	2				10	SWITZERLAND. <LDG>. ML 2.3 (LDG), 2.0 (STR).
09 13 32 56.0& 36.590 N	117.720 W	4				18	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.9 (REN). ML 3.1 (GS).
09 13 50 43.6& 33.130 S	70.397 W	99				8	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.1 (GUC).
09 14 00 07.6* 8.810 S	158.193 E	33 N	4.1	1.3		8	SOLOMON ISLANDS
09 16 06 20.0& 59.730 N	152.426 W	77				103	SOUTHERN ALASKA. <AEIC>.
09 16 11 45.7 43.265 N	20.853 E	10 G		0.8		27	NORTHWESTERN BALKAN REGION. MD 3.1 (PDG).
09 16 17 27.0& 41.175 N	28.934 E	14				5	TURKEY. <ISK>. MD 2.5 (ISK).
09 17 29 18.6* 17.699 S	71.653 W	100 G	4.2	1.2		11	NEAR COAST OF PERU
09 19 24 14.6* 34.811 N	26.785 E	33 N	3.4	1.1		17	CRETE
09 20 08 02.5& 32.231 S	69.936 W	127				9	MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 2.7 (GUC).
09 20 13 58.6& 54.794 N	161.819 W	15				15	ALASKA PENINSULA. <AEIC>. ML 3.0 (AEIC).
09 20 49 53.8& 62.919 N	149.716 W	80				71	CENTRAL ALASKA. <AEIC>.
09 22 37 02.2& 46.700 N	7.300 E	2				10	SWITZERLAND. <LDG>. ML 2.0 (LDG).
09 22 49 19.5& 35.440 S	70.484 W	179				11	CHILE-ARGENTINA BORDER REGION. <GUC>.
09 22 58 45.3 51.229 N	178.062 E	33 N	5.4 5.0	1.0		334	RAT ISLANDS, ALEUTIAN ISLANDS. Mw 5.5 (HRV). ML 5.3 (PMR). Felt (II) on Adak. Centroid, Moment Tensor (HRV): Centroid origin time 22:58:47.4; Lat 51.31 N; Lon 177.51 E; Dep 35.0 Bdy; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=2.10, Plg=53, Azm=308; (N) Val=0.16, Plg=17, Azm=63; (P) Val=-2.26, Plg=32, Azm=164; Best double couple: Mo=2.2*10**17 Nm; NP1: Strike=298, Dip=21, Slip=147; NP2: Strike=59, Dip=79, Slip=72.
09 23 00 02.1 6.235 S	104.124 E	61 *	5.0	1.1		36	SUNDA STRAIT
09 23 24 29.9 44.924 N	27.045 E	10 G		0.7		10	ROMANIA
09 23 40 50.7 85.709 N	83.579 E	10 G	4.5	0.9		54	NORTH OF SEVERNAYA ZEMLYA
09 23 41 43.2* 17.719 N	122.750 E	33 N		1.0		5	LUZON, PHILIPPINE ISLANDS
09 23 44 22.7* 51.351 N	178.211 E	58 *	4.0	0.6		10	RAT ISLANDS, ALEUTIAN ISLANDS
10 00 09 30.8& 38.380 N	5.770 W	3				10	SPAIN. <MDD>. mbLg 2.5 (MDD).
10 00 37 20.8 10.992 N	86.794 W	33 N	4.8 3.8	1.1		85	OFF COAST OF COSTA RICA
10 00 52 58.7* 35.939 N	70.624 E	128 ?	4.2	1.3		13	HINDU KUSH REGION, AFGHANISTAN
10 02 57 26.8& 62.012 N	149.776 W	42				25	CENTRAL ALASKA. <AEIC>. ML 3.9 (AEIC), 4.1 (PMR). Felt at Talkeetna and Willow.
10 04 14 59.5* 17.740 S	71.714 W	85 ?	4.0	1.4		14	NEAR COAST OF PERU
10 05 34 38.8* 21.795 S	179.920 W	651 ?	4.3	0.7		33	FIJI ISLANDS REGION
10 05 56 52.2& 62.009 N	149.797 W	35				15	CENTRAL ALASKA. <AEIC>. ML 3.1 (AEIC), 3.0 (PMR).
10 06 01 19.9 5.512 N	33.032 W	10 G	4.0 3.4	0.6		17	CENTRAL MID-ATLANTIC RIDGE
10 06 08 12.5& 34.750 S	72.701 W	23				5	NEAR COAST OF CENTRAL CHILE. <GUC>.
10 06 20 18.1& 61.989 N	149.853 W	40				10	SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC).
10 06 33 00.0& 33.527 N	117.660 W	11				28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS). Felt (V) at Capistrano Beach; (IV) at Dana Point, Laguna Niguel, Mission Viejo and San Clemente. Felt throughout Orange County.
10 07 57 07.2& 63.374 N	151.323 W	10				14	CENTRAL ALASKA. <AEIC>. ML 3.4 (AEIC), 3.4 (PMR).
10 08 56 59.3 21.964 S	67.201 W	194 D	4.4	1.2		38	CHILE-BOLIVIA BORDER REGION
10 10 47 44.9 7.249 N	126.491 E	127 D	5.2	1.0		74	MINDANAO, PHILIPPINE ISLANDS. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 10:47:47.4; Lat 7.15 N; Lon 126.52 E; Dep 125.6; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.54, Plg=6, Azm=111; (N) Val=-0.56, Plg=27, Azm=18; (P) Val=-5.98, Plg=62, Azm=213; Best double couple: Mo=6.3*10**16 Nm; NP1: Strike=228, Dip=45, Slip=-50; NP2: Strike=358, Dip=57, Slip=-123.
10 11 21 21.9& 34.311 S	70.697 W	106				11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).
10 11 56 20.0& 31.140 S	71.785 W	26				11	NEAR COAST OF CENTRAL CHILE. <GUC>.
10 12 21 19.7 22.147 S	170.052 E	33 N	4.9 5.2	1.2		43	LOYALTY ISLANDS REGION. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 12:21:21.6; Lat 22.13 S; Lon 169.94 E; Dep 15.0 Fix; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.94, Plg=2, Azm=313; (N) Val=-0.03, Plg=69, Azm=49; (P) Val=-1.91, Plg=20, Azm=222; Best double couple: Mo=1.9*10**17 Nm; NP1: Strike=359, Dip=74, Slip=-167; NP2: Strike=266, Dip=77, Slip=-16.
10 12 37 23.0& 33.117 S	70.389 W	101				13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.7 (GUC).
10 12 39 58.8? 1.99 N	126.69 E	33 N	4.4	1.1		7	NORTHERN MOLUCCA SEA
10 13 11 51.4* 30.440 S	179.439 W	308 ?	4.2	1.2		26	KERMADEC ISLANDS REGION
10 13 32 47.7& 11.240 N	61.683 W	21				5	WINDWARD ISLANDS. <TRN>. MD 3.3 (TRN).
10 13 56 41.5* 12.838 N	144.152 E	33 N	4.7 4.7	1.4		26	SOUTH OF MARIANA ISLANDS. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 13:56:41.7; Lat 12.37 N; Lon 143.91 E; Dep 54.8; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.73, Plg=5, Azm=34; (N) Val=0.29, Plg=83, Azm=259; (P) Val=-6.02, Plg=5, Azm=124; Best double couple: Mo=5.9*10**16 Nm; NP1: Strike=169, Dip=83, Slip=0; NP2: Strike=79, Dip=90, Slip=173.
10 14 29 45.5 6.073 S	146.904 E	33 N	4.5	1.1		15	EASTERN NEW GUINEA REG., P.N.G. ML 5.0 (PMG).
10 14 47 40.3& 11.146 N	62.350 W	27				5	WINDWARD ISLANDS. <TRN>. MD 3.3 (TRN).
10 14 55 42.4 9.346 N	83.967 W	33 N	5.1 4.9	0.9		161	COSTA RICA. Mw 5.6 (HRV). MD 5.2 (CASC). Centroid, Moment Tensor (HRV): Centroid origin time 14:55:47.8; Lat 9.50 N; Lon 84.21 W; Dep 28.1; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=2.52, Plg=60, Azm=68; (N) Val=0.14, Plg=7, Azm=325; (P) Val=-2.65, Plg=29, Azm=232; Best double couple: Mo=2.6*10**17 Nm; NP1: Strike=303, Dip=17, Slip=66; NP2: Strike=147, Dip=74, Slip=97.
10 16 52 20.9* 12.947 N	144.308 E	51 D	4.6 4.5	1.5		17	SOUTH OF MARIANA ISLANDS
10 17 06 58.6? 39.01 N	140.50 E	128 ?		1.0		10	EASTERN HONSHU, JAPAN
10 17 38 22.2 2.854 S	138.871 E	33 N	4.9 4.9	1.1		52	IRIAN JAYA, INDONESIA. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 17:38:25.4; Lat 2.80 S; Lon 139.34 E; Dep 22.9; Half-duration 1.1 sec; Principal axes (scale 10**16 Nm): (T)

Val=8.43, Plg=62, Azm=141; (N) Val=-0.43, Plg=22, Azm=282;
(P) Val=-7.99, Plg=15, Azm=19; Best double couple:
Mo=8.2*10**16 Nm; NP1: Strike=138, Dip=35, Slip=131; NP2:
Strike=271, Dip=64, Slip=65.

10	18	21	26.6	43.304	N	47.112	E	33	N	4.3	1.3	21	EASTERN CAUCASUS. Felt at Makhachkala.	
10	18	38	08.5	43.349	N	147.992	E	33	N	5.0	4.6	142	KURIL ISLANDS	
10	18	44	21.5	33.269	N	116.004	W	3				29	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).	
10	19	03	58.8	55.660	N	160.010	W	4				12	ALASKA PENINSULA. <AEIC>. ML 2.8 (AEIC).	
10	19	04	59.4	34.427	S	70.509	W	119				13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.7 (GUC).	
10	19	29	22.2	46.580	N	2.420	E	2	G			4	FRANCE. <STR>. ML 1.9 (STR).	
10	19	33	59.8	36.245	N	54.645	E	33	N	4.5	4.3	1.1	58	NORTHERN IRAN. One person killed, one person injured and several houses damaged at Momenabad.
10	20	24	30.9	5.390	N	126.647	E	33	N	4.9	4.1	1.1	44	MINDANAO, PHILIPPINE ISLANDS
10	20	39	40.3	43.322	N	126.401	W	10	G			0.7	31	OFF COAST OF OREGON
10	21	09	47.3	44.367	N	7.289	E	13					24	NORTHERN ITALY. <GEN>. ML 2.3 (GEN), 2.3 (LDG), 2.0 (STR).
10	22	04	46.4	36.232	N	21.432	E	52	?	3.8		1.3	25	SOUTHERN GREECE
10	23	01	35.0	31.02	S	71.74	W	100	G			0.6	15	NEAR COAST OF CENTRAL CHILE. MD 4.3 (GUC).
10	23	22	46.0	17.980	S	167.923	E	33	N	4.5		1.4	22	VANUATU ISLANDS. Felt at Port-Vila.
10	23	55	25.2	50.30	N	178.48	E	33	N	4.2		1.0	9	RAT ISLANDS, ALEUTIAN ISLANDS
11	00	27	55.4	36.140	N	2.590	W	1					4	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.6 (MDD).
11	00	30	32.9	36.020	N	2.670	W	7					6	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.3 (MDD).
11	00	45	39.7	0.75	N	126.48	E	33	N			0.9	9	NORTHERN MOLUCCA SEA
11	01	17	39.3	24.606	S	179.954	W	496	?	4.2		1.0	27	SOUTH OF FIJI ISLANDS
11	01	19	59.5	33.118	S	70.361	W	99					10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.3 (GUC).
11	01	28	38.2	34.752	N	32.998	E	33	N	4.1		1.1	41	CYPRUS REGION. Felt (IV) at Limassol.
11	02	29	03.6	36.450	N	117.853	W	6					8	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 2.8 (PAS).
11	03	05	00.4	20.802	S	175.722	W	228	?	4.1		0.6	20	TONGA ISLANDS
11	03	18	37.4	10.912	S	27.871	E	10	G	4.3		1.1	11	ZAIRE
11	03	40	25.0	44.740	N	110.980	W	7					27	YELLOWSTONE REGION, WYOMING. <SLC-P>. ML 3.7 (SLC), 3.2 (BUT).
11	03	46	57.5	45.298	N	14.811	E	10	G			1.5	12	NORTHWESTERN BALKAN REGION. ML 2.7 (VIE), 2.5 (LJU), 2.4 (TRI).
11	04	27	33.6	34.642	N	32.855	E	33	N	4.5		1.3	127	CYPRUS REGION
11	04	27	55.3	34.791	N	32.939	E	33	N	5.1	5.4	1.2	234	CYPRUS REGION. Mw 5.6 (HRV). At least 15 people injured, 32 buildings damaged (VII) and landslides in the Limassol area. At least 50 buildings damaged in other parts of Cyprus. Felt (V) at Nicosia, (IV) at Larnaca and (III) at Paphos. Also felt in Egypt, Lebanon and Syria.
11	04	40	19.6	34.737	N	32.954	E	33	N	4.6		1.1	107	CYPRUS REGION. ML 4.6 (GII). Felt (V) at Limassol, (IV) at Nicosia, (III) at Larnaca and (II) at Paphos.
11	04	43	25.1	34.741	N	32.882	E	33	N	4.2		1.3	32	CYPRUS REGION. ML 4.1 (GII). Felt (V) at Limassol, (IV) at Nicosia and (II) at Larnaca.
11	04	46	02.2	42.173	N	18.861	E	8					5	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.0 (PDG).
11	06	12	14.8	40.100	S	174.850	E	12					8	COOK STRAIT, NEW ZEALAND. <WEL>. ML 3.2 (WEL).
11	07	34	49.1	33.020	S	70.387	W	104					11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.3 (GUC).
11	07	38	39.9	61.643	N	147.808	W	29					74	SOUTHERN ALASKA. <AEIC>. ML 2.9 (AEIC), 3.4 (PMR).
11	08	33	28.2	30.853	S	71.654	W	15					14	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC). Felt (III) at Combarbala, Ovalle and Punitaqui; (II) at Hurtado and Monte Patria.
11	09	05	24.6	17.055	S	70.532	W	33	N	4.3		1.4	7	NEAR COAST OF PERU. Felt (II) at Arequipa.
11	09	10	58.2	38.320	S	176.610	E	213					16	NORTH ISLAND, NEW ZEALAND. <WEL>.
11	09	27	56.0	35.295	N	139.504	E	80	?	4.0		1.0	11	NEAR S. COAST OF HONSHU, JAPAN. Felt (II JMA) in the Tokyo-Yokohama area. Felt (I JMA) as far as eastern Gumma, western Shizuoka and western Tochigi Prefectures.
11	09	35	06.5	32.759	S	70.604	W	44					13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.5 (GUC).
11	10	27	47.4	40.320	S	174.130	E	103					15	COOK STRAIT, NEW ZEALAND. <WEL>. Felt at Palmerston North on the North Island.
11	10	52	55.4	52.345	N	169.404	W	33	N	3.9		0.9	28	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.2 (AEIC).
11	11	40	36.0	44.740	N	110.980	W	7					26	YELLOWSTONE REGION, WYOMING. <SLC-P>. ML 3.4 (SLC), 3.3 (BUT).
11	14	14	08.9	39.159	N	115.681	W	5	G			0.8	25	NEVADA. ML 3.7 (GS).
11	14	18	21.0	50.290	N	157.247	E	33	N	4.9	4.1	0.8	98	KURIL ISLANDS. Felt (II) at Severo-Kurilsk.
11	14	35	11.8	24.418	S	67.585	W	114	?	4.3		1.1	25	CHILE-ARGENTINA BORDER REGION
11	14	39	39.5	26.728	N	44.454	W	10	G	4.5		0.9	11	NORTHERN MID-ATLANTIC RIDGE
11	15	03	18.3	18.080	N	66.937	W	12					4	PUERTO RICO REGION. <MPR>. ML 2.8 (MPR).
11	15	10	34.0	36.176	N	1.201	E	10	G			0.3	13	NORTHERN ALGERIA. mbLg 2.5 (MDD).
11	15	17	03.9	37.476	N	118.807	W	2					19	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. ML 3.0 (GM), 3.2 (BRK).
11	15	28	30.1	6.012	S	105.413	E	33	N	5.1	4.4	1.2	77	SUNDA STRAIT
11	15	32	01.4	31.784	S	179.332	E	397	?	4.4		1.3	32	KERMADEC ISLANDS REGION
11	15	34	14.9	14.698	S	171.060	E	655	?	4.6		0.7	19	VANUATU ISLANDS REGION
11	15	55	09.3	43.060	N	0.340	W	2	G				10	PYRENEES. <STR>. ML 2.4 (LDG), 2.4 (STR).
11	15	59	57.9	26.668	N	44.536	W	10	G	4.5		1.0	13	NORTHERN MID-ATLANTIC RIDGE
11	16	31	55.0	6.529	S	147.075	E	89	*			0.6	12	EASTERN NEW GUINEA REG., P.N.G.
11	17	49	08.4	18.141	N	66.918	W	8					4	PUERTO RICO REGION. <MPR>. ML 3.0 (MPR).
11	18	24	07.9	18.090	N	66.935	W	10					4	PUERTO RICO REGION. <MPR>. ML 3.2 (MPR).
11	18	33	35.2	18.069	N	66.942	W	8					4	PUERTO RICO REGION. <MPR>. ML 2.8 (MPR).
11	19	43	19.2	42.910	N	0.210	E	2	G				4	PYRENEES. <STR>. ML 2.2 (STR).
11	19	59	20.9	7.037	N	144.641	E	33	N	4.4	4.2	1.1	18	E. CAROLINE ISLANDS, MICRONESIA
11	20	00	12.0	34.631	N	32.856	E	33	N	4.1	3.5	1.5	32	CYPRUS REGION. Felt (IV) at Limassol.
11	20	07	49.2	6.472	S	130.606	E	71	*	4.6		1.1	28	BANDA SEA
11	20	34	16.5	39.107	N	79.183	E	33	N	4.4	3.8	0.7	30	SOUTHERN XINJIANG, CHINA
11	20	36	29.6	35.949	N	120.042	W	10					5	CENTRAL CALIFORNIA. <GM-P>. MD 2.7 (GM). ML 2.9 (PAS).
11	20	49	52.4	41.282	N	2.107	W	10	G			1.2	51	SPAIN. mbLg 3.2 (MDD). Felt (II) at Arcos, Cetina and Nuevalos.
11	21	48	17.2	52.923	N	171.527	E	33	N	4.5		0.8	46	NEAR ISLANDS, ALEUTIAN ISLANDS

11	22	12	45.0&	32.493	S	70.662	W	78							9	CHILE-ARGENTINA BORDER REGION. <GUC>.
11	23	09	14.2&	32.471	S	72.031	W	22							15	OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
11	23	38	10.8	51.628	N	16.204	E	5	G		0.5			11	POLAND. ML 3.6 (GRF), 3.5 (VIE).	
12	00	25	06.7*	18.721	S	176.882	W	33	N	4.7	5.1	1.2		46	FIJI ISLANDS REGION. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 00:25:05.1; Lat 19.59 S; Lon 176.29 W; Dep 15.0 Fix; Half- duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=2.35, Plg=5, Azm=82; (N) Val=-0.05, Plg=85, Azm=257; (P) Val=-2.31, Plg=0, Azm=352; Best double couple: Mo=2.3*10**17 Nm; NP1: Strike=127, Dip=86, Slip=177; NP2: Strike=217, Dip=87, Slip=4.	
12	00	31	30.8&	38.800	N	0.580	W	6						24	SPAIN. <MDD>. mblg 2.6 (MDD). Felt (III) at Baneres, Mariola and Onteniente.	
12	00	32	43.0&	45.239	N	7.384	E	15						48	NORTHERN ITALY. <GEN>. ML 3.0 (GEN), 2.8 (STR), 2.6 (LDG).	
12	01	27	53.8	14.798	S	167.072	E	98	D	4.8		1.3		134	VANUATU ISLANDS	
12	01	54	36.4	44.259	N	149.419	E	33	N	4.7	4.2	1.0		53	KURIL ISLANDS	
12	03	35	06.8*	7.178	S	128.898	E	138	?			1.4		12	BANDA SEA	
12	05	44	59.5	1.716	S	122.456	E	33	N	5.8	5.8	1.3		190	SULAWESI, INDONESIA. Mw 6.2 (GS), 6.2 (HRV). Felt (VI) at Luwuk; (III) at Palu, Poso and Tolitoli; (II) at Bitung. Felt throughout central and northern Sulawesi. Also felt (II) at Kupang, Timor. Moment Tensor (GS): Dep 15; Principal axes (scale 10**18 Nm): (T) Val=1.70, Plg=3, Azm=354; (N) Val=0.54, Plg=80, Azm=246; (P) Val=-2.24, Plg=10, Azm=85; Best double couple: Mo=2.0*10**18 Nm; NP1: Strike=129, Dip=81, Slip=-5; NP2: Strike=220, Dip=85, Slip=-171. Centroid, Moment Tensor (HRV): Centroid origin time 05:45:05.1; Lat 1.60 S; Lon 122.58 E; Dep 35.5; Half- duration 3.5 sec; Principal axes (scale 10**18 Nm): (T) Val=1.76, Plg=4, Azm=351; (N) Val=0.39, Plg=79, Azm=237; (P) Val=-2.15, Plg=10, Azm=81; Best double couple: Mo=2.0*10**18 Nm; NP1: Strike=126, Dip=80, Slip=-4; NP2: Strike=216, Dip=86, Slip=-170.	
12	06	39	59.8*	1.664	S	122.410	E	33	N	4.6		1.1		6	SULAWESI, INDONESIA	
12	06	56	46.7*	27.482	N	44.611	W	10	G			0.5		13	NORTHERN MID-ATLANTIC RIDGE	
12	07	25	19.3*	44.435	N	148.139	E	59	?	3.9		1.2		18	KURIL ISLANDS	
12	07	27	13.9	45.622	S	76.578	W	33	N	5.1	4.8	1.0		46	OFF COAST OF SOUTHERN CHILE. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 07:27:12.6; Lat 45.37 S; Lon 76.72 W; Dep 15.0 Fix; Half- duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.92, Plg=23, Azm=230; (N) Val=0.25, Plg=37, Azm=121; (P) Val=-2.17, Plg=44, Azm=344; Best double couple: Mo=2.0*10**17 Nm; NP1: Strike=6, Dip=40, Slip=-20; NP2: Strike=111, Dip=77, Slip=-128.	
12	07	49	05.5	39.885	N	54.120	E	33	N	4.7	4.2	1.0		62	TURKMENISTAN	
12	07	55	16.8&	39.780	S	174.040	E	140						15	NORTH ISLAND, NEW ZEALAND. <WEL>.	
12	08	02	27.9&	34.562	S	70.760	W	94						13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).	
12	08	06	49.6&	66.435	N	148.790	W	83						15	NORTHERN ALASKA. <AEIC>.	
12	08	20	39.4	50.583	N	171.822	W	33	N	5.1	4.5	1.0		193	SOUTH OF ALEUTIAN ISLANDS. ML 4.7 (PMR).	
12	09	14	30.3&	18.320	N	61.515	W	15						4	LEEWARD ISLANDS. <TRN>. MD 3.3 (TRN).	
12	09	35	16.0*	15.860	N	88.523	W	10	G	4.2		1.3		38	HONDURAS	
12	09	56	58.8&	32.683	S	71.451	W	12						10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).	
12	10	14	52.5*	22.089	S	169.704	E	33	N	4.5		1.3		21	LOYALTY ISLANDS REGION	
12	10	33	31.2&	45.100	N	6.300	E	2						5	FRANCE. <LDG>. ML 2.1 (LDG).	
12	11	03	50.4*	7.076	S	129.560	E	120	*	4.6		0.6		10	BANDA SEA	
12	11	51	51.6&	32.527	S	70.583	W	87						10	CHILE-ARGENTINA BORDER REGION. <GUC>.	
12	12	17	40.2*	12.288	N	125.401	E	50	*			1.0		12	SAMAR, PHILIPPINE ISLANDS	
12	12	45	05.3&	34.201	S	70.672	W	97						13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.0 (GUC).	
12	13	51	27.6	53.217	N	164.485	W	36		4.6		0.8		68	UNIMAK ISLAND REGION. ML 4.3 (AEIC).	
12	14	09	28.1&	9.881	N	84.311	W	79						12	COSTA RICA. <CASC>. MD 4.0 (CASC).	
12	14	09	36.5	7.773	S	127.283	E	150	*	4.5		1.2		35	BANDA SEA	
12	15	10	38.1*	46.246	N	15.823	E	10	G			0.6		6	NORTHWESTERN BALKAN REGION. ML 2.5 (VIE).	
12	15	50	16.0&	33.066	S	70.117	W	110						11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).	
12	16	07	00.0&	32.520	S	71.929	W	29						15	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.2 (GUC).	
12	16	34	14.8&	32.948	S	70.213	W	103						10	CHILE-ARGENTINA BORDER REGION. <GUC>.	
12	16	43	46.1	0.688	S	127.273	E	80		5.2		1.1		97	HALMAHERA, INDONESIA. Mw 5.6 (HRV). Felt (IV) at Labuha, Bacan. Centroid, Moment Tensor (HRV): Centroid origin time 16:43:50.6; Lat 0.73 S; Lon 127.40 E; Dep 76.6; Half- duration 1.8 sec; Principal axes (scale 10**17 Nm): (T) Val=3.22, Plg=47, Azm=334; (N) Val=-0.03, Plg=34, Azm=109; (P) Val=-3.19, Plg=23, Azm=216; Best double couple: Mo=3.2*10**17 Nm; NP1: Strike=351, Dip=37, Slip=157; NP2: Strike=100, Dip=76, Slip=55.	
12	17	59	30.1	56.936	N	153.331	W	29	D	4.0		0.8		23	KODIAK ISLAND REGION. ML 4.2 (AEIC), 4.2 (PMR). Felt at Old Harbor.	
12	18	26	00.7*	0.637	N	125.569	E	33	N	4.6		0.8		11	NORTHERN MOLUCCA SEA	
12	18	41	12.5*	39.574	N	72.524	E	33	N	4.2		1.2		9	KYRGYZSTAN	
12	20	14	56.9*	19.504	S	69.131	W	152	*	4.0		0.8		10	NORTHERN CHILE. Felt (III) at Pisagua; (II) at Arica, Huara, Iquique, La Tirana and Pozo Almonte.	
12	20	21	15.1*	31.881	N	114.682	W	5	G			1.1		11	GULF OF CALIFORNIA. ML 3.7 (GS), 3.7 (PAS). MD 3.3 (ECX).	
12	20	50	26.6	43.717	N	147.687	E	70	D	4.8		0.8		136	KURIL ISLANDS. Felt (II) at Yuzhno-Kurilsk.	
12	20	56	02.7	44.171	N	13.762	E	10	G			1.0		26	ADRIATIC SEA. ML 3.0 (LDG).	
12	21	14	43.7*	21.704	S	179.503	W	662	?	4.5		0.6		27	FIJI ISLANDS REGION	
12	21	44	11.9&	39.959	N	29.332	E	8						6	TURKEY. <ISK>. MD 2.8 (ISK).	
12	22	46	04.6*	20.93	S	170.97	E	33	N	4.4		1.5		14	VANUATU ISLANDS	
12	23	15	19.4*	20.400	S	68.495	W	128	?			1.2		6	CHILE-BOLIVIA BORDER REGION	
12	23	31	15.9*	45.38	N	149.85	E	33	N	4.3		1.3		9	KURIL ISLANDS	
13	00	30	27.8	52.050	N	169.453	W	33	N	5.2	4.4	0.9		241	FOX ISLANDS, ALEUTIAN ISLANDS. Mw 5.1 (HRV). ML 5.3 (AEIC), 5.1 (PMR). Centroid, Moment Tensor (HRV): Centroid origin time 00:30:28.6; Lat 52.07 N; Lon 169.61 W; Dep 15.0 Fix; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)	

Val=7.05, Plg=55, Azm=30; (N) Val=-2.36, Plg=28, Azm=249;
(P) Val=-4.69, Plg=19, Azm=149; Best double couple:
Mo=5.9*10**16 Nm; NP1: Strike=202, Dip=36, Slip=37; NP2:
Strike=81, Dip=69, Slip=121.

13 00 40 04.5 1.393 N 124.169 E 267 * 4.7 1.0 43 MINAHASSA PENINSULA, SULAWESI
13 01 36 01.7& 38.780 N 7.830 W 3 12 PORTUGAL. <MDD>. mbLg 2.1 (MDD).
13 02 31 29.1& 33.971 S 71.864 W 42 9 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.0 (GUC).
13 02 56 55.2 9.958 S 123.692 E 33 N 4.9 4.8 1.0 75 TIMOR REGION, INDONESIA. Felt (IV) at Kupang.
13 03 00 29.1 52.094 N 169.488 W 33 N 5.5 5.0 0.9 294 FOX ISLANDS, ALEUTIAN ISLANDS. Mw 5.5 (HRV). ML 5.2 (PMR).
Centroid, Moment Tensor (HRV): Centroid origin time
03:00:29.6; Lat 51.93 N; Lon 169.61 W; Dep 17.3; Half-
duration 1.5 sec; Principal axes (scale 10**17 Nm): (T)
Val=2.13, Plg=68, Azm=315; (N) Val=0.31, Plg=4, Azm=54; (P)
Val=-2.44, Plg=22, Azm=146; Best double couple:
Mo=2.3*10**17 Nm; NP1: Strike=242, Dip=23, Slip=99; NP2:
Strike=53, Dip=67, Slip=86.

13 03 14 48.7& 16.230 N 99.343 W 13 12 NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.4 (UNM).
13 03 31 53.5* 14.078 N 92.415 W 67 * 4.0 1.0 13 NEAR COAST OF CHIAPAS, MEXICO
13 05 06 41.6* 21.340 S 66.631 W 231 * 4.3 1.4 10 SOUTHERN BOLIVIA
13 05 37 36.4& 32.138 S 71.374 W 32 15 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.3 (GUC). Felt (II)
at Cabildo and Papudo.
13 05 41 34.5& 41.830 N 2.740 E 0 G 14 SPAIN. <MDD>. ML 3.0 (STR), 2.8 (LDG). mbLg 2.6 (MDD).
13 05 49 18.5? 13.95 N 92.73 W 33 N 1.2 8 OFF COAST OF CHIAPAS, MEXICO. MD 4.2 (UNM).
13 06 41 35.4 5.865 S 146.430 E 63 * 4.4 1.1 26 EASTERN NEW GUINEA REG., P.N.G.
13 07 13 57.4 20.257 S 68.492 W 143 * 4.5 0.9 30 CHILE-BOLIVIA BORDER REGION. Felt (III) at Camina,
Guatacondo, Pica and Pozo Almonte; (II) at Arica and
Pisagua, Chile.

13 07 27 22.7 47.192 N 15.001 E 10 G 1.4 7 AUSTRIA. ML 2.6 (VIE), 2.5 (LJU).
13 07 56 40.3 52.037 N 169.502 W 33 N 5.3 5.4 0.9 291 FOX ISLANDS, ALEUTIAN ISLANDS. Mw 5.8 (HRV). ML 5.2 (PMR).
Centroid, Moment Tensor (HRV): Centroid origin time
07:56:43.0; Lat 52.01 N; Lon 169.46 W; Dep 15.1; Half-
duration 1.9 sec; Principal axes (scale 10**17 Nm): (T)
Val=6.13, Plg=65, Azm=345; (N) Val=0.53, Plg=5, Azm=244;
(P) Val=-6.66, Plg=24, Azm=152; Best double couple:
Mo=6.4*10**17 Nm; NP1: Strike=231, Dip=21, Slip=76; NP2:
Strike=66, Dip=69, Slip=95.

13 08 11 00.9? 31.40 S 69.70 W 150 G 0.5 13 SAN JUAN PROVINCE, ARGENTINA. MD 3.4 (GUC).
13 09 17 38.8& 46.059 N 14.770 E 10 G 0.5 5 NORTHWESTERN BALKAN REGION. ML 1.5 (LJU).
13 09 54 34.6 17.409 S 69.254 W 167 D 4.9 1.0 114 PERU-BOLIVIA BORDER REGION. Felt (II) at Arica, Chile.
13 10 12 20.4 1.776 S 122.492 E 33 N 5.2 4.6 1.3 55 SULAWESI, INDONESIA. Mw 5.6 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time
10:12:24.9; Lat 1.72 S; Lon 122.47 E; Dep 24.2; Half-
duration 1.4 sec; Principal axes (scale 10**17 Nm): (T)
Val=2.72, Plg=26, Azm=7; (N) Val=-0.65, Plg=64, Azm=181;
(P) Val=-2.07, Plg=2, Azm=276; Best double couple:
Mo=2.4*10**17 Nm; NP1: Strike=49, Dip=70, Slip=163; NP2:
Strike=145, Dip=74, Slip=21.

13 10 18 00.7* 52.086 S 139.373 E 10 G 4.9 1.3 19 WEST OF MACQUARIE ISLAND
13 10 32 10.6? 52.06 S 139.66 E 10 G 4.2 0.6 9 WEST OF MACQUARIE ISLAND
13 11 13 42.5* 28.679 S 112.549 W 10 G 4.8 4.3 1.0 25 EASTER ISLAND REGION
13 11 56 46.3 6.698 S 152.404 E 33 * 4.6 1.1 31 NEW BRITAIN REGION, P.N.G.
13 12 42 47.0* 7.999 S 75.699 W 33 N 4.4 4.1 0.7 18 NORTHERN PERU
13 13 05 54.4 43.806 N 149.141 E 43 D 5.6 5.2 0.9 292 EAST OF KURIL ISLANDS. Mw 5.4 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time
13:05:55.3; Lat 43.90 N; Lon 149.12 E; Dep 29.1; Half-
duration 1.2 sec; Principal axes (scale 10**17 Nm): (T)
Val=1.18, Plg=58, Azm=291; (N) Val=0.02, Plg=8, Azm=35; (P)
Val=-1.20, Plg=30, Azm=130; Best double couple:
Mo=1.2*10**17 Nm; NP1: Strike=244, Dip=17, Slip=120; NP2:
Strike=33, Dip=76, Slip=81.

13 13 29 54.0 39.832 N 120.704 W 5 G 0.7 9 NORTHERN CALIFORNIA. ML 2.9 (GS).
13 13 36 54.1& 11.868 N 43.186 E 7 7 ETHIOPIA. <ARO>. ML 3.5 (ARO).
13 14 55 04.7 34.687 N 32.895 E 33 N 4.0 1.0 31 CYPRUS REGION. Felt (III) at Limassol.
13 15 26 14.2* 11.348 S 165.917 E 138 * 4.5 1.2 20 SANTA CRUZ ISLANDS
13 15 31 38.5 34.714 N 32.890 E 33 N 4.8 4.1 1.2 173 CYPRUS REGION. MD 4.9 (ISK). ML 4.8 (GII). Some damage (V)
to buildings at Limassol. Felt (IV) at Pano Lefkare and
(III) at Nicosia. Felt throughout Cyprus.

13 15 54 14.2 46.475 N 13.760 E 5 G 1.1 14 AUSTRIA. ML 2.6 (VIE), 2.1 (LJU), 2.1 (TRI). Felt (IV) at
Kranjska Gora and Podkoren, Slovenia.

13 16 36 17.7* 52.115 N 169.665 W 33 N 4.0 0.7 16 FOX ISLANDS, ALEUTIAN ISLANDS
13 17 10 17.5& 35.722 N 117.546 W 6 29 CENTRAL CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
13 17 11 28.5& 33.623 S 70.690 W 87 13 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.9 (GUC).
13 17 18 15.4& 19.085 N 68.031 W 55 5 NORTH ATLANTIC OCEAN. <MPR>. MD 3.1 (MPR).
13 17 58 26.6& 43.840 N 7.707 E 0 6 NEAR SOUTH COAST OF FRANCE. <GEN>. ML 1.8 (GEN).
13 18 08 25.4* 4.607 S 153.379 E 33 N 4.7 1.1 9 NEW IRELAND REGION, P.N.G.
13 18 36 22.4 48.487 N 128.557 E 10 G 4.6 1.0 47 NORTHEASTERN CHINA
13 19 10 57.2 6.435 N 126.957 E 116 4.7 0.9 53 MINDANAO, PHILIPPINE ISLANDS
13 19 16 04.7? 35.40 N 23.94 E 33 N 4.1 1.5 17 CRETE
13 19 49 32.4 35.700 N 0.851 E 10 G 0.7 18 NORTHERN ALGERIA. mbLg 2.8 (MDD).
13 19 51 40.8* 9.949 S 124.107 E 33 N 3.4 1.3 8 TIMOR REGION, INDONESIA
13 20 10 47.6 10.814 N 62.407 W 98 3.9 0.9 35 NEAR COAST OF VENEZUELA. MD 4.3 (TRN).
13 20 24 08.3 43.835 N 149.043 E 33 N 4.7 4.1 0.9 51 EAST OF KURIL ISLANDS
13 21 09 00.6& 15.695 N 120.150 E 33 N 0.4 5 LUZON, PHILIPPINE ISLANDS
13 21 29 00.0& 42.742 N 20.204 E 16 29 NORTHWESTERN BALKAN REGION. <PDG>. MD 3.3 (PDG).
13 21 47 20.8& 42.737 N 20.223 E 17 12 NORTHWESTERN BALKAN REGION. <PDG>. MD 2.5 (PDG).
13 22 18 20.0* 5.238 S 152.678 E 33 N 4.8 1.4 10 NEW BRITAIN REGION, P.N.G.
13 22 52 53.7& 17.940 N 98.174 W 41 14 GUERRERO, MEXICO. <UNM>. MD 3.9 (UNM).
13 23 06 56.1* 46.509 N 146.672 E 33 N 4.3 0.6 11 NORTHWEST OF KURIL ISLANDS
13 23 13 56.1* 46.667 N 153.628 E 33 N 4.6 4.5 1.0 37 KURIL ISLANDS
13 23 15 05.5? 36.05 S 97.39 W 10 G 4.6 4.3 0.9 8 WEST CHILE RISE
13 23 30 31.0& 40.780 S 174.710 E 45 9 COOK STRAIT, NEW ZEALAND. <WEL>.
13 23 40 27.6& 42.736 N 20.207 E 16 11 NORTHWESTERN BALKAN REGION. <PDG>. MD 2.3 (PDG).
14 00 16 52.2 5.885 S 104.711 E 101 D 6.0 5.7 1.0 380 SOUTHERN SUMATERA, INDONESIA. Mw 6.4 (GS), 6.4 (HRV). Me 6.3

(GS). Felt (III) at Bengkulu and Kotabumi. Also felt (II) at Bandung, Banten and Jakarta, Jawa.

Broadband Source Parameters (GS): Dep 101; NP1: Strike=345, Dip=20, Slip=75; NP2: Strike=181, Dip=71, Slip=95; Radiated energy 6.5×10^{13} Nm.

Moment Tensor (GS): Dep 96; Principal axes (scale 10^{18} Nm): (T) Val=4.14, Plg=38, Azm=33; (N) Val=1.52, Plg=48, Azm=183; (P) Val=-5.66, Plg=15, Azm=291; Best double couple: Mo=4.9 $\times 10^{18}$ Nm; NP1: Strike=65, Dip=52, Slip=162; NP2: Strike=167, Dip=76, Slip=40.

Centroid, Moment Tensor (HRV): Centroid origin time 00:16:57.7; Lat 5.86 S; Lon 104.46 E; Dep 99.2; Half-duration 4.0 sec; Principal axes (scale 10^{18} Nm): (T) Val=4.40, Plg=35, Azm=32; (N) Val=1.45, Plg=50, Azm=178; (P) Val=-5.86, Plg=17, Azm=289; Best double couple: Mo=5.1 $\times 10^{18}$ Nm; NP1: Strike=65, Dip=52, Slip=165; NP2: Strike=164, Dip=78, Slip=39.

14 00 24 17.3& 32.517 S 71.884 W 28
 14 00 26 03.0& 37.420 N 117.070 W 3
 14 00 48 11.6? 5.20 S 103.17 E 33 N 4.8 1.1
 14 00 59 13.7& 40.260 S 174.380 E 97
 14 01 17 12.3 35.318 N 23.502 E 33 N 3.6 1.0
 14 02 47 38.7& 44.520 S 168.540 E 12
 14 04 10 32.0* 39.875 N 143.419 E 33 N 4.3 1.1
 14 04 21 55.8 20.150 N 121.497 E 10 G 4.8 1.0
 14 06 51 00.8* 21.004 S 68.168 W 153 * 4.1 1.1
 14 06 57 02.3& 38.180 N 1.690 W 2

14 07 01 07.4& 44.445 N 7.307 E 8
 14 07 04 58.1& 38.210 N 1.640 W 2
 14 08 58 51.8* 31.023 S 179.416 W 400 G 4.0 1.1
 14 09 29 21.6? 31.08 S 68.61 W 100 G 1.1
 14 10 14 57.7& 34.136 S 70.839 W 87
 14 10 29 32.9& 43.602 N 21.109 E 17
 14 10 34 29.7& 43.561 N 21.012 E 22
 14 11 07 23.8 16.208 N 94.128 W 93 D 4.5 1.1
 14 11 09 03.1& 42.800 N 7.290 W 3
 14 11 54 14.2& 34.238 S 70.063 W 5
 14 12 45 46.1& 26.041 S 130.692 E 10 G 3.9 1.3
 14 13 40 46.8& 15.880 N 99.456 W 16
 14 14 53 48.8& 42.240 N 8.470 W 14
 14 15 33 39.6* 1.893 S 151.926 E 33 N 1.0
 14 15 50 53.4& 44.590 N 7.250 E 10
 14 16 09 17.4* 15.241 S 173.423 W 33 N 4.5 0.8
 14 17 16 25.0& 48.230 N 129.120 W 10 G
 14 17 31 29.8* 8.385 S 120.821 E 211 * 4.5 1.2
 14 19 20 53.0& 37.420 N 117.080 W 7

14 19 29 27.7& 33.159 S 72.235 W 2
 14 19 34 18.4* 19.641 S 177.027 W 400 G 3.9 0.8
 14 19 38 17.5* 6.281 S 104.075 E 56 D 4.7 0.7
 14 19 54 53.8& 60.420 N 152.210 W 88
 14 20 09 09.6 53.603 N 163.534 W 33 N 4.8 4.3 0.9
 14 20 31 56.6* 7.403 S 128.376 E 164 ? 0.5
 14 21 06 13.2 2.745 N 128.622 E 216 * 4.7 1.0
 14 21 27 11.6* 51.098 N 15.814 E 5 G 1.3
 14 23 50 16.3& 40.689 N 29.163 E 6
 15 00 41 48.0 11.816 N 124.251 E 33 N 5.0 4.9 0.9

15 01 14 51.1& 31.246 S 70.867 W 88
 15 01 20 05.5* 32.419 N 140.566 E 64 * 4.4 0.8
 15 01 32 27.1? 22.38 S 174.57 W 33 N 4.5 0.6
 15 01 40 23.5& 37.930 S 176.370 E 234
 15 02 17 03.0& 39.321 N 27.800 E 7
 15 02 17 03.1* 18.735 N 145.424 E 628 ? 4.4 1.0
 15 02 18 41.2& 39.319 N 27.810 E 6
 15 02 21 03.9* 45.648 N 15.537 E 10 G 0.7
 15 02 50 07.0& 44.684 N 6.985 E 1
 15 03 11 33.7? 5.44 N 126.40 E 86 * 1.0
 15 03 40 42.9* 50.370 N 7.379 E 10 G 0.7
 15 03 43 37.9? 4.59 N 124.79 E 33 N 1.2
 15 04 11 42.0 19.101 N 103.094 W 86 D 5.1 1.0

14 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
 8 CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.8 (REN).
 9 SOUTHERN SUMATERA, INDONESIA
 10 COOK STRAIT, NEW ZEALAND. <WEL>.
 23 CRETE
 6 SOUTH ISLAND, NEW ZEALAND. <WEL>. ML 4.2 (WEL).
 14 OFF EAST COAST OF HONSHU, JAPAN
 40 PHILIPPINE ISLANDS REGION
 19 CHILE-BOLIVIA BORDER REGION
 68 SPAIN. <MDD>. ML 4.0 (LDG). mbLg 3.8 (MDD). Felt (V) at Valentin; (IV) at Calasparra; (III) at Bullas, Caravaca and Moratalla; (II) at Cieza and Mula.
 6 NORTHERN ITALY. <GEN>. ML 1.9 (GEN).
 7 SPAIN. <MDD>. mbLg 2.0 (MDD).
 20 KERMADEC ISLANDS REGION
 10 SAN JUAN PROVINCE, ARGENTINA. MD 3.3 (GUC).
 9 CHILE-ARGENTINA BORDER REGION. <GUC>.
 17 NORTHWESTERN BALKAN REGION. <PDG>. MD 3.0 (PDG).
 13 NORTHWESTERN BALKAN REGION. <PDG>. MD 2.9 (PDG).
 66 OAXACA, MEXICO. MD 4.6 (UNM).
 6 SPAIN. <MDD>. mbLg 2.6 (MDD).
 8 CHILE-ARGENTINA BORDER REGION. <GUC>.
 11 SOUTH AUSTRALIA
 5 OFF COAST OF GUERRERO, MEXICO. <UNM>. MD 3.8 (UNM).
 9 SPAIN. <MDD>. mbLg 3.0 (MDD).
 8 NEW IRELAND REGION, P.N.G.
 39 NORTHERN ITALY. <STR>. ML 2.8 (GEN), 2.6 (LDG), 2.4 (STR).
 34 TONGA ISLANDS
 18 VANCOUVER ISLAND REGION. <PGC-P>. ML 3.3 (PGC).
 17 FLORES REGION, INDONESIA
 10 CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.9 (REN). ML 3.1 (GS).
 12 OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
 14 FIJI ISLANDS REGION
 14 SUNDA STRAIT
 5 SOUTHERN ALASKA. <AEIC>.
 82 UNIMAK ISLAND REGION. ML 4.4 (PMR).
 9 BANDA SEA
 45 HALMAHERA, INDONESIA
 7 POLAND. ML 3.0 (GRF), 3.0 (VIE).
 7 TURKEY. <ISK>. MD 2.7 (ISK).
 68 LEYTE, PHILIPPINE ISLANDS. Mw 5.4 (HRV).
 Centroid, Moment Tensor (HRV): Centroid origin time 00:41:49.3; Lat 12.06 N; Lon 124.27 E; Dep 34.3; Half-duration 1.2 sec; Principal axes (scale 10^{17} Nm): (T) Val=1.57, Plg=17, Azm=189; (N) Val=-0.15, Plg=70, Azm=44; (P) Val=-1.42, Plg=11, Azm=283; Best double couple: Mo=1.5 $\times 10^{17}$ Nm; NP1: Strike=327, Dip=70, Slip=4; NP2: Strike=235, Dip=86, Slip=160.
 13 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.6 (GUC).
 19 SOUTH OF HONSHU, JAPAN. Felt (I JMA) on Hachijo-jima.
 8 TONGA ISLANDS REGION
 7 NORTH ISLAND, NEW ZEALAND. <WEL>.
 5 TURKEY. <ISK>. MD 3.1 (ISK).
 17 MARIANA ISLANDS
 5 TURKEY. <ISK>. MD 3.1 (ISK).
 7 NORTHWESTERN BALKAN REGION. ML 2.8 (VIE).
 35 FRANCE. <GEN>. ML 2.4 (GEN), 2.2 (LDG), 2.1 (STR).
 9 MINDANAO, PHILIPPINE ISLANDS
 5 GERMANY. ML 2.0 (STR).
 8 CELEBES SEA
 186 JALISCO, MEXICO. Mw 5.3 (HRV). MD 4.8 (UNM).
 Centroid, Moment Tensor (HRV): Centroid origin time 04:11:46.3; Lat 19.16 N; Lon 103.23 W; Dep 63.0; Half-duration 1.0 sec; Principal axes (scale 10^{16} Nm): (T) Val=8.31, Plg=28, Azm=36; (N) Val=1.26, Plg=13, Azm=299; (P) Val=-9.58, Plg=59, Azm=186; Best double couple: Mo=8.9 $\times 10^{16}$ Nm; NP1: Strike=156, Dip=21, Slip=-51; NP2: Strike=295, Dip=74, Slip=-104.
 32 CENTRAL ALASKA. <AEIC>. ML 3.8 (AEIC), 4.0 (PMR). Felt at Kantishna.
 33 SOUTHERN CALIFORNIA. <AEIC>. ML 3.2 (PAS). Felt in the epicentral area.
 9 NEAR SOUTH COAST OF FRANCE. <STR>. ML 2.0 (STR).
 5 KENAI PENINSULA, ALASKA. <AEIC>. ML 2.8 (AEIC).
 8 NORTH ISLAND, NEW ZEALAND. <WEL>. ML 4.3 (WEL).

15	07	09	59.9*	21.080 S	67.439 W	191	4.0	1.2	22	CHILE-BOLIVIA BORDER REGION
15	07	52	50.9&	42.726 N	20.200 E	18			9	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.2 (PDG).
15	08	09	32.0&	40.440 S	173.810 E	143			16	COOK STRAIT, NEW ZEALAND. <WEL>.
15	09	37	44.7?	4.83 S	133.23 E	33 N	4.0	0.5	5	IRIAN JAYA REGION, INDONESIA
15	10	46	12.3&	34.058 S	72.116 W	45			10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
15	10	52	18.9*	52.164 N	169.456 W	33 N	4.2	0.8	17	FOX ISLANDS, ALEUTIAN ISLANDS
15	11	43	11.1&	32.662 S	71.659 W	31			10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.2 (GUC).
15	12	28	47.4&	45.158 N	8.825 E	16			12	NORTHERN ITALY. <GEN>. ML 2.2 (GEN).
15	12	36	09.8&	32.265 S	71.801 W	19			19	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.4 (GUC). Felt (III) at Papudo.
15	12	54	51.3*	48.576 S	105.421 E	10 G	4.6	0.5	11	SOUTHEAST INDIAN RIDGE
15	12	58	44.1&	32.517 S	71.867 W	15			9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
15	13	12	42.5&	32.274 S	71.773 W	22			12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
15	13	27	19.5&	37.730 N	5.780 W	3			11	SPAIN. <MDD>. mbLg 3.2 (MDD).
15	13	42	23.0*	0.730 S	96.808 E	33 N	4.4	0.9	15	SOUTHWEST OF SUMATERA, INDONESIA
15	13	51	55.0*	36.351 N	70.379 E	229 *	3.7	1.0	17	HINDU KUSH REGION, AFGHANISTAN
15	15	13	21.6&	60.278 N	152.251 W	84			10	SOUTHERN ALASKA. <AEIC>.
15	16	00	40.1&	32.613 S	70.162 W	110			12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.0 (GUC).
15	16	10	31.0&	37.370 N	117.070 W	5			10	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.8 (REN).
15	16	18	35.8	18.389 N	96.228 E	18 D	5.0 4.6	0.9	69	MYANMAR. Mw 5.2 (HRV). Felt in northeastern Myanmar and northern Thailand.
										Centroid, Moment Tensor (HRV): Centroid origin time 16:18:36.6; Lat 18.46 N; Lon 96.23 E; Dep 38.9; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=8.11, Plg=3, Azm=130; (N) Val=-0.96, Plg=83, Azm=12; (P) Val=-7.15, Plg=6, Azm=221; Best double couple: Mo=7.6*10**16 Nm; NP1: Strike=265, Dip=83, Slip=-2; NP2: Strike=356, Dip=88, Slip=-173.
15	16	23	46.6*	18.245 N	96.245 E	18 D	4.5	0.8	11	MYANMAR
15	18	09	35.5&	33.786 S	71.166 W	65			11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.5 (GUC).
15	18	23	07.1&	18.546 N	66.890 W	19			5	PUERTO RICO REGION. <MPR>. ML 3.3 (MPR).
15	18	47	28.8*	24.919 S	178.474 E	602 ?	4.7	1.0	18	SOUTH OF FIJI ISLANDS
15	19	35	08.9&	61.311 N	151.213 W	76			9	SOUTHERN ALASKA. <AEIC>.
15	19	50	12.2	5.396 S	152.529 E	33 N	5.1 5.5	1.0	124	NEW BRITAIN REGION, P.N.G. Mw 5.9 (GS), 5.6 (HRV). Moment Tensor (GS): Dep 13; Principal axes (scale 10**17 Nm): (T) Val=7.01, Plg=2, Azm=9; (N) Val=0.41, Plg=84, Azm=255; (P) Val=-7.42, Plg=5, Azm=99; Best double couple: Mo=7.2*10**17 Nm; NP1: Strike=144, Dip=84, Slip=-2; NP2: Strike=234, Dip=88, Slip=-174.
										Centroid, Moment Tensor (HRV): Centroid origin time 19:50:16.4; Lat 5.49 S; Lon 152.83 E; Dep 29.6; Half-duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=2.88, Plg=26, Azm=355; (N) Val=0.39, Plg=64, Azm=175; (P) Val=-3.27, Plg=0, Azm=85; Best double couple: Mo=3.1*10**17 Nm; NP1: Strike=133, Dip=72, Slip=19; NP2: Strike=37, Dip=72, Slip=161.
15	19	58	00.3&	32.327 S	71.562 W	29			13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).
15	20	10	34.9&	34.983 S	71.104 W	101			12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.9 (GUC).
15	21	13	51.8*	5.451 S	152.455 E	33 N	4.5	1.3	13	NEW BRITAIN REGION, P.N.G.
15	21	23	46.4	5.460 S	152.637 E	33 N	4.7	1.1	23	NEW BRITAIN REGION, P.N.G.
15	21	46	43.2&	46.100 N	6.800 E	2			32	SWITZERLAND. <LDG>. ML 2.5 (LDG), 2.5 (STR).
15	22	22	13.6*	5.086 S	153.558 E	71 *		0.8	11	NEW IRELAND REGION, P.N.G.
15	22	24	09.2*	15.737 N	147.868 E	33 N	4.4	1.0	14	MARIANA ISLANDS REGION
15	22	32	43.2*	42.394 N	142.822 E	96 *	4.1	1.2	14	HOKKAIDO, JAPAN REGION. Felt in the epicentral area.
15	22	39	30.5&	32.380 S	69.925 W	123			11	MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 3.1 (GUC).
15	22	50	43.2&	60.276 N	151.848 W	73			8	KENAI PENINSULA, ALASKA. <AEIC>.
15	22	55	50.6&	41.547 N	20.229 E	11			13	ALBANIA. <PDG>. MD 3.0 (PDG).
15	23	25	28.0&	35.742 N	118.481 W	5			32	CENTRAL CALIFORNIA. <PAS-P>. ML 3.2 (PAS). Felt in the epicentral area.
15	23	46	29.5	18.385 S	172.674 W	33 N	4.8 4.6	1.1	53	TONGA ISLANDS REGION
15	23	57	16.8&	47.030 N	7.920 E	2 G			22	SWITZERLAND. <STR>. ML 2.2 (STR), 2.2 (LDG).
16	01	19	26.1	51.631 N	16.135 E	5 G			15	POLAND. ML 3.8 (GRF), 3.5 (VIE).
16	02	19	07.0*	17.408 S	172.602 W	33 N	5.0 5.0	1.2	70	TONGA ISLANDS REGION. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 02:19:10.3; Lat 17.42 S; Lon 172.47 W; Dep 15.0 Fm; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.26, Plg=57, Azm=289; (N) Val=-0.07, Plg=1, Azm=21; (P) Val=-1.19, Plg=33, Azm=111; Best double couple: Mo=1.2*10**17 Nm; NP1: Strike=206, Dip=12, Slip=96; NP2: Strike=20, Dip=78, Slip=89.
16	02	41	04.9?	5.35 S	152.66 E	33 N	3.9	1.3	6	NEW BRITAIN REGION, P.N.G.
16	02	44	21.0&	48.750 N	128.340 W	10 G			16	VANCOUVER ISLAND REGION. <PGC-P>. ML 3.7 (PGC).
16	03	03	22.5?	53.28 S	159.49 E	10 G	4.4	1.1	8	MACQUARIE ISLANDS REGION
16	03	13	59.1&	40.380 S	176.180 E	57			15	NORTH ISLAND, NEW ZEALAND. <WEL>.
16	04	05	28.9	7.541 S	128.144 E	118 *	4.8	1.2	34	BANDA SEA
16	04	09	47.2&	17.199 N	99.889 W	40			18	GUERRERO, MEXICO. <UNM>. MD 4.2 (UNM).
16	04	21	01.8&	32.659 S	71.522 W	43			9	NEAR COAST OF CENTRAL CHILE. <GUC>.
16	04	36	33.9*	20.770 S	170.038 E	141 *	4.3	1.1	18	VANUATU ISLANDS
16	05	31	46.8*	52.742 N	167.378 W	33 N	3.6	1.3	11	FOX ISLANDS, ALEUTIAN ISLANDS
16	06	03	55.1	37.359 N	20.392 E	33 N	4.1	1.2	38	IONIAN SEA
16	06	10	22.8*	15.465 S	178.793 W	436 ?	4.2	0.8	34	FIJI ISLANDS REGION
16	06	41	10.0&	30.833 S	71.202 W	21			16	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.1 (GUC). Felt (III) at Ovalle.
16	07	02	21.7&	19.053 N	67.044 W	60			6	MONA PASSAGE. <MPR>. MD 2.8 (MPR).
16	07	05	38.7	6.391 N	125.900 E	150 *	4.5	0.8	17	MINDANAO, PHILIPPINE ISLANDS
16	07	28	59.5	31.822 N	137.881 E	363 D	4.8	0.7	161	SOUTH OF HONSHU, JAPAN. Felt (I JMA) on Hachijo-jima. Also felt (I JMA) in parts of eastern Honshu.
16	07	30	49.2&	44.446 N	7.238 E	13			15	NORTHERN ITALY. <GEN>. ML 2.3 (LDG), 2.2 (GEN).
16	07	42	55.7&	37.507 N	28.499 E	5			6	TURKEY. <ISK>. MD 3.2 (ISK).
16	07	54	18.7&	19.358 N	64.077 W	60			6	VIRGIN ISLANDS. <MPR>. MD 4.2 (MPR).
16	08	26	51.1*	5.519 S	152.584 E	33 N	4.6	1.2	15	NEW BRITAIN REGION, P.N.G.
16	09	05	41.9&	36.193 S	71.784 W	107			10	CENTRAL CHILE. <GUC>.
16	10	38	32.3&	33.172 S	70.265 W	99			7	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).

16	11	13	55.3&	33.979 N	116.979 W	17				26	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
16	11	58	56.6&	14.249 N	60.814 W	15				5	WINDWARD ISLANDS. <PDF>. MG 2.3 (PDF).
16	14	01	58.0	37.878 N	87.141 E	20 D	4.7	0.7		35	SOUTHERN XINJIANG, CHINA
16	14	04	03.6&	35.730 N	4.890 W	15				9	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.2 (MDD).
16	14	12	48.6&	63.409 N	151.545 W	0				10	CENTRAL ALASKA. <AEIC>. ML 2.9 (AEIC), 3.1 (PMR).
16	14	38	07.0	13.672 N	120.807 E	138	4.8	0.9		59	MINDORO, PHILIPPINE ISLANDS
16	14	43	59.8&	44.660 N	7.159 E	12				20	NORTHERN ITALY. <GEN>. ML 2.5 (GEN), 2.5 (LDG).
16	14	47	11.8&	38.670 N	1.090 W	15				6	SPAIN. <MDD>. mbLg 2.0 (MDD).
16	14	59	40.1&	63.056 N	150.738 W	126	3.5			19	CENTRAL ALASKA. <AEIC>.
16	15	00	54.5*	60.845 S	26.797 W	33 N		0.8		11	SOUTH SANDWICH ISLANDS REGION
16	15	31	36.4	44.651 N	11.940 E	10 G		0.9		22	NORTHERN ITALY. ML 3.0 (LDG), 2.9 (VIE), 2.5 (LJU).
16	15	41	10.8*	1.491 N	127.006 E	33 N	4.2	1.0		10	HALMAHERA, INDONESIA
16	15	50	03.3*	23.316 N	142.383 E	73 ?	4.6	1.1		31	VOLCANO ISLANDS REGION
16	16	31	20.2&	19.731 N	66.004 W	64				6	PUERTO RICO REGION. <MPR>. MD 3.8 (MPR).
16	18	16	11.3	26.090 N	67.365 E	33 N	4.7	0.9		87	PAKISTAN
16	18	41	10.9	44.200 N	147.557 E	62 *	4.6	0.9		59	KURIL ISLANDS
16	19	18	21.1&	36.670 N	1.670 W	4				18	WESTERN MEDITERRANEAN SEA. <MDD>. mbLg 2.8 (MDD).
16	19	39	00.2&	35.580 N	4.940 W	12				7	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.3 (MDD).
16	19	50	20.0	53.996 N	160.446 E	79 *	4.4	0.9		76	NEAR EAST COAST OF KAMCHATKA. Felt (II) at Petropavlovsk-Kamchatskiy.
16	20	42	01.2	33.514 N	141.103 E	54 D	4.6	0.7		19	OFF EAST COAST OF HONSHU, JAPAN
16	20	45	46.3*	37.282 N	21.109 E	33 N	3.8	1.3		15	SOUTHERN GREECE
16	21	29	50.6*	53.513 N	107.718 E	10 G	3.9	1.1		13	LAKE BAYKAL REGION, RUSSIA. Felt (II) at Tyrgana.
16	21	31	28.7*	54.741 S	118.527 W	10 G	4.9	1.1		14	SOUTHERN EAST PACIFIC RISE. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 21:31:37.4; Lat 55.02 S; Lon 117.76 W; Dep 15.0 Fix; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=0.95, Plg=10, Azm=324; (N) Val=0.60, Plg=58, Azm=70; (P) Val=-1.55, Plg=30, Azm=228; Best double couple: Mo=1.2*10**17 Nm; NP1: Strike=10, Dip=62, Slip=-165; NP2: Strike=273, Dip=77, Slip=-29.
16	22	21	36.0	28.150 N	56.690 E	33 N	4.3	0.8		39	SOUTHERN IRAN
16	23	36	23.6&	30.872 S	71.606 W	22				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).
16	23	46	17.7*	27.184 N	142.887 E	33 N	4.4	0.9		13	BONIN ISLANDS REGION
17	00	01	39.1	40.748 N	29.864 E	17 G	6.3	7.8	1.3	381	TURKEY. Mw 7.6 (HRV), 7.6 (CSEM), 7.4 (GS), 7.3 (OBN). Me 7.7 (GS). MD 6.7 (ISK). At least 17,118 people killed, nearly 50,000 injured, thousands missing, about 500,000 people homeless and estimated 3 to 6.5 billion U.S. dollars damage in Istanbul, Kocaeli and Sakarya Provinces. Felt as far east as Ankara. Felt (III) at Anapa, Russia; Chisinau, Moldova; Simferopol and on the south coast of Crimea, Ukraine. As much as 5 meters of right-lateral strike-slip displacement occurred along a 120-km zone of the North Anatolian Fault between Karamursel and Golyaka. Rupture proceeded from west to east in two subevents. Duration of strong shaking was 37 seconds with maximum acceleration 0.3-0.4g. Broadband Source Parameters (GS): NP1: Strike=75, Dip=89, Slip=179; NP2: Strike=165, Dip=89, Slip=1; Radiated energy 8.1*10**15 Nm. Moment Tensor (GS): Dep 13; Principal axes (scale 10**20 Nm): (T) Val=1.36, Plg=6, Azm=50; (N) Val=-0.01, Plg=81, Azm=187; (P) Val=-1.35, Plg=6, Azm=319; Best double couple: Mo=1.4*10**20 Nm; NP1: Strike=95, Dip=81, Slip=180; NP2: Strike=185, Dip=90, Slip=9. Centroid, Moment Tensor (HRV): Centroid origin time 00:01:50.1; Lat 41.01 N; Lon 29.97 E; Dep 17.0 Fix; Half-duration 20.7 sec; Principal axes (scale 10**20 Nm): (T) Val=3.00, Plg=13, Azm=45; (N) Val=-0.24, Plg=73, Azm=262; (P) Val=-2.75, Plg=10, Azm=138; Best double couple: Mo=2.9*10**20 Nm; NP1: Strike=182, Dip=74, Slip=3; NP2: Strike=91, Dip=87, Slip=164. Moment Tensor (CSEM): Dep 15; Principal axes: (T) Plg=1, Azm=216; (N) Plg=86, Azm=115; (P) Plg=4, Azm=306; Best double couple: Mo=2.4*10**20 Nm; NP1: Strike=81, Dip=88, Slip=-177; NP2: Strike=351, Dip=87, Slip=-2. Moment Tensor (OBN): Principal axes: (T) Plg=0, Azm=225; (N) Plg=74, Azm=315; (P) Plg=16, Azm=135; Best double couple: Mo=9.5*10**19 Nm; NP1: Strike=271, Dip=78, Slip=-168; NP2: Strike=179, Dip=78, Slip=-12. Scalar Moment (PPT): Mo=1.8*10**20 Nm.
17	00	05	26.5&	19.275 N	155.498 W	10				40	HAWAII. <HVO-P>. MD 4.4 (HVO). Felt at Hawaiian Volcano Observatory, Hilo, Holualoa, Kahuku Ranch, Kailua-Kona, Ocean View Estates, Papaikou and Piihonua.
17	00	08	31.2&	43.687 N	20.757 E	10				9	NORTHWESTERN BALKAN REGION. <PDG>. MD 3.7 (PDG).
17	00	15	17.7*	40.648 N	30.751 E	10 G	4.9	1.5		25	TURKEY
17	00	16	26.1	40.741 N	29.970 E	10 G	5.0	1.3		59	TURKEY
17	00	21	05.4*	40.653 N	30.435 E	10 G	4.6	1.0		27	TURKEY
17	00	30	51.5*	39.440 N	17.037 E	10 G		0.5		10	SOUTHERN ITALY. MD 3.5 (PDG).
17	00	31	03.1&	34.843 S	70.269 W	0				9	CHILE-ARGENTINA BORDER REGION. <GUC>.
17	00	31	54.1*	39.762 N	30.310 E	10 G	3.9	1.4		12	TURKEY
17	00	34	48.1*	40.722 N	29.947 E	10 G	4.1	1.4		24	TURKEY
17	00	44	21.4	40.654 N	30.646 E	10 G	4.4	1.1		57	TURKEY
17	00	47	00.3*	40.70 N	30.55 E	10 G	4.0	1.3		12	TURKEY
17	00	57	42.3	40.711 N	29.801 E	10 G	4.1	1.0		49	TURKEY
17	01	07	52.0	40.700 N	30.018 E	10 G	4.6	1.1	168	58	TURKEY
17	01	31	57.4	40.700 N	29.061 E	10 G	4.2	1.5		58	TURKEY. MD 4.5 (ISK).
17	01	33	07.4	40.648 N	29.117 E	10 G	4.6	1.3	103		TURKEY
17	01	36	34.8*	40.59 N	30.72 E	10 G	4.0	1.2		19	TURKEY
17	01	47	05.3*	40.960 N	28.985 E	10 G	4.0	1.1		10	TURKEY
17	01	48	49.4*	40.257 N	29.294 E	10 G		1.0		8	TURKEY. MD 3.4 (ISK).
17	01	53	46.2	36.263 N	21.720 E	33 N	3.9	1.2		43	SOUTHERN GREECE
17	01	57	08.7&	44.122 N	7.129 E	10				6	NORTHERN ITALY. <GEN>. ML 1.7 (GEN).

17	01	58	09.0*	41.167 N	30.865 E	10 G	3.9	1.0	18	TURKEY
17	02	16	25.3*	40.945 N	30.241 E	10 G	3.9	1.4	6	TURKEY. MD 3.5 (ISK).
17	02	23	13.7*	40.709 N	29.110 E	10 G	4.2	1.5	20	TURKEY. MD 3.6 (ISK).
17	02	26	14.9*	40.752 N	30.979 E	10 G	4.1	1.0	22	TURKEY
17	02	34	53.1	40.643 N	30.708 E	10 G	4.5	1.2	74	TURKEY
17	02	42	55.4	40.561 N	30.648 E	10 G	4.8	1.1	200	TURKEY
17	02	50	45.4	40.715 N	30.113 E	10 G	4.9	1.1	177	TURKEY. MD 4.5 (ISK).
17	02	58	04.1	10.313 N	85.713 W	33 N	4.8	1.4	63	COSTA RICA. MD 4.4 (CASC). Felt at Nosara.
17	03	08	13.9*	40.693 N	30.960 E	10 G	4.0	1.2	35	TURKEY. MD 3.9 (ISK).
17	03	14	00.3	40.616 N	30.688 E	10 G	5.1	1.0	247	TURKEY. MD 4.6 (ISK).
17	03	23	14.6	40.755 N	30.300 E	10 G	4.2	1.0	51	TURKEY. MD 3.8 (ISK).
17	03	43	05.5	40.727 N	30.389 E	10 G	4.1	0.9	53	TURKEY
17	03	47	50.6*	40.649 N	30.850 E	10 G	3.9	1.2	35	TURKEY
17	03	56	26.3&	39.741 N	122.821 W	14		16		NORTHERN CALIFORNIA. <GM-P>. ML 3.3 (GM), 3.4 (BRK).
17	04	14	22.9	40.694 N	29.194 E	10 G	4.2	1.4	40	TURKEY
17	04	16	20.9&	39.747 N	122.847 W	2		5		NORTHERN CALIFORNIA. <GM-P>. MD 2.8 (GM).
17	04	20	16.7	40.585 N	30.466 E	10 G	4.5	1.2	94	TURKEY
17	04	21	25.8&	39.744 N	122.825 W	13		8		NORTHERN CALIFORNIA. <GM-P>. MD 3.2 (GM). ML 3.1 (FRK).
17	04	24	26.0	28.953 N	130.094 E	55	4.8	1.1	72	RYUKYU ISLANDS. Felt (II JMA) on Amami-O-shima and (I JMA) on Kikai-jima.
17	04	28	11.3&	42.375 N	19.436 E	22		8		NORTHWESTERN BALKAN REGION. <PDG>. MD 2.0 (PDG).
17	04	31	14.4*	21.681 S	174.710 W	147 ?	4.8	1.2	73	TONGA ISLANDS
17	04	39	58.1	40.739 N	30.408 E	10 G	4.1	1.0	47	TURKEY
17	04	44	15.9*	40.882 N	30.833 E	10 G	4.2	0.8	31	TURKEY. MD 3.8 (ISK).
17	04	44	35.9	67.863 N	34.379 E	10 G	4.6	1.0	70	BALTICS-BELARUS-NW RUSSIA REG.
17	05	10	08.4	40.845 N	30.347 E	10 G	4.6	1.0	119	TURKEY. MD 4.4 (ISK).
17	05	45	22.4	40.739 N	30.203 E	10 G	4.1	1.4	41	TURKEY. MD 4.2 (ISK).
17	05	46	40.5&	19.196 N	65.920 W	45		4		PUERTO RICO REGION. <MPR>. MD 3.5 (MPR).
17	05	54	47.0*	40.957 N	28.482 E	10 G	3.9	1.4	18	TURKEY. MD 3.5 (ISK).
17	05	58	30.2?	40.68 N	30.60 E	10 G	3.6	1.0	6	TURKEY. MD 3.5 (ISK).
17	06	01	32.5	40.736 N	29.964 E	10 G	4.0	1.0	34	TURKEY
17	06	06	19.4*	40.716 N	31.210 E	10 G	3.5	0.5	9	TURKEY
17	06	22	43.3&	42.372 N	19.448 E	22		7		NORTHWESTERN BALKAN REGION. <PDG>. MD 1.9 (PDG).
17	06	28	00.5	40.841 N	31.218 E	10 G	4.6	1.2	91	TURKEY. MD 4.1 (ISK).
17	06	35	01.0*	40.644 N	30.617 E	10 G	4.0	1.0	22	TURKEY
17	06	35	19.0	40.674 N	30.651 E	10 G	4.6	1.0	24	TURKEY
17	07	07	31.3&	34.912 S	72.350 W	18		10		NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
17	07	21	02.2	40.741 N	30.753 E	10 G	4.2	1.0	20	TURKEY. MD 3.9 (ISK).
17	07	44	12.7*	6.065 S	80.945 W	29 D	4.4	1.1	27	NEAR COAST OF NORTHERN PERU
17	08	07	37.3&	19.157 N	68.057 W	56		7		NORTH ATLANTIC OCEAN. <MPR>. MD 4.0 (MPR).
17	08	09	19.2	40.676 N	30.840 E	10 G	4.3	1.2	30	TURKEY. MD 3.7 (ISK).
17	08	11	19.5*	40.655 N	30.741 E	10 G	4.1	1.0	23	TURKEY. MD 3.6 (ISK).
17	08	32	35.8?	40.88 N	30.60 E	10 G		1.5	8	TURKEY. MD 3.9 (ISK).
17	09	02	09.7	40.741 N	31.230 E	10 G	4.6 4.3	1.2	113	TURKEY. MD 4.4 (ISK).
17	09	23	02.7&	34.887 S	71.131 W	83		9		NEAR COAST OF CENTRAL CHILE. <GUC>.
17	09	31	56.5*	40.902 N	30.261 E	10 G	4.1	1.5	31	TURKEY. MD 3.8 (ISK).
17	09	36	17.3*	40.880 N	31.218 E	10 G	4.2	1.5	20	TURKEY. MD 3.9 (ISK).
17	09	43	04.9&	63.094 N	150.618 W	119		37		CENTRAL ALASKA. <AEIC>.
17	10	41	08.8	29.406 N	105.607 E	33 N	4.8	0.7	55	SICHUAN, CHINA. ML 4.8 (BJI).
17	10	46	41.3*	40.711 N	29.942 E	10 G	4.5	0.7	14	TURKEY
17	11	12	01.3*	40.675 N	30.706 E	10 G	3.7	0.6	8	TURKEY. MD 3.8 (ISK).
17	11	36	43.2?	40.57 N	30.20 E	10 G	4.0	1.4	10	TURKEY. MD 3.6 (ISK).
17	11	58	08.7	40.631 N	30.668 E	10 G	4.4	1.0	55	TURKEY. MD 4.1 (ISK).
17	12	24	52.8&	34.095 N	116.703 W	9		26		SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
17	13	10	23.2*	40.642 N	29.965 E	10 G	3.9	0.7	10	TURKEY. MD 3.6 (ISK).
17	13	17	46.1&	39.737 N	122.829 W	16		8		NORTHERN CALIFORNIA. <GM-P>. MD 3.1 (GM). ML 3.0 (ERK).
17	13	32	16.6*	10.849 S	27.754 E	5 G	4.5	1.3	12	ZAIRE
17	13	50	00.3&	41.320 N	20.580 E	13		16		ALBANIA. <SKO>. MD 3.2 (PDG).
17	13	55	10.5*	12.584 N	142.520 E	33 N	4.5 4.1	0.9	16	SOUTH OF MARIANA ISLANDS
17	14	13	51.9*	35.229 N	26.743 E	71 ?	3.9	1.2	12	CRETE
17	14	35	08.3?	40.98 N	30.34 E	10 G	3.7	1.5	10	TURKEY. MD 3.7 (ISK).
17	14	37	27.4*	36.232 N	22.089 E	33 N		1.1	8	SOUTHERN GREECE
17	14	41	20.5&	33.202 S	70.331 W	7		7		CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.1 (GUC).
17	14	56	20.8*	12.674 N	58.287 E	33 N	4.4	1.2	13	ARABIAN SEA
17	15	06	27.0	34.814 N	32.859 E	33 N	5.1 4.1	1.1	216	CYPRUS REGION. MD 5.0 (ISK). Some damage in the Lirassol area. Felt in southern and western Cyprus. Also felt at Nicosia.
17	15	06	39.1	18.923 N	145.485 E	229 *	4.5	0.9	51	MARIANA ISLANDS
17	15	17	46.0	40.151 N	29.012 E	10 G	3.8	1.4	23	TURKEY. MD 4.1 (ISK).
17	15	43	19.5*	36.386 N	70.857 E	235 *	3.2	0.9	12	HINDU KUSH REGION, AFGHANISTAN
17	16	01	14.7&	43.805 N	7.697 E	6		19		NEAR SOUTH COAST OF FRANCE. <GEN>. ML 2.4 (GEN), 2.3 (STR).
17	16	12	08.6	21.948 S	65.847 W	271	4.1	1.1	26	SOUTHERN BOLIVIA
17	16	12	30.1&	42.070 S	173.790 E	11		11		SOUTH ISLAND, NEW ZEALAND. <WEL>. ML 4.6 (WEL).
17	16	21	05.6&	54.920 N	160.360 W	28	4.5		81	ALASKA PENINSULA. <AEIC>. ML 4.3 (AEIC), 4.2 (PMR). Felt (III) at Sand Point.
17	16	24	09.4&	44.909 N	6.719 E	3		22		FRANCE. <GEN>. ML 2.4 (GEN), 2.1 (LDG).
17	17	04	39.3&	63.286 N	151.270 W	10	3.0		72	CENTRAL ALASKA. <AEIC>. ML 3.5 (AEIC), 3.8 (PMR).
17	17	09	13.2*	40.687 N	30.425 E	10 G	3.8	1.0	15	TURKEY. MD 3.7 (ISK).
17	17	34	00.1&	33.985 N	116.986 W	9		5		SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
17	18	30	31.0&	32.306 S	71.453 W	41		11		NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
17	18	35	24.1*	40.597 N	29.086 E	10 G		1.0	15	TURKEY. MD 4.0 (ISK).
17	18	52	40.2&	33.135 S	70.384 W	100		10		CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.8 (GUC).
17	19	13	22.7	1.795 S	122.585 E	50 *	4.5	1.4	23	SULAWESI, INDONESIA
17	19	43	56.4&	44.000 N	6.000 E	2		18		FRANCE. <LDG>. ML 2.1 (STR), 2.0 (LDG).
17	19	56	13.7	15.941 N	119.391 E	33 N	4.8	1.0	41	LUZON, PHILIPPINE ISLANDS
17	20	30	40.9&	40.721 N	29.287 E	19	3.8		32	TURKEY. <ISK>. MD 4.3 (ISK).
17	20	40	35.4*	18.708 S	168.941 E	155	4.7	0.7	17	VANUATU ISLANDS
17	21	14	11.6*	40.678 N	30.647 E	10 G	3.9	1.2	18	TURKEY. MD 3.9 (ISK).
17	21	23	30.3&	36.620 N	7.750 W	29		10		STRAIT OF GIBRALTAR. <MDD>. mbLg 2.2 (MDD).
17	21	34	41.2&	31.628 S	70.091 W	122		17		CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.1 (GUC).
17	21	37	12.9&	35.040 N	5.510 W	14		12		STRAIT OF GIBRALTAR. <MDD>. mbLg 2.8 (MDD).
17	21	47	38.8*	40.763 N	30.079 E	10 G	4.1	1.2	12	TURKEY. MD 3.6 (ISK).
17	22	12	47.9&	40.759 N	30.588 E	6	4.2		27	TURKEY. <ISK>. MD 4.4 (ISK).

17	22	22	20.6*	39.215 N	20.984 E	10 G	3.6	1.5	30	GREECE-ALBANIA BORDER REGION
17	22	38	25.9	48.590 N	128.499 W	10 G	3.8	0.9	16	VANCOUVER ISLAND REGION. ML 3.1 (PGC).
17	22	52	34.1*	39.269 N	27.569 E	10 G	3.8	1.4	13	TURKEY. MD 3.7 (ISK).
17	22	52	53.0?	37.24 N	24.10 E	33 N	3.9	0.8	12	SOUTHERN GREECE
17	23	04	42.1&	46.800 N	5.700 E	2			10	FRANCE. <LDG>. ML 1.9 (LDG).
17	23	04	45.2&	35.530 N	5.170 W	0			18	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.6 (MDD).
18	00	15	53.8	40.127 N	142.480 E	55 *	4.9 4.2	0.9	67	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) in eastern Aomori and northern Iwate; (I JMA) in northern Akita and other parts of Iwate Prefectures.
18	00	21	54.5?	36.13 N	1.79 E	10 G		1.1	14	NORTHERN ALGERIA. mbLg 2.1 (MDD).
18	00	55	57.4*	3.383 S	130.542 E	33 N	4.3	1.5	13	SERAM, INDONESIA
18	01	04	24.4	40.649 N	30.915 E	10 G	4.1	0.9	33	TURKEY. MD 3.8 (ISK).
18	01	06	18.9&	37.907 N	122.686 W	7	4.9		146	CENTRAL CALIFORNIA. <GM-P>. Mw 4.5 (BRK). ML 5.0 (GM), 5.0 (BRK). Felt (V) at Bolinas, Fairfax, Larkspur, Mill Valley, Olema, Richmond, Rohnert Park, San Anselmo, San Francisco, San Geronimo, San Rafael, Stinson Beach, Tiburon and Woodacre; (IV) at Antioch, Benicia, Berkeley, Bodega Bay, Canyon, Corte Madera, Danville, El Granada, Guerneville, Inverness, Isleton, Lafayette, Monte Rio, Mount Saint Helena, Mountain View, Napa, Nicasio, Novato, Oakland, Palo Alto, Pennngrove, Petaluma, Pittsburg, Point Reyes Station, Redwood City, Rutherford, Sacramento, Saint Helena, San Bruno, Sausalito, Sebastapol, Stanford, Suisun City, Sunnyvale, Vacaville, Vallejo and Walnut Creek. Felt along the coast as far north as Annapolis and south to Santa Cruz. Moment Tensor (BRK): Dep 8; Principal axes (scale 10**15 Nm): (T) Val=7.25, Plg=74, Azm=317; (N) Val=0.00, Plg=16, Azm=129; (P) Val=-7.25, Plg=2, Azm=220; Best double couple: Mo=7.3*10**15 Nm; NP1: Strike=115, Dip=49, Slip=69; NP2: Strike=325, Dip=45, Slip=112.
18	01	16	48.4	37.341 S	177.333 E	155 D	5.6	1.2	174	OFF E. COAST OF N. ISLAND, N.Z. Mw 5.7 (GS), 5.7 (HRV). Items knocked from shelves at Opotiki. Also felt at Gisborne and Whakatane. Moment Tensor (GS): Dep 141; Principal axes (scale 10**17 Nm): (T) Val=4.74, Plg=67, Azm=279; (N) Val=-0.93, Plg=12, Azm=40; (P) Val=-3.81, Plg=19, Azm=134; Best double couple: Mo=4.3*10**17 Nm; NP1: Strike=244, Dip=28, Slip=117; NP2: Strike=34, Dip=65, Slip=76. Centroid, Moment Tensor (HRV): Centroid origin time 01:16:54.3; Lat 36.91 S; Lon 177.60 E; Dep 153.0; Half-duration 1.8 sec; Principal axes (scale 10**17 Nm): (T) Val=4.69, Plg=70, Azm=299; (N) Val=-0.22, Plg=4, Azm=38; (P) Val=-4.47, Plg=20, Azm=130; Best double couple: Mo=4.6*10**17 Nm; NP1: Strike=226, Dip=25, Slip=98; NP2: Strike=37, Dip=65, Slip=86.
18	01	49	22.3	11.435 S	76.448 W	95 D	4.7	0.9	66	CENTRAL PERU. Felt (IV) at Chosica and Lima.
18	02	27	41.1&	33.944 S	71.263 W	48			14	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
18	03	03	07.1&	43.369 N	17.837 E	9			13	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.8 (PDG).
18	03	54	35.5	17.799 N	61.486 W	33 N	3.9	0.7	19	LEEWARD ISLANDS. MD 3.7 (TRN).
18	04	33	56.1&	36.600 N	6.910 W	40			24	STRAIT OF GIBRALTAR. <MDD>.
18	05	59	44.1*	40.631 N	30.765 E	10 G	3.8	0.3	9	TURKEY. MD 3.5 (ISK).
18	06	24	35.7&	42.050 N	21.120 E	18			11	NORTHWESTERN BALKAN REGION. <SKO>. MD 2.9 (PDG).
18	07	50	05.6&	34.396 N	116.469 W	4			27	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
18	07	50	07.9	30.855 S	71.967 W	33 N	5.1	1.4	51	NEAR COAST OF CENTRAL CHILE. MD 4.9 (GUC). Felt (IV) at Combarbala, Ovalle and Punitaqui; (III) at Hurtado, Monte Patria and Salamanca; (II) at Iilapel and Paihuano.
18	08	10	48.5&	17.796 N	66.664 W	10			6	PUERTO RICO REGION. <MPR>. ML 3.1 (MPR).
18	08	20	32.4&	18.575 N	68.878 W	120			4	MONA PASSAGE. <MPR>. MD 3.4 (MPR).
18	08	23	06.6&	17.804 N	66.677 W	11			6	PUERTO RICO REGION. <MPR>. ML 3.3 (MPR).
18	08	32	25.1&	17.835 N	66.677 W	7			7	PUERTO RICO REGION. <MPR>. ML 3.5 (MPR).
18	08	54	16.5&	38.150 S	176.620 E	5			8	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.7 (WEL). Felt at Kawerau.
18	09	12	34.9?	53.21 N	171.55 E	33 N	4.0	0.7	6	NEAR ISLANDS, ALEUTIAN ISLANDS
18	09	22	24.2&	34.091 S	70.706 W	89			13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
18	09	24	02.1	41.417 S	88.404 W	10 G	4.5 4.3	0.7	21	WEST CHILE RISE
18	09	38	19.4&	32.382 S	71.369 W	42			10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.2 (GUC).
18	09	54	47.1&	46.800 N	4.700 E	4			8	FRANCE. <LDG>. ML 1.9 (LDG).
18	10	13	28.0	85.623 N	81.873 E	10 G	4.3	0.9	13	NORTH OF SEVERNAYA ZEMLYA
18	10	23	23.3&	15.012 N	60.417 W	30			5	LEEWARD ISLANDS. <FDF>. MG 2.4 (FDF).
18	10	28	30.1*	15.592 S	173.171 W	33 N	4.6	0.7	44	TONGA ISLANDS
18	10	52	30.1*	34.841 N	24.189 E	33 N	4.0	1.0	17	CRETE
18	11	01	52.2*	32.939 S	138.579 E	10 G	4.2	1.1	11	NEAR SOUTH COAST OF AUSTRALIA. Felt at Gladstone and Peterborough.
18	11	03	35.0&	47.200 N	5.500 E	6			10	FRANCE. <LDG>. ML 2.2 (LDG).
18	11	11	20.5	39.549 S	174.248 E	228	4.1	0.6	33	NORTH ISLAND, NEW ZEALAND. Felt at Wellington.
18	11	30	44.5*	40.673 N	30.705 E	10 G	3.9	0.9	11	TURKEY
18	11	48	34.4&	31.609 S	72.237 W	17			8	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
18	12	00	46.3	58.793 N	142.956 W	10 G		1.1	13	GULF OF ALASKA. ML 3.9 (PMR).
18	12	36	51.5*	48.739 N	8.941 E	10 G		0.1	5	GERMANY. ML 2.1 (STR).
18	14	30	58.1*	46.267 N	13.558 E	10 G		1.3	7	AUSTRIA. ML 2.3 (VIE), 2.0 (TRI), 1.8 (LJU). Felt (IV) at Dreznica, Slovenia.
18	15	23	04.4*	45.940 N	143.117 E	337 *	3.8	1.1	15	HOKKAIDO, JAPAN REGION
18	15	34	15.7*	40.862 N	30.675 E	10 G	4.0	1.1	20	TURKEY. MD 3.8 (ISK).
18	17	05	35.4*	21.557 S	174.613 W	33 N	4.5	1.0	13	TONGA ISLANDS
18	17	12	52.2&	35.382 S	71.490 W	95			10	CENTRAL CHILE. <GUC>. MD 3.2 (GUC).
18	17	30	56.6*	26.532 N	59.722 E	33 N	4.6	1.0	31	SOUTHERN IRAN
18	17	50	26.4*	43.092 N	146.518 E	72 ?	3.9	0.4	9	KURIL ISLANDS
18	18	53	29.2&	63.365 N	150.206 W	0			8	CENTRAL ALASKA. <AEIC>. ML 2.7 (PMR).
18	19	36	51.6*	8.310 S	112.514 E	33 N	4.8	0.7	7	JAWA, INDONESIA. Felt (II) at Sawahan.
18	19	39	53.6&	59.001 N	152.091 W	46			12	SOUTHERN ALASKA. <AEIC>. ML 3.5 (PMR).
18	19	51	23.7&	32.739 S	70.154 W	106			10	CHILE-ARGENTINA BORDER REGION. <GUC>.
18	20	22	49.9&	37.500 N	3.910 W	14			10	SPAIN. <MDD>. mbLg 2.2 (MDD).
18	21	15	43.6	10.757 S	113.360 E	33 N	4.7 4.3	1.4	32	SOUTH OF JAWA, INDONESIA

18	21	15	52.0?	40.64	N	31.04	E	10	G	4.1	1.4	24	TURKEY. MD 3.8 (ISK).	
18	22	37	35.4	46.250	N	13.744	E	10	G		0.8	10	AUSTRIA. ML 2.2 (VIE).	
18	23	29	53.2*	36.110	N	22.303	E	33	N	3.7	1.5	38	SOUTHERN GREECE	
18	23	38	27.8&	39.610	S	174.450	E	211				12	NORTH ISLAND, NEW ZEALAND. <WEL>.	
18	23	51	00.3&	34.000	S	70.319	W	116				12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).	
19	00	11	07.2&	32.620	S	71.476	W	22				9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).	
19	00	25	46.6&	37.870	N	1.360	W	0	G			16	SPAIN. <MDD>. mbLg 2.4 (MDD).	
19	00	33	37.5&	54.250	N	164.672	W	70				13	UNIMAK ISLAND REGION. <AEIC>.	
19	00	45	49.5*	21.862	S	178.463	W	472 ?		4.5	0.6	27	FIJI ISLANDS REGION	
19	00	48	27.5&	44.679	N	7.381	E	13				9	NORTHERN ITALY. <GEN>. ML 2.1 (GEN).	
19	01	08	50.7&	32.211	S	71.871	W	23				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).	
19	01	30	44.4&	36.141	N	89.687	W	12				10	NEW MADRID, MISSOURI REGION. <TEIC>. MD 2.3 (TEIC).	
19	01	58	07.5&	32.614	S	71.534	W	14				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).	
19	02	21	27.3	2.894	S	78.077	W	33 N	4.5	4.0	1.0	28	ECUADOR	
19	02	53	29.9&	34.216	S	70.318	W	122				14	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.2 (GUC).	
19	04	24	20.9*	52.189	S	13.981	E	10	G	4.8	4.4	1.0	22	SOUTHWEST OF AFRICA
19	04	33	15.3	38.303	N	46.452	E	33 N	4.6	3.8	1.3	44	ARMENIA-AZERBAIJAN-IRAN BORD REG. Felt at Varzaqan, Iran.	
19	05	13	27.9&	32.874	S	70.975	W	70				13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.2 (GUC).	
19	08	06	58.7	2.185	N	126.756	E	80 *	4.9		1.3	32	NORTHERN MOLUCCA SEA. Mw 5.2 (HRV).	
													Centroid, Moment Tensor (HRV): Centroid origin time	
													08:07:12.1; Lat 2.73 N; Lon 126.49 E; Dep 31.3; Half-	
													duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)	
													Val=6.92, Plg=32, Azm=235; (N) Val=-0.41, Plg=39, Azm=113;	
													(P) Val=-6.51, Plg=34, Azm=350; Best double couple:	
													Mo=6.7*10**16 Nm; NP1: Strike=22, Dip=39, Slip=-1; NP2:	
													Strike=112, Dip=89, Slip=-129.	
19	08	12	57.2?	36.06	N	22.70	E	54	D	3.6	1.3	12	SOUTHERN GREECE	
19	08	56	11.4&	34.587	S	72.168	W	26				6	NEAR COAST OF CENTRAL CHILE. <GUC>.	
19	09	06	06.8?	10.78	N	88.24	W	33 N	4.4		1.4	9	OFF COAST OF CENTRAL AMERICA	
19	09	45	52.2&	43.341	N	19.287	E	10				9	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.4 (PDG).	
19	09	51	52.6*	31.101	S	68.677	W	100	G		1.0	14	SAN JUAN PROVINCE, ARGENTINA. MD 3.6 (GUC).	
19	10	58	43.5?	29.15	N	51.88	E	33 N	4.3		0.9	22	SOUTHERN IRAN	
19	11	20	22.3&	43.191	N	19.531	E	0				9	NORTHWESTERN BALKAN REGION. <PDG>. MD 1.8 (PDG).	
19	13	00	58.7&	32.138	S	71.646	W	19				11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).	
19	13	04	12.5	40.619	N	30.769	E	10	G	4.7	3.8	1.2	137	TURKEY. MD 4.0 (ISK). Felt at Istanbul.
19	13	16	54.0&	47.610	N	123.150	W	47				23	WASHINGTON. <SEA-P>. MD 3.1 (SEA).	
19	14	15	58.8	40.608	N	29.200	E	10	G	4.5	3.5	1.4	109	TURKEY. MD 3.9 (ISK).
19	14	24	35.3?	40.74	N	29.50	E	10	G		1.3	8	TURKEY	
19	14	47	55.7*	40.493	N	29.019	E	10	G	3.9	0.5	7	TURKEY. MD 3.9 (ISK).	
19	15	12	51.0&	48.120	N	114.980	W	14				39	MONTANA. <BUT-P>. ML 3.4 (BUT), 3.4 (GS), 3.7 (PGC).	
19	15	17	45.0	40.618	N	29.138	E	10	G	4.9	4.7	1.2	169	TURKEY. Mw 5.2 (HRV). MD 5.0 (ISK). Felt at Istanbul.
													Centroid, Moment Tensor (HRV): Centroid origin time	
													15:17:47.3; Lat 40.68 N; Lon 29.10 E; Dep 15.0 Fix; Half-	
													duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)	
													Val=5.62, Plg=4, Azm=204; (N) Val=1.29, Plg=21, Azm=295;	
													(P) Val=-6.91, Plg=69, Azm=104; Best double couple:	
													Mo=6.3*10**16 Nm; NP1: Strike=273, Dip=45, Slip=-120; NP2:	
													Strike=133, Dip=52, Slip=-63.	
19	15	26	22.2	40.652	N	29.152	E	10	G	3.8	1.0	25	TURKEY. MD 3.8 (ISK).	
19	16	40	25.6&	36.237	N	120.797	W	9				9	CENTRAL CALIFORNIA. <GM-P>. MD 2.7 (GM). ML 2.9 (PAS).	
19	17	01	51.0&	37.360	N	117.100	W	6				8	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.8 (REN).	
19	17	14	53.6	23.913	N	114.455	E	10	G	4.4	0.9	22	NEAR SOUTHEASTERN COAST OF CHINA. Felt in northern Hcng Kong.	
19	17	36	03.8	6.969	S	129.136	E	167 *	4.5		0.8	26	BANDA SEA	
19	18	07	07.5?	48.88	N	129.68	W	10	G	3.9	0.9	19	VANCOUVER ISLAND REGION	
19	18	24	11.0?	59.71	S	32.78	W	33 N	4.7		1.2	12	SCOTIA SEA	
19	18	34	49.1*	40.325	N	31.323	E	10	G	4.0	1.2	25	TURKEY. MD 3.7 (ISK).	
19	18	38	02.6&	17.820	N	66.681	W	9				9	PUERTO RICO REGION. <MPR>. ML 3.8 (MPR).	
19	18	40	49.1&	17.812	N	66.676	W	11				5	PUERTO RICO REGION. <MPR>. ML 3.2 (MPR).	
19	19	01	55.7&	14.180	N	61.069	W	14				5	WINDWARD ISLANDS. <FDF>. MG 2.8 (FDF).	
19	19	05	44.1&	42.350	N	3.100	E	2	G			12	PYRENEES. <STR>. ML 2.5 (STR), 2.5 (LDG).	
19	19	07	50.8*	20.268	S	67.736	E	10	G	5.0	1.1	16	MID-INDIAN RIDGE	
19	19	08	28.0&	37.390	N	117.080	W	4				17	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.5 (REN). ML	
													3.1 (GS).	
19	19	09	39.3*	20.381	S	67.640	E	10	G	4.8	1.1	18	MID-INDIAN RIDGE	
19	19	37	06.7*	20.313	S	67.562	E	10	G	4.3	1.0	12	MID-INDIAN RIDGE	
19	19	40	08.2*	20.291	S	67.641	E	10	G	4.6	1.2	14	MID-INDIAN RIDGE	
19	19	43	48.5*	20.242	S	67.623	E	10	G	4.7	1.1	10	MID-INDIAN RIDGE	
19	20	15	26.4&	53.588	N	163.370	W	25				15	UNIMAK ISLAND REGION. <AEIC>. ML 3.2 (AEIC).	
19	20	42	49.9?	20.57	S	67.93	E	10	G	4.4	0.6	9	MID-INDIAN RIDGE	
19	20	46	58.4	39.280	N	69.192	E	33 N	4.5	3.8	0.8	66	TAJIKISTAN	
19	21	02	51.6&	37.140	N	3.580	W	0	G			5	SPAIN. <MDD>. mbLg 1.8 (MDD).	
19	21	49	50.8?	20.44	S	68.02	E	10	G		1.4	7	MID-INDIAN RIDGE	
19	22	16	03.2	6.641	S	130.390	E	67 *	4.7		1.3	23	BANDA SEA	
19	22	34	11.7	43.304	N	146.828	E	33 N	4.7	4.2	0.7	88	KURIL ISLANDS. Felt (III) at Yuzhno-Kurilsk.	
19	23	50	48.1&	33.022	S	70.052	W	122				12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.0 (GUC).	
20	00	03	01.9	40.720	N	29.994	E	10	G	4.1	1.2	36	TURKEY. MD 3.9 (ISK).	
20	01	05	15.2&	32.887	S	68.980	W	22				9	MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 3.3 (GUC).	
20	01	10	31.4&	61.036	N	150.477	W	37				33	SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC), 2.6 (PMR).	
20	01	25	01.4*	20.409	S	67.755	E	10	G	4.7	4.8	1.1	30	MID-INDIAN RIDGE. Mw 5.2 (HRV).
													Centroid, Moment Tensor (HRV): Centroid origin time	
													01:25:08.5; Lat 20.21 S; Lon 67.49 E; Dep 15.0 Fix; Half-	
													duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)	
													Val=7.79, Plg=26, Azm=16; (N) Val=-1.58, Plg=56, Azm=153;	
													(P) Val=-6.21, Plg=20, Azm=276; Best double couple:	
													Mo=7.0*10**16 Nm; NP1: Strike=55, Dip=57, Slip=176; NP2:	
													Strike=147, Dip=86, Slip=33.	
20	02	04	00.6	40.809	N	119.210	W	5	G		0.9	15	NEVADA. ML 3.2 (GS).	
20	02	49	17.3*	20.229	S	67.881	E	10	G	4.6	0.4	8	MID-INDIAN RIDGE	
20	02	57	21.9	36.374	N	70.549	E	211	D	4.1	0.9	43	HINDU KUSH REGION, AFGHANISTAN	
20	03	10	43.5	51.681	N	16.268	E	5	G		0.8	30	POLAND. ML 3.9 (GRF), 3.6 (VIE), 3.4 (FUR).	
20	03	43	08.2*	20.529	S	67.980	E	10	G	4.9	0.8	14	MID-INDIAN RIDGE	
20	05	05	55.8	19.831	S	70.588	W	55 *	4.5		1.0	23	NEAR COAST OF NORTHERN CHILE. Felt (III) at Pisagua and Pozo	
													Almonte; (II) at Arica, Huara, Iquique and La Tirana.	

20	05	20	36.3&	37.920 S	176.700 E	164					12	NORTH ISLAND, NEW ZEALAND. <WEL>.
20	06	06	19.5&	58.413 N	154.159 W	85	3.3				45	ALASKA PENINSULA. <AEIC>.
20	06	19	16.5?	44.61 N	84.68 E	33 N	3.9		1.4		7	NORTHERN XINJIANG, CHINA
20	06	20	29.2&	10.454 N	61.894 W	15					6	TRINIDAD. <TRN>. MD 3.2 (TRN).
20	07	29	56.4*	26.089 S	179.631 E	500 G	4.6		1.1		27	SOUTH OF FIJI ISLANDS
20	07	34	23.6&	34.071 S	70.184 W	9					7	CHILE-ARGENTINA BORDER REGION. <GUC>.
20	08	32	19.0&	37.450 N	117.100 W	0					13	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.1 (REN).
20	08	45	54.5&	59.165 N	150.311 W	64					48	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.9 (AEIC).
20	09	28	54.7	40.580 N	29.274 E	10 G	4.5		1.1		72	TURKEY. MD 4.2 (ISK).
20	09	31	58.4&	59.827 N	153.295 W	118					37	SOUTHERN ALASKA. <AEIC>.
20	09	48	36.7*	40.694 N	29.708 E	10 G	4.0		1.5		14	TURKEY. MD 3.8 (ISK).
20	09	58	14.8&	44.340 N	7.460 E	5 G					17	NORTHERN ITALY. <STR>. ML 2.4 (LDG), 2.2 (STR).
20	10	00	16.8	40.573 N	30.677 E	10 G	4.3		1.0		47	TURKEY. MD 4.0 (ISK).
20	10	02	21.1&	9.044 N	84.159 W	20 G	6.1 6.9				542	COSTA RICA. <CASC>. Mw 6.9 (HRV), 6.8 (GS). Me 6.4 (GS). ML 6.1 (CASC). Some damage in western Panama. Felt in southern Nicaragua and throughout Costa Rica. Broadband Source Parameters (GS): Dep 19; NP1: Strike=115, Dip=72, Slip=95; NP2: Strike=279, Dip=19, Slip=75; Radiated energy 9.3*10**13 Nm. A small onset is followed by a larger event about 2 seconds later. Depth based on larger event. Moment Tensor (GS): Dep 25; Principal axes (scale 10**19 Nm): (T) Val=1.63, Plg=67, Azm=23; (N) Val=0.00, Plg=4, Azm=122; (P) Val=-1.63, Plg=23, Azm=214; Best double couple: Mo=1.6*10**19 Nm; NP1: Strike=312, Dip=23, Slip=101; NP2: Strike=121, Dip=68, Slip=86. Centroid, Moment Tensor (HRV): Centroid origin time 10:02:31.0; Lat 9.28 N; Lon 84.10 W; Dep 24.0 Bdy; Half-duration 7.7 sec; Principal axes (scale 10**19 Nm): (T) Val=2.61, Plg=70, Azm=10; (N) Val=-0.02, Plg=5, Azm=115; (P) Val=-2.59, Plg=19, Azm=207; Best double couple: Mo=2.6*10**19 Nm; NP1: Strike=306, Dip=27, Slip=102; NP2: Strike=112, Dip=64, Slip=84. Scalar Moment (PPT): Mo=2.6*10**19 Nm.
20	10	26	22.2&	9.072 N	83.779 W	20 G	4.0				21	COSTA RICA. <CASC>. MD 4.4 (CASC).
20	10	42	17.6&	8.932 N	83.965 W	20 G	5.2				105	COSTA RICA. <CASC>. MD 5.2 (CASC).
20	11	20	41.9&	42.740 N	20.235 E	14					10	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.3 (PDG).
20	11	52	01.9&	33.851 S	72.096 W	28					11	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
20	12	02	05.6&	34.199 S	70.138 W	9					11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.5 (GUC).
20	12	08	22.0&	42.390 N	3.070 E	10 G					20	PYRENEES. <STR>. ML 2.9 (LDG), 2.8 (STR).
20	12	16	00.5&	34.186 S	70.110 W	9					8	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.0 (GUC).
20	12	19	36.7&	33.858 S	72.108 W	25					10	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
20	12	21	42.8&	15.275 N	94.446 W	34	3.8				8	NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 4.3 (UNM).
20	12	32	42.2&	33.857 S	72.086 W	28					11	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
20	13	03	14.1*	12.553 N	142.694 E	25 D			1.0		11	SOUTH OF MARIANA ISLANDS
20	13	15	39.8&	8.916 N	84.003 W	10 G			0.7		11	OFF COAST OF COSTA RICA
20	13	30	26.2&	53.770 N	163.927 W	25					11	UNIMAK ISLAND REGION. <AEIC>. ML 3.6 (AEIC).
20	13	50	25.6&	44.785 N	112.788 W	16	5.1 4.5				257	EASTERN IDAHO. <BUT-P>. MD 5.1 (BUT). Felt at Butte, Dell, Lima and much of southwestern Montana. Felt as far as Billings, Montana and Idaho Falls, Idaho.
20	14	21	45.1*	52.251 N	171.697 W	76 ?	3.3		0.6		7	FOX ISLANDS, ALEUTIAN ISLANDS
20	14	40	55.8&	8.898 N	83.968 W	20 G	4.2				24	COSTA RICA. <CASC>. ML 4.5 (CASC).
20	14	59	12.6&	8.964 N	84.025 W	0		</				

20	21	22	50.38	9.062	N	83.957	W	10	G	0.9	12	COSTA RICA	
20	21	33	20.6	13.992	N	90.736	W	92	D	4.6	1.3	82 NEAR COAST OF GUATEMALA. MD 4.6 (CASC).	
20	22	40	59.78	8.758	N	84.119	W	20	G	4.7	65 OFF COAST OF COSTA RICA. <CASC>. ML 4.7 (CASC).		
20	22	44	15.58	8.785	N	83.979	W	20	G	4.7	18 COSTA RICA. <CASC>. ML 4.8 (CASC).		
20	23	17	51.17	22.16	N	121.37	E	134	*	4.0	0.6	10 TAIWAN REGION	
20	23	17	51.28	37.730	N	2.170	W	0	G		9 SPAIN. <MDD>. mbLg 1.6 (MDD).		
20	23	18	09.18	58.856	N	151.783	W	59			24 KODIAK ISLAND REGION. <AEIC>. ML 2.9 (AEIC).		
20	23	28	58.08	37.440	N	117.080	W	8			8 CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.1 (REN).		
20	23	46	55.98	43.541	N	21.500	E	9			14 NORTHWESTERN BALKAN REGION. <PDG>. MD 2.9 (PDG).		
21	00	09	07.7	36.516	N	70.595	E	163	D	4.5	0.9	80 HINDU KUSH REGION, AFGHANISTAN	
21	00	20	31.48	9.020	N	84.121	W	4			13 COSTA RICA. <CASC>. ML 4.0 (CASC).		
21	00	40	25.77	41.13	N	29.52	E	10	G	3.3	1.4	12 TURKEY	
21	01	04	01.37	22.58	S	170.96	E	33	N	4.3	0.5	8 LOYALTY ISLANDS REGION	
21	02	04	51.98	44.787	N	112.753	W	12			21 EASTERN IDAHO. <BUT-P>. ML 3.3 (BUT).		
21	02	13	15.97	15.83	S	176.44	W	33	N	4.5	1.3	22 FIJI ISLANDS REGION	
21	02	38	52.57	6.20	S	147.02	E	100	*	4.3	1.0	9 EASTERN NEW GUINEA REG., P.N.G.	
21	02	58	05.3	20.389	S	173.757	W	33	N	5.4	5.7	123 TONGA ISLANDS. Mw 5.7 (HRV).	
Centroid, Moment Tensor (HRV): Centroid origin time													
02:58:09.4; Lat 20.57 S; Lon 172.96 W; Dep 15.0 Bdy; Half-													
duration 1.7 sec; Principal axes (scale 10**17 Nm): (T)													
Val=3.59, Plg=76, Azm=272; (N) Val=0.32, Plg=4, Azm=20; (P)													
Val=-3.91, Plg=13, Azm=112; Best double couple:													
Mo=3.8*10**17 Nm; NP1: Strike=208, Dip=32, Slip=98; NP2:													
Strike=18, Dip=58, Slip=85.													
21	03	00	15.58	44.920	N	6.595	E	0			19 FRANCE. <GEN>. ML 2.5 (GEN), 2.5 (STR).		
21	03	13	45.08	9.004	N	84.060	W	20	G		11 COSTA RICA. <CASC>. MD 4.4 (CASC).		
21	03	21	10.98	16.023	N	97.616	W	16			7 OAXACA, MEXICO. <UNM>. MD 3.8 (UNM).		
21	03	36	05.9	23.903	S	69.277	W	93	D	4.6	1.4	44 NORTHERN CHILE	
21	04	37	56.88	33.915	S	72.086	W	11			9 OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).		
21	04	45	20.68	9.056	N	84.076	W	20	G		11 COSTA RICA. <CASC>. MD 4.5 (CASC).		
21	05	40	23.98	63.132	N	151.200	W	1			8 CENTRAL ALASKA. <AEIC>. ML 3.7 (PMR).		
21	06	02	24.38	33.634	S	70.172	W	121			9 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).		
21	06	25	37.5	20.436	S	173.714	W	33	N	4.9	4.6	1.0	55 TONGA ISLANDS
21	06	34	52.77	31.16	S	68.03	W	10	G		1.3	10 SAN JUAN PROVINCE, ARGENTINA	
21	09	07	27.17	19.89	S	67.22	E	10	G	4.2	1.3	8 MID-INDIAN RIDGE	
21	10	01	27.5*	40.658	N	29.293	E	10	G	3.8	1.3	18 TURKEY	
21	10	15	57.08	38.400	N	0.520	W	0	G		8 SPAIN. <MDD>. mbLg 2.2 (MDD). Felt (II) at San Juan de		
Alicante.													
21	10	49	51.08	8.918	N	83.938	W	24		5.4	5.4	323 COSTA RICA. <CASC>. Mw 5.8 (HRV). MD 5.1 (CASC).	
Centroid, Moment Tensor (HRV): Centroid origin time													
10:49:57.1; Lat 9.07 N; Lon 83.97 W; Dep 15.0 Bdy; Half-													
duration 1.9 sec; Principal axes (scale 10**17 Nm): (T)													
Val=5.37, Plg=69, Azm=20; (N) Val=0.18, Plg=1, Azm=113; (P)													
Val=-5.55, Plg=21, Azm=203; Best double couple:													
Mo=5.5*10**17 Nm; NP1: Strike=295, Dip=24, Slip=93; NP2:													
Strike=112, Dip=66, Slip=89.													
21	11	04	12.5	40.327	N	19.991	E	5	G		1.0	17 ALBANIA. MD 3.4 (PDG).	
21	11	26	13.88	8.959	N	84.115	W	10			19 OFF COAST OF COSTA RICA. <CASC>. ML 4.5 (CASC).		
21	11	53	57.48	61.157	N	152.117	W	109			6 SOUTHERN ALASKA. <AEIC>.		
21	11	58	05.6*	31.746	S	69.206	W	150	G		0.8	11 SAN JUAN PROVINCE, ARGENTINA. MD 3.8 (GUC).	
21	12	05	12.08	36.985	N	10.984	W	10	G		0.6	25 NORTH ATLANTIC OCEAN. mbLg 3.0 (MDD).	
21	12	12	40.0	40.828	N	119.182	W	5	G		1.0	12 NEVADA. ML 3.1 (GS).	
21	12	48	08.68	8.928	N	84.099	W	20	G	4.2	21 OFF COAST OF COSTA RICA. <CASC>. ML 4.5 (CASC).		
21	13	04	21.58	8.860	N	84.147	W	20	G		10 OFF COAST OF COSTA RICA. <CASC>. MD 4.0 (CASC).		
21	14	39	36.2*	31.463	S	68.789	W	100	G		1.2	14 SAN JUAN PROVINCE, ARGENTINA. MD 3.5 (GUC).	
21	14	51	02.98	35.220	N	5.890	W	16			13 STRAIT OF GIBRALTAR. <MDD>. mbLg 2.9 (MDD).		
21	17	11	35.5*	5.689	N	126.471	E	33	N	4.7	1.4	27 MINDANAO, PHILIPPINE ISLANDS	
21	17	35	33.08	19.403	N	98.816	W	10			5 CENTRAL MEXICO. <UNM>. MD 3.3 (UNM).		
21	17	46	54.0*	52.864	S	27.315	E	10	G	4.8	0.9	19 SOUTH OF AFRICA	
21	18	14	29.0*	17.559	S	167.041	E	33	N	4.4	1.2	22 VANUATU ISLANDS	
21	18	44	16.88	44.810	N	112.752	W	9			23 EASTERN IDAHO. <BUT-P>. ML 3.2 (BUT).		
21	19	00	08.77	43.28	N	145.44	E	33	N	4.2	0.6	7 HOKKAIDO, JAPAN REGION. Felt (I JMA) in eastern Hokkaido.	
21	19	01	24.77	72.68	N	5.87	E	10	G	4.0	1.4	7 NORWEGIAN SEA	
21	19	17	55.07	19.34	S	177.88	W	600	G	4.4	0.4	8 FIJI ISLANDS REGION	
21	19	29	01.3*	2.550	N	128.600	E	224	*	4.6	1.1	25 HALMAHERA, INDONESIA	
21	19	37	01.7*	15.825	S	172.943	W	33	N	4.5	1.1	20 SAMOA ISLANDS REGION	
21	19	47	19.08	59.263	N	153.221	W	80			38 SOUTHERN ALASKA. <AEIC>.		
21	19	56	26.08	37.400	N	117.120	W	6			10 CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.9 (REN).		
21	20	38	31.8*	8.661	S	147.982	E	126		4.3	0.8	13 EASTERN NEW GUINEA REG., P.N.G.	
21	21	03	59.7*	37.731	N	70.200	E	33	N	3.9	1.1	14 AFGHANISTAN-TAJIKISTAN BORD REG.	
21	21	51	11.4	58.311	S	13.196	W	10	G	5.4	5.6	1.0	76 SOUTHWESTERN ATLANTIC OCEAN. Mw 6.2 (GS), 6.2 (HRV).
Moment Tensor (GS): Dep 15; Principal axes (scale 10**18													
Nm): (T) Val=2.40, Plg=12, Azm=314; (N) Val=-0.22, Plg=78,													
Azm=132; (P) Val=-2.19, Plg=0, Azm=224; Best double couple:													
Mo=2.3*10**18 Nm; NP1: Strike=358, Dip=81, Slip=172; NP2:													
Strike=89, Dip=82, Slip=9.													
Centroid, Moment Tensor (HRV): Centroid origin time													
21:51:20.1; Lat 58.53 S; Lon 13.05 W; Dep 15.0 Bdy; Half-													
duration 2.9 sec; Principal axes (scale 10**18 Nm): (T)													
Val=2.26, Plg=20, Azm=131; (N) Val=0.00, Plg=67, Azm=276;													
(P) Val=-2.26, Plg=12, Azm=37; Best double couple:													
Mo=2.3*10**18 Nm; NP1: Strike=173, Dip=67, Slip=175; NP2:													
Strike=265, Dip=85, Slip=23.													
21	22	05	00.98	16.488	N	98.425	W	15			12 NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.2 (UNM).		
21	22	50	51.28	37.180	N	3.700	W	0	G		9 SPAIN. <MDD>. mbLg 1.6 (MDD).		
21	23	39	37.28	17.719	N	101.797	W	16			17 NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.1 (UNM).		
22	00	01	51.9*	10.971	S	74.418	W	10	G	4.1	1.0	14 CENTRAL PERU. Felt (IV) at Mazamari and Satipo.	
22	01	09	36.7*	37.702	S	176.058	E	313		3.8	0.6	24 NORTH ISLAND, NEW ZEALAND	
22	01	23	14.88	9.079	N	84.046	W	0			8 COSTA RICA. <CASC>. MD 4.0 (CASC).		
22	01	25	08.7*	31.499	S	68.443	W	100	G		1.1	13 SAN JUAN PROVINCE, ARGENTINA. MD 3.8 (GUC).	
22	01	47	27.5	40.564	N	29.179	E	10	G	3.9	1.0	36 TURKEY	
22	02	58	27.28	31.243	S	71.782	W	28			10 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).		
22	03	08	35.08	33.164	S	70.651	W	88			12 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.0 (GUC).		

22	03	08	58.4	20.557	S	178.202	W	604	*	4.5	0.5	52	FIJI ISLANDS REGION
22	03	48	39.2	42.870	N	0.870	W	2				7	PYRENEES. <STR>. ML 2.4 (STR).
22	03	50	44.4	37.822	N	142.175	E	33	N	4.7	0.9	20	OFF EAST COAST OF HONSHU, JAPAN. Felt (I JMA) in southern Iwate and northeastern Miyagi Prefectures.
22	05	13	06.6	21.58	S	179.07	W	601	?	4.4	0.7	16	FIJI ISLANDS REGION
22	05	13	39.6	39.950	S	174.110	E	204				10	NORTH ISLAND, NEW ZEALAND. <WEL>.
22	06	08	21.7	9.020	N	84.124	W	20	G			9	COSTA RICA. <CASC>. MD 4.1 (CASC).
22	07	41	11.7	31.661	S	69.971	W	158				12	SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 3.2 (GUC).
22	07	43	15.5	37.160	N	3.690	W	0	G			5	SPAIN. <MDD>. mbLg 1.8 (MDD).
22	09	19	16.9	13.831	N	91.438	W	10	G		1.3	11	NEAR COAST OF GUATEMALA. MD 4.0 (CASC).
22	09	35	39.4	40.509	S	74.756	W	33	N	6.2 5.8	1.0	303	OFF COAST OF SOUTHERN CHILE. Mw 6.4 (HRV), 6.2 (GS). Me 6.3 (GS). Felt (IV) at Valdivia; (III) at Chiloe, Llanquihue, Loncoche, Osorno, Palena and Villarica; (II) at Curcautin, Puerto Saavedra and Victoria. Broadband Source Parameters (GS): Dep 18; NP1: Strike=120, Dip=35, Slip=-105; NP2: Strike=318, Dip=56, Slip=-8; Radiated energy 5.8*10**13 Nm. Moment Tensor (GS): Dep 26; Principal axes (scale 10**18 Nm): (T) Val=1.96, Plg=11, Azm=55; (N) Val=0.04, Plg=9, Azm=323; (P) Val=-2.00, Plg=76, Azm=194; Best double couple: Mo=2.0*10**18 Nm; NP1: Strike=156, Dip=35, Slip=-75; NP2: Strike=317, Dip=56, Slip=-101. Centroid, Moment Tensor (HRV): Centroid origin time 09:35:42.8; Lat 40.88 S; Lon 75.44 W; Dep 15.0 Fix; Half-duration 4.0 sec; Principal axes (scale 10**18 Nm): (T) Val=4.79, Plg=1, Azm=108; (N) Val=-0.68, Plg=4, Azm=18; (P) Val=-4.12, Plg=86, Azm=205; Best double couple: Mo=4.5*10**18 Nm; NP1: Strike=202, Dip=45, Slip=-84; NP2: Strike=14, Dip=46, Slip=-96.
22	11	01	42.0	20.168	S	67.425	E	10	G	4.6	0.8	11	MID-INDIAN RIDGE
22	11	05	01.7	16.091	S	167.894	E	182	?	5.1	1.0	26	VANUATU ISLANDS
22	11	10	33.0	6.28	S	147.99	E	54	*	4.2	0.7	8	EASTERN NEW GUINEA REG., P.N.G.
22	11	12	55.0	39.175	N	40.214	E	10	G	4.5	1.3	48	TURKEY
22	12	40	45.9	16.117	S	168.039	E	33	N	6.3 6.2	1.1	272	VANUATU ISLANDS. Mw 6.6 (HRV), 6.5 (GS). Me 6.5 (GS). Felt strongly on Ambrym. Landslides and rockfalls occurred on the island. Broadband Source Parameters (GS): Dep 12; NP1: Strike=180, Dip=25, Slip=75; NP2: Strike=16, Dip=66, Slip=97; Radiated energy 1.2*10**14 Nm. Moment Tensor (GS): Dep 4; Principal axes (scale 10**18 Nm): (T) Val=6.91, Plg=80, Azm=304; (N) Val=-0.01, Plg=7, Azm=172; (P) Val=-6.90, Plg=8, Azm=82; Best double couple: Mo=6.9*10**18 Nm; NP1: Strike=164, Dip=38, Slip=79; NP2: Strike=358, Dip=53, Slip=99. Centroid, Moment Tensor (HRV): Centroid origin time 12:40:49.7; Lat 16.08 S; Lon 168.19 E; Dep 15.0 Bdy; Half-duration 5.2 sec; Principal axes (scale 10**18 Nm): (T) Val=7.55, Plg=72, Azm=285; (N) Val=0.35, Plg=3, Azm=185; (P) Val=-7.90, Plg=17, Azm=94; Best double couple: Mo=7.7*10**18 Nm; NP1: Strike=179, Dip=28, Slip=83; NP2: Strike=7, Dip=62, Slip=94.
22	13	34	09.0	8.952	N	83.851	W	6		4.8 5.3		148	COSTA RICA. <CASC>. MD 4.6 (CASC).
22	14	04	39.6	32.047	S	71.510	W	24				11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
22	14	30	58.8	40.638	N	30.773	E	10	G	4.5	1.0	110	TURKEY. MD 5.0 (ISK).
22	15	54	42.1	46.220	N	15.120	E	10	G		1.1	12	NORTHWESTERN BALKAN REGION. ML 2.8 (VIE), 2.4 (TRI), 2.3 (LJU). Felt (IV) at Celje and Zalec, Slovenia.
22	16	34	09.2	16.274	S	168.152	E	33	N	4.5	1.2	17	VANUATU ISLANDS
22	16	34	09.2	16.274	S	168.152	E	33	N	4.5	1.2	14	NORTHERN ITALY. ML 2.7 (LDG).
22	17	36	21.1	13.125	S	168.024	E	33	N	4.9	1.1	16	VANUATU ISLANDS
22	18	16	29.7	42.140	N	1.160	E	2	G			30	PYRENEES. <STR>. mbLg 2.9 (MDD). ML 2.8 (LDG), 2.7 (STR).
22	18	32	32.9	46.562	N	150.275	E	191		4.4	0.8	98	KURIL ISLANDS
22	19	00	29.3	32.140	N	141.666	E	33	N		0.4	7	SOUTH OF HONSHU, JAPAN
22	19	08	29.3	8.874	N	83.747	W	22				12	COSTA RICA. <CASC>. MD 4.0 (CASC).
22	19	30	02.1	38.083	N	71.437	E	33	N	3.8	1.1	7	AFGHANISTAN-TAJIKISTAN BORD REG.
22	19	43	49.2	44.172	N	17.298	E	5	G		0.8	15	NORTHWESTERN BALKAN REGION. ML 3.3 (ZAG). MD 3.0 (PDG).
22	19	54	08.7	15.865	N	119.373	E	33	N		0.8	8	LUZON, PHILIPPINE ISLANDS
22	20	08	09.1	13.077	N	145.316	E	55	*	5.0 5.0	0.9	90	MARIANA ISLANDS. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 20:08:09.6; Lat 12.91 N; Lon 145.80 E; Dep 15.0 Fix; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=1.25, Plg=62, Azm=246; (N) Val=0.02, Plg=19, Azm=17; (P) Val=-1.27, Plg=19, Azm=114; Best double couple: Mo=1.3*10**17 Nm; NP1: Strike=233, Dip=31, Slip=130; NP2: Strike=9, Dip=67, Slip=69.
22	20	13	50.2	18.909	N	66.947	W	43				6	PUERTO RICO REGION. <MPR>. MD 3.2 (MPR).
22	20	59	39.1	16.156	S	168.193	E	33	N	4.9 4.4	1.0	39	VANUATU ISLANDS
22	21	14	08.0	16.17	S	167.96	E	33	N	4.3	1.2	10	VANUATU ISLANDS
22	21	27	02.3	8.970	N	84.023	W	20	G			13	OFF COAST OF COSTA RICA. <CASC>. MD 4.3 (CASC).
22	21	42	35.4	31.965	S	70.153	W	124				10	CHILE-ARGENTINA BORDER REGION. <GUC>.
22	22	02	35.3	8.957	N	84.014	W	20	G	4.5		25	OFF COAST OF COSTA RICA. <CASC>. MD 4.4 (CASC).
22	22	47	58.9	30.043	S	71.280	W	56				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
22	23	34	25.5	17.825	N	66.938	W	19				5	PUERTO RICO REGION. <MPR>. ML 3.3 (MPR).
22	23	44	09.9	30.358	S	177.953	W	57	D	5.1	1.1	39	KERMADEC ISLANDS, NEW ZEALAND
23	00	28	51.0	42.370	N	111.510	W	9				27	EASTERN IDAHO. <SLC-P>. ML 3.3 (SLC).
23	01	20	22.3	51.700	N	16.202	E	5	G		1.0	29	POLAND. ML 4.0 (GRF), 3.6 (VIE), 3.4 (FUR).
23	01	29	23.7	15.774	N	61.027	W	30				10	LEEWARD ISLANDS. <FDF>. MD 2.7 (TRN).
23	02	03	12.6	44.811	N	6.597	E	9				14	FRANCE. <GEN>. ML 2.2 (GEN), 1.8 (LDG).
23	04	25	24.2	5.594	N	127.378	E	33	N		1.0	8	PHILIPPINE ISLANDS REGION
23	04	58	51.9	21.10	N	120.05	E	33	N	4.2	1.5	13	TAIWAN REGION
23	05	13	49.5	42.381	N	19.350	E	21				9	NORTHWESTERN BALKAN REGION. <PDG>. ML 2.0 (PDG).
23	05	34	06.8	16.607	N	95.085	W	141				15	OAXACA, MEXICO. <UNM>. MD 4.3 (UNM).
23	05	37	29.0	33.726	S	71.885	W	29				8	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
23	06	11	25.7	41.691	N	143.573	E	33	N	5.3 4.6	0.8	225	HOKKAIDO, JAPAN REGION. Mw 5.3 (HRV). Felt (II JMA) in the

Urakawa area and (I JMA) in other parts of southeastern Hokkaido.
Centroid, Moment Tensor (HRV): Centroid origin time 06:11:27.0; Lat 41.16 N; Lon 143.17 E; Dep 29.1; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=0.87, Plg=55, Azm=291; (N) Val=0.24, Plg=7, Azm=32; (P) Val=-1.11, Plg=34, Azm=127; Best double couple: Mo=9.9*10**16 Nm; NP1: Strike=245, Dip=13, Slip=124; NP2: Strike=30, Dip=79, Slip=83.

23 06 46 59.3 20.369 S 178.659 W 632 ? 4.4 0.7 58 FIJI ISLANDS REGION
23 07 13 04.5 32.030 S 70.265 W 153 9 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.9 (GUC).
23 07 17 22.6 31.395 N 141.629 E 33 N 4.7 0.7 50 SOUTH OF HONSHU, JAPAN
23 08 55 54.0 37.980 N 112.510 W 1 16 UTAH. <SLC-P>. ML 2.8 (SLC).
23 09 51 52.0 44.300 N 7.700 E 2 4 NORTHERN ITALY. <LDG>. ML 2.0 (LDG).
23 10 08 29.0 42.003 N 142.508 E 60 D 4.8 0.8 91 HOKKAIDO, JAPAN REGION. Felt (III JMA) in the Urakawa area and (I JMA) in other parts of southern Hokkaido. Also felt (I JMA) in eastern Aomori Prefecture, Honshu.

23 10 29 12.5 51.494 N 16.143 E 5 G 0.3 10 POLAND. ML 3.3 (VIE).
23 10 58 09.5 27.081 N 140.111 E 500 * 4.3 1.0 44 BONIN ISLANDS REGION
23 11 17 58.6 15.831 N 119.154 E 33 N 0.7 7 LUZON, PHILIPPINE ISLANDS
23 11 27 09.5 37.468 N 118.822 W 7 11 CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.8 (GM).
23 11 43 14.3 63.968 N 147.784 W 0 40 CENTRAL ALASKA. <AEIC>. ML 3.0 (AEIC), 3.3 (PMR).
23 12 12 41.1 36.264 N 89.503 W 9 4 NEW MADRID, MISSOURI REGION. <TEIC>. MD 3.1 (TEIC). Felt at Caruthersville. Also felt in the Ridgely area, Tennessee.

23 12 27 40.3 38.210 S 177.360 E 53 13 NORTH ISLAND, NEW ZEALAND. <WEL>.
23 14 28 36.2 42.420 N 5.510 E 10 29 WESTERN MEDITERRANEAN SEA. <STR>. ML 3.0 (STR).
23 15 15 54.3 32.163 S 71.860 W 11 11 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
23 15 49 19.6 8.636 S 118.595 E 144 * 4.2 1.1 22 SUMBAWA REGION, INDONESIA
23 16 02 57.9 19.339 N 121.087 E 33 N 4.3 3.7 1.3 26 PHILIPPINE ISLANDS REGION
23 16 29 08.1 24.489 S 178.920 E 584 ? 4.5 0.9 31 SOUTH OF FIJI ISLANDS
23 18 26 58.7 15.645 N 93.832 W 75 29 NEAR COAST OF CHIAPAS, MEXICO. <UNM>. MD 4.2 (UNM).
23 19 42 38.3 33.628 S 70.859 W 72 12 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.3 (GUC).
23 20 18 32.5 34.68 N 70.75 E 73 ? 4.3 1.2 8 AFGHANISTAN
23 20 35 24.3 40.730 N 30.823 E 10 G 3.8 1.4 19 TURKEY
23 20 49 52.9 43.180 N 0.810 W 5 5 PYRENEES. <STR>. ML 2.2 (STR).
23 20 56 21.5 37.138 N 114.613 W 5 G 0.9 16 SOUTHERN NEVADA. ML 3.4 (GS).
23 20 57 40.4 45.606 N 27.215 E 10 G 0.8 5 ROMANIA
23 21 14 08.8 23.04 S 114.03 W 10 G 4.5 1.0 14 EASTER ISLAND REGION
23 21 44 27.2 40.675 N 30.991 E 10 G 3.9 1.5 16 TURKEY
23 21 52 25.0 14.861 S 167.444 E 33 N 4.8 4.3 1.2 56 VANUATU ISLANDS
23 21 54 51.5 40.615 N 29.162 E 10 G 4.1 1.1 19 TURKEY
23 22 30 30.7 42.650 N 0.470 E 5 G 82 PYRENEES. <STR>. ML 3.7 (STR), 3.7 (LDG). mbLg 3.1 (MOD). Felt (IV) at Benasque; (III) at El Run, Eriste and Sahun, Spain. Also felt in the Bigorre region, France.

23 23 41 36.6 57.734 N 154.755 W 61 2 KODIAK ISLAND REGION. <AEIC>. ML 2.6 (AEIC).
23 23 44 52.6 60.715 S 26.921 W 33 N 4.6 1.4 11 SOUTH SANDWICH ISLANDS REGION
24 00 08 53.6 32.563 S 71.518 W 15 8 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
24 00 24 31.0 42.500 N 4.200 E 10 8 WESTERN MEDITERRANEAN SEA. <LDG>. ML 2.1 (LDG).
24 00 55 32.8 38.60 N 20.73 E 33 N 3.6 1.1 12 GREECE
24 02 11 43.6 21.577 S 176.469 W 149 D 4.9 0.9 57 FIJI ISLANDS REGION. Mw 5.2 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 02:11:49.2; Lat 22.01 S; Lon 175.75 W; Dep 142.1; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=7.69, Plg=29, Azm=115; (N) Val=-0.39, Plg=10, Azm=19; (P) Val=-7.30, Plg=59, Azm=272; Best double couple: Mo=7.5*10**16 Nm; NP1: Strike=231, Dip=19, Slip=-57; NP2: Strike=16, Dip=75, Slip=-101.

24 02 34 07.4 28.792 S 178.363 W 153 ? 4.7 1.1 45 KERMADEC ISLANDS REGION
24 02 35 53.7 46.055 N 14.774 E 10 G 0.3 8 NORTHWESTERN BALKAN REGION. ML 2.5 (VIE).
24 03 09 48.2 20.229 S 67.718 E 10 G 4.8 4.5 1.3 32 MID-INDIAN RIDGE
24 03 46 06.7 9.18 N 84.15 W 33 N 4.5 1.4 7 COSTA RICA
24 04 59 12.8 33.598 S 71.573 W 31 9 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
24 06 00 54.5 6.085 N 126.050 E 150 4.9 0.8 36 MINDANAO, PHILIPPINE ISLANDS
24 06 10 13.6 10.91 S 161.65 E 33 N 4.2 1.3 10 SOLOMON ISLANDS
24 06 32 01.5 34.695 S 72.327 W 34 6 NEAR COAST OF CENTRAL CHILE. <GUC>.
24 07 01 08.0 21.346 S 66.663 W 224 4.4 1.2 24 SOUTHERN BOLIVIA
24 08 39 00.3 56.500 N 156.628 W 8 4.7 3.8 105 ALASKA PENINSULA. <AEIC>. ML 4.7 (AEIC), 4.7 (PMR). Felt at Chignik.

24 08 45 26.7 45.732 N 14.160 E 10 G 0.1 5 NORTHWESTERN BALKAN REGION. ML 1.4 (LJU).
24 08 55 34.7 60.787 N 150.842 W 26 2 KENAI PENINSULA, ALASKA. <AEIC>. ML 3.0 (AEIC).
24 09 30 27.0 38.569 N 33.904 E 33 N 0.6 7 TURKEY
24 09 47 20.3 32.098 N 141.756 E 33 N 0.8 7 SOUTH OF HONSHU, JAPAN
24 12 12 08.8 47.184 N 150.750 E 215 ? 4.3 1.1 31 KURIL ISLANDS
24 12 52 23.1 50.410 N 18.902 E 5 G 1.2 7 POLAND. MG 2.9 (WAR).
24 13 04 07.3 31.963 N 114.462 W 5 G 4.8 4.4 0.8 115 GULF OF CALIFORNIA. ML 4.7 (PAS). MD 4.9 (ECX). Felt at Yuma, Arizona. Also felt in the Mexicali Valley and in the area southeast of Mexicali, Baja California.

24 13 18 51.2 60.336 N 152.069 W 70 2 SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).
24 14 34 02.0 22.450 N 142.313 E 284 ? 3.8 0.8 14 VOLCANO ISLANDS REGION
24 14 43 25.1 37.431 N 71.960 E 149 ? 4.1 0.7 23 AFGHANISTAN-TAJIKISTAN BORD REG.
24 14 58 08.9 37.387 S 47.931 E 10 G 4.8 4.7 1.2 26 SOUTHWEST INDIAN RIDGE
24 16 14 27.8 31.958 N 114.473 W 5 G 0.7 8 GULF OF CALIFORNIA. ML 3.7 (PAS). MD 4.2 (ECX). Felt in the Mexicali Valley, Baja California.

24 16 20 09.5 45.65 N 26.88 E 100 G 1.1 6 ROMANIA
24 17 33 20.5 39.392 N 32.636 E 10 G 4.9 4.4 1.3 189 TURKEY. Felt in the epicentral area.
24 17 37 14.4 39.349 N 32.705 E 10 G 4.2 1.2 15 TURKEY
24 17 59 23.2 34.117 S 70.089 W 7 9 CHILE-ARGENTINA BORDER REGION. <GUC>.
24 18 26 00.9 29.363 N 105.552 E 33 N 1.3 9 SICHUAN, CHINA. ML 3.8 (BJI).
24 18 55 08.7 56.657 N 34.574 W 10 G 4.5 1.1 31 NORTH ATLANTIC OCEAN
24 18 58 57.4 40.659 N 30.160 E 10 G 4.2 1.2 16 TURKEY
24 19 15 55.7 5.251 S 152.618 E 33 N 4.7 1.3 26 NEW BRITAIN REGION, P.N.G.
24 19 47 12.2 45.200 N 6.300 E 5 4 FRANCE. <LDG>. ML 1.5 (LDG).
24 20 02 09.5 38.095 N 21.933 E 58 4.3 1.4 122 GREECE. MD 4.1 (ATH).

24	20	10	18.0*	22.340 N	94.642 E	117 ?	3.9	0.9	14	MYANMAR
24	21	00	02.1*	18.895 N	66.848 W	44			5	PUERTO RICO REGION. <MPR>. MD 2.6 (MPR).
24	21	28	13.5	50.423 N	18.998 E	5 G		1.3	8	POLAND. MG 2.4 (WAR).
24	22	00	54.4	13.693 N	90.845 W	53	4.3 4.3	1.1	69	NEAR COAST OF GUATEMALA. MD 4.7 (CASC).
24	22	21	38.2*	32.037 S	69.980 W	113			11	MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 2.7 (GUC).
24	22	26	53.1*	44.798 N	112.743 W	10			28	EASTERN IDAHO. <BUT-P>. ML 3.3 (BUT). Felt.
24	22	50	35.2*	44.333 N	7.296 E	12			4	NORTHERN ITALY. <GEN>. ML 1.6 (GEN).
24	22	54	41.6*	16.580 N	95.293 W	112			9	OAXACA, MEXICO. <UNM>. MD 4.3 (UNM).
25	00	09	44.7*	18.37 S	173.02 W	33 N	4.4	1.3	13	TONGA ISLANDS
25	00	16	29.4*	38.180 N	1.110 W	2			9	SPAIN. <MDD>. mbLg 2.0 (MDD).
25	00	39	24.7*	37.440 N	2.190 W	7			13	SPAIN. <MDD>. mbLg 2.0 (MDD).
25	01	07	38.1*	44.032 N	143.470 E	147 ?	4.1	1.0	11	HOKKAIDO, JAPAN REGION
25	01	42	18.5*	1.958 N	97.264 E	33 N	4.7	1.0	13	NORTHERN SUMATERA, INDONESIA
25	02	00	26.0*	19.211 N	155.456 W	7			33	HAWAII. <HVO-P>. MD 4.0 (HVO). Felt at Kahuku and Pahala.
25	02	13	58.7*	40.54 N	78.51 E	33 N	4.2	1.4	9	SOUTHERN XINJIANG, CHINA
25	03	09	38.2*	59.408 N	152.066 W	83			23	SOUTHERN ALASKA. <AEIC>.
25	03	16	39.2*	61.305 N	146.897 W	15			20	SOUTHERN ALASKA. <AEIC>. ML 3.6 (AEIC), 3.7 (PMR).
25	04	40	55.9*	46.660 N	154.373 E	33 N	4.8	1.2	54	EAST OF KURIL ISLANDS
25	04	55	55.2*	10.771 S	113.232 E	33 N	4.2	1.1	9	SOUTH OF JAWA, INDONESIA
25	06	34	07.2*	34.152 S	70.858 W	76			11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
25	06	38	55.4*	15.249 N	61.013 W	103			6	LEEWARD ISLANDS. <FDF>. MG 2.5 (FDF).
25	07	06	22.0	19.059 S	169.612 E	263 D	5.4	1.2	255	VANUATU ISLANDS. Mw 5.7 (GS), 5.7 (HRV). Moment Tensor (GS): Dep 269; Principal axes (scale 10**17 Nm): (T) Val=4.32, Plg=45, Azm=63; (N) Val=-0.06, Plg=44, Azm=226; (P) Val=-4.26, Plg=9, Azm=324; Best double couple: Mo=4.3*10**17 Nm; NP1: Strike=93, Dip=53, Slip=151; NP2: Strike=202, Dip=67, Slip=41. Centroid, Moment Tensor (HRV): Centroid origin time 07:06:27.8; Lat 19.14 S; Lon 169.53 E; Dep 282.6; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=3.79, Plg=46, Azm=60; (N) Val=-0.08, Plg=41, Azm=213; (P) Val=-3.71, Plg=13, Azm=315; Best double couple: Mo=3.8*10**17 Nm; NP1: Strike=85, Dip=48, Slip=152; NP2: Strike=195, Dip=70, Slip=46.
25	07	10	42.5*	26.833 N	143.398 E	33 N	4.5	1.3	21	BONIN ISLANDS REGION
25	08	32	27.4	12.284 N	86.785 W	115 D	4.5	1.2	55	NICARAGUA. MD 4.4 (CASC).
25	08	52	08.3*	39.649 N	122.769 W	7			11	NORTHERN CALIFORNIA. <GM-P>. MD 2.9 (GM).
25	09	15	39.1*	45.943 N	15.092 E	10 G		0.2	5	NORTHWESTERN BALKAN REGION. ML 1.2 (LJU).
25	10	33	32.7	46.242 N	15.135 E	10 G		0.8	13	NORTHWESTERN BALKAN REGION. ML 3.0 (VIE), 2.5 (LJU), 2.5 (TRI). Felt (IV) at Zalec, Slovenia.
25	10	34	01.9*	58.671 N	151.934 W	38			2	KODIAK ISLAND REGION. <AEIC>. ML 2.7 (AEIC).
25	10	39	28.5*	47.200 N	5.500 E	2			8	FRANCE. <LDG>. ML 2.0 (LDG).
25	10	48	13.9*	4.988 S	152.980 E	73 *	4.9	0.4	10	NEW BRITAIN REGION, P.N.G. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 10:48:23.9; Lat 4.38 S; Lon 152.91 E; Dep 115.0; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=8.79, Plg=16, Azm=88; (N) Val=-2.26, Plg=3, Azm=178; (P) Val=-6.53, Plg=74, Azm=278; Best double couple: Mo=7.7*10**16 Nm; NP1: Strike=174, Dip=29, Slip=-95; NP2: Strike=0, Dip=61, Slip=-87.
25	12	39	21.1*	32.046 S	68.950 W	100 G		1.1	13	MENDOZA PROVINCE, ARGENTINA. MD 3.5 (GUC).
25	13	27	36.2*	34.576 S	71.665 W	71			10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.2 (GUC).
25	13	28	01.9*	12.466 S	166.737 E	127 ?	4.5	0.9	31	SANTA CRUZ ISLANDS
25	14	05	28.0	5.383 N	126.465 E	72	5.0	1.0	45	MINDANAO, PHILIPPINE ISLANDS. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 14:05:33.3; Lat 6.07 N; Lon 126.99 E; Dep 71.8; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.41, Plg=61, Azm=259; (N) Val=0.70, Plg=11, Azm=10; (P) Val=-5.11, Plg=26, Azm=105; Best double couple: Mo=4.8*10**16 Nm; NP1: Strike=220, Dip=21, Slip=122; NP2: Strike=6, Dip=72, Slip=78.
25	14	09	29.8*	43.090 N	0.380 W	10			5	PYRENEES. <STR>. ML 2.6 (STR).
25	14	10	47.7	0.150 S	123.055 E	90 D	4.6	1.1	28	MINAHASSA PENINSULA, SULAWESI
25	14	48	14.7*	33.656 S	71.586 W	38			10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.2 (GUC).
25	14	55	05.0*	40.306 N	124.559 W	20			5	NEAR COAST OF NORTHERN CALIF. <GM-P>. ML 3.1 (GM), 3.2 (BRK).
25	15	17	42.3*	32.843 S	72.089 W	39			9	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
25	15	50	02.7*	47.300 N	5.800 E	2			6	FRANCE. <LDG>. ML 2.1 (LDG).
25	15	52	17.9*	15.440 S	173.546 W	33 N	4.6 4.6	1.1	34	TONGA ISLANDS
25	16	10	33.5*	8.308 N	127.429 E	33 N	4.1	0.8	7	PHILIPPINE ISLANDS REGION
25	16	11	37.3	46.670 N	15.195 E	10 G		0.9	9	NORTHWESTERN BALKAN REGION. ML 2.7 (VIE).
25	16	28	02.0*	46.800 N	5.000 E	2			7	FRANCE. <LDG>. ML 2.0 (LDG).
25	16	42	01.7*	10.530 N	62.064 W	10			4	NEAR COAST OF VENEZUELA. <TRN>. MD 3.0 (TRN).
25	16	46	32.7*	39.647 N	122.764 W	8			8	NORTHERN CALIFORNIA. <GM-P>. ML 2.9 (GM), 3.0 (BRK).
25	16	48	08.1	4.612 S	129.048 E	33 N	4.0	1.2	13	BANDA SEA
25	17	03	52.0*	4.960 N	74.650 W	30			9	COLOMBIA. <RSNC>. ML 4.2 (RSNC).
25	17	12	26.8*	15.761 S	174.874 W	33 N	4.6 4.0	1.3	34	TONGA ISLANDS
25	17	26	07.8*	61.430 N	151.829 W	96			6	SOUTHERN ALASKA. <AEIC>.
25	17	39	46.5*	34.053 S	71.122 W	71			11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.9 (GUC).
25	17	46	12.0	36.382 N	31.445 E	33 N	4.3	0.6	20	TURKEY
25	18	47	08.1*	32.500 N	137.104 E	423 *	3.6	0.6	11	SOUTH OF HONSHU, JAPAN
25	19	19	40.0*	15.134 N	119.600 E	49 ?	4.2	1.5	15	LUZON, PHILIPPINE ISLANDS
25	19	44	37.6*	59.638 S	19.490 W	10 G	4.5	1.5	13	SOUTHWESTERN ATLANTIC OCEAN
25	20	14	40.4*	44.694 N	9.400 E	1			26	NORTHERN ITALY. <GEN>. ML 2.8 (GEN), 2.2 (LDG).
25	21	28	02.1*	44.499 N	6.842 E	0			9	FRANCE. <GEN>. ML 2.1 (GEN).
25	21	29	58.6*	49.102 N	157.944 E	33 N	4.5	1.4	47	EAST OF KURIL ISLANDS
25	22	40	33.1*	32.660 S	71.456 W	9			11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
25	22	41	41.2*	63.180 N	150.085 W	109			12	CENTRAL ALASKA. <AEIC>.
25	23	15	09.3	71.896 N	1.968 W	10 G	4.3	1.2	35	JAN MAYEN ISLAND REGION
25	23	15	19.4*	34.939 S	71.257 W	81			9	NEAR COAST OF CENTRAL CHILE. <GUC>.
25	23	24	11.1*	51.096 N	15.774 E	5 G		1.0	8	POLAND. ML 2.8 (VIE).
26	00	07	31.7*	61.122 N	149.984 W	34			4	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).
26	00	10	45.4*	42.392 N	19.379 E	22			9	NORTHWESTERN BALKAN REGION. <PDG>. MD 1.5 (PDG).
26	00	42	36.8*	18.417 N	66.258 W	109			6	PUERTO RICO REGION. <MPR>. MD 2.7 (MPR).

26	01	24	42.6	10.376 N	126.006 E	63	5.6	0.9	137	PHILIPPINE ISLANDS REGION. Mw 5.9 (GS), 5.9 (HRV). Me 5.6 (GS). Felt (IV RF) at Surigao, (III RF) at Bislig and Butuan, (II RF) at Cagayan de Oro and (I RF) at Dipclog, Mindanao. Felt (IV RF) at Palo, Leyte; (III RF) on Camiguin; (II RF) at Cebu, Cebu Island and Duero, Bchol. Also felt strongly at Tacloban, Leyte. Broadband Source Parameters (GS): Dep 30; NP1: Strike=5, Dip=50, Slip=100; NP2: Strike=170, Dip=41, Slip=78; Radiated energy 6.1×10^{12} Nm. Moment Tensor (GS): Dep 32; Principal axes (scale 10^{17} Nm): (T) Val=8.28, Plg=75, Azm=284; (N) Val=-0.18, Plg=3, Azm=181; (P) Val=-8.10, Plg=15, Azm=90; Best double couple: Mo= 8.2×10^{17} Nm; NP1: Strike=175, Dip=30, Slip=83; NP2: Strike=3, Dip=60, Slip=94. Centroid, Moment Tensor (HRV): Centroid origin time 01:24:44.9; Lat 10.42 N; Lon 126.29 E; Dep 37.7; Half-duration 2.2 sec; Principal axes (scale 10^{17} Nm): (T) Val=8.04, Plg=69, Azm=323; (N) Val=-0.64, Plg=14, Azm=191; (P) Val=-7.40, Plg=15, Azm=97; Best double couple: Mo= 7.7×10^{17} Nm; NP1: Strike=168, Dip=33, Slip=63; NP2: Strike=19, Dip=61, Slip=106.
26	01	24	57.5	58.153 N	154.784 W	97	5.0		312	ALASKA PENINSULA. <AEIC>. Mw 5.5 (HRV). Felt at Kodiak. Centroid, Moment Tensor (HRV): Centroid origin time 01:25:07.4; Lat 58.15 N Fix; Lon 154.78 W Fix; Dep 88.7; Half-duration 1.7 sec; Principal axes (scale 10^{17} Nm): (T) Val=2.33, Plg=18, Azm=289; (N) Val=-0.47, Plg=46, Azm=179; (P) Val=-1.86, Plg=38, Azm=34; Best double couple: Mo= 2.1×10^{17} Nm; NP1: Strike=64, Dip=49, Slip=-17; NP2: Strike=165, Dip=78, Slip=-138.
26	01	48	47.7	34.790 N	32.938 E	33 N	4.2	1.2	67	CYPRUS REGION. ML 4.2 (GII). Felt (III) at Limassol.
26	02	34	36.2	44.782 N	112.775 W	12			52	EASTERN IDAHO. <BUT-P>. MD 4.0 (BUT). Felt.
26	04	56	03.3	4.683 S	137.854 E	33 N	4.2	0.4	9	IRIAN JAYA, INDONESIA
26	05	03	04.9	71.718 N	2.484 W	10 G	5.1 4.9	0.9	251	JAN MAYEN ISLAND REGION. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 05:03:08.3; Lat 71.68 N; Lon 2.34 W; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10^{16} Nm): (T) Val=8.36, Plg=0, Azm=122; (N) Val=-0.36, Plg=8, Azm=32; (P) Val=-8.00, Plg=82, Azm=212; Best double couple: Mo= 8.2×10^{16} Nm; NP1: Strike=220, Dip=46, Slip=-78; NP2: Strike=24, Dip=46, Slip=-102.
26	05	29	56.5	71.713 N	1.519 W	10 G	4.3	1.3	21	JAN MAYEN ISLAND REGION
26	05	35	36.6	32.346 S	71.799 W	30			10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
26	06	05	17.8	42.334 N	18.937 E	10			8	NORTHWESTERN BALKAN REGION. <PDG>. MD 1.2 (PDG).
26	06	07	30.1	12.732 N	145.666 E	33 N	4.2	1.2	9	SOUTH OF MARIANA ISLANDS
26	06	35	52.3	37.857 N	31.127 E	10 G	4.1 3.3	1.1	26	TURKEY
26	06	42	34.3	6.67 N	73.10 W	193 *	4.0	1.0	11	NORTHERN COLOMBIA
26	06	50	27.6	14.976 N	91.785 W	145 *	4.3	1.4	22	GUATEMALA. MD 4.3 (UNM).
26	07	29	27.0	32.749 S	179.018 W	33 N	4.9	1.2	56	SOUTH OF KERMADEC ISLANDS
26	07	39	28.9	3.522 S	145.657 E	33 N	5.6 6.2	1.2	116	NEAR N COAST OF NEW GUINEA, PNG. Mw 6.2 (GS), 6.1 (HRV). Me 6.6 (GS). Broadband Source Parameters (GS): NP1: Strike=355, Dip=85, Slip=-164; NP2: Strike=264, Dip=74, Slip=-5; Radiated energy 1.9×10^{14} Nm. Moment Tensor (GS): Dep 24; Principal axes (scale 10^{18} Nm): (T) Val=1.73, Plg=4, Azm=316; (N) Val=0.33, Plg=85, Azm=185; (P) Val=-2.06, Plg=4, Azm=47; Best double couple: Mo= 1.9×10^{18} Nm; NP1: Strike=92, Dip=85, Slip=0; NP2: Strike=182, Dip=90, Slip=-175. Centroid, Moment Tensor (HRV): Centroid origin time 07:39:29.7; Lat 3.46 S; Lon 145.95 E; Dep 15.0 Fix; Half-duration 2.9 sec; Principal axes (scale 10^{18} Nm): (T) Val=1.73, Plg=0, Azm=134; (N) Val=0.00, Plg=85, Azm=43; (P) Val=-1.73, Plg=5, Azm=224; Best double couple: Mo= 1.7×10^{18} Nm; NP1: Strike=269, Dip=86, Slip=-4; NP2: Strike=359, Dip=86, Slip=-176.
26	08	02	17.0	3.472 S	145.611 E	33 N	5.0 5.4	1.3	41	NEAR N COAST OF NEW GUINEA, PNG. Mw 5.8 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 08:02:20.8; Lat 3.11 S; Lon 146.45 E; Dep 15.0 Fix; Half-duration 1.8 sec; Principal axes (scale 10^{17} Nm): (T) Val=5.43, Plg=28, Azm=308; (N) Val=-0.92, Plg=61, Azm=111; (P) Val=-4.51, Plg=7, Azm=214; Best double couple: Mo= 5.0×10^{17} Nm; NP1: Strike=347, Dip=65, Slip=165; NP2: Strike=84, Dip=76, Slip=26.
26	08	44	39.1	51.157 N	15.804 E	5 G		0.6	7	POLAND. ML 3.2 (VIE).
26	08	52	31.9	22.265 S	179.630 W	573 *	4.8	0.9	96	SOUTH OF FIJI ISLANDS
26	09	07	25.5	36.261 N	71.281 E	124 *	4.6	0.9	29	AFGHANISTAN-TAJIKISTAN BORD REG.
26	09	43	58.7	36.477 N	70.459 E	223 *	4.3	1.4	19	HINDU KUSH REGION, AFGHANISTAN
26	09	46	54.8	59.940 N	152.944 W	107			11	SOUTHERN ALASKA. <AEIC>.
26	09	57	04.8	18.833 N	145.169 E	580 *	4.3	1.1	37	MARIANA ISLANDS
26	09	59	24.5	34.674 N	70.938 E	33 N	5.2 4.4	1.1	201	AFGHANISTAN
26	10	10	48.5	32.677 S	71.656 W	14			9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.0 (GUC).
26	10	33	31.7	34.200 S	70.658 W	93			8	CHILE-ARGENTINA BORDER REGION. <GUC>.
26	11	28	50.2	47.493 N	13.313 E	10 G		1.4	6	AUSTRIA. ML 2.2 (VIE).
26	11	59	22.9	41.776 N	20.413 E	8			14	ALBANIA. <PDG>. MD 3.3 (PDG).
26	11	59	48.1	36.540 N	4.890 W	0			11	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.4 (MDD).
26	12	14	31.9	33.485 N	116.506 W	9			28	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
26	12	24	50.6	44.432 N	7.111 E	3			9	NORTHERN ITALY. <GEN>. ML 2.1 (GEN).
26	12	44	43.5	39.572 N	24.098 E	10 G		0.7	10	AEGEAN SEA
26	13	06	51.6	44.850 N	27.118 E	10 G		0.8	6	ROMANIA
26	13	42	43.3	16.467 N	99.501 W	16			14	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.8 (UNM).
26	14	09	30.1	38.350 N	0.870 W	8			5	SPAIN. <MDD>. mbLg 2.2 (MDD).
26	14	22	53.5	60.420 N	147.736 W	22			4	SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).
26	14	31	32.2	17.897 N	100.665 W	73			35	GUERRERO, MEXICO. <UNM>. MD 4.2 (UNM).

26	17	05	14.0*	13.227 S	167.321 E	200 D	4.7	1.4	94	VANUATU ISLANDS
26	17	43	49.5	36.780 S	176.944 E	33 N	4.8 4.5	1.4	35	OFF E. COAST OF N. ISLAND, N.Z. Felt at Auckland and on the Coromandel Peninsula.
26	17	44	41.7&	59.236 N	153.340 W	104			12	SOUTHERN ALASKA. <AEIC>.
26	17	49	38.0	40.744 N	30.016 E	10 G	4.8	1.1	17	TURKEY
26	18	05	52.5	46.919 N	8.575 E	10 G		1.1	14	SWITZERLAND. ML 2.3 (STR), 2.3 (VIE), 2.2 (LDG).
26	18	38	36.4&	38.350 N	0.760 W	11			19	SPAIN. <MDD>. mbLg 2.8 (MDD). Felt (III) at Aspe, Monforte del Cid and Novelda; (II) at Hondon de las Nieves; (I) at Elche.
26	18	45	05.2&	32.487 S	71.893 W	18			11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
26	18	46	43.1*	71.783 N	1.717 W	10 G	4.3	1.3	22	JAN MAYEN ISLAND REGION
26	18	50	56.5*	40.652 S	75.000 W	33 N	4.5	1.2	20	OFF COAST OF SOUTHERN CHILE
26	20	08	51.5&	32.465 S	71.829 W	7			11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
26	20	15	14.6*	26.582 N	128.842 E	67 ?	4.5	1.2	31	RYUKYU ISLANDS
26	21	38	11.9	19.119 N	121.152 E	33 N	5.5 5.2	1.0	252	PHILIPPINE ISLANDS REGION. Mw 5.7 (GS), 5.7 (HRV). Felt (IV RF) at Pasuquin, (III RF) at Santa and (II RF) at Callao, Luzon. Also felt (I RF) at Ivana and Uyugan, Batan Islands. Moment Tensor (GS): Dep 32; Principal axes (scale 10**17 Nm): (T) Val=3.43, Plg=65, Azm=129; (N) Val=-0.14, Plg=3, Azm=225; (P) Val=-3.29, Plg=25, Azm=316; Best double couple: Mo=3.4*10**17 Nm; NPl: Strike=52, Dip=20, Slip=98; NP2: Strike=224, Dip=70, Slip=87.
26	22	13	17.1*	39.584 N	40.180 E	10 G	3.9	1.0	13	TURKEY
26	23	08	25.0	71.687 N	1.472 W	10 G	4.2	1.1	31	JAN MAYEN ISLAND REGION
26	23	21	45.3	36.112 N	71.201 E	109 *	4.3	1.0	21	AFGHANISTAN-TAJIKISTAN BORD REG.
27	00	09	52.1*	36.716 N	71.362 E	219 *	3.7	0.6	13	AFGHANISTAN-TAJIKISTAN BORD REG.
27	00	44	55.7	53.583 N	163.612 W	45	4.4	0.9	30	UNIMAK ISLAND REGION. ML 4.5 (PMR), 3.8 (AEIC).
27	03	06	09.3?	6.62 S	130.90 E	33 N	4.3	1.3	6	BANDA SEA
27	03	32	05.8&	37.150 N	3.730 W	0 G			5	SPAIN. <MDD>. mbLg 1.4 (MDD).
27	03	44	53.1&	37.890 N	1.120 W	10			30	SPAIN. <MDD>. ML 3.1 (LDG). mbLg 2.8 (MDD). Felt (III) at Corvera, La Alberca, Los Banos, Mendigorría, Murcia and Sucina; (II) at Alcantarilla.
27	03	47	47.3&	37.900 N	1.110 W	11			17	SPAIN. <MDD>. mbLg 2.5 (MDD). Felt (II) at La Alberca, Los Banos and Mendigorría.
27	04	16	01.2&	35.035 S	71.006 W	114			10	CENTRAL CHILE. <GUC>.
27	06	03	11.5?	18.54 S	168.81 E	200 G	4.2	1.2	10	VANUATU ISLANDS
27	06	46	18.5	37.385 N	70.257 E	33 N	4.6	1.1	45	AFGHANISTAN-TAJIKISTAN BORD REG.
27	08	50	04.0&	44.470 N	110.610 W	3			31	YELLOWSTONE REGION, WYOMING. <SLC-P>. ML 3.1 (SLC), 3.0 (GS), 3.0 (BUT). Felt at Grant Village.
27	09	04	29.9&	42.230 N	6.330 W	17			10	SPAIN. <MDD>. mbLg 2.7 (MDD).
27	09	08	49.0&	44.480 N	110.590 W	2			15	YELLOWSTONE REGION, WYOMING. <SLC-P>. ML 3.3 (SLC).
27	09	10	47.5&	60.061 N	152.947 W	97			5	SOUTHERN ALASKA. <AEIC>.
27	09	13	55.0&	44.480 N	110.580 W	1			14	YELLOWSTONE REGION, WYOMING. <SLC-P>. ML 3.3 (SLC).
27	09	19	07.0&	44.480 N	110.590 W	2			8	YELLOWSTONE REGION, WYOMING. <SLC-P>. ML 2.8 (GS).
27	09	21	11.0&	44.500 N	110.520 W	2			21	YELLOWSTONE REGION, WYOMING. <SLC-P>. ML 3.1 (SLC), 3.1 (GS). Small precursor about nine seconds prior to this event.
27	09	33	00.0&	44.480 N	110.600 W	2			30	YELLOWSTONE REGION, WYOMING. <SLC-P>. ML 3.3 (SLC), 3.1 (GS), 3.1 (BUT). Felt at Grant Village.
27	09	31	11.0&	44.490 N	110.590 W	3			25	YELLOWSTONE REGION, WYOMING. <SLC-P>. ML 3.0 (SLC), 3.0 (BUT), 2.9 (GS).
27	12	46	14.1&	15.873 N	61.121 W	93			13	LEEWARD ISLANDS. <TRN>. MD 3.4 (TRN).
27	13	36	46.5&	32.447 S	71.857 W	14			12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).
27	14	43	42.6?	45.91 N	15.20 E	10 G		0.3	4	NORTHWESTERN BALKAN REGION. ML 0.9 (LJU).
27	15	30	34.5*	29.788 N	68.310 E	33 N	4.2	1.1	19	PAKISTAN
27	16	35	49.0&	37.420 N	117.070 W	4			18	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.0 (REI). ML 3.1 (GS).
27	16	41	47.6&	16.511 N	100.592 W	16			10	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.0 (UNM).
27	17	08	59.1	46.255 N	13.671 E	10 G		1.0	13	AUSTRIA. ML 2.7 (VIE), 2.3 (LJU), 2.3 (TRI). Felt (IV) at Bovec and Kobariid, Slovenia.
27	17	09	27.5&	62.054 N	150.969 W	78	4.8		161	CENTRAL ALASKA. <AEIC>. Felt at Anchorage, Eagle River, Palmer, Skwentna, Talkeetna and Wasilla.
27	18	21	15.9&	17.449 N	101.810 W	16			10	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.9 (UNM).
27	19	18	42.2*	50.825 N	171.770 W	33 N	4.2	1.1	19	SOUTH OF ALEUTIAN ISLANDS
27	20	01	05.2&	37.950 N	0.800 W	7			21	SPAIN. <MDD>. mbLg 2.6 (MDD). Felt (III) at Almoradi, La Horadada, Los Montesinos, San Miguel de Salinas and Torrevieja; (II) at Arneva and Bigastro.
27	20	23	47.0?	45.56 N	15.99 E	5 G		0.6	6	NORTHWESTERN BALKAN REGION. ML 2.3 (VIE).
27	20	35	40.7?	31.60 S	69.79 W	100 G		0.8	12	SAN JUAN PROVINCE, ARGENTINA. MD 3.1 (GUC).
27	21	27	18.7	62.181 N	151.090 W	81 D	4.0	1.0	32	CENTRAL ALASKA. Felt (III) at Talkeetna. Also felt at Eagle River, Palmer, Skwentna and Wasilla.
27	21	53	20.1?	45.57 N	26.54 E	150 G		0.7	6	ROMANIA
27	22	07	23.7&	60.169 N	153.490 W	163			11	SOUTHERN ALASKA. <AEIC>.
27	23	08	41.0*	42.307 N	125.512 W	10 G		0.6	31	OFF COAST OF OREGON
27	23	19	15.0	20.170 S	177.781 W	385 D	4.4	0.9	41	FIJI ISLANDS REGION
27	23	31	15.1&	32.054 N	114.624 W	13 G			29	W. ARIZONA-SONORA BORDER REGION. <ECX-P>. MD 4.1 (ECV). ML 3.9 (GS), 3.7 (PAS). Felt in the Mexicali Valley, Baja California.
27	23	53	29.0*	17.397 S	178.822 W	600 G	3.9	0.5	16	FIJI ISLANDS REGION
28	00	44	24.0&	15.884 N	97.368 W	12	4.3		36	NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 4.5 (UNM).
28	00	48	46.7&	34.020 N	116.623 W	8			6	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
28	00	56	45.0&	6.830 N	73.130 W	150			9	NORTHERN COLOMBIA. <RSNC>.
28	02	32	28.3&	32.848 S	70.917 W	62			12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.2 (GUC).
28	02	52	10.2	0.747 N	80.102 W	33 N	4.6 3.7	1.0	51	NEAR COAST OF ECUADOR
28	03	26	24.9	27.801 S	73.857 E	10 G	5.5 5.3	1.0	150	MID-INDIAN RIDGE. Mw 5.6 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time

03:26:28.7; Lat 27.89 S; Lon 73.41 E; Dep 15.0 Fix; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=3.06, Plg=32, Azm=46; (N) Val=0.13, Plg=3, Azm=314; (P) Val=-3.19, Plg=58, Azm=220; Best double couple: Mo=3.1*10**17 Nm; NP1: Strike=147, Dip=13, Slip=-77; NP2: Strike=314, Dip=77, Slip=-93.

28 03 54 38.5& 18.051 N 98.082 W 16 7 CENTRAL MEXICO. <UNM>. MD 3.6 (UNM).

28 04 01 54.0* 15.266 S 177.695 W 400 G 4.1 0.9 20 FIJI ISLANDS REGION

28 04 20 59.7& 34.185 S 70.674 W 101 8 CHILE-ARGENTINA BORDER REGION. <GUC>.

28 04 27 47.9& 17.124 N 61.360 W 28 5.1 4.6 276 LEEWARD ISLANDS. <TRN>. Mw 5.4 (HRV). MD 5.0 (TRN). Felt (III) on Antigua and Guadeloupe. Also felt on St. Kitts. Centroid, Moment Tensor (HRV): Centroid origin time 04:27:52.0; Lat 16.95 N; Lon 61.46 W; Dep 41.3; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.39, Plg=59, Azm=241; (N) Val=-0.13, Plg=8, Azm=345; (P) Val=-1.26, Plg=30, Azm=80; Best double couple: Mo=1.3*10**17 Nm; NP1: Strike=194, Dip=17, Slip=120; NP2: Strike=343, Dip=75, Slip=81.

28 05 26 25.6 8.154 N 38.144 W 10 G 4.5 0.8 50 CENTRAL MID-ATLANTIC RIDGE

28 05 32 27.4? 45.62 N 26.56 E 150 G 0.8 6 ROMANIA

28 07 00 55.9& 33.296 N 116.758 W 11 24 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).

28 07 23 07.4 31.499 S 179.778 E 450 G 4.7 1.1 39 KERMADec ISLANDS REGION

28 08 27 47.9* 40.818 N 29.871 E 10 G 3.5 0.7 12 TURKEY

28 08 28 20.6& 37.960 N 1.060 W 0 G 9 SPAIN. <MDD>. mbLg 2.0 (MDD).

28 08 33 37.3& 37.910 N 1.120 W 0 G 8 SPAIN. <MDD>. mbLg 2.2 (MDD).

28 09 28 35.7& 33.695 S 71.755 W 33 12 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).

28 10 24 36.4& 39.400 S 175.110 E 197 5 NORTH ISLAND, NEW ZEALAND. <WEL>.

28 10 25 00.4& 35.978 S 71.509 W 107 13 CENTRAL CHILE. <GUC>. MD 3.5 (GUC).

28 10 30 30.4& 33.270 S 71.351 W 52 12 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).

28 11 27 46.0& 60.855 N 146.918 W 31 10 SOUTHERN ALASKA. <AEIC>. ML 3.1 (AEIC), 3.5 (FMR).

28 11 38 37.6* 36.868 N 21.824 E 78 * 3.8 1.1 32 SOUTHERN GREECE. Felt at Methoni.

28 11 49 17.6 47.395 N 10.887 E 10 G 0.9 54 AUSTRIA. ML 3.4 (VIE), 3.3 (STR), 3.3 (GRF), 3.2 (LDG), 3.2 (CLL), 3.0 (FUR). Felt (IV) at Lermoos.

28 12 38 29.1& 17.042 N 61.378 W 18 9 LEEWARD ISLANDS. <FDF>. MD 3.5 (TRN).

28 12 40 06.1 1.287 S 77.549 W 196 D 5.9 0.9 576 ECUADOR. Mw 6.3 (GS), 6.2 (HRV). Me 6.2 (GS). Broadband Source Parameters (GS): Dep 198; NP1: Strike=320, Dip=75, Slip=-90; NP2: Strike=140, Dip=15, Slip=-90; Radiated energy 4.9*10**13 Nm. Moment Tensor (GS): Dep 200; Principal axes (scale 10**18 Nm): (T) Val=2.86, Plg=24, Azm=52; (N) Val=-0.32, Plg=6, Azm=145; (P) Val=-2.54, Plg=65, Azm=248; Best double couple: Mo=2.7*10**18 Nm; NP1: Strike=129, Dip=22, Slip=-107; NP2: Strike=327, Dip=69, Slip=-84. Centroid, Moment Tensor (HRV): Centroid origin time 12:40:09.1; Lat 1.36 S; Lon 77.75 W; Dep 198.2; Half-duration 3.5 sec; Principal axes (scale 10**18 Nm): (T) Val=2.69, Plg=28, Azm=46; (N) Val=-0.36, Plg=5, Azm=138; (P) Val=-2.33, Plg=61, Azm=238; Best double couple: Mo=2.5*10**18 Nm; NP1: Strike=122, Dip=18, Slip=-107; NP2: Strike=320, Dip=73, Slip=-85.

28 15 03 14.7& 45.260 N 6.480 E 2 G 87 FRANCE. <STR>. ML 3.6 (LDG), 3.3 (STR).

28 15 24 09.6? 52.89 S 140.78 E 10 G 4.5 1.2 13 WEST OF MACQUARIE ISLAND

28 16 14 21.8& 41.190 N 2.060 W 7 19 SPAIN. <MDD>. mbLg 2.8 (MDD).

28 16 45 56.7 43.127 N 126.647 W 10 G 0.6 46 OFF COAST OF OREGON

28 18 19 00.2 36.306 N 68.494 E 33 N 4.7 0.8 54 HINDU KUSH REGION, AFGHANISTAN

28 20 05 44.9* 34.472 N 46.053 E 33 N 4.1 0.8 9 WESTERN IRAN

28 20 16 33.5 35.105 N 30.538 E 33 N 4.7 3.8 1.1 167 EASTERN MEDITERRANEAN SEA. ML 4.7 (GII).

28 20 29 58.8 7.722 S 116.382 E 298 4.7 1.1 52 BALI SEA

28 21 22 12.0& 35.054 S 71.117 W 94 11 CENTRAL CHILE. <GUC>. MD 3.5 (GUC).

28 21 23 23.6& 43.050 N 1.210 W 10 G 10 PYRENEES. <STR>. ML 2.2 (STR).

28 22 42 26.2& 11.073 N 60.814 W 22 4 WINDWARD ISLANDS. <TRN>. MD 2.9 (TRN).

28 23 21 43.8 21.030 S 68.232 W 122 D 4.9 0.9 107 CHILE-BOLIVIA BORDER REGION

28 23 23 29.5& 48.340 N 7.650 E 2 G 7 FRANCE. <STR>. ML 1.7 (STR).

28 23 27 41.2 45.690 N 14.150 E 10 G 0.1 7 NORTHWESTERN BALKAN REGION. ML 1.8 (LJU).

28 23 54 09.9& 47.600 N 1.000 W 8 11 FRANCE. <LDG>. ML 2.7 (STR), 2.3 (LDG).

29 00 00 25.7& 42.910 N 0.250 E 5 G 4 PYRENEES. <STR>. ML 2.3 (STR).

29 00 36 49.0* 19.138 S 173.352 W 33 N 4.7 1.0 24 TONGA ISLANDS

29 00 46 13.4 3.103 N 65.855 E 10 G 5.8 5.6 1.1 286 CARLSBERG RIDGE. Mw 6.0 (GS), 5.9 (HRV). Me 5.9 (GS). Broadband Source Parameters (GS): Dep 5; NP1: Strike=302, Dip=75, Slip=-120; NP2: Strike=188, Dip=33, Slip=-28; Radiated energy 1.5*10**13 Nm. Moment Tensor (GS): Dep 4; Principal axes (scale 10**18 Nm): (T) Val=1.08, Plg=25, Azm=35; (N) Val=-0.10, Plg=0, Azm=305; (P) Val=-0.98, Plg=65, Azm=214; Best double couple: Mo=1.0*10**18 Nm; NP1: Strike=126, Dip=20, Slip=-89; NP2: Strike=305, Dip=70, Slip=-90. Centroid, Moment Tensor (HRV): Centroid origin time 00:46:18.4; Lat 2.75 N; Lon 65.87 E; Dep 15.0 Bdy; Half-duration 2.5 sec; Principal axes (scale 10**17 Nm): (T) Val=8.83, Plg=29, Azm=22; (N) Val=-0.37, Plg=8, Azm=287; (P) Val=-8.46, Plg=59, Azm=183; Best double couple: Mo=8.6*10**17 Nm; NP1: Strike=135, Dip=17, Slip=-61; NP2: Strike=285, Dip=75, Slip=-99.

29 00 56 44.1? 6.56 N 72.84 W 200 G 4.1 1.3 9 NORTHERN COLOMBIA

29 01 12 53.9& 42.830 N 0.510 E 5 G 19 PYRENEES. <STR>. ML 2.5 (LDG), 2.5 (STR). mbLg 2.1 (MDD).

29 01 54 49.1& 44.629 N 7.220 E 11 26 NORTHERN ITALY. <GEN>. ML 2.3 (GEN), 2.2 (LDG), 2.2 (STR).

29 02 34 03.0& 41.848 N 20.147 E 10 11 ALBANIA. <PDG>. MD 2.4 (PDG).

29 02 54 37.6 8.371 N 93.945 E 33 N 4.6 0.8 48 NICOBAR ISLANDS, INDIA

29 03 44 52.0 8.355 N 93.826 E 33 N 4.9 4.8 1.1 87 NICOBAR ISLANDS, INDIA. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 03:44:51.6; Lat 8.88 N; Lon 93.52 E; Dep 24.8; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=9.93, Plg=31, Azm=151; (N) Val=-3.39, Plg=55, Azm=301;

(P) Val=-6.54, Plg=14, Azm=52; Best double couple:
Mo=8.2*10**16 Nm; NP1: Strike=187, Dip=58, Slip=167; NP2:
Strike=285, Dip=79, Slip=33.

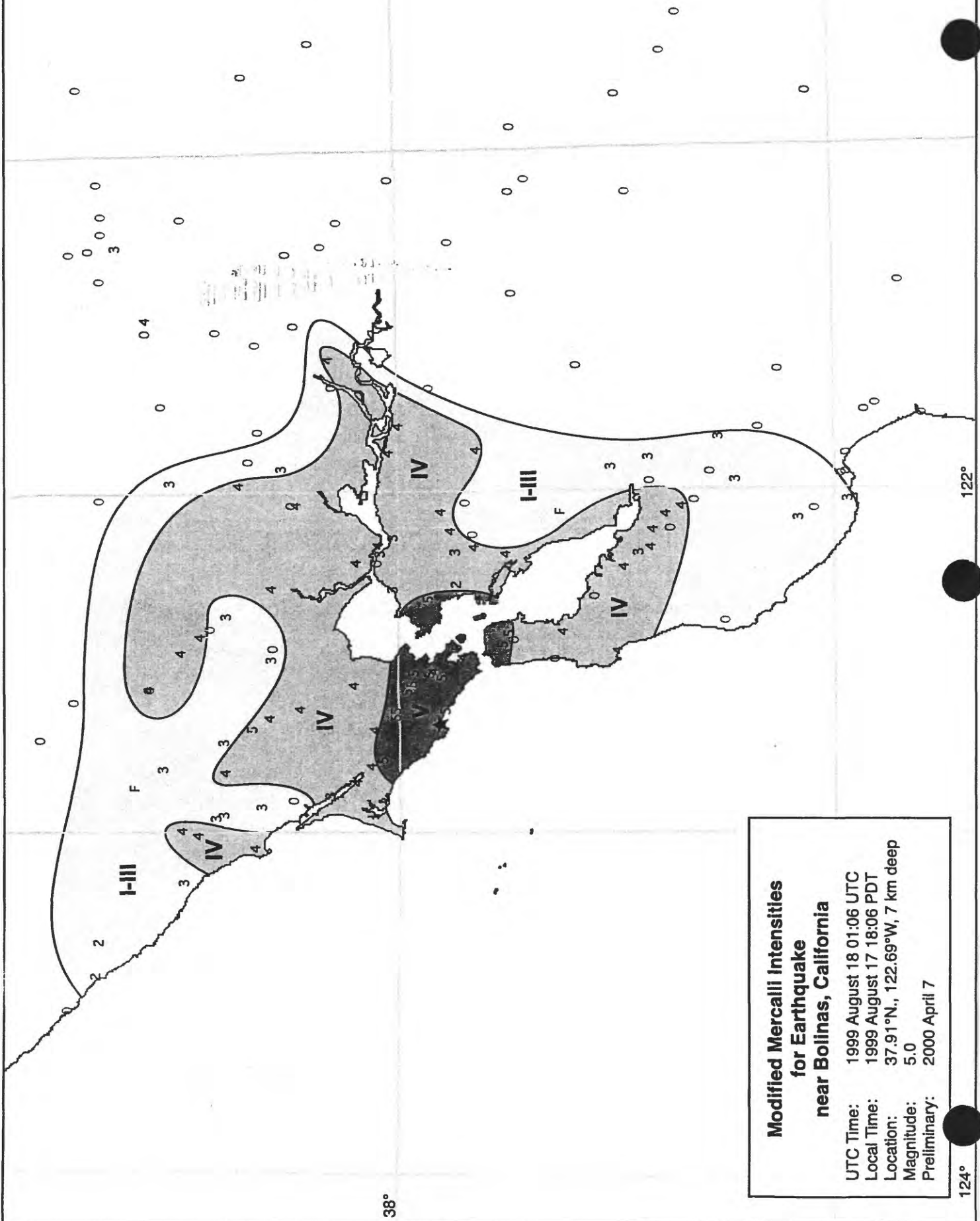
29	04	28	40.8&	37.600 N	3.740 W	28	5	SPAIN. <MDD>. mbLg 1.2 (MDD).
29	04	49	28.6	14.888 N	45.072 W	10 G	4.6 4.2	0.7 60 NORTHERN MID-ATLANTIC RIDGE
29	04	59	03.6?	27.47 S	178.17 W	245 ?	4.5	1.3 25 KERMADEC ISLANDS REGION
29	05	02	12.7&	41.900 S	173.540 E	52		8 SOUTH ISLAND, NEW ZEALAND. <WEL>.
29	05	32	48.3	57.123 S	27.290 W	170 ?	4.7	0.9 30 SOUTH SANDWICH ISLANDS REGION
29	07	17	50.1?	7.47 S	128.47 E	146 ?	4.0	1.5 9 BANDA SEA
29	08	22	41.5*	18.876 S	178.387 W	543 ?	4.0	0.9 29 FIJI ISLANDS REGION
29	08	57	18.1&	8.956 N	84.002 W	20 G		11 OFF COAST OF COSTA RICA. <CASC>. MD 4.0 (CASC).
29	09	06	28.5*	0.153 S	132.279 E	67 ?	4.6 4.2	1.2 16 IRIAN JAYA REGION, INDONESIA
29	09	30	14.9&	33.561 S	71.944 W	9		9 NEAR COAST OF CENTRAL CHILE. <GUC>.
29	10	15	02.2	40.725 N	31.173 E	10 G	4.2 3.4	1.0 76 TURKEY. Felt at Bolu and Istanbul.
29	10	32	17.9	39.771 N	77.021 E	80 D	4.4	1.2 27 SOUTHERN XINJIANG, CHINA
29	11	26	36.8&	43.011 N	17.880 E	8		9 NORTHWESTERN BALKAN REGION. <PDG>. MD 2.4 (PDG).
29	11	28	31.9&	61.816 N	151.509 W	92		11 SOUTHERN ALASKA. <AEIC>.
29	11	35	43.3?	22.22 S	179.59 W	600 G	4.1	1.1 16 SOUTH OF FIJI ISLANDS
29	13	30	40.5?	23.74 S	179.74 E	600 G	4.6	0.8 14 SOUTH OF FIJI ISLANDS
29	14	24	25.8	3.130 S	150.330 E	33 N	4.7 4.3	1.3 30 NEW IRELAND REGION, P.N.G.
29	14	39	50.8*	1.054 S	147.195 E	33 N	4.4	1.3 17 ADMIRALTY ISLANDS REGION, P.N.G.
29	16	58	19.0&	43.383 N	17.992 E	11		9 NORTHWESTERN BALKAN REGION. <PDG>. MD 2.2 (PDG).
29	17	05	56.6&	30.665 S	71.673 W	18		10 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).
29	17	26	19.3&	31.580 S	71.837 W	18		14 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.2 (GUC).
29	17	44	04.3*	47.270 N	4.887 W	10 G		0.7 16 FRANCE. ML 3.2 (LDG).
29	19	17	10.7&	32.043 N	114.531 W	12 G		6 W. ARIZONA-SONORA BORDER REGION. <ECX-P>. MD 3.8 (ECX). ML 3.5 (PAS). Felt in the Mexicali Valley, Baja California.
29	19	19	15.1&	33.620 S	71.976 W	23		11 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).
29	20	05	50.6&	33.608 S	71.952 W	13		9 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
29	20	56	31.5	28.147 N	56.457 E	33 N	4.4	0.8 29 SOUTHERN IRAN
29	21	12	52.3	46.655 N	152.748 E	45	4.6 4.1	0.9 113 KURIL ISLANDS
29	21	43	22.6*	37.408 S	176.511 E	329 *		0.6 22 NORTH ISLAND, NEW ZEALAND
29	22	24	28.0&	33.170 S	72.047 W	15		9 OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
29	23	27	56.0	17.935 S	178.689 W	572 ?	4.4	0.8 66 FIJI ISLANDS REGION
30	00	16	54.0&	45.620 N	15.970 E	22		13 NORTHWESTERN BALKAN REGION. <ZAG>. ML 2.9 (VIE), 2.5 (ZAG).
30	01	59	02.2&	16.114 N	98.918 W	19		11 NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.7 (UNM).
30	02	22	46.2&	43.400 N	0.700 W	4		5 PYRENEES. <LDG>. ML 2.1 (LDG).
30	02	38	38.5&	47.400 N	7.300 E	5 G		5 SWITZERLAND. <STR>. ML 1.7 (STR).
30	02	54	26.8&	39.570 N	2.570 W	0		6 SPAIN. <MDD>. mbLg 1.4 (MDD).
30	03	24	53.0&	38.370 N	118.680 W	14		9 CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.4 (REN). ML 2.8 (GS).
30	03	37	35.2&	37.110 N	3.510 W	0 G		12 SPAIN. <MDD>. mbLg 2.2 (MDD). Felt (III) at Armilla.
30	04	22	04.2&	16.217 N	98.059 W	11		13 NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.7 (UNM).
30	05	01	53.6&	62.423 N	149.543 W	59		10 CENTRAL ALASKA. <AEIC>. ML 3.6 (AEIC), 3.8 (PMR).
30	06	17	08.4	7.705 S	147.023 E	10 G	4.9 4.5	0.9 26 EASTERN NEW GUINEA REG., P.N.G.
30	06	36	08.2	10.860 N	124.899 E	81	4.3	0.7 14 LEYTE, PHILIPPINE ISLANDS
30	06	51	26.7&	39.310 N	32.401 E	2		6 TURKEY. <ISK>. MD 4.1 (ISK).
30	07	18	06.6&	40.640 N	29.114 E	8		6 TURKEY. <ISK>. MD 3.2 (ISK).
30	08	14	09.8&	59.474 N	152.871 W	108		9 SOUTHERN ALASKA. <AEIC>.
30	08	20	07.4&	8.881 N	84.010 W	20 G		9 OFF COAST OF COSTA RICA. <CASC>. MD 4.2 (CASC).
30	08	48	09.3	68.328 N	18.222 W	10 G	4.3 4.1	1.0 29 ICELAND REGION
30	09	00	28.7&	40.532 N	29.148 E	1		7 TURKEY. <ISK>. MD 3.0 (ISK).
30	09	00	42.2*	68.574 N	18.050 W	10 G	4.2	1.4 16 ICELAND REGION
30	09	08	33.9	68.153 N	18.247 W	10 G	4.3 4.1	1.3 45 ICELAND REGION
30	09	12	26.1*	68.669 N	17.928 W	10 G	4.3	1.4 20 ICELAND REGION
30	09	13	12.4	68.302 N	17.930 W	10 G	4.6 4.2	1.0 93 ICELAND REGION
30	09	18	01.2	68.333 N	18.185 W	10 G	4.3	1.0 37 ICELAND REGION
30	09	22	28.8*	68.313 N	18.055 W	10 G	4.2 3.6	1.5 17 ICELAND REGION
30	09	24	33.0&	10.207 N	61.964 W	1		8 TRINIDAD. <TRN>. MD 3.5 (TRN).
30	09	29	36.6*	68.273 N	18.417 W	10 G	4.7 4.1	1.2 29 ICELAND REGION
30	09	40	59.0*	68.643 N	18.118 W	10 G		1.1 15 ICELAND REGION
30	09	59	50.0*	68.403 N	18.112 W	10 G	4.5	1.5 15 ICELAND REGION
30	10	00	53.1&	19.927 N	65.618 W	94		6 PUERTO RICO REGION. <MPR>. MD 3.0 (MPR).
30	10	19	35.4*	68.291 N	18.203 W	10 G	4.4	1.3 13 ICELAND REGION
30	10	57	13.8&	35.900 N	4.780 W	13		16 STRAIT OF GIBRALTAR. <MDD>. mbLg 2.5 (MDD).
30	11	45	45.0*	68.908 N	17.484 W	10 G	4.3	0.8 10 ICELAND REGION
30	11	53	01.8&	15.563 N	93.136 W	92		12 NEAR COAST OF CHIAPAS, MEXICO. <UNM>. MD 4.2 (UNM).
30	11	56	54.5*	34.032 N	141.535 E	33 N	4.7	1.0 23 OFF EAST COAST OF HONSHU, JAPAN
30	12	03	53.0&	38.740 N	119.730 W	8		13 CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.8 (REN). ML 3.0 (BRK), 3.1 (GS).
30	12	28	25.7*	23.990 S	179.728 E	523 ?	4.0	0.7 21 SOUTH OF FIJI ISLANDS
30	13	17	58.5	14.406 N	90.830 W	104 D	4.3	1.1 66 GUATEMALA. MD 4.5 (UNM), 4.4 (CASC).
30	13	18	40.0&	38.740 N	119.730 W	8		10 CALIFORNIA-NEVADA BORDER REGION. <REN-P>. ML 2.8 (GS).
30	13	50	02.7	41.157 S	42.817 E	10 G	4.8 4.7	0.7 23 PRINCE EDWARD ISLANDS REGION
30	14	29	44.0	36.200 N	67.143 E	33 N	4.7	1.4 40 HINDU KUSH REGION, AFGHANISTAN
30	15	24	37.1&	40.750 N	29.266 E	9		12 TURKEY. <ISK>. MD 3.5 (ISK).
30	17	31	46.0&	34.483 S	71.965 W	28		8 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
30	17	38	15.9?	25.71 S	177.52 W	197 ?	4.4	1.1 16 SOUTH OF FIJI ISLANDS
30	17	41	19.6&	41.877 N	20.125 E	12		9 ALBANIA. <PDG>. MD 2.2 (PDG).
30	19	11	47.6?	4.49 N	125.67 E	174 *	4.2	0.6 9 TALAUD ISLANDS, INDONESIA
30	19	57	38.5*	23.682 S	179.833 E	618 ?	4.7	0.8 43 SOUTH OF FIJI ISLANDS
30	20	06	04.3&	33.037 S	71.490 W	40		8 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.2 (GUC).
30	21	07	33.5&	63.645 N	149.590 W	137		8 CENTRAL ALASKA. <AEIC>.
30	21	58	22.0&	42.240 N	8.320 W	14		29 SPAIN. <MDD>. mbLg 2.9 (MDD). Felt (III) at Chapela, Covelo, La Caniza, Mondariz, Mos, Pazos, Pontareas and Redondela; (II) at Fornelos de Montes, La Guardia, Lalin, Pontevedra, Sotomayor and Vigo.
31	00	44	12.0&	32.760 S	70.326 W	117		12 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
31	01	09	57.4	51.314 N	179.077 E	68 *	4.5	0.9 51 RAT ISLANDS, ALEUTIAN ISLANDS. ML 5.0 (PMR).
31	01	26	44.6&	44.800 N	5.000 E	14		10 FRANCE. <LDG>. ML 1.7 (LDG).
31	01	45	30.8&	33.526 S	70.209 W	107		8 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).
31	02	06	41.7&	32.737 S	70.347 W	113		9 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.9 (GUC).
31	02	11	11.7?	45.58 N	26.47 E	150 G		0.2 5 ROMANIA

31	03	31	54.4&	44.074 N	8.718 E	1				17	NORTHERN ITALY. <GEN>. ML 2.1 (GEN), 1.9 (STR), 1.6 (LDG).
31	04	14	32.6&	33.275 S	71.901 W	4				9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.2 (GUC).
31	04	35	01.2&	45.600 N	6.500 E	2				4	FRANCE. <LDG>. ML 1.2 (LDG).
31	05	31	23.0&	38.120 N	1.680 W	9				11	SPAIN. <MDD>. mbLg 2.4 (MDD).
31	05	47	24.5&	42.250 N	8.300 W	0				4	SPAIN. <MDD>. mbLg 3.1 (MDD). Felt (III) at Covelo, Mondariz, Pazos and Pontareas.
31	06	56	58.1?	21.15 S	169.64 E	33 N	4.2	1.1		20	LOYALTY ISLANDS REGION
31	07	17	57.7	51.318 N	179.049 E	57 *	4.4	0.9		37	RAT ISLANDS, ALEUTIAN ISLANDS. ML 4.9 (PMR).
31	08	10	49.5	40.711 N	29.949 E	10 G	5.2 4.9	1.0		327	TURKEY. Mw 5.2 (HRV). MD 5.2 (ISK). One person killed, 166 injured and additional damage in the Izmit area. Felt at Istanbul.
											Centroid, Moment Tensor (HRV): Centroid origin time 08:10:51.3; Lat 40.43 N; Lon 30.25 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.90, Plg=27, Azm=191; (N) Val=-0.64, Plg=31, Azm=84; (P) Val=-6.26, Plg=47, Azm=314; Best double couple: Mo=6.6*10**16 Nm; NP1: Strike=329, Dip=33, Slip=-22; NP2: Strike=77, Dip=78, Slip=121.
31	08	23	21.4&	17.465 N	61.819 W	7				4	LEEWARD ISLANDS. <TRN>. MD 2.8 (TRN).
31	08	33	23.8	40.708 N	29.954 E	10 G	4.5	1.1	141		TURKEY. MD 4.6 (ISK).
31	08	35	47.2	33.501 N	137.176 E	357	4.5	0.9	63		NEAR S. COAST OF HONSHU, JAPAN
31	08	42	52.7&	18.189 N	155.703 W	30	4.0		31		HAWAII. <HVO-P>. MD 4.3 (HVO).
31	08	46	31.9&	34.208 S	70.934 W	79			7		CHILE-ARGENTINA BORDER REGION. <GUC>.
31	09	25	45.9*	31.624 S	68.783 W	100 G		0.9	14		SAN JUAN PROVINCE, ARGENTINA. MD 3.6 (GUC).
31	09	33	21.3*	24.688 S	177.389 W	144 ?	4.8	1.0	29		SOUTH OF FIJI ISLANDS
31	09	53	53.6&	35.040 S	71.148 W	92			9		CENTRAL CHILE. <GUC>.
31	10	42	00.5&	32.858 S	70.837 W	71			9		CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.0 (GUC).
31	11	06	42.0&	40.729 N	29.334 E	5			4		TURKEY. <ISK>. MD 3.0 (ISK).
31	11	21	13.8*	20.306 S	173.958 W	33 N	4.6	0.7	27		TONGA ISLANDS
31	11	32	54.0&	37.390 N	117.080 W	6			8		CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.3 (REN).
31	11	39	45.3&	38.795 N	122.778 W	3			9		NORTHERN CALIFORNIA. <GM-P>. ML 3.1 (GM), 3.1 (BRK).
31	11	49	52.2	52.856 N	170.075 W	33 N	4.6 4.1	0.8	57		FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.9 (PMR).
31	12	01	00.1	36.214 N	71.344 E	33 N	4.9 4.0	0.9	74		AFGHANISTAN-TAJIKISTAN BORD REG.
31	12	28	10.9&	33.974 S	70.129 W	8			9		CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.7 (GUC).
31	12	30	08.6&	33.969 S	70.114 W	9			8		CHILE-ARGENTINA BORDER REGION. <GUC>.
31	13	24	59.6&	34.850 S	70.895 W	108			13		CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
31	15	00	21.2*	15.771 S	75.046 W	33 N	4.3	1.3	14		NEAR COAST OF PERU. Felt (II) in the epicentral area.
31	15	03	51.0&	37.980 N	1.290 W	1			10		SPAIN. <MDD>. mbLg 2.3 (MDD). Felt (III) at Albudeite and Campos del Rio; (II) at Ceuti and Lorqui.
31	15	21	59.3	9.923 S	116.229 E	78 *	5.0 4.2	1.3	71		SUMBAWA REGION, INDONESIA. Mw 5.1 (HRV).
											Centroid, Moment Tensor (HRV): Centroid origin time 15:21:59.5; Lat 10.24 S; Lon 116.25 E; Dep 45.1; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.39, Plg=77, Azm=318; (N) Val=0.52, Plg=7, Azm=197; (P) Val=-5.90, Plg=11, Azm=106; Best double couple: Mo=5.7*10**16 Nm; NP1: Strike=187, Dip=34, Slip=78; NP2: Strike=22, Dip=57, Slip=98.
31	15	36	29.1&	37.190 N	3.720 W	0			5		SPAIN. <MDD>. mbLg 1.9 (MDD).
31	16	32	38.2&	44.518 N	7.141 E	10			21		NORTHERN ITALY. <GEN>. ML 2.4 (GEN), 1.9 (STR), 1.9 (LDG).
31	16	49	22.2*	44.600 N	129.081 W	10 G	3.5	0.8	24		OFF COAST OF OREGON
31	17	56	19.0&	40.528 N	125.497 W	23			3		OFF COAST OF NORTHERN CALIFORNIA. <GM-P>. ML 3.8 (GM), 3.6 (BRK).
31	18	00	51.3&	46.900 N	1.900 W	3			13		FRANCE. <LDG>. ML 3.0 (LDG).
31	18	55	50.7&	43.000 N	0.100 W	10			9		PYRENEES. <LDG>. ML 2.3 (LDG), 2.2 (STR).
31	19	53	27.8*	33.810 N	137.152 E	358	4.2	0.8	18		NEAR S. COAST OF HONSHU, JAPAN
31	20	05	56.0*	7.669 S	129.618 E	33 N	4.4	1.2	18		BANDA SEA
31	20	17	42.0?	68.21 N	18.25 W	10 G	3.8	1.2	6		ICELAND REGION
31	21	20	43.6*	39.766 N	139.782 E	180 *	3.8	1.1	12		NEAR WEST COAST OF HONSHU, JAPAN
31	22	28	34.1	40.555 N	29.130 E	10 G	4.2	1.3	57		TURKEY
31	23	03	07.0&	45.187 N	120.091 W	3			65		WASHINGTON-OREGON BORDER REGION. <SEA-P>. MD 3.2 (SEA).

Additional instrumental and field observations for the Turkey earthquake of August 17 at 00:02 UTC were obtained from:

Barka, A. (1999). The 17 August 1999 Izmit Earthquake, Science, v. 285, no. 5435, pp. 1858-1859.

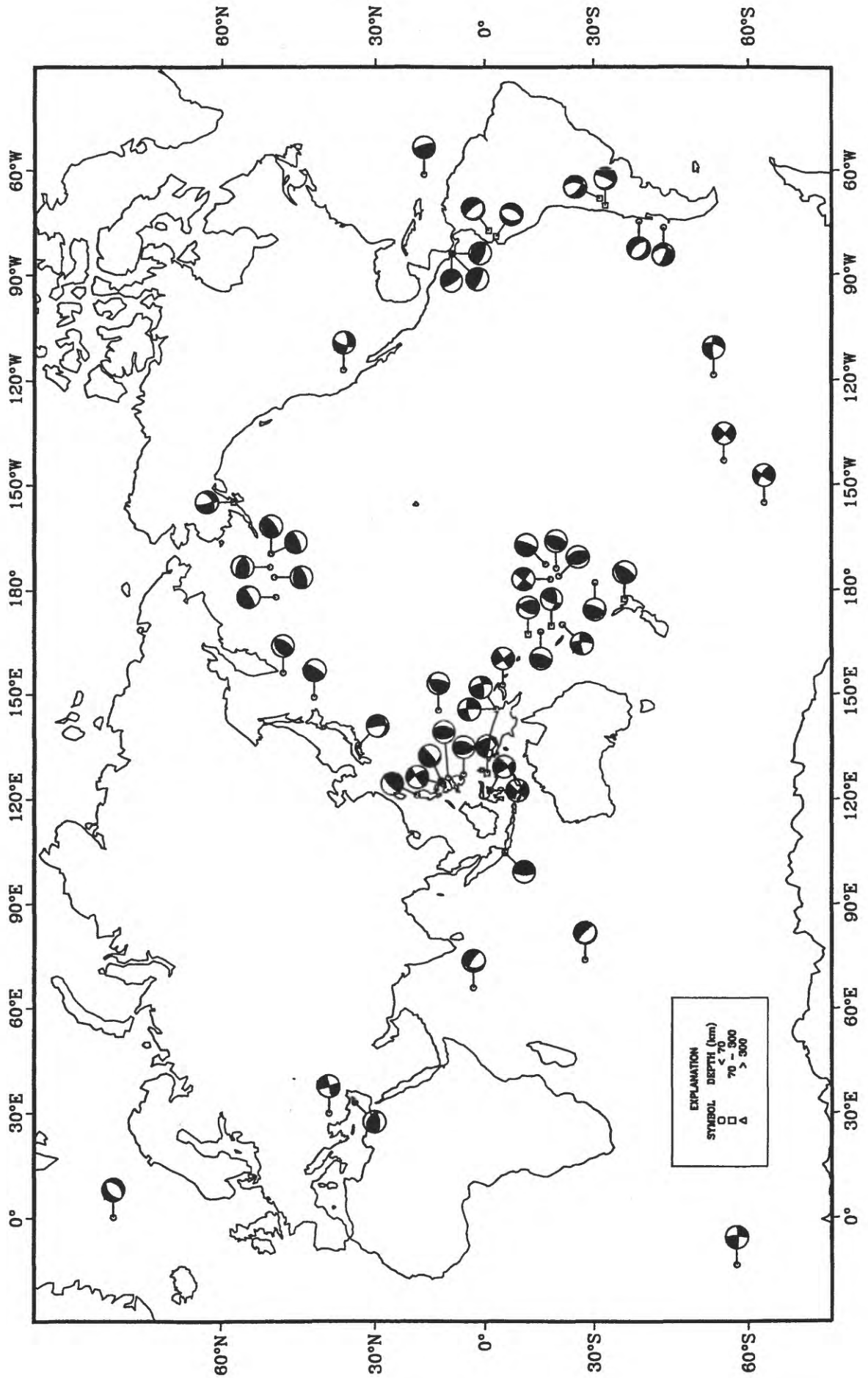
Compiled by John J. Bellini, Pamela J. Benfield, Don L. Blakeman, Charles G. Bufe, George L. Choy, Stuart K. Koyanagi, Brian C. Lassige, Alena L. Leeds, John H. Minsch, Waverly J. Person, Bruce W. Presgrave, Stuart A. Sipkin, William K. Smith, Trina F. Vithayathil and Madeleine D. Zirbes.



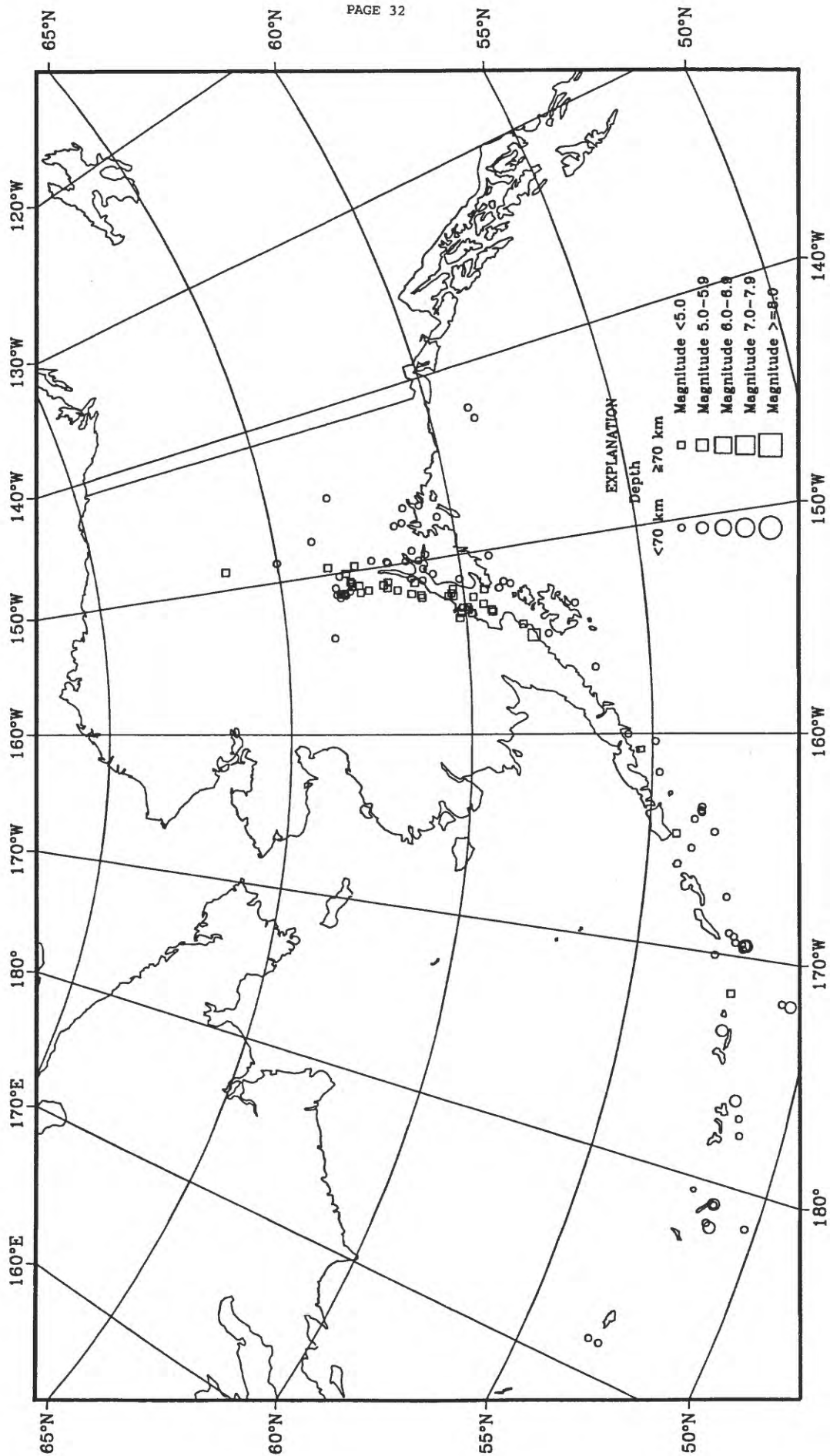
**Modified Mercalli Intensities
for Earthquake
near Bolinas, California**

UTC Time: 1999 August 18 01:06 UTC
 Local Time: 1999 August 17 18:06 PDT
 Location: 37.91°N., 122.69°W, 7 km deep
 Magnitude: 5.0
 Preliminary: 2000 April 7

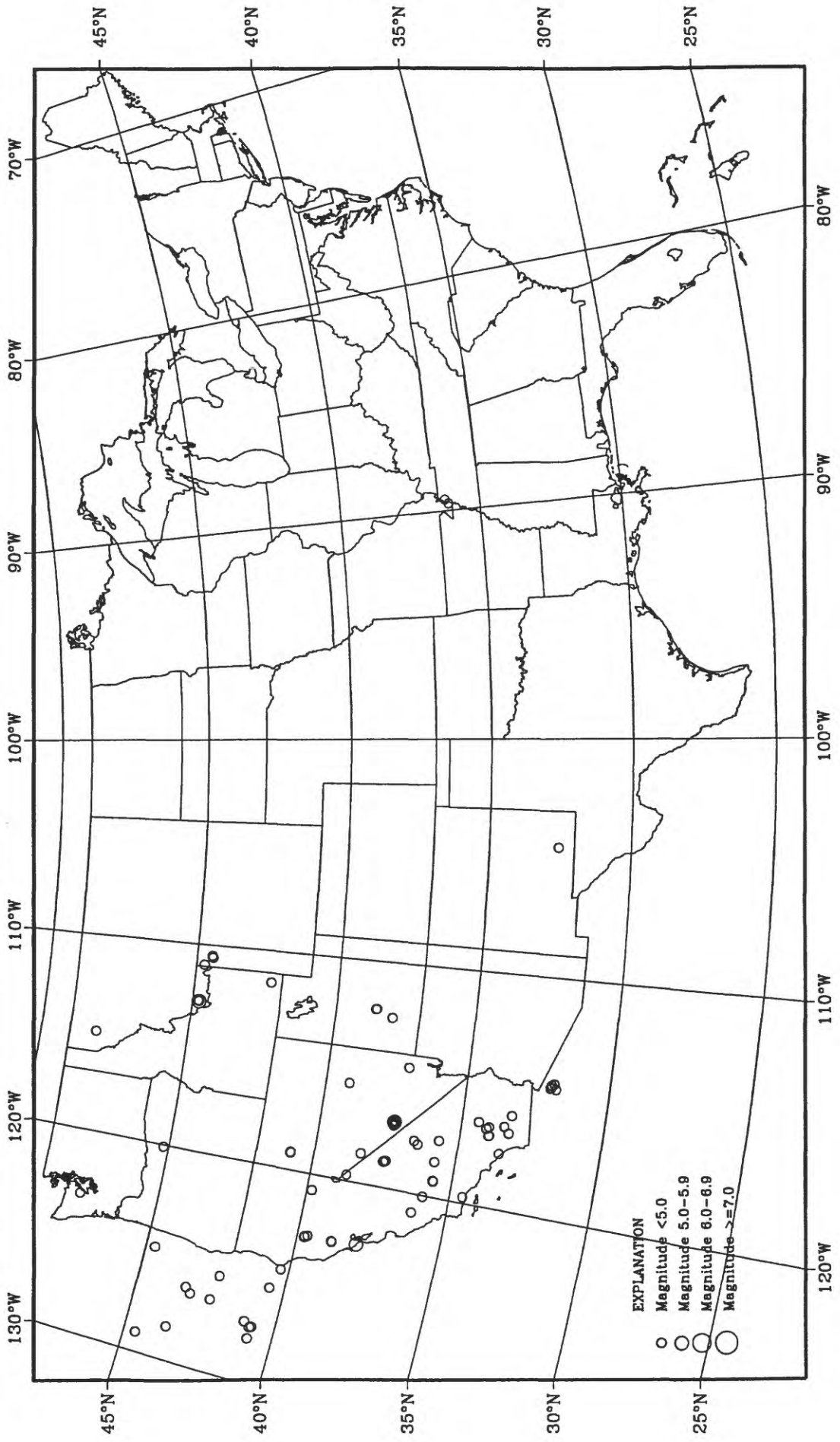
Earthquake Focal Mechanisms for August 1999



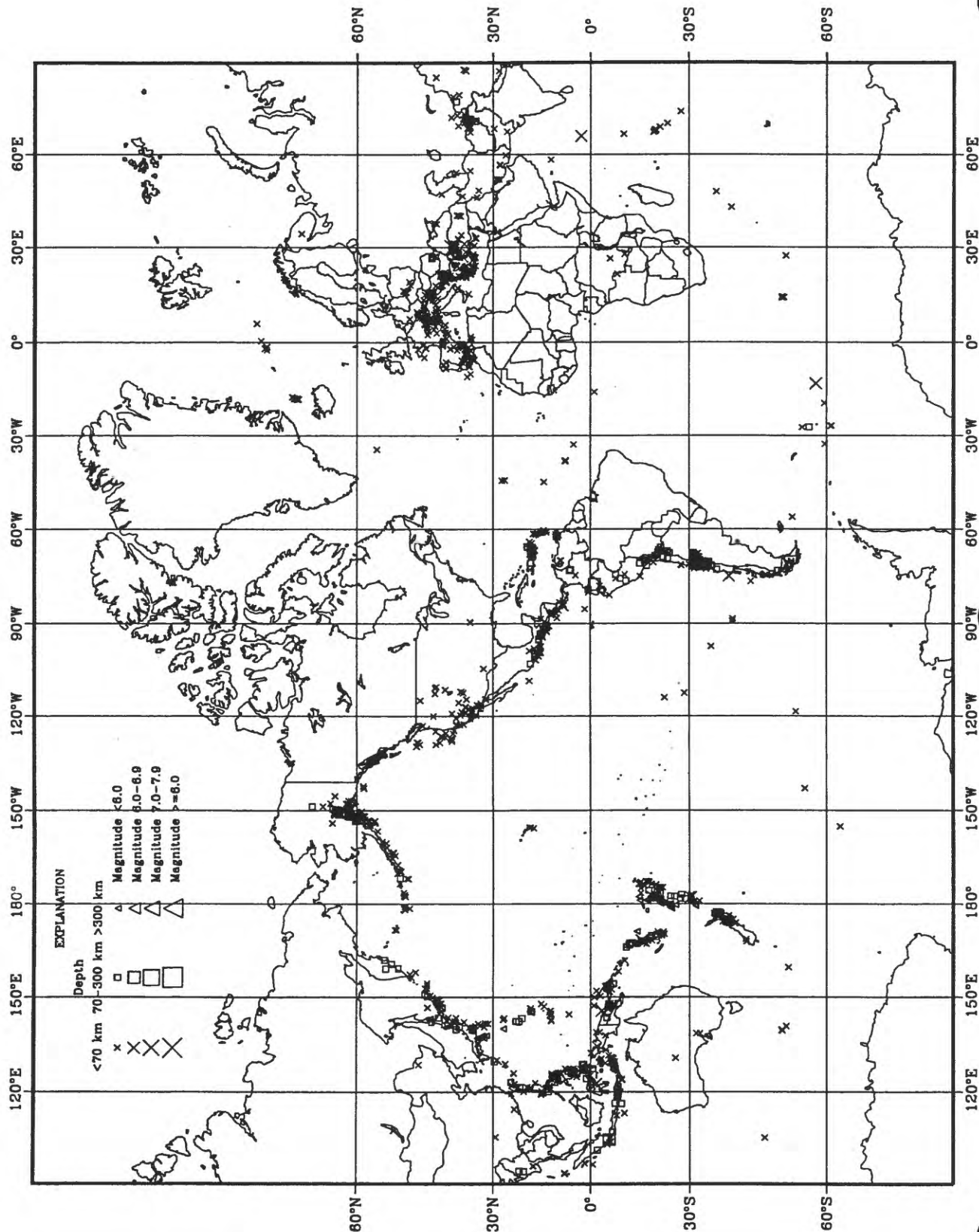
Earthquake epicenters in Alaska and adjacent regions for August 1999



Earthquake epicenters in the conterminous United States and adjacent regions for August 1999



Earthquakes located worldwide in August 1999



Preliminary Determination of Epicenters

Monthly Listing

National Earthquake Information Center

SEPTEMBER 1999

ORIGIN TIME				GEOGRAPHIC		DEPTH	MAGNITUDE	SD	NO.	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS	
UTC				COORDINATES			GS		STA		
DAY	HR	MN	SEC	LAT	LONG		MB	Msz	USED		
01	00	25	38.5	59.751 N	152.165 W	84			10	SOUTHERN ALASKA. <AEIC>.	
01	00	56	38.7	32.765 S	71.697 W	15			8	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).	
01	00	59	39.4	43.100 N	0.500 W	6			10	PYRENEES. <LDG>. ML 2.5 (LDG), 2.2 (STR).	
01	01	13	47.1	18.014 N	67.162 W	12			4	MONA PASSAGE. <MPR>. ML 3.1 (MPR).	
01	02	14	40.6	37.528 N	21.224 E	33 N	4.1	1.5	95	SOUTHERN GREECE. ML 4.5 (ATH). MD 4.3 (PDG).	
01	02	31	07.0	12.612 N	60.172 W	47			4	WINDWARD ISLANDS. <TRN>. MD 3.9 (TRN).	
01	02	54	22.2	2.599 N	79.802 W	33 N	4.8	0.9	83	SOUTH OF PANAMA	
01	02	56	21.1	24.382 S	67.118 W	174 *	4.6	1.5	20	CHILE-ARGENTINA BORDER REGION	
01	03	18	07.7	62.322 N	149.300 W	49			13	CENTRAL ALASKA. <AEIC>. ML 3.0 (AEIC), 3.5 (PMR).	
01	03	23	27.1	40.566 N	29.164 E	10 G	3.9	1.3	10	TURKEY. MD 3.9 (ISK).	
01	04	03	04.7	44.034 N	128.148 W	10 G	4.2	0.7	46	OFF COAST OF OREGON	
01	04	07	53.7	10.163 S	34.179 E	10 G	4.5	1.3	31	MALAWI	
01	04	36	57.7	8.281 S	120.619 E	33 N	4.6	0.9	18	FLORES REGION, INDONESIA. Felt (III) at Ruteng.	
01	05	00	50.3	53.220 N	4.009 W	10 G		1.1	25	UNITED KINGDOM. ML 3.3 (LDG). Felt (IV) at Caernarfon.	
01	05	45	17.7	36.030 N	2.690 W	0			4	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.5 (MDD).	
01	06	42	41.6	4.676 N	32.613 W	10 G	4.9	4.6	0.9	125	CENTRAL MID-ATLANTIC RIDGE. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 06:42:49.0; Lat 5.18 N; Lon 32.70 W; Dep 15.0 Fix; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=3.72, Plg=0, Azm=136; (N) Val=1.29, Plg=0, Azm=46; (P) Val=-5.01, Plg=90, Azm=180; Best double couple: Mo=4.4*10**16 Nm; NP1: Strike=226, Dip=45, Slip=-90; NP2: Strike=46, Dip=45, Slip=-90.
01	08	43	31.4	34.237 S	70.658 W	110			8	CHILE-ARGENTINA BORDER REGION. <GUC>.	
01	09	24	49.4	37.510 N	1.860 W	6			11	SPAIN. <MDD>. mbLg 2.5 (MDD).	
01	09	51	51.2	34.929 S	72.608 W	19			8	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).	
01	10	38	19.0	36.190 N	9.520 W	16			7	WEST OF GIBRALTAR. <MDD>. mbLg 2.4 (MDD).	
01	10	42	46.8	44.409 N	8.858 E	2			7	NORTHERN ITALY. <GEN>. ML 2.1 (GEN).	
01	10	47	03.0	38.600 S	176.220 E	119			19	NORTH ISLAND, NEW ZEALAND. <WEL>.	
01	11	10	22.0	35.163 S	71.264 W	108			8	CENTRAL CHILE. <GUC>. MD 2.9 (GUC).	
01	11	47	23.8	47.471 N	115.783 W	2			38	MONTANA. <BUT-P>. ML 3.0 (BUT). Felt at Silverton and Wallace, Idaho.	
01	12	14	11.9	61.803 N	149.002 W	13			19	SOUTHERN ALASKA. <AEIC>. ML 3.1 (AEIC), 3.4 (PMR). Felt (III) at Sutton.	
01	12	43	22.5	41.140 N	20.179 E	10 G		0.8	10	ALBANIA. MD 2.6 (PDG).	
01	14	49	31.1	18.705 N	67.336 W	8			7	MONA PASSAGE. <MPR>. ML 3.4 (MPR).	
01	15	30	23.8	40.750 S	173.170 E	170			15	COOK STRAIT, NEW ZEALAND. <WEL>.	
01	15	54	49.0	46.200 N	7.200 E	2			24	SWITZERLAND. <LDG>. ML 2.6 (LDG), 2.6 (STR).	
01	18	06	05.2	10.865 N	62.191 W	93			5	NEAR COAST OF VENEZUELA. <TRN>. MD 3.2 (TRN).	
01	18	42	37.4	11.012 N	62.205 W	58			4	WINDWARD ISLANDS. <TRN>. MD 2.7 (TRN).	
01	19	02	57.1	5.933 N	126.217 E	33 N	5.4	4.4	0.9	86	MINDANAO, PHILIPPINE ISLANDS. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 19:03:02.5; Lat 5.88 N; Lon 126.52 E; Dep 34.8; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=9.54, Plg=60, Azm=177; (N) Val=-0.36, Plg=27, Azm=21; (P) Val=-9.18, Plg=10, Azm=285; Best double couple: Mo=9.4*10**16 Nm; NP1: Strike=346, Dip=42, Slip=47; NP2: Strike=217, Dip=61, Slip=122.
01	19	44	36.3	34.436 S	73.868 W	5			11	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).	
01	19	54	05.2	5.033 S	153.639 E	33 N	5.0	4.1	0.9	36	NEW IRELAND REGION, P.N.G. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 19:54:08.9; Lat 5.46 S; Lon 153.57 E; Dep 45.4; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.76, Plg=69, Azm=301; (N) Val=-0.35, Plg=20, Azm=133; (P) Val=-4.41, Plg=4, Azm=42; Best double couple: Mo=4.6*10**16 Nm; NP1: Strike=111, Dip=45, Slip=60; NP2: Strike=330, Dip=53, Slip=116.
01	20	24	16.9	34.463 S	71.737 W	34			11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).	
01	21	43	32.2	11.527 N	61.351 W	10			4	WINDWARD ISLANDS. <TRN>. MD 3.0 (TRN).	
01	21	47	58.8	5.229 S	145.747 E	89 *	4.3	1.3	13	EASTERN NEW GUINEA REG., P.N.G.	
01	22	36	06.5	34.803 S	70.772 W	113			11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.8 (GUC).	

01	22	55	00.8*	43.305 N	145.786 E	33 N	0.5	8	HOKKAIDO, JAPAN REGION. Felt (I JMA) in eastern Hokkaido.
01	23	15	43.9	51.646 N	16.167 E	5 G	1.1	22	POLAND. ML 3.9 (GRF), 3.5 (VIE), 3.2 (FUR).
01	23	18	10.0	51.644 N	16.204 E	5 G	0.5	22	POLAND. ML 4.1 (GRF), 3.7 (VIE), 3.5 (FUR).
01	23	39	56.6	48.100 N	0.100 W	5		10	FRANCE. <LDG>. ML 2.1 (LDG).
02	00	16	27.7*	32.078 S	138.286 E	10 G	1.5	7	NEAR SOUTH COAST OF AUSTRALIA. Felt in the epicentral area.
02	01	22	49.1	53.973 N	161.008 E	33 N 4.8 4.0	0.9	108	OFF EAST COAST OF KAMCHATKA
02	01	51	25.7	32.028 S	71.268 W	70		11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
02	02	33	35.1	50.587 N	177.650 W	33 N 5.4 4.8	0.9	376	ANDREANOF ISLANDS, ALEUTIAN IS. Mw 5.4 (HRV). ML 5.4 (PMR). Felt (III) on Adak.
									Centroid, Moment Tensor (HRV): Centroid origin time 02:33:34.1; Lat 50.70 N; Lon 177.10 W; Dep 15.0 Fix; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.08, Plg=12, Azm=151; (N) Val=0.90, Plg=49, Azm=47; (P) Val=-1.97, Plg=39, Azm=251; Best double couple: Mo=1.5*10**17 Nm; NPl: Strike=283, Dip=54, Slip=-21; NP2: Strike=26, Dip=73, Slip=-142.
02	02	37	18.3	33.353 S	70.051 W	114 4.7	0.8	43	CHILE-ARGENTINA BORDER REGION. MD 4.7 (GUC). Felt (III) at Limache and Santiago; (II) at Papudo, Quillota, Quintero, Rancagua, Valparaiso, Vina del Mar and Zapallar, Chile.
02	04	28	03.2	42.834 N	20.624 E	13		11	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.3 (PDG).
02	06	12	31.8	42.381 N	19.611 E	19		9	NORTHWESTERN BALKAN REGION. <PDG>. MD 1.8 (PDG).
02	06	21	06.2	33.560 S	70.037 W	8		12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
02	07	09	40.8	6.381 S	145.649 E	131 5.0	0.9	58	NEW GUINEA, PAPUA NEW GUINEA. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 07:09:44.9; Lat 6.46 S; Lon 145.68 E; Dep 141.7; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=8.04, Plg=17, Azm=225; (N) Val=-0.68, Plg=11, Azm=131; (P) Val=-7.37, Plg=70, Azm=11; Best double couple: Mo=7.7*10**16 Nm; NPl: Strike=331, Dip=30, Slip=-68; NP2: Strike=126, Dip=63, Slip=-102.
02	07	38	50.9*	15.061 N	92.888 W	82 4.1	1.3	34	MEXICO-GUATEMALA BORDER REGION. MD 4.5 (UNM).
02	08	14	19.1	32.028 S	71.662 W	26		8	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
02	09	09	39.0*	49.019 N	13.748 E	10 G	1.2	7	CZECH AND SLOVAK REPUBLICS
02	09	12	13.1	61.476 N	146.563 W	33 N	0.3	7	SOUTHERN ALASKA. ML 3.0 (PMR).
02	09	45	26.4	33.605 S	70.632 W	79		11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).
02	11	18	13.2	40.808 N	30.688 E	10		6	TURKEY. <ISK>. MD 3.4 (ISK).
02	13	10	13.8	39.170 N	0.660 W	15		13	SPAIN. <MDD>. mbLg 2.7 (MDD). Felt (II) at Navarres.
02	14	22	40.4	38.100 S	176.740 E	134		9	NORTH ISLAND, NEW ZEALAND. <WEL>.
02	14	25	19.8	40.563 N	30.532 E	10 G 4.0	1.1	27	TURKEY. MD 4.0 (ISK).
02	15	21	36.4	30.688 S	71.389 W	66 * 4.5	1.0	34	NEAR COAST OF CENTRAL CHILE. MD 4.7 (GUC). Felt (V) at Combarbala, Ovalle and Punitaqui; (IV) at Andacollo, Hurtado and Monte Patria; (III) at Illapel and Pahuano; (II) at La Serena.
02	15	28	46.0	37.410 N	117.080 W	9		6	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.9 (REN).
02	16	04	24.2	55.668 N	110.009 E	10 G	1.0	10	LAKE BAYKAL REGION, RUSSIA. Felt (IV) at Verkhnyaya Zaimka.
02	16	17	29.7	41.721 N	89.433 W	5 G	0.7	7	ILLINOIS. mbLg 3.5 (GS). Felt at Dixon, Morrison, Oregon, Rockford, Sterling and other parts of northwestern Illinois as far west as Galena and Moline. Felt at Afton, Janesville and Spring Green, Wisconsin. Also felt at Clinton, Iowa.
02	17	03	38.1*	17.667 S	178.615 W	566 ? 4.5	1.0	57	FIJI ISLANDS REGION
02	17	34	45.4*	19.571 S	69.130 W	141 * 4.1	1.6	12	NORTHERN CHILE
02	18	20	02.3	59.762 N	153.310 W	135		13	SOUTHERN ALASKA. <AEIC>.
02	19	49	25.2	32.264 S	70.594 W	104		12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.3 (GUC).
02	20	26	15.3*	3.068 S	130.184 E	33 N 4.1	1.0	11	SERAM, INDONESIA
02	20	38	38.2*	15.377 S	173.423 W	33 N 4.5	0.8	21	TONGA ISLANDS
02	21	12	46.0	30.848 S	71.604 W	21		11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
02	21	38	46.4	17.958 N	67.224 W	1		5	MONA PASSAGE. <MPR>. ML 3.1 (MPR).
02	22	04	08.7	41.104 N	142.386 E	67 * 4.6	0.9	50	HOKKAIDO, JAPAN REGION. Felt (II JMA) in eastern Aomori and northern Iwate Prefectures, Honshu. Felt (I JMA) in parts of south-central Hokkaido.
02	22	09	39.9	33.886 S	71.153 W	65		10	NEAR COAST OF CENTRAL CHILE. <GUC>.
02	22	22	51.4	34.197 S	70.421 W	111		12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.8 (GUC).
02	22	30	49.7*	31.535 S	69.876 W	149 ?	0.6	16	SAN JUAN PROVINCE, ARGENTINA. MD 3.5 (GUC).
02	23	13	17.9	31.958 S	70.305 W	111		15	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
03	00	05	49.2	44.600 N	7.200 E	2		13	NORTHERN ITALY. <LDG>. ML 1.8 (STR), 1.7 (LDG).
03	00	31	21.8	31.467 S	71.653 W	51 4.7	1.0	60	NEAR COAST OF CENTRAL CHILE. MD 4.8 (GUC). Felt (III) at Illapel and (II) at Limache, Los Andes, Quintero, San Antonio, Valparaiso and Vina del Mar.
03	00	55	23.5?	35.88 N	9.41 W	10 G	0.7	24	WEST OF GIBRALTAR. mbLg 2.4 (MDD).
03	01	01	46.6	31.691 S	71.897 W	14		17	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.6 (GUC).
03	01	11	50.3	31.598 S	71.813 W	28		9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
03	01	35	03.3	31.429 S	71.341 W	29		11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
03	01	45	02.6	33.427 S	71.883 W	15		8	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
03	02	03	05.1?	11.35 S	33.46 E	10 G 4.1	1.2	6	MALAWI
03	02	04	00.9	46.052 N	14.783 E	10 G	0.3	8	NORTHWESTERN BALKAN REGION. ML 2.0 (VIE), 1.8 (LJU).
03	02	58	29.8	39.870 S	177.120 E	31		13	OFF E. COAST OF N. ISLAND, N.Z. <WEL>. ML 4.1 (WEL). Felt at Hastings and Napier.
03	03	04	26.0	59.603 N	153.158 W	110		9	SOUTHERN ALASKA. <AEIC>.
03	04	08	19.4*	32.592 N	137.919 E	361 * 4.2	0.7	10	SOUTH OF HONSHU, JAPAN
03	04	20	05.8*	16.872 S	173.482 W	33 N 4.4	1.2	28	TONGA ISLANDS
03	04	28	15.3	32.027 S	71.500 W	30		13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
03	05	06	35.6	45.826 N	143.261 E	330 3.9	0.9	28	HOKKAIDO, JAPAN REGION
03	05	14	22.4	18.391 N	68.676 W	203		7	MONA PASSAGE. <MPR>. MD 3.5 (MPR).
03	05	29	33.6	38.460 N	23.360 E	31 4.1	112	GREECE. <ATH>. MD 4.2 (ATH). ML 4.1 (THE). Felt at Athens.	
03	06	35	15.9	35.747 N	118.481 W	4		29	CENTRAL CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
03	06	40	04.8	15.953 N	98.330 W	1		9	OFF COAST OF GUERRERO, MEXICO. <UNM>. MD 3.9 (UNM).
03	06	42	48.1	31.441 S	71.813 W	13		12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.1 (GUC).
03	06	43	52.0	35.553 N	1.122 E	10 G	0.8	38	NORTHERN ALGERIA. mbLg 3.2 (MDD).
03	06	59	52.9	45.095 N	7.507 E	26		43	NORTHERN ITALY. <GEN>. ML 2.8 (GEN), 2.7 (LDG), 2.6 (STR).
03	07	06	16.8	36.366 N	71.069 E	201 4.2	0.7	50	AFGHANISTAN-TAJIKISTAN BORD REG.
03	07	16	18.7	47.501 N	123.125 W	0		48	WASHINGTON. <SEA-P>. MD 2.9 (SEA). Felt.
03	07	28	10.5	37.490 N	118.409 W	11		10	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.0 (GM). ML 3.0 (BRK).

05 16 50 03.0& 38.550 N 112.180 W 0	21	UTAH. <SLC-P>. ML 3.0 (SLC).
05 16 53 08.8* 27.193 N 140.357 E 521 * 4.1	0.9 29	BONIN ISLANDS REGION
05 17 51 53.3& 10.850 N 62.270 W 79	5	NEAR COAST OF VENEZUELA. <TRN>. MD 3.3 (TRN).
05 17 55 33.3 17.248 S 70.804 W 81 D 4.9	1.0 137	NEAR COAST OF PERU. Mw 5.1 (HRV). Felt (IV) at Moquegua. Centroid, Moment Tensor (HRV): Centroid origin time 17:55:38.4; Lat 17.25 S Fix; Lon 70.80 W Fix; Dep 92.4; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.96, Plg=32, Azm=64; (N) Val=-0.16, Plg=8, Azm=159; (P) Val=-4.80, Plg=57, Azm=261; Best double couple: Mo=4.9*10**16 Nm; NP1: Strike=127, Dip=15, Slip=-123; NP2: Strike=341, Dip=78, Slip=-82.
05 18 01 36.5& 47.169 N 123.121 W 47	79	WASHINGTON. <SEA-P>. MD 2.8 (SEA). Felt at Shelton and in other parts of Mason County.
05 19 44 46.6& 64.018 N 148.102 W 111	8	CENTRAL ALASKA. <AEIC>.
05 19 52 38.1& 40.695 N 30.546 E 8 3.9	72	TURKEY. <ISK>. MD 4.2 (ISK).
05 20 26 00.2* 52.340 N 177.069 W 33 N 3.8	1.3 7	ANDREANOF ISLANDS, ALEUTIAN IS. ML 3.9 (PMR).
05 20 30 11.1& 32.559 S 70.080 W 109	11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.8 (GUC).
05 20 37 39.9 5.607 N 125.790 E 143 ? 4.8	1.0 36	MINDANAO, PHILIPPINE ISLANDS
05 20 57 48.5 8.952 S 106.608 E 33 N 5.1	1.1 51	SOUTH OF JAWA, INDONESIA. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 20:57:52.1; Lat 8.95 S Fix; Lon 106.61 E Fix; Dep 15.0 Bdy; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.13, Plg=52, Azm=19; (N) Val=-0.15, Plg=2, Azm=287; (P) Val=-0.97, Plg=38, Azm=195; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=272, Dip=7, Slip=76; NP2: Strike=107, Dip=83, Slip=92.
05 22 08 56.1 50.175 N 3.957 W 5 G	1.2 30	UNITED KINGDOM. ML 2.9 (LDG).
05 23 08 21.1? 31.67 S 71.76 W 33 N	0.4 11	NEAR COAST OF CENTRAL CHILE
05 23 11 53.3* 52.576 N 176.621 W 230 * 4.5	1.4 37	ANDREANOF ISLANDS, ALEUTIAN IS.
06 00 27 36.8* 21.702 S 174.521 W 33 N 4.7 4.5	1.0 25	TONGA ISLANDS
06 00 46 21.8* 6.968 N 126.829 E 33 N 4.5	0.8 19	MINDANAO, PHILIPPINE ISLANDS
06 01 09 50.1? 20.52 S 168.89 E 33 N 4.5	1.1 10	LOYALTY ISLANDS
06 01 46 40.2& 36.890 N 3.080 W 0 G	22	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.7 (MDD).
06 01 51 15.6 14.048 S 14.483 W 10 G 5.4 5.0	0.7 181	SOUTHERN MID-ATLANTIC RIDGE. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 01:51:22.6; Lat 14.48 S Fix; Lon 14.05 W Fix; Dep 15.0 Fix; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=1.15, Plg=0, Azm=237; (N) Val=-0.17, Plg=0, Azm=147; (P) Val=-0.98, Plg=90, Azm=180; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=327, Dip=45, Slip=-90; NP2: Strike=147, Dip=45, Slip=-90.
06 03 14 58.2 7.067 S 154.727 E 62 D 4.9	1.1 52	SOLOMON ISLANDS. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 03:15:00.3; Lat 7.78 S; Lon 155.43 E; Dep 48.7; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=9.14, Plg=54, Azm=257; (N) Val=0.04, Plg=23, Azm=130; (P) Val=-9.18, Plg=26, Azm=29; Best double couple: Mo=9.2*10**16 Nm; NP1: Strike=78, Dip=28, Slip=35; NP2: Strike=317, Dip=74, Slip=114.
06 04 19 46.0* 34.663 N 101.257 E 33 N 4.2	1.0 12	QINGHAI, CHINA. ML 4.2 (BJI).
06 05 06 05.6& 28.500 N 15.550 W 22	4	CANARY ISLANDS REGION. <MDD>. mbLg 2.4 (MDD).
06 05 35 47.3& 33.160 S 68.940 W 35	8	MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 3.1 (GUC).
06 05 46 27.9 24.439 S 179.980 W 493 D 4.5	0.9 65	SOUTH OF FIJI ISLANDS
06 06 05 13.4& 61.108 N 151.095 W 76	13	SOUTHERN ALASKA. <AEIC>.
06 06 28 49.3 49.197 N 153.870 E 135 D 4.5	0.9 66	KURIL ISLANDS
06 06 32 05.5 9.201 N 84.043 W 48	1.0 105	COSTA RICA. MD 4.6 (CASC).
06 06 33 22.5* 40.542 N 29.985 E 10 G 4.0	1.1 38	TURKEY. MD 4.0 (ISK).
06 06 38 42.8& 40.787 N 29.778 E 10	5	TURKEY. <ISK>. MD 3.1 (ISK).
06 06 59 59.9 40.675 N 31.114 E 10 G 3.9	0.9 32	TURKEY. MD 3.8 (ISK).
06 07 15 03.7& 40.730 N 30.498 E 12	5	TURKEY. <ISK>. MD 2.7 (ISK).
06 07 16 08.7& 40.742 N 29.694 E 10	6	TURKEY. <ISK>. MD 2.9 (ISK).
06 07 52 50.4& 33.599 S 70.435 W 97	16	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.9 (GUC).
06 09 59 52.7& 40.621 N 30.940 E 10	5	TURKEY. <ISK>. MD 3.8 (ISK).
06 10 11 32.8* 11.908 S 166.115 E 33 N 4.5	1.0 20	SANTA CRUZ ISLANDS
06 10 42 56.6* 3.168 S 141.137 E 33 N	1.1 7	NEW GUINEA, PAPUA NEW GUINEA
06 10 54 55.6 38.548 N 133.670 E 452	0.9 54	SEA OF JAPAN
06 11 17 47.8* 20.342 S 178.504 W 590	0.9 47	FIJI ISLANDS REGION
06 11 50 50.8& 40.795 N 31.096 E 14	7	TURKEY. <ISK>. MD 3.2 (ISK).
06 11 51 01.7& 40.740 N 31.016 E 10	7	TURKEY. <ISK>. MD 3.2 (ISK).
06 13 16 38.1* 38.349 N 142.206 E 33 N 4.0	0.9 14	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) in southeastern Iwate and northeastern Miyagi Prefectures.
06 15 03 22.7& 28.180 N 16.150 W 15 G	6	CANARY ISLANDS REGION. <MDD>. mbLg 3.0 (MDD).
06 15 04 52.8 52.096 N 159.152 E 55 D 5.0	0.8 249	OFF EAST COAST OF KAMCHATKA. Felt (III) at Petropavlovsk-Kamchatskiy.
06 17 02 46.7& 43.997 N 8.479 E 3	9	CORSICA. <GEN>. ML 2.3 (GEN).
06 17 19 47.4* 25.643 S 68.884 W 96 * 4.5	0.8 8	CHILE-ARGENTINA BORDER REGION
06 17 48 06.8 57.576 N 120.479 E 10 G 4.7	1.0 63	SOUTHEASTERN SIBERIA, RUSSIA
06 17 56 02.1* 57.592 N 120.735 E 10 G	1.0 11	SOUTHEASTERN SIBERIA, RUSSIA
06 18 01 09.7 57.447 N 120.588 E 10 G 4.4	1.1 24	SOUTHEASTERN SIBERIA, RUSSIA
06 18 02 33.4& 57.565 N 121.000 E 10 G	0.6 8	SOUTHEASTERN SIBERIA, RUSSIA
06 18 04 13.3& 44.090 N 5.280 E 2	6	FRANCE. <STR>. ML 2.6 (STR).
06 18 19 28.5* 5.443 N 127.102 E 130 * 4.3	1.0 18	PHILIPPINE ISLANDS REGION
06 18 50 37.1* 19.017 S 177.758 W 433 ? 4.2	1.1 36	FIJI ISLANDS REGION
06 18 58 01.9* 4.657 N 126.587 E 90 * 4.3	0.5 14	TALAUD ISLANDS, INDONESIA
06 19 43 39.7* 39.728 S 78.306 E 10 G 4.2	0.5 6	MID-INDIAN RIDGE
06 19 45 03.2* 40.038 S 78.542 E 10 G 4.4	0.3 6	MID-INDIAN RIDGE
06 21 29 15.7& 47.400 N 6.600 E 5	18	FRANCE. <LDG>. ML 2.1 (LDG), 2.0 (STR).
06 21 55 36.4* 7.201 S 128.895 E 33 N 4.2	1.3 20	BANDA SEA
06 22 30 03.1& 32.297 S 70.614 W 108	9	CHILE-ARGENTINA BORDER REGION. <GUC>.
06 22 50 21.2* 18.647 N 93.715 E 33 N 4.4	0.5 9	MYANMAR
06 22 55 36.4* 11.936 S 166.209 E 33 N 4.4	0.7 15	SANTA CRUZ ISLANDS
07 01 29 45.0& 38.850 N 112.000 W 5	21	UTAH. <SLC-P>. ML 2.9 (SLC).
07 02 35 21.4& 41.887 N 20.526 E 11	11	ALBANIA. <PDG>. MD 2.4 (PDG).

07	03	39	50.0&	59.999 N	152.768 W	105										14	SOUTHERN ALASKA. <AEIC>.
07	04	02	49.8&	41.556 N	20.194 E	9										11	ALBANIA. <PDG>. MD 2.4 (PDG).
07	04	16	09.0&	32.235 S	69.543 W	134										14	MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 3.2 (GUC).
07	04	44	53.4&	44.657 N	7.174 E	11										21	NORTHERN ITALY. <GEN>. ML 2.5 (GEN), 2.5 (LDG).
07	05	20	27.3&	44.657 N	7.165 E	11										7	NORTHERN ITALY. <GEN>. ML 2.1 (GEN).
07	07	06	23.7	44.192 N	11.640 E	10 G			1.2							27	NORTHERN ITALY. ML 3.6 (VIE), 3.2 (TRI), 3.2 (LDG), 3.2 (STR).
07	07	12	43.5&	38.510 N	1.240 W	15										11	SPAIN. <MDD>. mblg 2.6 (MDD).
07	07	30	07.6&	42.180 S	173.820 E	25										5	SOUTH ISLAND, NEW ZEALAND. <WEL>. ML 2.9 (WEL).
07	09	06	14.5*	41.756 N	143.885 E	21 D	4.1		1.1							18	HOKKAIDO, JAPAN REGION
07	09	18	08.9&	41.530 S	174.140 E	32										6	COOK STRAIT, NEW ZEALAND. <WEL>. ML 2.5 (WEL).
07	09	39	07.6&	40.020 S	174.960 E	12										7	COOK STRAIT, NEW ZEALAND. <WEL>. ML 3.3 (WEL).
07	10	19	25.6&	35.832 N	121.368 W	4										5	CENTRAL CALIFORNIA. <GM-P>. MD 2.7 (GM). ML 3.1 (PAS).
07	11	15	54.3	10.154 S	161.198 E	93 D	4.9		0.8							49	SOLOMON ISLANDS. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 11:15:53.8; Lat 10.45 S; Lon 161.40 E; Dep 110.0; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.39, Plg=10, Azm=134; (N) Val=1.10, Plg=74, Azm=262; (P) Val=-7.49, Plg=12, Azm=42; Best double couple: Mo=6.9*10**16 Nm; NP1: Strike=178, Dip=74, Slip=-178; NP2: Strike=88, Dip=89, Slip=-16.
07	11	31	22.1	7.701 S	146.932 E	33 N	5.0 4.0	1.0								39	EASTERN NEW GUINEA REG., P.N.G.
07	11	33	53.1*	44.103 N	148.518 E	33 N	4.8	1.5								23	KURIL ISLANDS
07	11	56	49.3	38.119 N	23.605 E	10 G	5.6 5.8	1.1	416								GREECE. Mw 6.0 (HRV), 5.9 (GS). Me 5.7 (GS). Ms 5.8 (BRK). ML 5.4 (THE). One hundred forty-three people killed, 1,600 injured, 50,000 homeless and at least 53,000 buildings damaged or destroyed (IX) in the Athens area. Preliminary estimate of damage at 655 million U.S. dollars. Felt in much of central Greece and as far as Izmir, Turkey. Broadband Source Parameters (GS): Dep 10; NP1: Strike=285, Dip=60, Slip=-70; NP2: Strike=69, Dip=36, Slip=-121; Radiated energy 7.5*10**12 Nm. Moment Tensor (GS): Dep 8; Principal axes (scale 10**17 Nm): (T) Val=8.76, Plg=10, Azm=221; (N) Val=0.19, Plg=6, Azm=312; (P) Val=-8.95, Plg=78, Azm=73; Best double couple: Mo=8.9*10**17 Nm; NP1: Strike=303, Dip=35, Slip=-101; NP2: Strike=136, Dip=56, Slip=-82. Centroid, Moment Tensor (HRV): Centroid origin time 11:56:56.5; Lat 37.87 N; Lon 23.64 E; Dep 15.0 Bdy; Half- duration 2.6 sec; Principal axes (scale 10**18 Nm): (T) Val=1.13, Plg=6, Azm=19; (N) Val=0.02, Plg=6, Azm=288; (P) Val=-1.15, Plg=81, Azm=156; Best double couple: Mo=1.1*10**18 Nm; NP1: Strike=116, Dip=39, Slip=-81; NP2: Strike=284, Dip=52, Slip=-98.
07	12	05	12.7	38.126 N	23.762 E	10 G	4.4	1.2	108								GREECE. ML 4.5 (ROM).
07	12	08	10.8	38.096 N	23.773 E	10 G	4.3	1.3	52								GREECE
07	12	10	42.3*	38.119 N	23.645 E	10 G	4.0	1.2	19								GREECE
07	12	15	32.5*	5.957 S	147.072 E	112 *	4.4	0.9	16								EASTERN NEW GUINEA REG., P.N.G.
07	12	16	11.0	37.950 N	23.869 E	10 G	4.3	1.2	20								SOUTHERN GREECE
07	12	20	23.2	37.999 N	23.710 E	10 G	4.2	1.4	68								SOUTHERN GREECE
07	12	33	41.7&	60.905 N	151.313 W	59	4.2		51								KENAI PENINSULA, ALASKA. <AEIC>. ML 4.0 (AEIC), 4.4 (PMR). Felt at Kenai.
07	12	42	17.4&	37.480 N	118.779 W	6			9								CALIFORNIA-NEVADA BORDER REGION. <GM-P>. ML 3.0 (GM), 3.3 (BRK).
07	13	02	16.6?	14.17 S	166.98 E	136 ?	4.2	1.1	22								VANUATU ISLANDS
07	13	05	45.1	38.029 N	23.656 E	10 G	4.2	1.4	53								GREECE
07	13	15	27.7	18.354 S	168.870 E	211 *	4.9	0.8	93								VANUATU ISLANDS
07	13	18	52.2*	51.088 N	15.835 E	5 G		1.5	5								POLAND. MG 3.1 (WAR).
07	13	36	10.9*	24.258 N	123.482 E	68 ?	4.4	1.0	16								SOUTHWESTERN RYUKYU ISLANDS. Felt (II JMA) on Iriomote-jima.
07	14	32	57.0&	48.900 N	3.700 W	2			6								FRANCE. <LDG>. ML 2.7 (LDG).
07	14	40	42.0&	33.738 S	70.426 W	112			12								CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.1 (GUC).
07	15	35	30.1	37.921 N	23.886 E	10 G	4.2	1.3	33								SOUTHERN GREECE
07	16	07	16.8*	8.468 S	74.458 W	114 ?	3.8	0.8	9								PERU-BRAZIL BORDER REGION
07	16	31	48.1*	32.444 N	138.074 E	359		0.6	12								SOUTH OF HONSHU, JAPAN
07	16	42	09.0&	33.339 N	116.209 W	17			24								SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
07	16	47	49.7*	52.905 N	35.221 W	10 G	4.1	1.4	11								NORTH ATLANTIC OCEAN
07	16	49	16.2&	46.600 N	2.700 E	19			11								FRANCE. <LDG>. ML 2.3 (LDG).
07	17	07	50.1&	47.640 N	8.140 E	2			5								SWITZERLAND. <STR>. ML 1.7 (STR).
07	17	19	18.9	38.012 N	23.733 E	10 G	3.9	1.3	44								GREECE
07	17	30	09.6	15.607 N	119.553 E	33 N	4.6	1.0	35								LUZON, PHILIPPINE ISLANDS
07	17	39	08.2	1.438 S	138.772 E	33 N	4.4	0.7	18								NEAR NORTH COAST OF IRIAN JAYA
07	17	50	00.1*	63.289 S	166.566 W	10 G	4.8 5.3	1.0	24								PACIFIC-ANTARCTIC RIDGE. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 17:50:06.9; Lat 63.68 S; Lon 167.03 W; Dep 15.0 Fix; Half- duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.06, Plg=0, Azm=124; (N) Val=0.18, Plg=85, Azm=218; (P) Val=-2.24, Plg=5, Azm=34; Best double couple: Mo=2.2*10**17 Nm; NP1: Strike=169, Dip=86, Slip=-177; NP2: Strike=79, Dip=87, Slip=-4.
07	18	48	50.9	33.167 S	68.198 W	33 N		1.1	15								MENDOZA PROVINCE, ARGENTINA. MD 4.1 (GUC).
07	19	42	30.3*	13.230 N	50.859 E	10 G	4.4	1.4	18								EASTERN GULF OF ADEN
07	20	32	24.0	38.023 N	23.546 E	10 G	4.1	1.2	100								GREECE. MD 3.9 (PDG).
07	20	42	40.2	1.758 N	97.213 E	33 N	4.9 4.4	0.7	23								NORTHERN SUMATERA, INDONESIA
07	20	44	53.6	38.045 N	23.687 E	10 G	4.6 3.8	1.2	187								GREECE. MD 4.3 (PDG).
07	21	31	48.3&	62.083 N	151.291 W	61			9								CENTRAL ALASKA. <AEIC>. ML 2.4 (AEIC), 2.6 (PMR).
07	22	04	59.4&	39.750 N	3.140 W	0			9								SPAIN. <MDD>. mblg 2.2 (MDD).
07	23	47	05.9	10.618 S	124.374 E	33 N	5.2 4.9	1.4	42								TIMOR REGION, INDONESIA. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 23:47:11.8; Lat 10.56 S; Lon 124.84 E; Dep 33.0 Fix; Half- duration 1.1 sec; Principal axes (scale 10**16 Nm): (T) Val=7.94, Plg=5, Azm=66; (N) Val=1.62, Plg=85, Azm=246; (P) Val=-9.56, Plg=0, Azm=156; Best double couple: Mo=8.8*10**16 Nm; NP1: Strike=201, Dip=87, Slip=3; NP2:

08	00	06	46.7	6.662 S	128.488 E	240 *	4.4	0.9	20	Strike=110, Dip=87, Slip=177.
08	00	12	53.5	34.373 S	70.505 W	117			12	BANDA SEA
08	00	23	16.0	6.830 N	73.100 W	160			9	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.1 (GUC).
08	00	29	00.8	7.138 N	123.678 E	118 ?	4.9	1.2	64	NORTHERN COLOMBIA. <RNSC>.
										MINDANAO, PHILIPPINE ISLANDS. Mw 5.5 (HRV).
										Centroid, Moment Tensor (HRV): Centroid origin time
										00:28:56.9; Lat 7.40 N; Lon 123.73 E; Dep 70.4; Half-
										duration 1.4 sec; Principal axes (scale 10**17 Nm): (T)
										Val=1.96, Plg=5, Azm=156; (N) Val=-0.46, Plg=85, Azm=342;
										(P) Val=-1.50, Plg=1, Azm=246; Best double couple:
										Mo=1.7*10**17 Nm; NP1: Strike=291, Dip=86, Slip=3; NP2:
										Strike=201, Dip=87, Slip=176.
08	00	42	25.7	17.690 N	98.251 W	60 D	4.5	1.1	92	GUERRERO, MEXICO. MD 4.4 (UNM).
08	00	57	04.4	33.831 S	72.064 W	7			7	OFF COAST OF CENTRAL CHILE. <GUC>.
08	01	06	10.0	45.930 N	16.220 E	13			5	NORTHWESTERN BALKAN REGION. <ZAG>. ML 2.4 (ZAG).
08	01	16	31.5	43.000 N	0.100 W	2			18	PYRENEES. <LDG>. ML 2.6 (LDG), 2.3 (STR). Felt (III) in the
										Bigorre region, France.
08	01	47	48.7	63.344 N	150.099 W	106			10	CENTRAL ALASKA. <AEIC>.
08	01	50	10.7	43.255 N	20.826 E	10 G		0.9	33	NORTHWESTERN BALKAN REGION. MD 3.0 (PDG).
08	02	14	04.6	11.917 N	43.594 E	5			6	ETHIOPIA. <ARO>. ML 3.5 (ARO).
08	02	29	15.5	57.451 N	120.627 E	10 G	4.4	1.4	26	SOUTHEASTERN SIBERIA, RUSSIA. Felt (II) at Olekma.
08	02	32	15.1	57.498 N	120.854 E	10 G		0.9	12	SOUTHEASTERN SIBERIA, RUSSIA
08	02	36	50.9	8.324 N	125.429 E	10 G	3.9	1.3	13	MINDANAO, PHILIPPINE ISLANDS
08	02	38	48.5	57.432 N	120.163 E	10 G	4.9 4.9	1.2	168	SOUTHEASTERN SIBERIA, RUSSIA. Mw 5.1 (HRV). Felt (IV) at
										Olekma.
										Centroid, Moment Tensor (HRV): Centroid origin time
										02:38:50.5; Lat 57.48 N; Lon 120.68 E; Dep 20.2; Half-
										duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
										Val=6.03, Plg=14, Azm=194; (N) Val=-1.69, Plg=50, Azm=302;
										(P) Val=-4.34, Plg=36, Azm=93; Best double couple:
										Mo=5.2*10**16 Nm; NP1: Strike=240, Dip=54, Slip=-162; NP2:
										Strike=139, Dip=76, Slip=37.
08	03	03	10.5	57.514 N	120.320 E	10 G	4.6	0.9	67	SOUTHEASTERN SIBERIA, RUSSIA. Felt (III) at Olekma.
08	03	03	12.7	43.818 N	147.444 E	66 *	4.6	0.8	71	KURIL ISLANDS
08	03	17	46.3	47.754 N	12.744 E	10 G		1.0	7	AUSTRIA. ML 2.5 (VIE).
08	03	21	32.1	38.201 N	23.799 E	10 G	3.9	1.4	17	GREECE
08	03	27	41.4	49.757 N	29.033 W	10 G	4.4	1.3	94	NORTHERN MID-ATLANTIC RIDGE
08	03	35	18.9	38.029 N	23.724 E	10 G	3.9	1.5	47	GREECE
08	05	04	29.8	17.656 N	98.310 W	49			15	GUERRERO, MEXICO. <UNM>. MD 4.0 (UNM).
08	05	34	14.2	49.893 N	28.934 W	10 G	4.3 3.9	1.1	62	NORTHERN MID-ATLANTIC RIDGE
08	06	06	40.9	17.454 N	95.083 W	135			10	OAXACA, MEXICO. <UNM>. MD 4.1 (UNM).
08	06	08	46.9	44.000 N	3.100 E	2			4	FRANCE. <LDG>. ML 2.1 (LDG).
08	06	33	16.1	31.724 S	71.721 W	28			13	NEAR COAST OF CENTRAL CHILE. <GUC>.
08	07	30	08.0	33.852 S	70.863 W	79			9	CHILE-ARGENTINA BORDER REGION. <GUC>.
08	07	41	17.1	47.565 N	120.332 W	9			41	WASHINGTON. <SEA-P>. MD 2.6 (SEA).
08	08	00	31.9	57.427 N	120.043 E	10 G	4.6 4.1	1.0	38	SOUTHEASTERN SIBERIA, RUSSIA
08	08	28	04.5	10.742 S	166.169 E	200 *	4.9	0.8	104	SANTA CRUZ ISLANDS. Mw 5.1 (HRV).
										Centroid, Moment Tensor (HRV): Centroid origin time
										08:28:07.3; Lat 10.83 S; Lon 166.13 E; Dep 200.5; Half-
										duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
										Val=4.34, Plg=83, Azm=90; (N) Val=2.11, Plg=1, Azm=354; (P)
										Val=-6.45, Plg=7, Azm=264; Best double couple:
										Mo=5.4*10**16 Nm; NP1: Strike=353, Dip=38, Slip=89; NP2:
										Strike=174, Dip=52, Slip=91.
08	08	33	40.9	19.25 S	173.39 W	33 N	4.7	1.3	14	TONGA ISLANDS
08	10	14	25.5	40.738 N	30.959 E	5			6	TURKEY. <ISK>. MD 3.0 (ISK).
08	10	27	23.6	44.300 N	7.200 E	2			24	NORTHERN ITALY. <GEN>. ML 2.5 (GEN), 2.1 (LDG), 2.1 (STR).
08	11	09	45.3	34.473 S	70.425 W	124			10	CHILE-ARGENTINA BORDER REGION. <GUC>.
08	11	19	45.5	49.358 N	6.225 E	10 G		1.2	9	GERMANY. ML 2.8 (LDG). Mining induced event in the Lorraine
										region, France.
08	11	52	20.8	58.046 N	119.779 E	10 G	4.6 4.0	1.4	38	EAST OF LAKE BAYKAL, RUSSIA. Felt (III) in the epicentral
										area.
08	11	59	43.1	5.115 S	134.201 E	33 N	4.4	1.5	13	ARU ISLANDS REGION, INDONESIA
08	12	20	46.1	40.733 N	33.145 E	0			5	TURKEY. <ISK>. MD 3.7 (ISK).
08	12	32	48.0	44.664 N	7.174 E	10			34	NORTHERN ITALY. <GEN>. ML 2.8 (GEN), 2.8 (LDG), 2.6 (STR).
08	12	38	48.5	4.85 S	144.68 E	116 ?	4.2	0.7	6	NEAR N COAST OF NEW GUINEA, PNG.
08	12	50	50.8	44.665 N	7.234 E	14			12	NORTHERN ITALY. <GEN>. ML 2.1 (GEN).
08	12	54	58.0	38.037 N	23.673 E	10 G	4.4	1.2	136	GREECE. MD 4.2 (PDG).
08	13	07	44.5	37.590 N	2.730 W	9			13	SPAIN. <MDD>. mbLg 2.1 (MDD).
08	13	10	39.9	40.681 N	30.980 E	8			5	TURKEY. <ISK>. MD 3.5 (ISK).
08	13	18	19.6	38.000 N	23.618 E	10 G	4.0	1.3	17	GREECE
08	13	54	19.8	33.828 N	141.570 E	33 N		1.1	14	OFF EAST COAST OF HONSHU, JAPAN
08	14	23	30.2	45.838 N	14.668 E	10 G		0.8	12	NORTHWESTERN BALKAN REGION. ML 2.9 (VIE), 2.3 (LJU).
08	16	28	30.5	16.810 N	94.007 W	167			9	OAXACA, MEXICO. <UNM>. MD 4.3 (UNM).
08	16	50	38.1	38.118 N	23.578 E	10 G		1.2	17	GREECE
08	16	54	05.5	38.051 N	23.712 E	10 G	4.3	1.2	123	GREECE
08	16	56	28.9	50.025 N	28.934 W	10 G	4.6 4.4	1.1	127	NORTHERN MID-ATLANTIC RIDGE
08	18	22	51.7	44.483 N	7.096 E	7			5	NORTHERN ITALY. <GEN>. ML 1.8 (GEN).
08	18	37	46.9	13.989 N	120.662 E	159 ?	4.6	0.9	31	MINDORO, PHILIPPINE ISLANDS
08	18	48	33.6	44.251 N	140.737 E	242 ?		0.6	8	EASTERN SEA OF JAPAN
08	19	53	27.6	45.266 N	14.413 E	10 G		0.9	7	NORTHWESTERN BALKAN REGION. ML 2.5 (VIE).
08	20	01	00.9	2.98 N	127.14 E	33 N	4.3	1.0	8	NORTHERN MOLUCCA SEA
08	20	29	55.0	31.928 S	70.433 W	112			11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.8 (GUC).
08	20	40	14.9	37.485 N	118.844 W	8			11	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. ML 3.0 (GM), 3.3
										(BRK).
08	22	54	06.2	42.079 N	20.029 E	10 G		0.6	13	NORTHWESTERN BALKAN REGION. MD 3.0 (PDG).
08	23	41	16.3	32.654 S	71.624 W	27			10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.2 (GUC).
09	00	07	54.9	18.618 N	120.612 E	33 N	4.3	1.2	5	LUZON, PHILIPPINE ISLANDS
09	00	25	35.9	23.401 N	94.685 E	136 ?	3.9	0.9	13	MYANMAR-INDIA BORDER REGION
09	01	32	08.1	40.718 N	29.144 E	13	5.0		44	TURKEY. <ISK>. MD 4.6 (ISK).
09	01	46	11.3	45.497 N	149.521 E	92 D	4.6	0.9	100	KURIL ISLANDS
09	01	47	25.0	19.116 N	98.568 W	38			4	CENTRAL MEXICO. <UNM>. MD 3.6 (UNM).
09	02	11	46.9	32.234 S	71.796 W	26			12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).

(P) Val=-5.32, Plg=36, Azm=304; Best double couple: Mo=5.1*10**17 Nm; NP1: Strike=54, Dip=10, Slip=112; NP2: Strike=211, Dip=81, Slip=86.

10 09 42 51.76 41.760 S 174.270 E 20 17 COOK STRAIT, NEW ZEALAND. <WEL>. ML 4.4 (WEL).

10 10 18 40.06 35.027 S 71.082 W 104 11 CENTRAL CHILE. <GUC>. MD 2.8 (GUC).

10 10 55 10.0* 51.569 N 16.286 E 5 G 0.6 9 POLAND. ML 3.2 (VIE), 2.8 (CLL), 2.8 (FUR).

10 10 56 10.26 36.030 N 4.490 W 93 15 STRAIT OF GIBRALTAR. <MDD>.

10 12 49 16.7 46.197 N 15.995 E 5 G 0.5 7 NORTHWESTERN BALKAN REGION. ML 2.2 (VIE), 1.6 (LJU).

10 12 51 30.2* 19.093 N 121.290 E 33 N 1.3 10 PHILIPPINE ISLANDS REGION

10 13 17 07.1 39.410 N 29.964 W 10 G 4.5 0.9 26 AZORES ISLANDS

10 13 32 27.16 32.803 S 71.656 W 41 7 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).

10 13 40 02.3 32.269 N 115.138 W 5 G 4.8 4.3 1.0 99 CALIF.-BAJA CALIF. BORDER REGION. ML 4.9 (PAS). MD 5.2 (ECK). Felt at Yuma, Arizona and in the Imperial Valley, California. Also felt at Mexicali and in the Mexicali Valley, Baja California.

10 13 48 41.2* 5.532 S 78.131 W 33 N 4.5 1.3 15 NORTHERN PERU

10 14 00 18.16 38.730 S 175.980 E 149 12 NORTH ISLAND, NEW ZEALAND. <WEL>.

10 14 18 18.5 22.250 N 121.802 E 10 G 5.4 4.8 0.9 175 TAIWAN REGION. Mw 5.4 (HRV). Felt (IV JMA) on Lan Yu. Also felt (III JMA) at Cheng-kung and (II JMA) at Tai-tung. Centroid, Moment Tensor (HRV): Centroid origin time 14:18:23.2; Lat 22.37 N; Lon 121.71 E; Dep 15.0 Bdy; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.48, Plg=62, Azm=242; (N) Val=-0.07, Plg=7, Azm=345; (P) Val=-1.41, Plg=27, Azm=79; Best double couple: Mo=1.4*10**17 Nm; NP1: Strike=186, Dip=19, Slip=112; NP2: Strike=343, Dip=73, Slip=83.

10 14 49 55.8 38.017 N 23.656 E 10 G 4.2 1.0 32 GREECE

10 15 32 50.06 16.033 N 96.889 W 8 5 OAXACA, MEXICO. <UNM>. MD 3.7 (UNM).

10 15 54 09.4 46.247 N 16.031 E 5 G 0.4 10 NORTHWESTERN BALKAN REGION. ML 2.4 (VIE), 1.8 (LJU).

10 16 06 13.26 43.030 N 0.120 E 5 G 9 FRANCE. <STR>. ML 2.2 (STR), 2.0 (LDG).

10 17 16 29.5 29.744 S 71.218 W 55 D 4.9 1.0 63 NEAR COAST OF CENTRAL CHILE. Mw 5.1 (HRV). Felt (V) at Andacollo and Ovalle; (IV) at La Serena; (III) at Alto del Carmen and Copiapo; (II) at Freirina, La Ligua and Vallenar. Centroid, Moment Tensor (HRV): Centroid origin time 17:16:34.9; Lat 29.74 S Fix; Lon 71.22 W Fix; Dep 54.8 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.21, Plg=23, Azm=208; (N) Val=0.61, Plg=45, Azm=322; (P) Val=-4.82, Plg=37, Azm=100; Best double couple: Mo=4.5*10**16 Nm; NP1: Strike=250, Dip=46, Slip=-168; NP2: Strike=151, Dip=81, Slip=-45.

10 17 18 26.2* 34.949 N 5.391 E 10 G 1.0 25 NORTHERN ALGERIA. mbLg 4.5 (MDD).

10 17 59 00.36 33.239 S 70.139 W 3 7 CHILE-ARGENTINA BORDER REGION. <GUC>.

10 18 11 28.66 44.439 N 7.205 E 18 5 NORTHERN ITALY. <GEN>. ML 1.9 (GEN).

10 18 55 34.56 16.210 N 97.965 W 19 5 OAXACA, MEXICO. <UNM>. MD 3.7 (UNM).

10 18 57 05.67 74.73 N 8.88 E 10 G 1.1 6 GREENLAND SEA

10 19 09 02.06 44.800 N 7.200 E 2 14 NORTHERN ITALY. <LDG>. ML 2.3 (LDG), 2.0 (STR).

10 19 23 25.36 17.022 N 99.948 W 49 5 GUERRERO, MEXICO. <UNM>. MD 3.6 (UNM).

10 19 37 44.8 32.831 S 178.270 W 33 N 5.3 5.8 1.2 82 SOUTH OF KERMADEC ISLANDS. Mw 6.0 (GS), 5.8 (HRV). Moment Tensor (GS): Dep 4; Principal axes (scale 10**17 Nm): (T) Val=9.69, Plg=59, Azm=287; (N) Val=-0.05, Plg=2, Azm=20; (P) Val=-9.64, Plg=30, Azm=111; Best double couple: Mo=9.7*10**17 Nm; NP1: Strike=206, Dip=15, Slip=96; NP2: Strike=19, Dip=75, Slip=88. Centroid, Moment Tensor (HRV): Centroid origin time 19:37:48.0; Lat 32.48 S; Lon 177.74 W; Dep 15.0 Bdy; Half-duration 2.0 sec; Principal axes (scale 10**17 Nm): (T) Val=6.20, Plg=59, Azm=301; (N) Val=0.34, Plg=3, Azm=207; (P) Val=-6.54, Plg=31, Azm=116; Best double couple: Mo=6.4*10**17 Nm; NP1: Strike=197, Dip=14, Slip=79; NP2: Strike=28, Dip=76, Slip=93.

10 19 41 41.6 20.819 S 68.333 W 135 4.8 0.9 52 CHILE-BOLIVIA BORDER REGION

10 19 49 07.77 20.06 S 175.38 W 143 D 1.0 48 TONGA ISLANDS

10 20 41 31.36 43.213 N 20.562 E 11 15 NORTHWESTERN BALKAN REGION. <PDG>. MD 2.7 (PDG).

10 22 14 39.5 45.965 N 14.911 E 10 G 0.2 7 NORTHWESTERN BALKAN REGION. ML 2.2 (VIE).

10 22 59 36.4* 37.906 N 69.978 E 33 N 4.0 1.2 10 AFGHANISTAN-TAJIKISTAN BORD REG.

11 00 01 45.26 33.523 S 70.905 W 66 12 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.2 (GUC).

11 00 21 52.26 59.244 N 153.338 W 113 7 SOUTHERN ALASKA. <AEIC>.

11 00 37 19.86 31.792 S 70.441 W 126 8 CHILE-ARGENTINA BORDER REGION. <GUC>.

11 01 12 57.56 49.480 N 6.690 E 2 G 118 GERMANY. <STR>. ML 4.0 (LDG), 3.8 (STR), 3.6 (FBB), 3.6 (FUR), 3.6 (VIE). Mining induced event in the Lorraine region, France.

11 01 43 24.26 49.470 N 6.720 E 1 G 9 GERMANY. <STR>. ML 2.0 (LDG), 1.8 (STR). Mining induced event in the Lorraine region, France.

11 02 48 14.56 44.459 N 7.244 E 14 4 NORTHERN ITALY. <GEN>. ML 1.3 (GEN).

11 03 19 22.77 13.88 N 144.85 E 185 * 4.0 1.4 10 MARIANA ISLANDS

11 04 07 18.16 16.923 N 100.459 W 10 5 NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.6 (UNM).

11 04 36 30.1 53.031 N 173.663 E 130 D 4.5 1.0 106 NEAR ISLANDS, ALEUTIAN ISLANDS

11 05 49 10.2 45.671 N 9.398 E 5 G 0.6 22 NORTHERN ITALY. ML 2.4 (LDG).

11 07 16 26.57 32.61 S 178.50 W 46 D 4.8 1.5 14 SOUTH OF KERMADEC ISLANDS

11 07 21 59.1* 32.574 S 179.388 W 250 G 4.4 1.1 17 SOUTH OF KERMADEC ISLANDS

11 08 35 16.86 39.480 N 0.970 W 5 10 SPAIN. <MDD>. mbLg 2.3 (MDD).

11 09 14 51.46 15.808 N 98.799 W 16 8 OFF COAST OF GUERRERO, MEXICO. <UNM>. MD 4.2 (UNM).

11 09 15 58.5 2.249 N 128.018 E 33 N 5.2 4.3 0.9 89 HALMAHERA, INDONESIA. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 09:16:04.0; Lat 3.10 N; Lon 127.94 E; Dep 31.5; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=8.15, Plg=32, Azm=64; (N) Val=-1.41, Plg=57, Azm=256; (P) Val=-6.74, Plg=5, Azm=158; Best double couple: Mo=7.4*10**16 Nm; NP1: Strike=206, Dip=64, Slip=21; NP2: Strike=107, Dip=72, Slip=152.

11 10 08 26.46 16.618 N 99.665 W 7 7 NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.8 (UNM).

11 12 13 39.56 37.180 N 3.660 W 0 G 13 SPAIN. <MDD>. mbLg 2.1 (MDD).

11 12 26 54.06 37.400 N 117.100 W 6 6 CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.8 (REN).

11	12	32	51.5	51.604	N	5.586	E	10	G	0.9	22	THE NETHERLANDS. ML 3.7 (LDG), 3.4 (STR), 3.1 (UCC).	
11	12	40	23.2	34.014	S	72.218	W	28			10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).	
11	13	02	00.5	40.190	N	2.930	W	0	G		5	SPAIN. <MDD>. mbLg 2.0 (MDD).	
11	13	13	57.6	37.130	N	3.500	W	0	G		6	SPAIN. <MDD>. mbLg 1.6 (MDD).	
11	13	26	12.0*	6.792	S	129.631	E	133	?	4.4	19	BANDA SEA	
11	14	00	21.8	15.297	S	175.904	W	326	D	4.7	0.9	66	TONGA ISLANDS
11	14	25	31.8	18.747	N	66.132	W	25			6	PUERTO RICO REGION. <MPR>. ML 3.2 (MPR).	
11	14	34	38.8	44.324	N	7.275	E	15			25	NORTHERN ITALY. <GEN>. ML 2.3 (LDG), 2.2 (GEN), 2.0 (STR).	
11	14	41	41.0	44.331	N	7.295	E	14			5	NORTHERN ITALY. <GEN>. ML 1.4 (GEN).	
11	15	22	53.2*	49.888	N	29.035	W	10	G	4.2 3.8	1.1	38	NORTHERN MID-ATLANTIC RIDGE
11	15	29	27.2	36.530	N	7.160	W	54			25	STRAIT OF GIBRALTAR. <MDD>.	
11	16	25	22.3	44.302	N	7.264	E	15			6	NORTHERN ITALY. <GEN>. ML 1.6 (GEN).	
11	19	13	45.4	42.780	N	7.270	W	4			18	SPAIN. <MDD>. ML 2.8 (LDG). mbLg 2.7 (MDD). Felt (III) at Baralla and Becerrea.	
11	19	32	44.7	50.082	N	7.450	E	10	G	0.9	9	GERMANY. ML 2.3 (LDG), 2.1 (STR), 1.7 (UCC).	
11	19	42	54.2	47.100	N	2.800	W	4			23	FRANCE. <LDG>. ML 3.2 (LDG).	
11	19	46	08.0	45.400	N	6.600	E	2			5	FRANCE. <LDG>. ML 1.7 (LDG).	
11	20	05	52.6	15.834	N	98.997	W	15			6	OFF COAST OF GUERRERO, MEXICO. <UNM>. MD 3.9 (UNM).	
11	21	01	43.3	42.790	N	7.290	W	4			7	SPAIN. <MDD>. mbLg 2.5 (MDD).	
11	21	23	24.4	60.312	N	137.016	W	10	G	4.6	1.1	52	SOUTHERN YUKON TERRITORY, CANADA. ML 5.1 (PMR), 5.0 (PGC). Felt at Whitehorse. Also felt at Skagway, Alaska.
11	21	45	32.3*	31.04	S	68.87	W	150	G	0.9	9	SAN JUAN PROVINCE, ARGENTINA. MD 3.1 (GUC).	
11	22	34	09.7	44.275	N	7.317	E	16			6	NORTHERN ITALY. <GEN>. ML 1.6 (GEN).	
11	23	22	56.5*	29.02	N	139.07	E	489	?	0.8	8	SOUTH OF HONSHU, JAPAN	
11	23	40	34.0	45.190	N	13.301	E	5	G	0.7	23	NORTHERN ITALY. ML 3.0 (VIE), 2.7 (TRI), 2.7 (LDG), 2.6 (LJU).	
12	00	25	33.6	33.937	S	72.134	W	11			12	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GU?).	
12	00	29	31.2	33.992	S	72.117	W	8			11	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GU?).	
12	00	36	08.3	46.400	N	7.500	E	2			34	SWITZERLAND. <LDG>. ML 2.5 (LDG), 2.5 (VIE), 2.4 (FBB).	
12	00	52	33.6	38.780	S	175.800	E	170			13	NORTH ISLAND, NEW ZEALAND. <WEL>.	
12	01	21	20.5	33.937	N	116.359	W	9			27	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).	
12	01	56	30.8	16.317	N	93.897	W	153			4	CHIAPAS, MEXICO. <UNM>. MD 3.7 (UNM).	
12	02	41	13.6	45.814	N	12.807	E	10	G	1.0	14	NORTHERN ITALY. ML 2.8 (VIE).	
12	02	52	21.0	46.000	N	1.000	E	5			6	FRANCE. <LDG>. ML 1.8 (LDG).	
12	03	01	32.8	34.199	S	72.287	W	33			8	NEAR COAST OF CENTRAL CHILE. <GUC>.	
12	03	03	18.5	28.970	N	142.053	E	33	N	5.4 5.4	1.0	208	BONIN ISLANDS REGION. Mw 5.9 (GS), 5.7 (HRV). Moment Tensor (GS): Dep 3; Principal axes (scale 10**17 Nm): (T) Val=9.31, Plg=51, Azm=283; (N) Val=-0.30, Plg=2, Azm=15; (P) Val=-9.01, Plg=39, Azm=107; Best double couple: Mo=9.2*10**17 Nm; NP1: Strike=214, Dip=7, Slip=109; NP2: Strike=15, Dip=84, Slip=88. Centroid, Moment Tensor (HRV): Centroid origin time 03:03:19.7; Lat 28.75 N; Lon 142.37 E; Dep 15.0 Bdy; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=3.46, Plg=62, Azm=278; (N) Val=0.37, Plg=3, Azm=182; (P) Val=-3.83, Plg=28, Azm=90; Best double couple: Mo=3.7*10**17 Nm; NP1: Strike=171, Dip=18, Slip=79; NP2: Strike=3, Dip=73, Slip=94.
12	03	41	15.7	64.116	N	147.278	W	16			13	CENTRAL ALASKA. <AEIC>. ML 3.2 (AEIC), 3.6 (P*R).	
12	04	15	21.5*	21.16	S	178.35	W	500	G	4.3	1.1	14	FIJI ISLANDS REGION
12	04	33	13.9	33.961	S	72.136	W	35			13	OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.1 (GUC).	
12	05	28	45.5*	34.407	N	137.023	E	328	*	1.3	9	NEAR S. COAST OF HONSHU, JAPAN	
12	05	55	51.5	50.128	N	7.522	E	5	G	0.7	9	GERMANY. ML 2.4 (LDG), 2.2 (STR).	
12	06	06	36.1	44.451	N	7.286	E	11			28	NORTHERN ITALY. <GEN>. ML 2.5 (GEN), 2.0 (LDG), 2.0 (STR).	
12	06	17	40.5	38.069	N	23.763	E	10	G	3.9	1.4	80	GREECE. MD 3.9 (PDG).
12	06	22	15.7	49.999	N	28.988	W	10	G	4.4 4.0	1.3	70	NORTHERN MID-ATLANTIC RIDGE
12	06	40	39.4	34.901	S	71.111	W	94			9	NEAR COAST OF CENTRAL CHILE. <GUC>.	
12	06	48	09.3*	30.03	S	177.55	W	33	N	4.7	1.0	9	KERMADEC ISLANDS, NEW ZEALAND
12	07	04	30.1	28.915	N	142.257	E	33	N	4.4	0.9	29	BONIN ISLANDS REGION
12	07	34	21.6	40.190	N	2.910	W	3			5	SPAIN. <MDD>. mbLg 2.0 (MDD).	
12	07	39	38.0*	40.426	N	142.836	E	33	N	3.9	1.3	11	NEAR EAST COAST OF HONSHU, JAPAN
12	07	54	51.4	57.700	N	143.044	W	10			5	GULF OF ALASKA. <AEIC>. ML 3.2 (AEIC).	
12	09	00	08.1	31.049	N	77.672	E	33	N	4.5	1.0	39	NORTHERN INDIA
12	09	32	53.8	45.010	N	112.830	W	2			24	MONTANA. <BUT-P>. ML 3.1 (BUT).	
12	10	22	30.2	32.824	S	70.251	W	112			10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.3 (GUC).	
12	10	46	44.2	37.355	N	117.106	W	5	G	0.3	8	CALIFORNIA-NEVADA BORDER REGION. ML 3.1 (GS).	
12	10	50	41.2	48.580	N	8.230	E	2			54	GERMANY. <STR>. ML 3.1 (VIE), 2.9 (LDG), 2.9 (STR), 2.7 (FBB), 2.7 (GRF).	
12	11	15	55.4	31.894	S	69.683	W	163			12	SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 3.3 (GUC).	
12	11	36	24.3	35.952	N	69.806	E	106	D	4.4	1.3	40	HINDU KUSH REGION, AFGHANISTAN
12	13	12	19.6	2.967	N	126.959	E	33	N	4.9 4.4	1.2	45	NORTHERN MOLUCCA SEA. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 13:12:29.3; Lat 2.97 N Fix; Lon 126.96 E Fix; Dep 41.8; Half-duration 1.1 sec; Principal axes (scale 10**16 Nm): (T) Val=6.14, Plg=45, Azm=47; (N) Val=1.59, Plg=43, Azm=205; (P) Val=-7.73, Plg=11, Azm=306; Best double couple: Mo=6.9*10**16 Nm; NP1: Strike=76, Dip=51, Slip=152; NP2: Strike=184, Dip=69, Slip=43.
12	13	25	23.0	47.590	N	8.520	E	5			77	SWITZERLAND. <FBB>. ML 3.5 (GRF), 3.3 (LDG), 3.2 (STR), 3.1 (FUR), 3.0 (FBB), 2.9 (VIE).	
12	14	13	11.7	33.765	S	71.206	W	60			10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.0 (GUC).	
12	15	29	40.4	17.505	N	95.425	W	136			9	OAXACA, MEXICO. <UNM>. MD 4.1 (UNM).	
12	16	08	42.9*	57.254	N	122.227	E	10	G	0.6	7	SOUTHEASTERN SIBERIA, RUSSIA	
12	16	35	26.0	54.169	N	162.448	W	6			3	ALASKA PENINSULA. <AEIC>. ML 3.3 (AEIC).	
12	17	59	03.3*	12.71	S	167.08	E	33	N	4.5	1.4	13	SANTA CRUZ ISLANDS
12	18	00	15.8*	5.426	N	126.156	E	33	N	4.5	1.1	26	MINDANAO, PHILIPPINE ISLANDS
12	18	03	41.0*	2.867	N	126.954	E	33	N	4.5	1.2	12	NORTHERN MOLUCCA SEA
12	18	49	46.8*	2.884	N	126.770	E	33	N	4.7	1.0	18	NORTHERN MOLUCCA SEA
12	20	18	27.8	36.235	N	69.483	E	50	*	4.7	0.8	68	HINDU KUSH REGION, AFGHANISTAN
12	20	32	02.2*	41.026	N	141.362	E	33	N	4.3	1.4	19	HOKKAIDO, JAPAN REGION. Felt (II JMA) in eastern Aomori and (I JMA) in northern Iwate Prefectures, Honshu.
12	20	38	59.2	0.223	S	124.948	E	33	N		0.6	7	SOUTHERN MOLUCCA SEA
12	21	22	14.1*	4.552	S	123.130	E	33	N	4.6 4.2	1.4	21	BANDA SEA

12	22	17	24.7	44.793	N	112.770	W	11	25	EASTERN IDAHO. <BUT-P>.	ML 3.0 (BUT).
12	22	48	34.7	15.019	N	60.864	W	132	10	LEEWARD ISLANDS. <PDF>.	MD 3.2 (PDF).
12	22	56	46.3	35.486	N	139.974	E	65 D 5.2	0.7	258	NEAR S. COAST OF HONSHU, JAPAN. Mw 5.4 (HRV). Felt (III JMA) in Kanagawa and western Chiba Prefectures. Also felt (III JMA) in the Tokyo area. Felt from Fukushima Prefecture to Hachijo-jima.
											Centroid, Moment Tensor (HRV): Centroid origin time 22:56:51.9; Lat 35.60 N; Lon 140.04 E; Dep 74.2; Half-duration 2.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.17, Plg=77, Azm=286; (N) Val=0.21, Plg=3, Azm=182; (P) Val=-1.38, Plg=12, Azm=92; Best double couple: Mo=1.3*10**17 Nm; NP1: Strike=178, Dip=33, Slip=84; NP2: Strike=4, Dip=57, Slip=94.
13	00	26	48.5	32.349	S	71.533	W	33	11	NEAR COAST OF CENTRAL CHILE. <GUC>.	MD 3.5 (GUC).
13	00	35	16.0	9.151	N	84.050	W	20 G	13	COSTA RICA. <CASC>.	MD 4.2 (CASC).
13	01	53	18.0	37.750	N	4.620	W	1	19	SPAIN. <MDD>.	mbLg 2.5 (MDD).
13	02	14	32.6	35.664	N	137.288	E	262 4.4	0.9	48	EASTERN HONSHU, JAPAN
13	02	50	09.5	62.946	N	148.424	W	78	11	CENTRAL ALASKA. <AEIC>.	
13	03	41	36.4	31.16	S	69.74	W	100 G	0.9	12	SAN JUAN PROVINCE, ARGENTINA. MD 3.5 (GUC).
13	04	24	17.6	44.426	N	7.214	E	14	4	NORTHERN ITALY. <GEN>.	ML 1.5 (GEN).
13	04	43	19.4	3.636	S	149.515	E	57 * 5.1 5.3	1.2	49	BISMARCK SEA. Mw 5.6 (HRV).
											Centroid, Moment Tensor (HRV): Centroid origin time 04:43:16.1; Lat 3.83 S; Lon 149.55 E; Dep 15.0 Pix; Half-duration 2.0 sec; Principal axes (scale 10**17 Nm): (T) Val=2.85, Plg=12, Azm=162; (N) Val=-0.28, Plg=64, Azm=279; (P) Val=-2.58, Plg=22, Azm=67; Best double couple: Mo=2.7*10**17 Nm; NP1: Strike=206, Dip=65, Slip=-172; NP2: Strike=113, Dip=83, Slip=-25.
13	05	11	36.4	10.900	N	61.328	W	31	4	TRINIDAD. <TRN>.	MD 2.9 (TRN).
13	05	26	56.3	6.269	S	147.367	E	54 * 4.3	1.5	19	EASTERN NEW GUINEA REG., P.N.G.
13	05	45	06.7	15.831	N	91.979	W	254 4.2	1.1	47	MEXICO-GUATEMALA BORDER REGION. MD 4.4 (UNM).
13	06	18	03.4	49.275	S	120.748	E	10 G 4.5	1.4	15	SOUTH OF AUSTRALIA
13	06	55	50.6	5.444	N	126.324	E	33 N 4.2	1.2	11	MINDANAO, PHILIPPINE ISLANDS
13	06	57	25.0	42.244	N	18.896	E	9	8	NORTHWESTERN BALKAN REGION. <PDG>.	MD 1.5 (PDG).
13	07	30	10.4	15.192	S	174.673	W	33 N 4.8	1.3	58	TONGA ISLANDS
13	07	58	57.4	34.747	S	71.666	W	35	12	NEAR COAST OF CENTRAL CHILE. <GUC>.	MD 3.6 (GUC).
13	08	34	56.9	62.205	N	150.146	W	0	7	CENTRAL ALASKA. <AEIC>.	ML 2.5 (AEIC).
13	09	16	04.6	16.715	S	173.079	W	33 N 4.6	0.9	26	TONGA ISLANDS
13	09	17	47.0	40.727	N	29.194	E	6	5	TURKEY. <ISK>.	MD 2.6 (ISK).
13	10	57	02.7	40.568	N	19.631	E	10 G	1.0	35	ALBANIA. MD 3.7 (PDG). Felt at Fier and Vlore. Also felt at Kastoria, Greece.
13	11	55	28.1	40.709	N	30.045	E	13 G 5.8 5.8	0.9	420	TURKEY. Mw 5.9 (GS), 5.8 (HRV). Me 5.8 (GS). MD 5.8 (ISK). Six people killed, one died of a heart attack. 422 injured and additional damage in the Adapazari-Golcuk-Kocaeli area. Felt in much of northwestern Turkey.
											Broadband Source Parameters (GS): Dep 13; NP1: Strike=170, Dip=90, Slip=-40; NP2: Strike=260, Dip=50, Slip=180; Radiated energy 9.5*10**12 Nm.
											Moment Tensor (GS): Dep 8; Principal axes (scale 10**17 Nm): (T) Val=7.10, Plg=36, Azm=242; (N) Val=-0.79, Plg=40, Azm=9; (P) Val=-6.31, Plg=30, Azm=128; Best double couple: Mo=6.7*10**17 Nm; NP1: Strike=272, Dip=40, Slip=175; NP2: Strike=6, Dip=86, Slip=50.
											Centroid, Moment Tensor (HRV): Centroid origin time 11:55:32.0; Lat 40.31 N; Lon 30.29 E; Dep 15.0 Bdy; Half-duration 2.0 sec; Principal axes (scale 10**17 Nm): (T) Val=5.57, Plg=18, Azm=226; (N) Val=0.79, Plg=59, Azm=350; (P) Val=-6.35, Plg=24, Azm=128; Best double couple: Mo=6.0*10**17 Nm; NP1: Strike=268, Dip=59, Slip=-176; NP2: Strike=176, Dip=86, Slip=-31.
13	12	40	09.8	5.175	N	126.272	E	150 ? 4.5	1.1	16	MINDANAO, PHILIPPINE ISLANDS
13	12	43	06.9	44.400	N	7.400	E	2	12	NORTHER	

duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.13, Plg=13, Azm=111; (N) Val=0.92, Plg=54, Azm=220; (P) Val=-6.05, Plg=33, Azm=12; Best double couple: Mo=5.6*10**16 Nm; NP1: Strike=157, Dip=57, Slip=-164; NP2: Strike=58, Dip=77, Slip=-34.

14 12 54 30.9 31.578 N 104.228 E 33 N 4.9 0.8 73 SICHUAN, CHINA. ML 5.1 (BJI).
 14 13 35 44.5& 40.669 N 29.046 E 13 8 TURKEY. <ISK>. MD 3.0 (ISK).
 14 14 07 29.7& 39.700 S 176.510 E 12 12 NORTH ISLAND, NEW ZEALAND. <WEL>. ML 4.0 (WEL).
 14 14 55 35.3? 45.30 N 147.12 E 33 N 1.5 9 KURIL ISLANDS
 14 15 47 24.7 39.833 N 15.202 E 297 4.8 1.1 320 SOUTHERN ITALY. MD 4.4 (PDG).
 14 16 24 32.0& 42.338 N 19.493 E 18 8 NORTHWESTERN BALKAN REGION. <PDG>. MD 1.5 (PDG).
 14 17 29 38.1* 26.910 S 26.622 E 5 G 4.4 1.3 8 REPUBLIC OF SOUTH AFRICA
 14 18 09 41.0* 3.394 N 126.396 E 33 N 4.5 0.6 13 TALAUD ISLANDS, INDONESIA
 14 18 28 19.2* 36.715 N 69.882 E 33 N 4.5 1.2 26 HINDU KUSH REGION, AFGHANISTAN
 14 20 54 35.4& 42.970 S 171.720 E 12 11 SOUTH ISLAND, NEW ZEALAND. <WEL>. ML 4.6 (WEL).
 14 21 49 13.0* 40.813 N 23.962 E 33 N 1.5 16 GREECE. Felt at Drama and Kavala.
 14 22 17 24.4 15.090 N 146.223 E 92 D 5.3 4.6 1.0 133 MARIANA ISLANDS. Mw 5.5 (GS), 5.5 (HRV). Felt on Saipan. Moment Tensor (GS): Dep 71; Principal axes (scale 10**17 Nm): (T) Val=2.23, Plg=41, Azm=341; (N) Val=-0.02, Plg=40, Azm=203; (P) Val=-2.21, Plg=23, Azm=92; Best double couple: Mo=2.2*10**17 Nm; NP1: Strike=134, Dip=42, Slip=16; NP2: Strike=33, Dip=79, Slip=131. Centroid, Moment Tensor (HRV): Centroid origin time 22:17:26.2; Lat 15.14 N; Lon 146.36 E; Dep 52.7; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=1.97, Plg=38, Azm=338; (N) Val=0.27, Plg=23, Azm=229; (P) Val=-2.24, Plg=43, Azm=116; Best double couple: Mo=2.1*10**17 Nm; NP1: Strike=131, Dip=23, Slip=-8; NP2: Strike=228, Dip=87, Slip=-113.

14 23 48 12.9* 45.504 N 26.606 E 100 G 0.7 9 ROMANIA
 15 01 29 23.8& 33.250 S 72.105 W 34 10 OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
 15 01 30 45.5* 4.766 S 144.381 E 33 N 4.7 1.4 16 NEAR N COAST OF NEW GUINEA, PNG.
 15 01 49 26.8& 43.096 N 18.964 E 3 21 NORTHWESTERN BALKAN REGION. <PDG>. MD 3.2 (PDG).
 15 02 58 19.2& 57.369 N 153.584 W 29 3 KODIAK ISLAND REGION. <AEIC>. ML 3.2 (AEIC).
 15 02 59 01.1 20.201 S 177.924 W 500 G 4.3 0.8 32 FIJI ISLANDS REGION
 15 03 01 24.3 20.934 S 67.275 W 218 D 6.0 1.0 481 SOUTHERN BOLIVIA. Mw 6.4 (GS), 6.4 (HRV). Me 6.2 (GS). mb 6.4 (BRK). Felt at Tarija. Felt (V) at Guatracocho, Iquique, Pachica and Quillagua; (IV) at Arica, Calama, Chungara and Putre; (III) at Antofagasta, Baquedano, Copiapo, Playa Blanca, Taltal, Tignamar and Tocopilla, Chile. Also felt (IV) at Tacna and (II) at Arequipa, Peru. Broadband Source Parameters (GS): Dep 218; NP1: Strike=350, Dip=82, Slip=-70; NP2: Strike=101, Dip=21, Slip=-158; Radiated energy 5.2*10**13 Nm. Two events about 2 seconds apart. Depth based on first event. Moment Tensor (GS): Dep 212; Principal axes (scale 10**18 Nm): (T) Val=5.31, Plg=31, Azm=60; (N) Val=0.00, Plg=38, Azm=178; (P) Val=-5.31, Plg=37, Azm=303; Best double couple: Mo=5.3*10**18 Nm; NP1: Strike=94, Dip=38, Slip=-175; NP2: Strike=0, Dip=87, Slip=-52. Centroid, Moment Tensor (HRV): Centroid origin time 03:01:31.3; Lat 20.73 S; Lon 67.37 W; Dep 217.5; Half-duration 3.9 sec; Principal axes (scale 10**18 Nm): (T) Val=4.24, Plg=35, Azm=65; (N) Val=0.47, Plg=20, Azm=169; (P) Val=-4.72, Plg=49, Azm=283; Best double couple: Mo=4.5*10**18 Nm; NP1: Strike=102, Dip=21, Slip=-159; NP2: Strike=351, Dip=82, Slip=-70.

15 03 54 50.3& 33.089 S 70.990 W 71 10 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
 15 04 04 35.4& 43.097 N 18.963 E 5 9 NORTHWESTERN BALKAN REGION. <PDG>. MD 2.1 (PDG).
 15 05 20 46.4& 36.024 N 117.881 W 5 14 CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 2.9 (PAS).
 15 06 12 53.4& 39.335 N 27.892 E 5 7 TURKEY. <ISK>. MD 3.0 (ISK).
 15 08 10 20.7* 12.605 N 87.725 W 33 N 4.2 1.0 39 NEAR COAST OF NICARAGUA
 15 09 02 11.7& 40.631 N 30.285 E 7 8 TURKEY. <ISK>. MD 2.9 (ISK).
 15 09 33 33.2& 40.658 N 30.779 E 10 9 TURKEY. <ISK>. MD 3.2 (ISK).
 15 09 58 35.4* 15.165 S 70.716 W 199 * 4.2 1.3 19 SOUTHERN PERU
 15 10 49 05.1& 43.087 N 18.947 E 7 8 NORTHWESTERN BALKAN REGION. <PDG>. MD 1.8 (PDG).
 15 11 30 00.0& 31.766 S 71.835 W 26 10 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
 15 12 03 11.5 32.458 S 69.323 W 100 G 0.9 16 MENDOZA PROVINCE, ARGENTINA. MD 4.0 (GUC).
 15 13 06 50.8& 31.688 S 71.757 W 30 9 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
 15 14 37 16.3& 40.760 S 175.660 E 28 7 NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.0 (WEL).
 15 14 37 47.2& 44.400 N 7.300 E 4 27 NORTHERN ITALY. <LDG>. ML 2.7 (LDG), 2.5 (GEI), 2.3 (STR).
 15 16 43 07.5* 18.142 S 177.755 W 500 G 4.1 0.9 36 FIJI ISLANDS REGION
 15 17 55 58.6* 14.886 S 71.503 W 111 ? 4.3 0.9 11 CENTRAL PERU
 15 18 25 49.4& 33.592 S 70.355 W 12 9 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
 15 18 30 02.0& 40.350 S 174.570 E 0 6 COOK STRAIT, NEW ZEALAND. <WEL>. ML 3.1 (WEL).
 15 19 38 56.1 44.362 N 149.427 E 33 N 5.0 4.4 1.0 97 KURIL ISLANDS. Mw 5.0 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 19:38:59.6; Lat 44.69 N; Lon 149.69 E; Dep 33.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=3.99, Plg=63, Azm=282; (N) Val=-1.90, Plg=5, Azm=182; (P) Val=-2.09, Plg=26, Azm=90; Best double couple: Mo=3.0*10**16 Nm; NP1: Strike=169, Dip=19, Slip=76; NP2: Strike=4, Dip=71, Slip=95.

15 20 18 47.7& 33.802 S 71.125 W 63 10 NEAR COAST OF CENTRAL CHILE. <GUC>.
 15 20 38 54.9* 52.740 N 168.456 W 33 N 4.4 1.0 26 FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.6 (PMR).
 15 21 46 19.2& 48.600 N 5.600 E 2 9 FRANCE. <LDG>. ML 2.2 (LDG).
 16 00 19 18.9& 36.632 N 121.250 W 11 22 CENTRAL CALIFORNIA. <GM-P>. Mw 3.6 (BRK). ML 3.5 (GM), 3.6 (BRK). Moment Tensor (BRK): Dep 14; Principal axes (scale 10**14 Nm): (T) Val=3.12, Plg=3, Azm=83; (N) Val=0.00, Plg=87, Azm=236; (P) Val=-3.12, Plg=1, Azm=353; Best double couple: Mo=3.1*10**14 Nm; NP1: Strike=218, Dip=89, Slip=3; NP2: Strike=128, Dip=87, Slip=179.

16	00	35	03.0	38.310	N	108.907	W	5	G	0.9	8	COLORADO. ML 2.9 (GS).
16	00	48	24.5	33.006	S	70.174	W	5			9	CHILE-ARGENTINA BORDER REGION. <GUC>.
16	01	19	03.0	33.736	S	70.410	W	104			8	CHILE-ARGENTINA BORDER REGION. <GUC>.
16	02	23	07.9	12.86	N	86.16	W	33	N 4.0	1.3	8	NICARAGUA
16	02	57	37.0	46.286	N	13.647	E	5	G	0.8	15	AUSTRIA. ML 3.0 (VIE), 2.5 (TRI), 2.3 (LJU).
16	03	02	44.5	36.022	N	117.884	W	4			28	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.6 (PAS).
16	04	00	57.0	6.969	S	147.213	E	63	* 4.3	1.2	6	EASTERN NEW GUINEA REG., P.N.G.
16	05	00	35.1	39.244	N	27.782	E	13			5	TURKEY. <ISK>. MD 3.1 (ISK).
16	05	34	15.0	32.046	S	71.305	W	56			12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.0 (GUC).
16	05	39	33.8	39.247	N	27.784	E	11			12	TURKEY. <ISK>. MD 3.5 (ISK).
16	05	50	39.6	40.705	N	29.964	E	13			6	TURKEY. <ISK>. MD 2.8 (ISK).
16	05	59	32.7	43.20	N	128.38	W	10	G	0.3	36	OFF COAST OF OREGON
16	06	48	35.3	36.812	N	42.216	E	33	N 4.2	1.4	9	IRAQ
16	08	20	11.2	39.320	N	27.969	E	6			10	TURKEY. <ISK>. MD 3.4 (ISK).
16	09	25	20.7	39.030	N	26.533	E	0			6	TURKEY. <ISK>. MD 3.7 (ISK).
16	09	35	06.6	14.706	S	166.693	E	33	N 5.1 5.0	1.1	139	VANUATU ISLANDS
16	11	21	12.7	14.672	S	166.736	E	33	N 4.7 4.6	1.0	62	VANUATU ISLANDS
16	11	54	11.2	21.39	N	120.10	E	33	N 4.6	0.9	11	TAIWAN REGION
16	12	13	44.4	3.052	N	128.407	E	227	D 4.8	1.1	68	NORTH OF HALMAHERA, INDONESIA
16	13	04	27.8	34.365	S	70.612	W	121			8	CHILE-ARGENTINA BORDER REGION. <GUC>.
16	13	08	57.2	22.970	S	63.696	W	533	* 4.5	0.9	20	SALTA PROVINCE, ARGENTINA
16	13	10	14.6	40.758	N	29.928	E	14			6	TURKEY. <ISK>. MD 2.5 (ISK).
16	13	11	52.8	2.665	N	127.935	E	44	* 5.1 4.4	1.2	50	NORTHERN MOLUCCA SEA. Mw 5.2 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 13:11:54.9; Lat 3.02 N; Lon 128.11 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=8.60, Plg=27, Azm=217; (N) Val=-1.71, Plg=58, Azm=76; (P) Val=-6.90, Plg=17, Azm=316; Best double couple: Mo=7.8*10**16 Nm; NPl: Strike=359, Dip=58, Slip=7; NP2: Strike=265, Dip=84, Slip=148.												
16	13	31	09.9	32.322	S	71.869	W	33			13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
16	13	44	09.6	21.233	N	120.230	E	33	N 4.7 4.1	0.7	30	TAIWAN REGION
16	14	15	23.2	63.465	N	151.472	W	0			13	CENTRAL ALASKA. <AEIC>. ML 3.1 (AEIC), 3.4 (PMF).
16	14	18	36.4	44.264	N	148.437	E	33	N 5.1	1.0	102	KURIL ISLANDS
16	15	10	55.5	17.359	N	94.558	W	187			4	CHIAPAS, MEXICO. <UNM>. MD 3.8 (UNM).
16	15	53	07.6	45.500	N	5.400	E	2			10	FRANCE. <LDG>. ML 2.1 (LDG).
16	16	12	02.1	21.221	N	120.191	E	33	N 4.7	1.0	46	TAIWAN REGION
16	17	12	33.2	31.25	S	68.90	W	150	G	1.1	10	SAN JUAN PROVINCE, ARGENTINA. MD 3.2 (GUC).
16	17	17	03.4	46.056	N	14.771	E	10	G	0.5	11	NORTHWESTERN BALKAN REGION. ML 2.3 (VIE), 1.6 (LJU).
16	17	34	52.3	46.270	N	153.586	E	33	N 5.4 4.8	0.9	210	KURIL ISLANDS. Mw 5.2 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 17:34:56.5; Lat 46.33 N; Lon 153.80 E; Dep 15.0 Bdy; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.87, Plg=66, Azm=219; (N) Val=-0.14, Plg=24, Azm=43; (P) Val=-6.73, Plg=1, Azm=312; Best double couple: Mo=6.8*10**16 Nm; NPl: Strike=19, Dip=48, Slip=57; NP2: Strike=244, Dip=51, Slip=122.												
16	17	39	49.5	36.025	N	117.880	W	5			27	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.1 (PAS).
16	17	39	57.9	36.025	N	117.892	W	4			6	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.1 (PAS).
16	17	58	45.5	40.484	N	30.213	E	7			16	TURKEY. <ISK>. MD 3.5 (ISK).
16	18	28	07.3	44.233	N	7.901	E	11			9	NORTHERN ITALY. <GEN>. ML 2.1 (GEN).
16	18	33	58.5	7.183	N	94.220	E	33	N 4.6	1.4	29	NICOBAR ISLANDS, INDIA
16	18	49	44.0	18.204	N	67.887	W	19			6	MONA PASSAGE. <MPR>. MD 3.4 (MPR).
16	18	58	25.6	43.291	N	19.846	E	8			9	NORTHWESTERN BALKAN REGION. <PDG>. MD 1.9 (PDG).
16	19	00	18.2	45.90	N	26.79	E	100	G	0.3	6	ROMANIA
16	19	58	32.5	9.010	S	118.338	E	33	N 4.3	0.8	5	SUMBAWA REGION, INDONESIA
16	20	26	59.2	62.964	N	150.255	W	11			10	CENTRAL ALASKA. <AEIC>. ML 2.7 (AEIC), 3.2 (PMF).
16	21	44	19.5	37.200	N	2.150	W	5			14	SPAIN. <MDD>. mbLg 2.5 (MDD).
16	21	46	55.6	46.273	N	13.727	E	10	G	0.9	17	AUSTRIA. ML 3.0 (VIE), 2.7 (LJU), 2.4 (TRI), 2.4 (FUR). Felt (IV) at Volarje, Slovenia.
16	21	47	43.5	46.334	N	13.675	E	10	G	0.2	5	AUSTRIA. ML 2.8 (VIE).
16	22	21	37.0	33.854	S	70.392	W	115			8	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
16	22	46	07.7	59.949	N	152.645	W	101			5	SOUTHERN ALASKA. <AEIC>.
16	23	04	41.1	44.511	S	72.475	W	29			11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
16	23	21	33.7	44.233	N	146.289	E	120	4.5	0.9	82	KURIL ISLANDS
16	23	33	28.6	15.979	N	74.325	W	8			9	OFF COAST OF GUERRERO, MEXICO. <UNM>. MD 4.0 (UNM).
16	23	55	55.8	17.485	N	67.450	W	74			6	MONA PASSAGE. <MPR>. MD 2.8 (MPR).
17	00	47	57.5	60.227	N	152.748	W	111			9	SOUTHERN ALASKA. <AEIC>.
17	01	12	15.4	28.964	N	137.710	E	600	G	0.6	16	BONIN ISLANDS REGION
17	01	47	20.0	39.540	S	178.090	E	33	N		8	OFF E. COAST OF N. ISLAND, N.Z. <WEL>. ML 4.0 (WEL).
17	03	07	18.8	24.721	N	141.593	E	33	N 4.6	1.1	33	VOLCANO ISLANDS REGION
17	03	13	55.1	41.960	S	172.860	E	55			11	SOUTH ISLAND, NEW ZEALAND. <WEL>.
17	03	39	54.3	51.286	N	178.865	E	33	N 4.1	1.1	18	RAT ISLANDS, ALEUTIAN ISLANDS
17	03	42	46.7	46.632	N	153.004	E	33	N	1.1	13	KURIL ISLANDS
17	03	45	17.0	6.340	S	74.952	W	91	? 4.5	0.9	40	PERU-BRAZIL BORDER REGION
17	06	53	36.5	9.062	S	109.670	W	10	G 4.4	1.2	22	CENTRAL EAST PACIFIC RISE
17	07	02	00.2	32.306	S	71.408	W	45			5	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
17	07	23	36.7	41.371	N	22.831	E	5	G	0.8	7	NORTHWESTERN BALKAN REGION
17	07	43	13.0	41.404	N	22.798	E	5	G	0.9	7	NORTHWESTERN BALKAN REGION
17	07	52	02.3	14.771	N	61.029	W	4			5	WINDWARD ISLANDS. <FDF>. MD 2.7 (TRN), 2.5 (FTN).
17	08	38	42.6	41.360	N	22.842	E	5	G	1.0	6	NORTHWESTERN BALKAN REGION
17	08	43	11.3	31.849	S	69.990	W	149			11	SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 2.8 (GUC).
17	08	54	23.9	1.076	S	78.491	W	10	G 4.8	1.1	69	ECUADOR. Felt at Ambato and in other parts of Tungurahua Province.
17	09	37	53.8	38.310	S	175.960	E	177			18	NORTH ISLAND, NEW ZEALAND. <WEL>.
17	10	50	19.2	54.606	N	161.782	E	78	*	1.2	20	NEAR EAST COAST OF KAMCHATKA
17	12	47	56.7	40.768	N	30.627	E	5			7	TURKEY. <ISK>. MD 2.8 (ISK).
17	13	19	08.0	33.910	S	71.423	W	52			11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
17	13	34	30.9	32.596	S	71.527	W	30			11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
17	13	35	18.1	43.492	N	127.120	W	10	G 3.8	0.7	91	OFF COAST OF OREGON
17	13	46	00.8	51.29	N	151.07	E	454	*	1.2	8	SEA OF OKHOTSK
17	13	51	58.6	44.539	N	7.142	E	10			32	NORTHERN ITALY. <GEN>. ML 2.7 (GEN), 2.7 (LDG), 2.4 (STR).
17	14	17	50.5	13.93	N	91.49	W	33	N 3.8	0.7	11	NEAR COAST OF GUATEMALA

17 14 54 48.7 13.790 S 167.238 E 197 D 5.9 5.5 1.0 380 VANUATU ISLANDS. Mw 6.3 (GS), 6.3 (HRV). Me 5.9 (GS).
Broadband Source Parameters (GS): Dep 197; NPl: Strike=330,
Dip=40, Slip=90; NP2: Strike=150, Dip=50, Slip=90; Radiated
energy 1.6×10^{13} Nm.
Moment Tensor (GS): Dep 199; Principal axes (scale 10^{18}
Nm): (T) Val=3.32, Plg=82, Azm=166; (N) Val=-0.40, Plg=8,
Azm=356; (P) Val=-2.91, Plg=1, Azm=266; Best double couple:
Mo= 3.1×10^{18} Nm; NPl: Strike=348, Dip=44, Slip=79; NP2:
Strike=183, Dip=47, Slip=101.
Centroid, Moment Tensor (HRV): Centroid origin time
14:54:54.3; Lat 13.78 S; Lon 167.05 E; Dep 197.0; Half-
duration 2.0 sec; Principal axes (scale 10^{18} Nm): (T)
Val=3.23, Plg=79, Azm=153; (N) Val=-0.25, Plg=11, Azm=341;
(P) Val=-2.98, Plg=1, Azm=251; Best double couple:
Mo= 3.1×10^{18} Nm; NPl: Strike=330, Dip=44, Slip=75; NP2:
Strike=171, Dip=47, Slip=104.

17 14 58 57.7* 13.752 S 167.280 E 200 G 5.1 0.9 38 VANUATU ISLANDS
17 15 24 17.7 24.568 N 141.300 E 176 * 4.6 0.8 25 VOLCANO ISLANDS REGION
17 16 15 23.0& 40.810 N 3.950 W 3 5 SPAIN. <MDD>. mbLg 2.3 (MDD).
17 16 26 53.1& 32.414 S 70.189 W 128 10 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.2 (GUC).
17 16 36 37.4* 1.987 N 128.660 E 33 N 3.9 0.9 9 HALMAHERA, INDONESIA
17 16 36 53.8 41.378 N 22.818 E 10 G 1.1 8 NORTHWESTERN BALKAN REGION
17 17 16 39.1& 47.500 N 2.900 W 2 19 FRANCE. <LDG>. ML 2.7 (LDG).
17 17 20 07.0& 37.380 N 117.090 W 8 10 CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.1 (REN).
17 18 15 25.1& 47.500 N 2.900 W 2 15 FRANCE. <LDG>. ML 2.6 (LDG).
17 18 18 42.2& 33.841 S 70.778 W 83 8 CHILE-ARGENTINA BORDER REGION. <GUC>.
17 18 35 11.4& 32.528 S 70.493 W 97 11 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
17 19 21 29.1? 15.52 S 177.65 W 33 N 4.5 0.9 12 FIJI ISLANDS REGION
17 19 22 22.6& 44.264 N 7.894 E 14 5 NORTHERN ITALY. <GEN>. ML 1.7 (GEN).
17 19 22 59.7& 35.627 S 71.375 W 110 10 CENTRAL CHILE. <GUC>.
17 19 27 02.2 51.624 N 16.186 E 5 G 0.5 12 POLAND. ML 3.2 (VIE), 2.7 (CLL).
17 19 44 45.2& 32.933 S 71.457 W 56 11 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.5 (GUC).
17 19 50 04.8 40.711 N 30.154 E 10 G 4.3 1.1 62 TURKEY. MD 4.5 (ISK).
17 20 14 47.3 29.141 N 52.559 E 33 N 4.5 3.8 1.0 73 SOUTHERN IRAN
17 21 01 28.4 22.520 S 66.105 W 261 D 4.4 1.0 71 JUJUY PROVINCE, ARGENTINA
17 21 29 52.5? 19.35 N 144.90 E 500 G 3.9 1.1 70 MARIANA ISLANDS
17 21 31 47.9 54.870 N 162.041 W 65 D 4.6 0.9 84 ALASKA PENINSULA. ML 4.6 (AEIC). Felt strongly at Sand
Point. Also felt at Cold Bay and King Cove.
17 22 23 28.7* 5.543 S 147.521 E 189 4.6 0.9 14 EASTERN NEW GUINEA REG., P.N.G.
17 22 54 02.2 24.014 N 141.794 E 33 N 4.7 1.0 34 VOLCANO ISLANDS REGION
17 23 26 36.8& 35.891 S 72.048 W 33 12 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
17 23 48 11.2 14.408 S 178.210 W 33 N 5.1 5.1 0.9 124 FIJI ISLANDS REGION. Mw 5.5 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time
23:48:14.9; Lat 14.00 S; Lon 177.95 W; Dep 15.0 Fix; Half-
duration 1.3 sec; Principal axes (scale 10^{17} Nm): (T)
Val=2.07, Plg=65, Azm=343; (N) Val=0.10, Plg=15, Azm=107;
(P) Val=-2.17, Plg=20, Azm=202; Best double couple:
Mo= 2.1×10^{17} Nm; NPl: Strike=315, Dip=28, Slip=122; NP2:
Strike=100, Dip=66, Slip=74.
17 23 56 48.2& 45.700 N 6.300 E 2 12 FRANCE. <LDG>. ML 2.1 (LDG).
18 00 48 24.6 40.607 N 29.297 E 10 G 4.5 1.0 107 TURKEY
18 01 23 03.0& 37.390 N 117.110 W 8 9 CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.2 (REN). Two
events about ten seconds apart. Hypocenter is for the first
event and the magnitude for the second and larger event.

18 01 47 25.5& 42.326 N 24.929 E 5 G 0.8 8 BULGARIA
18 01 53 08.8& 35.520 S 71.485 W 88 10 CENTRAL CHILE. <GUC>. MD 2.7 (GUC).
18 02 18 50.4& 32.091 S 71.640 W 47 9 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
18 02 19 33.7* 18.388 N 145.260 E 508 ? 4.2 0.9 26 MARIANA ISLANDS
18 03 10 11.2* 23.846 N 141.915 E 33 N 4.2 1.2 16 VOLCANO ISLANDS REGION
18 03 19 46.0& 34.167 S 70.054 W 4 7 CHILE-ARGENTINA BORDER REGION. <GUC>.
18 04 01 04.4* 4.422 S 104.444 W 10 G 4.7 5.1 0.8 53 CENTRAL EAST PACIFIC RISE. Mw 5.6 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time
04:01:11.0; Lat 4.19 S; Lon 104.84 W; Dep 15.0 Fix; Half-
duration 1.6 sec; Principal axes (scale 10^{17} Nm): (T)
Val=2.70, Plg=23, Azm=143; (N) Val=-0.42, Plg=67, Azm=310;
(P) Val=-2.28, Plg=5, Azm=51; Best double couple:
Mo= 2.5×10^{17} Nm; NPl: Strike=185, Dip=70, Slip=167; NP2:
Strike=280, Dip=78, Slip=20.
18 04 06 49.5& 47.100 N 2.700 W 6 4 FRANCE. <LDG>. ML 1.9 (LDG).
18 04 19 14.2* 14.979 S 167.642 E 33 N 4.0 0.8 15 VANUATU ISLANDS
18 04 23 54.9& 44.236 N 7.895 E 10 7 NORTHERN ITALY. <GEN>. ML 1.9 (GEN).
18 04 32 29.7& 34.513 S 70.574 W 123 13 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.2 (GUC).
18 04 37 32.6? 1.03 S 137.33 E 33 N 4.3 1.1 8 NEAR NORTH COAST OF IRIAN JAYA
18 04 58 47.1& 15.306 N 61.179 W 134 13 LEEWARD ISLANDS. <FDF>. MD 3.5 (TRN), 3.0 (FIF).
18 05 10 39.3* 45.652 N 15.554 E 10 G 0.3 5 NORTHWESTERN BALKAN REGION. ML 1.5 (LJU).
18 05 45 09.5* 1.051 S 132.903 E 33 N 4.5 1.2 13 IRIAN JAYA REGION, INDONESIA
18 06 50 58.1 6.443 S 147.799 E 49 5.3 5.1 1.0 63 EASTERN NEW GUINEA REG., P.N.G. Mw 5.6 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time
06:51:04.5; Lat 6.56 S; Lon 147.71 E; Dep 41.4; Half-
duration 1.5 sec; Principal axes (scale 10^{17} Nm): (T)
Val=2.20, Plg=15, Azm=4; (N) Val=0.78, Plg=37, Azm=262; (P)
Val=-2.98, Plg=49, Azm=111; Best double couple:
Mo= 2.6×10^{17} Nm; NPl: Strike=133, Dip=44, Slip=-30; NP2:
Strike=245, Dip=69, Slip=-130.

18 07 20 23.9& 16.356 N 99.688 W 0 16 NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.0 (UNM).
18 07 51 53.5* 49.167 S 126.690 E 10 G 4.8 4.7 1.3 23 SOUTH OF AUSTRALIA. Mw 5.3 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time
07:51:57.1; Lat 48.84 S; Lon 127.13 E; Dep 15.0 Fix; Half-
duration 1.0 sec; Principal axes (scale 10^{16} Nm): (T)
Val=8.92, Plg=7, Azm=237; (N) Val=0.69, Plg=74, Azm=352;
(P) Val=-9.61, Plg=15, Azm=146; Best double couple:
Mo= 9.3×10^{16} Nm; NPl: Strike=282, Dip=75, Slip=-174; NP2:
Strike=191, Dip=85, Slip=-15.

18	07	54	24.4*	6.532 S	154.907 E	63 ?	4.6	1.2	25	SOLOMON ISLANDS
18	08	09	38.2*	4.998 S	145.638 E	51 *	4.3	1.2	8	NEAR N COAST OF NEW GUINEA, PNG.
18	09	07	35.0&	37.558 N	118.801 W	4			43	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. ML 3.3 (GM), 3.5 (BRK).
18	09	26	14.4*	23.941 S	66.786 W	203 *	3.7	0.9	20	JUJUY PROVINCE, ARGENTINA
18	11	00	54.0?	15.97 S	177.10 W	33 N	4.8 5.0	1.1	23	FIJI ISLANDS REGION. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 11:00:57.5; Lat 15.26 S; Lon 176.88 W; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.16, Plg=17, Azm=113; (N) Val=0.19, Plg=7, Azm=336; (P) Val=-1.35, Plg=15, Azm=208; Best double couple: Mo=1.3*10**17 Nm; NP1: Strike=251, Dip=67, Slip=2; NP2: Strike=160, Dip=88, Slip=157.
18	11	11	09.0&	61.618 N	150.754 W	58			13	SOUTHERN ALASKA. <AEIC>. ML 3.2 (AEIC), 3.6 (P&T).
18	11	19	00.6*	51.569 N	16.231 E	5 G		0.9	8	POLAND. ML 3.3 (VIE).
18	11	19	37.3*	6.462 N	76.165 W	62 *	4.4	0.9	31	NORTHERN COLOMBIA
18	11	51	42.7&	47.000 N	6.900 E	2			5	FRANCE. <LDG>. ML 1.7 (LDG).
18	12	52	35.2	4.028 S	103.321 E	33 N	5.1 5.2	1.2	72	SOUTHERN SUMATERA, INDONESIA. Mw 5.4 (HRV). Felt (IV) at Manna and Pagaralam; (III) at Kepahiang and Palembang. Centroid, Moment Tensor (HRV): Centroid origin time 12:52:36.5; Lat 4.19 S; Lon 103.40 E; Dep 42.5; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.55, Plg=11, Azm=272; (N) Val=0.14, Plg=75, Azm=132; (P) Val=-1.69, Plg=9, Azm=4; Best double couple: Mo=1.6*10**17 Nm; NP1: Strike=48, Dip=75, Slip=2; NP2: Strike=318, Dip=88, Slip=165.
18	13	29	25.8&	46.200 N	7.260 E	2 G			27	SWITZERLAND. <STR>. ML 2.9 (VIE), 2.5 (LDG), 2.4 (STR).
18	13	38	16.4&	32.762 N	115.438 W	14			6	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.0 (PAS).
18	14	19	00.6*	9.555 S	108.046 E	33 N		0.9	7	SOUTH OF JAWA, INDONESIA
18	15	06	53.5&	32.156 S	71.049 W	58			12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
18	16	14	21.0&	37.860 N	117.500 W	2			14	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.0 (REN). ML 3.0 (GS).
18	16	30	04.7*	33.182 N	75.220 E	33 N	4.3	1.4	11	EASTERN KASHMIR
18	16	57	30.2*	1.290 N	127.286 E	170 *	4.7	0.9	16	HALMAHERA, INDONESIA
18	17	00	02.1&	16.086 N	97.982 W	16			8	OAXACA, MEXICO. <UNM>. MD 3.8 (UNM).
18	17	14	28.9&	40.621 N	29.137 E	6			5	TURKEY. <ISK>. MD 2.7 (ISK).
18	17	18	02.5*	85.168 N	17.457 E	10 G	4.5	0.9	8	NORTH OF SVALBARD
18	17	52	21.8&	40.781 N	30.303 E	13			7	TURKEY. <ISK>. MD 2.9 (ISK).
18	18	52	09.8?	21.68 N	143.35 E	200 G	4.3	1.5	12	MARIANA ISLANDS REGION
18	19	15	29.1&	40.659 N	29.140 E	12			6	TURKEY. <ISK>. MD 2.6 (ISK).
18	19	15	31.1&	61.540 N	146.509 W	20			4	SOUTHERN ALASKA. <AEIC>. ML 3.1 (AEIC).
18	19	25	27.0&	35.798 N	121.256 W	6			19	CENTRAL CALIFORNIA. <GM-P>. ML 3.4 (GM), 3.3 (BRK).
18	19	44	53.0*	13.495 S	167.902 E	33 N	3.9	0.9	21	VANUATU ISLANDS
18	20	11	38.6	1.264 N	122.659 E	40 D	4.8 4.6	1.2	36	MINAHASSA PENINSULA, SULAWESI
18	20	26	10.8&	44.254 N	7.905 E	13			4	NORTHERN ITALY. <GEN>. ML 1.5 (GEN).
18	20	28	36.0&	32.602 S	71.515 W	24			12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).
18	21	14	40.8&	40.603 N	29.050 E	22			8	TURKEY. <ISK>. MD 2.9 (ISK).
18	21	23	45.3*	14.456 N	91.354 W	33 N	4.1	1.2	22	GUATEMALA
18	21	28	33.1	51.207 N	157.556 E	60 D	5.9 5.6	0.9	485	NEAR EAST COAST OF KAMCHATKA. Mw 6.0 (GS), 6.0 (HRV). Me 5.5 (GS). Felt (VI) at Severo-Kurilsk, Paramushir; (IV) at Petropavlovsk-Kamchatskiy. Broadband Source Parameters (GS): Dep 60; NP1: Strike=170, Dip=75, Slip=90; NP2: Strike=350, Dip=15, Slip=90; Radiated energy 4.7*10**12 Nm. Moment Tensor (GS): Dep 47; Principal axes (scale 10**18 Nm): (T) Val=1.32, Plg=59, Azm=75; (N) Val=-0.41, Plg=23, Azm=210; (P) Val=-0.91, Plg=20, Azm=308; Best double couple: Mo=1.1*10**18 Nm; NP1: Strike=71, Dip=33, Slip=136; NP2: Strike=200, Dip=68, Slip=65. Centroid, Moment Tensor (HRV): Centroid origin time 21:28:37.2; Lat 51.02 N; Lon 157.53 E; Dep 67.7; Half-duration 2.5 sec; Principal axes (scale 10**18 Nm): (T) Val=1.45, Plg=55, Azm=84; (N) Val=-0.57, Plg=2, Azm=351; (P) Val=-0.88, Plg=35, Azm=260; Best double couple: Mo=1.2*10**18 Nm; NP1: Strike=342, Dip=11, Slip=80; NP2: Strike=172, Dip=80, Slip=92.
18	21	59	09.5&	36.490 N	2.980 W	7			10	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.3 (MDD).
18	22	13	28.1&	40.778 N	29.917 E	9			8	TURKEY. <ISK>. MD 2.8 (ISK).
18	23	25	19.5	22.846 S	66.198 W	262 D	4.4	1.3	55	JUJUY PROVINCE, ARGENTINA
18	23	51	30.4	19.713 S	169.205 E	103 D	5.8 5.1	1.0	306	VANUATU ISLANDS. Mw 5.9 (GS), 5.9 (HRV). Felt at Noumea. Moment Tensor (GS): Dep 104; Principal axes (scale 10**17 Nm): (T) Val=7.96, Plg=61, Azm=79; (N) Val=0.95, Plg=1, Azm=347; (P) Val=-8.91, Plg=29, Azm=256; Best double couple: Mo=8.4*10**17 Nm; NP1: Strike=342, Dip=16, Slip=86; NP2: Strike=167, Dip=74, Slip=91. Centroid, Moment Tensor (HRV): Centroid origin time 23:51:35.5; Lat 19.68 S; Lon 169.03 E; Dep 112.9; Half-duration 2.3 sec; Principal axes (scale 10**17 Nm): (T) Val=8.31, Plg=51, Azm=83; (N) Val=0.20, Plg=4, Azm=347; (P) Val=-8.51, Plg=39, Azm=254; Best double couple: Mo=8.4*10**17 Nm; NP1: Strike=314, Dip=8, Slip=56; NP2: Strike=168, Dip=84, Slip=94.
19	00	27	23.0	46.419 N	153.377 E	46 *	4.9 4.6	1.1	70	KURIL ISLANDS. Mw 5.8 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 00:27:31.9; Lat 46.42 N Fix; Lon 153.38 E Fix; Dep 15.0 Fix; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=6.52, Plg=37, Azm=300; (N) Val=-0.89, Plg=16, Azm=43; (P) Val=-5.63, Plg=48, Azm=152; Best double couple: Mo=6.1*10**17 Nm; NP1: Strike=333, Dip=17, Slip=-160; NP2: Strike=224, Dip=84, Slip=-74.
19	00	50	48.2&	38.620 N	1.590 W	11			20	SPAIN. <MDD>. mbLg 2.3 (MDD).
19	01	13	41.1&	40.707 N	29.964 E	6			8	TURKEY. <ISK>. MD 2.8 (ISK).
19	02	11	03.2&	20.588 N	99.340 W	14			10	CENTRAL MEXICO. <UNM>. MD 3.4 (UNM).

19	02	26	48.9&	40.622 N	29.110 E	8				5	TURKEY. <ISK>. MD 2.7 (ISK).
19	02	28	18.0&	4.940 N	73.490 W	30				10	COLOMBIA. <RSNC>. ML 4.4 (RSNC).
19	03	18	54.5	3.624 S	150.875 E	431 D	5.2	0.9	232	NEW IRELAND REGION, P.N.G. Mw 5.9 (GS), 5.9 (HRV). Moment Tensor (GS): Dep 431; Principal axes (scale 10**17 Nm): (T) Val=8.78, Plg=56, Azm=51; (N) Val=0.42, Plg=29, Azm=267; (P) Val=-9.20, Plg=17, Azm=167; Best double couple: Mo=9.0*10**17 Nm; NP1: Strike=221, Dip=38, Slip=38; NP2: Strike=100, Dip=68, Slip=122. Centroid, Moment Tensor (HRV): Centroid origin time 03:19:00.3; Lat 3.63 S; Lon 150.93 E; Dep 435.4; Half-duration 2.2 sec; Principal axes (scale 10**17 Nm): (T) Val=9.00, Plg=49, Azm=48; (N) Val=-0.41, Plg=34, Azm=268; (P) Val=-8.59, Plg=20, Azm=164; Best double couple: Mo=8.8*10**17 Nm; NP1: Strike=212, Dip=39, Slip=28; NP2: Strike=99, Dip=73, Slip=125.	
19	04	15	18.5&	31.987 S	69.785 W	156				12	SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 3.4 (GUC).
19	04	21	44.4&	46.441 N	119.626 W	20				49	WASHINGTON. <SEA-P>. MD 3.1 (SEA).
19	04	32	27.5&	32.650 S	71.528 W	32				8	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
19	04	59	28.3&	32.988 S	68.323 W	6				11	MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 3.8 (GUC).
19	05	14	20.3&	42.600 N	1.700 E	2				11	PYRENEES. <LDG>. ML 2.3 (LDG). mblg 1.9 (MDE).
19	05	27	19.8&	42.600 N	1.700 E	2				5	PYRENEES. <LDG>. ML 2.0 (LDG).
19	05	37	23.3*	5.706 S	153.263 E	70 ?	4.7	1.3	27	NEW IRELAND REGION, P.N.G.	
19	05	41	45.1&	44.236 N	7.906 E	10				7	NORTHERN ITALY. <GEN>. ML 1.9 (GEN).
19	06	18	42.4&	42.600 N	1.700 E	2				5	PYRENEES. <LDG>. ML 2.1 (LDG).
19	06	46	17.5*	26.472 N	129.021 E	33 N	4.2	1.0	17	RUKYU ISLANDS	
19	07	14	22.9	56.262 N	153.272 W	10 G	4.5	0.9	17	KODIAK ISLAND REGION	
19	07	25	52.6*	45.968 N	14.498 E	10 G		0.2	5	NORTHWESTERN BALKAN REGION. ML 2.2 (VIE).	
19	07	57	19.7*	5.019 S	102.298 E	33 N	4.6	1.0	21	SOUTHERN SUMATERA, INDONESIA	
19	08	12	43.6&	44.227 N	7.897 E	9				22	NORTHERN ITALY. <GEN>. ML 2.4 (GEN), 2.2 (LIG), 2.0 (STR).
19	09	31	05.7&	16.128 N	96.605 W	16				8	OAXACA, MEXICO. <UNM>. MD 4.1 (UNM).
19	11	11	52.9&	46.392 N	120.106 W	13				81	WASHINGTON. <SEA-P>. MD 3.2 (SEA).
19	11	16	14.8	16.581 S	74.023 W	33 N	4.8	0.9	36	NEAR COAST OF PERU	
19	11	26	59.7&	37.040 N	3.590 W	0 G				7	SPAIN. <MDD>. mblg 2.1 (MDD).
19	12	26	22.0*	52.302 N	174.005 W	63 ?		1.2	9	ANDREANOF ISLANDS, ALEUTIAN IS.	
19	12	44	27.9&	33.475 S	70.116 W	12				9	CHILE-ARGENTINA BORDER REGION. <GUC>.
19	15	21	04.2&	44.236 N	7.907 E	10				4	NORTHERN ITALY. <GEN>. ML 1.5 (GEN).
19	15	42	05.6&	40.720 N	30.023 E	17				8	TURKEY. <ISK>. MD 3.0 (ISK).
19	15	50	36.5&	38.840 N	27.858 E	27				10	TURKEY. <ISK>. MD 3.5 (ISK).
19	16	28	17.7&	37.040 N	2.490 W	2				10	SPAIN. <MDD>. mblg 2.0 (MDD).
19	16	31	33.5&	40.779 N	29.199 E	21				6	TURKEY. <ISK>. MD 2.7 (ISK).
19	16	34	33.6&	46.700 N	0.600 E	2				9	FRANCE. <LDG>. ML 2.1 (LDG).
19	16	47	00.1	43.154 N	46.879 E	44	4.8	1.3	130	EASTERN CAUCASUS. Felt (IV) at Kizilyurt, Kerkmaskala and Makhachkala.	
19	16	47	51.7	9.072 S	123.475 E	33 N	4.7	0.8	25	TIMOR REGION, INDONESIA	
19	17	25	04.7*	54.717 N	168.254 E	33 N	4.3	1.1	15	KOMANDORSKY ISLANDS REGION	
19	17	42	08.4	55.742 S	25.098 W	33 N	4.9	1.0	27	SOUTH SANDWICH ISLANDS REGION	
19	17	59	53.4&	40.895 N	30.350 E	13				6	TURKEY. <ISK>. MD 2.8 (ISK).
19	18	19	53.2&	40.680 N	29.1						

Centroid, Moment Tensor (HRV): Centroid origin time 09:32:46.8; Lat 46.60 N; Lon 153.78 E; Dep 15.0 Bdy; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.67, Plg=78, Azm=271; (N) Val=0.11, Plg=8, Azm=40; (P) Val=-1.78, Plg=10, Azm=131; Best double couple: Mo=1.7*10**17 Nm; NP1: Strike=231, Dip=36, Slip=104; NP2: Strike=34, Dip=55, Slip=80.

20 10 18 53.3 31.839 N 40.680 W 10 G 4.8 0.8 59 NORTHERN MID-ATLANTIC RIDGE
 20 11 16 54.0 47.607 N 121.764 W 17 74 WASHINGTON. <SEA-P>. MD 2.8 (SEA). Felt.
 20 11 43 53.3 44.227 N 7.890 E 10 33 NORTHERN ITALY. <GEN>. ML 2.9 (GEN), 2.7 (LDG), 2.6 (STR).
 20 12 00 02.3* 6.429 S 129.377 E 176 * 4.1 0.9 14 BANDA SEA
 20 12 09 36.8 26.544 N 142.308 E 33 N 4.9 4.3 0.9 32 BONIN ISLANDS REGION
 20 12 20 07.1 32.517 S 70.884 W 74 10 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.8 (GUC).
 20 13 16 08.7 31.510 S 71.756 W 27 16 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.3 (GUC).
 20 14 39 17.2 31.903 S 70.304 W 115 8 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
 20 14 57 19.8 44.249 N 7.892 E 13 5 NORTHERN ITALY. <GEN>. ML 1.7 (GEN).
 20 17 08 47.5 42.500 N 2.100 E 2 17 PYRENEES. <LDG>. ML 2.7 (LDG), 2.7 (STR). mbLg 2.5 (MDD).
 20 17 47 18.4 23.772 N 120.982 E 33 N 6.5 7.7 1.1 367 TAIWAN. Mw 7.7 (HRV), 7.5 (GS), 7.5 (OBN). Me 7.2 (GS). At least 2,297 people killed, 8,700 injured, 600,000 people left homeless and about 82,000 housing units damaged by the earthquake and larger aftershocks. Damage estimated at 14 billion U.S. dollars. Maximum intensity (VI JMA) in Nan-tou and Tai-chung Counties. Half of a village was lost by subsidence into the Ta-an Hsi and landslides blocked the Ching-shui Hsi, creating a large lake. Two other lakes were created by substantial ground deformation near the epicenter. Surface faulting occurred along 75 km of the Chelungpu Fault. Felt (V JMA) at Chia-i and I-lan; (IV JMA) at Kao-hsiung, Taipei and Tai-tung; (IV JMA) on Lan Yu and Peng-hu Tao; (III JMA) at Hua-lien. Felt strongly in Fujian, Guangdong and Zhejiang Provinces. Felt (IV) in Hong Kong. Also felt (II JMA) on Iriomote-jima and Yonaguni-jima; (I JMA) on Ishigaki-jima and Miyako-jima, Ryukyu Islands.

Broadband Source Parameters (GS): Dep 21; NP1: Strike=220, Dip=75, Slip=90; NP2: Strike=40, Dip=15, Slip=90; Radiated energy 1.5*10**15 Nm. Complex earthquake. A small event is followed by a larger one about 11 seconds later. Focal mechanism and depth from synthetics of broadband displacement seismograms based on larger event.

Moment Tensor (GS): Dep 8; Principal axes (scale 10**20 Nm): (T) Val=1.74, Plg=70, Azm=157; (N) Val=-0.03, Plg=16, Azm=13; (P) Val=-1.71, Plg=11, Azm=280; Best double couple: Mo=1.7*10**20 Nm; NP1: Strike=350, Dip=37, Slip=62; NP2: Strike=203, Dip=58, Slip=109.

Centroid, Moment Tensor (HRV): Centroid origin time 17:47:35.3; Lat 24.15 N; Lon 120.80 E; Dep 21.2; Half-duration 19.9 sec; Principal axes (scale 10**20 Nm): (T) Val=3.48, Plg=70, Azm=116; (N) Val=-0.20, Plg=2, Azm=212; (P) Val=-3.28, Plg=20, Azm=303; Best double couple: Mo=3.4*10**20 Nm; NP1: Strike=37, Dip=25, Slip=96; NP2: Strike=211, Dip=65, Slip=87.

Moment Tensor (OBN): Principal axes: (T) Plg=59, Azm=143; (N) Plg=28, Azm=349; (P) Plg=11, Azm=253; Best double couple: Mo=1.8*10**20 Nm; NP1: Strike=312, Dip=42, Slip=45; NP2: Strike=185, Dip=62, Slip=122.

Scalar Moment (PPT): Mo=5.2*10**20 Nm.

20 17 55 59.7 44.244 N 7.896 E 13 8 NORTHERN ITALY. <GEN>. ML 1.9 (GEN).
 20 17 57 16.0 23.785 N 121.202 E 33 N 6.1 0.8 257 TAIWAN. ML 6.3 (TAP). Felt (IV JMA) at Chia-i, Hua-lien and Tai-chung; (III JMA) at I-lan, (II JMA) at Tai-tung and (I JMA) at Kao-hsiung. Also felt (III JMA) on Peng-hu Tao and (I JMA) on Lan Yu.

20 18 02 22.7* 24.251 N 121.541 E 33 N 0.8 13 TAIWAN. Felt (III JMA) at Hua-lien and Tai-chung; (II JMA) at Chia-i.

20 18 02 27.4 44.239 N 7.898 E 11 5 NORTHERN ITALY. <GEN>. ML 1.6 (GEN).
 20 18 03 44.2 23.570 N 121.299 E 33 N 6.3 1.4 210 TAIWAN. ML 6.6 (TAP). Felt (IV JMA) at Chia-i and Tai-chung; (III JMA) at Hua-lien and Tai-tung. Also felt (III JMA) on Peng-hu Tao.

20 18 11 53.6 23.746 N 121.189 E 33 N 6.1 0.8 268 TAIWAN
 20 18 16 18.5 23.756 N 121.246 E 33 N 6.2 0.9 248 TAIWAN. ML 6.8 (TAP). Felt (V JMA) at Tai-chung; (IV JMA) at Chia-i and Hua-lien; (III JMA) at I-lan and Tai-tung. Also felt (IV JMA) on Peng-hu Tao.

20 18 26 13.5* 23.665 N 121.025 E 33 N 1.3 16 TAIWAN
 20 18 28 02.6 23.678 N 121.196 E 33 N 4.9 0.9 27 TAIWAN
 20 18 32 55.5 23.747 N 121.219 E 33 N 4.5 1.2 24 TAIWAN. Felt (II JMA) at Chia-i, Hua-lien and Tai-chung.
 20 18 39 16.3* 23.900 N 121.246 E 33 N 4.1 0.9 15 TAIWAN
 20 18 47 44.8* 23.819 N 121.399 E 33 N 1.3 17 TAIWAN. Felt (II JMA) at Chia-i and Tai-chung; (I JMA) at Hua-lien.

20 18 50 49.4* 23.871 N 121.168 E 33 N 4.9 1.0 15 TAIWAN. ML 5.1 (TAP). Felt (III JMA) in northern Hua-lien County; (II JMA) at Chia-i and Hua-lien; (I JMA) at Tai-chung.

20 18 53 34.6 24.327 N 120.859 E 33 N 0.8 7 TAIWAN. Felt (II JMA) at Chia-i and Tai-chung; (I JMA) at Hua-lien.

20 18 56 06.0* 23.517 N 120.463 E 33 N 0.7 11 TAIWAN
 20 18 58 56.1* 23.808 N 121.112 E 33 N 1.1 12 TAIWAN. Felt (II JMA) at Chia-i and Tai-chung; (I JMA) at Hua-lien.

20 19 17 12.0* 23.869 N 121.145 E 33 N 1.2 9 TAIWAN
 20 19 18 54.4 24.094 N 121.058 E 33 N 4.5 0.6 16 TAIWAN
 20 19 28 43.9 23.775 N 121.112 E 33 N 4.8 1.1 20 TAIWAN. ML 5.4 (TAP). Felt (III JMA) at Chia-i; (II JMA) at Hua-lien and Tai-chung; (I JMA) on Peng-hu Tao.

20 19 40 36.4 23.408 N 120.768 E 33 N 5.0 1.4 64 TAIWAN. Felt (IV JMA) at Chia-i; (II JMA) at Hua-lien and Tai-chung; (I JMA) at I-lan, Kao-hsiung and Tai-tung. Also felt (II JMA) on Peng-hu Tao and (I JMA) on Lan Yu.

20	19	43	03.2*	23.827 N	121.321 E	33 N	4.8	1.1	17	TAIWAN
20	19	46	06.1&	44.229 N	7.902 E	9			7	NORTHERN ITALY. <GEN>. ML 1.9 (GEN).
20	19	57	53.9	23.926 N	121.023 E	33 N	4.5	0.8	24	TAIWAN
20	20	02	17.5	23.976 N	120.901 E	33 N	5.0	1.0	42	TAIWAN. ML 5.6 (TAP). Felt (IV JMA) at Tai-chung, (III JMA) at Chia-i, (II JMA) at Hua-lien and (I JMA) at Kao-hsiung and Tai-tung. Also felt (I JMA) on Peng-hu Tao.
20	20	08	12.9*	24.031 N	121.032 E	33 N	4.6	0.9	16	TAIWAN
20	20	11	40.8*	23.861 N	120.965 E	33 N	4.8	0.9	7	TAIWAN
20	20	18	05.4&	23.712 N	121.514 E	33 N		1.0	12	TAIWAN
20	20	22	01.4	24.070 N	121.078 E	33 N	4.9	1.1	29	TAIWAN. ML 5.2 (TAP). Felt (II JMA) at Tai-chung and (I JMA) at Chia-i, Hua-lien and I-lan. Also felt (I JMA) on Peng-hu Tao.
20	20	24	17.9*	23.745 N	121.097 E	33 N	4.9	0.9	14	TAIWAN
20	20	29	21.0*	23.648 N	121.091 E	33 N	4.2	0.9	8	TAIWAN
20	20	32	53.0&	23.888 N	121.001 E	33 N		0.7	8	TAIWAN
20	20	40	05.6	23.800 N	121.485 E	33 N	5.1	1.0	73	TAIWAN
20	20	43	51.1	23.597 N	121.446 E	33 N	4.9	1.4	62	TAIWAN. ML 5.4 (TAP). Felt (IV JMA) in the epicentral area, (III JMA) at Hua-lien and (I JMA) at Chia-i, I-lan and Tai-chung.
20	21	02	18.1&	32.566 S	71.700 W	29			11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
20	21	07	57.0&	37.380 N	117.100 W	8			10	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.3 (REN).
20	21	08	01.0*	23.728 N	121.219 E	33 N	4.5	1.4	12	TAIWAN
20	21	10	37.4&	23.655 N	120.945 E	33 N		1.2	7	TAIWAN
20	21	15	27.1*	23.435 N	121.540 E	33 N	3.9	1.2	13	TAIWAN
20	21	21	12.7*	23.825 N	121.235 E	33 N	4.4	1.1	10	TAIWAN
20	21	23	27.6*	23.673 N	120.878 E	33 N	4.6	1.5	13	TAIWAN. Felt (III JMA) at Chia-i and (II JMA) at Hua-lien.
20	21	24	35.5	23.918 N	121.166 E	33 N	4.8	0.6	16	TAIWAN
20	21	27	58.2	24.051 N	121.299 E	33 N	4.7	0.9	16	TAIWAN
20	21	27	59.2	40.644 N	27.589 E	10 G	4.8	1.2	172	TURKEY. MD 5.0 (ISK). Felt at Alexandroupolis and Komotini, Greece.
20	21	29	33.6*	24.022 N	121.062 E	33 N		0.9	8	TAIWAN
20	21	41	22.9	23.512 N	120.768 E	33 N	4.6	0.9	21	TAIWAN
20	21	44	17.2*	54.487 N	168.404 E	33 N	4.7	1.4	9	KOMANDORSKY ISLANDS REGION
20	21	44	31.8&	40.707 N	27.591 E	8			10	TURKEY. <ISK>. MD 3.7 (ISK).
20	21	46	42.8	23.390 N	120.964 E	33 N	5.8 6.5	1.4	201	TAIWAN. Mw 6.4 (HRV). ML 6.4 (TAP). Felt (V JMA) at Chia-i; (III JMA) at Hua-lien, Kao-hsiung, Tai-chung and Tai-tung; (II JMA) at I-lan. Also felt (III JMA) on Peng-hu Tao and (II JMA) on Lan Yu. Centroid, Moment Tensor (HRV): Centroid origin time 21:46:45.1; Lat 23.60 N; Lon 120.69 E; Dep 19.8; Half-duration 4.0 sec; Principal axes (scale 10**18 Nm): (T) Val=5.01, Plg=2, Azm=201; (N) Val=-0.36, Plg=88, Azm=11; (P) Val=-4.65, Plg=0, Azm=111; Best double couple: Mo=4.8*10**18 Nm; NP1: Strike=246, Dip=89, Slip=179; NP2: Strike=336, Dip=89, Slip=1.
20	21	48	36.4&	41.980 S	174.780 E	30			9	COOK STRAIT, NEW ZEALAND. <WEL>. ML 3.3 (WEL).
20	21	54	31.9	38.699 N	9.281 W	10 G		1.1	62	PORTUGAL. mbLg 3.8 (MDD). Felt (III) at Oeiras.
20	21	54	49.4	23.584 N	120.950 E	33 N	5.3	1.1	76	TAIWAN
20	22	16	40.6&	40.715 N	27.590 E	6			6	TURKEY. <ISK>. MD 3.2 (ISK).
20	22	22	50.4*	23.590 N	120.727 E	33 N	4.5	1.2	21	TAIWAN. Felt (V JMA) in the epicentral area, (III JMA) at Chia-i and (I JMA) at Hua-lien and Tai-chung.
20	22	33	56.7*	23.949 N	121.141 E	33 N		1.4	13	TAIWAN
20	22	44	39.3&	23.982 N	120.307 E	33 N		0.5	6	TAIWAN
20	22	51	44.4*	23.946 N	120.881 E	33 N		1.4	9	TAIWAN
20	22	52	40.2&	44.966 N	7.056 E	4			26	NORTHERN ITALY. <GEN>. ML 2.7 (GEN), 2.3 (LDG).
20	22	56	46.4*	23.919 N	121.030 E	33 N	4.3	1.4	14	TAIWAN. Felt (III JMA) at Chia-i and (II JMA) at Hua-lien and Tai-chung.
20	23	00	37.8&	24.113 N	121.118 E	33 N		0.8	12	TAIWAN
20	23	01	45.9*	23.266 N	121.105 E	33 N	4.2	1.4	11	TAIWAN
20	23	18	16.8	23.588 N	120.990 E	33 N	4.8	1.3	31	TAIWAN. ML 5.2 (TAP). Felt (IV JMA) in the epicentral area, (III JMA) at Chia-i and (I JMA) at Hua-lien.
20	23	46	08.7*	23.452 N	120.061 E	33 N	4.3	0.7	6	TAIWAN
21	00	15	24.7&	40.940 S	174.030 E	33 N			13	COOK STRAIT, NEW ZEALAND. <WEL>. ML 4.1 (WEL).
21	00	16	40.9*	23.798 N	121.403 E	33 N	4.1	0.6	12	TAIWAN
21	00	19	50.0*	23.721 N	121.537 E	33 N	4.4	1.1	12	TAIWAN
21	00	26	03.1&	36.480 N	3.180 W	5			12	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.0 (MDD).
21	00	45	41.8	23.783 N	121.049 E	33 N	4.9	0.9	47	TAIWAN. ML 5.2 (TAP). Felt (III JMA) at Chia-i and Hua-lien; (II JMA) at Tai-chung.
21	00	47	36.1&	28.100 N	16.190 W	0			4	CANARY ISLANDS REGION. <MDD>. mbLg 2.8 (MDD).
21	00	55	25.7&	40.950 S	173.980 E	41			5	COOK STRAIT, NEW ZEALAND. <WEL>.
21	01	17	42.9*	24.228 N	121.202 E	33 N	4.4	0.7	14	TAIWAN
21	01	18	41.3&	23.174 N	120.581 E	33 N		1.2	10	TAIWAN
21	01	32	05.3&	38.470 N	0.940 W	1			10	SPAIN. <MDD>. mbLg 2.2 (MDD).
21	01	37	10.2	23.647 N	120.804 E	33 N	4.4	1.0	23	TAIWAN. Felt (IV JMA) in the epicentral area and (II JMA) at Chia-i, Hua-lien and Tai-chung.
21	01	54	15.2?	23.93 N	121.70 E	33 N	4.0	1.4	7	TAIWAN
21	01	58	59.6*	26.094 N	126.002 E	33 N	4.8	1.3	16	RYUKYU ISLANDS
21	02	07	09.8	41.739 S	16.251 W	10 G	5.4 5.0	1.1	34	SOUTHERN MID-ATLANTIC RIDGE
21	02	24	45.7*	23.831 N	121.151 E	33 N	4.4	0.8	13	TAIWAN. ML 4.9 (TAP). Felt (II JMA) at Chia-i and (I JMA) at Hua-lien and Tai-chung.
21	02	34	40.5*	23.415 N	120.608 E	33 N	4.3	1.4	11	TAIWAN
21	02	42	37.9*	41.673 S	16.343 W	10 G	4.5	0.9	16	SOUTHERN MID-ATLANTIC RIDGE
21	02	45	42.4*	24.051 N	121.138 E	33 N	4.4	0.6	8	TAIWAN
21	03	01	32.3	24.098 N	121.605 E	33 N	4.8	0.8	47	TAIWAN
21	03	05	42.7*	51.016 N	157.999 E	59 D	4.5	0.8	22	NEAR EAST COAST OF KAMCHATKA. Felt (II) at Severo-Kurilsk, Paramushir.
21	03	31	50.9	23.983 N	121.093 E	33 N	4.7 4.6	1.0	29	TAIWAN. ML 5.1 (TAP). Felt (II JMA) at Chia-i and Hua-lien; (I JMA) at I-lan and Tai-chung.
21	04	14	57.3&	44.962 N	7.046 E	2			6	NORTHERN ITALY. <GEN>. ML 2.1 (GEN).
21	04	34	33.0&	40.651 N	27.671 E	9			5	TURKEY. <ISK>. MD 2.8 (ISK).
21	04	59	46.4*	23.949 N	121.560 E	33 N	3.9	1.1	12	TAIWAN
21	05	26	15.8*	23.786 N	121.279 E	33 N	3.7	1.3	10	TAIWAN
21	05	33	50.7&	39.324 N	27.807 E	10			7	TURKEY. <ISK>. MD 3.0 (ISK).

21	05	52	08.0*	24.128 N	121.090 E	33 N	4.0	0.6	10	TAIWAN
21	05	53	38.1?	23.53 N	121.16 E	33 N	4.3	0.9	10	TAIWAN
21	06	10	07.9&	39.350 N	27.850 E	27			8	TURKEY. <ISK>. MD 3.2 (ISK).
21	06	19	01.2*	37.473 N	142.323 E	33 N	3.8	1.3	11	OFF EAST COAST OF HONSHU, JAPAN
21	06	21	59.3&	42.556 N	20.340 E	9			9	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.0 (PDG).
21	06	36	30.8*	24.134 N	121.048 E	33 N	3.8	1.4	10	TAIWAN. Felt (III JMA) in the epicentral area and (I JMA) at Chia-i, Hua-lien and Tai-chung.
21	07	06	05.2	23.695 N	121.352 E	33 N	5.1 4.5	0.9	70	TAIWAN. ML 5.2 (TAP). Felt (IV JMA) in the epicentral area, (III JMA) at Hua-lien, (II JMA) at Chia-i and (I JMA) at Tai-chung.
21	07	40	55.4*	24.155 N	121.161 E	33 N	4.3	1.2	17	TAIWAN
21	07	46	08.5	24.086 N	121.155 E	33 N	4.6	1.0	23	TAIWAN. ML 5.2 (TAP). Felt (IV JMA) in the epicentral area and (II JMA) at Chia-i, Hua-lien and Tai-chung.
21	07	48	00.9*	9.366 N	93.512 E	33 N	4.5	1.1	18	NICOBAR ISLANDS, INDIA
21	08	03	18.8	23.523 N	120.791 E	33 N	4.1	1.0	17	TAIWAN. Felt (V JMA) in the epicentral area and (IV JMA) at Chia-i.
21	08	24	02.3&	23.263 N	120.564 E	33 N		0.7	7	TAIWAN
21	08	26	53.5*	26.126 N	126.566 E	68 *	4.3	1.2	19	RYUKYU ISLANDS
21	08	56	18.5&	16.935 N	62.019 W	68			4	LEEWARD ISLANDS. <TRN>. MD 2.7 (TRN).
21	09	10	19.3*	23.628 N	120.636 E	33 N	4.2	1.3	13	TAIWAN. ML 4.7 (TAP). Felt (III JMA) in the epicentral area and (I JMA) at Hua-lien and Tai-chung.
21	09	36	21.0*	23.077 N	121.204 E	33 N		0.9	8	TAIWAN
21	09	41	49.1*	23.676 N	121.076 E	33 N	3.7	1.0	12	TAIWAN. Felt (III JMA) in the epicentral area, (II JMA) at Tai-chung and (I JMA) at Chia-i and Hua-lien.
21	11	07	43.3	23.595 N	121.022 E	33 N	4.6	1.0	25	TAIWAN. ML 5.1 (TAP). Felt (IV JMA) in the epicentral area and (II JMA) at Chia-i and Tai-chung.
21	11	39	36.2*	23.523 N	120.393 E	33 N	4.1	0.7	7	TAIWAN. Felt (IV JMA) in the epicentral area, (III JMA) at Chia-i and (I JMA) at Tai-chung and on Peng-hu Tao.
21	11	49	46.4	44.715 N	149.898 E	33 N	5.7 4.8	0.8	299	KURIL ISLANDS. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 11:49:45.9; Lat 44.09 N; Lon 149.71 E; Dep 37.8; Half-duration 1.1 sec; Principal axes (scale 10**16 Nm): (T) Val=6.93, Plg=55, Azm=296; (N) Val=-0.02, Plg=30, Azm=80; (P) Val=-6.91, Plg=17, Azm=180; Best double couple: Mo=6.9*10**16 Nm; NP1: Strike=307, Dip=38, Slip=144; NP2: Strike=67, Dip=68, Slip=58.
21	12	46	21.3&	40.772 N	27.623 E	19			13	TURKEY. <ISK>. MD 3.3 (ISK).
21	13	09	17.2&	40.619 N	124.291 W	23			6	NEAR COAST OF NORTHERN CALIF. <GM-P>. MD 3.1 (G').
21	13	32	23.2*	24.178 N	121.199 E	33 N	3.8	0.5	6	TAIWAN
21	13	52	50.2&	40.650 S	174.850 E	42			12	COOK STRAIT, NEW ZEALAND. <WEL>. Felt along the Kapiti Coast and at Wellington on the North Island.
21	14	11	41.4	13.939 N	90.791 W	78 D	4.5	1.2	60	NEAR COAST OF GUATEMALA. MD 4.7 (UNM), 4.6 (CASC).
21	14	21	03.6	33.061 N	141.402 E	33 N	4.9	0.9	56	OFF EAST COAST OF HONSHU, JAPAN
21	14	29	25.2*	23.794 N	121.222 E	33 N	4.1	1.5	10	TAIWAN
21	14	32	16.9*	23.867 N	121.449 E	33 N	4.3	0.8	12	TAIWAN. ML 5.0 (TAP). Felt (III JMA) at Hua-lien.
21	14	36	03.6	51.598 N	16.087 E	5 G		1.1	44	POLAND. ML 4.5 (GRF), 4.3 (FUR), 4.2 (VIE), 4.1 (FBB), 3.8 (CLL).
21	14	40	08.6*	24.078 N	121.509 E	33 N	4.0	1.4	11	TAIWAN. Felt (IV JMA) in the epicentral area, (II JMA) at Tai-chung and (I JMA) at Chia-i.
21	15	28	11.8	23.533 N	121.064 E	33 N	4.6	1.4	37	TAIWAN. ML 5.1 (TAP). Felt (IV JMA) in the epicentral area and (III JMA) at Chia-i.
21	15	31	09.1&	45.000 N	7.200 E	2			8	NORTHERN ITALY. <LDG>. ML 2.5 (LDG).
21	15	42	47.7&	35.809 N	121.338 W	9			21	CENTRAL CALIFORNIA. <GM-P>. Mw 3.6 (BRK). ML 3.6 (GM), 3.6 (BRK), 3.7 (PAS). Moment Tensor (BRK): Dep 8; Principal axes (scale 10**14 Nm): (T) Val=2.70, Plg=62, Azm=15; (N) Val=0.0?, Plg=9, Azm=121; (P) Val=-2.70, Plg=27, Azm=216; Best double couple: Mo=2.7*10**14 Nm; NP1: Strike=119, Dip=72, Slip=81; NP2: Strike=326, Dip=20, Slip=116.
21	15	56	31.8?	14.61 N	145.27 E	306 ?	3.4	1.3	15	MARIANA ISLANDS
21	16	16	19.8*	23.823 N	121.311 E	33 N	4.3	1.1	16	TAIWAN
21	16	46	11.8*	54.581 N	168.451 E	10 G	3.7	1.2	14	KOMANDORSKY ISLANDS REGION
21	16	49	11.7&	36.930 N	5.380 W	16			9	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.1 (MDD).
21	17	07	11.9*	24.365 N	120.822 E	33 N	4.2	1.5	15	TAIWAN
21	17	30	39.9&	37.160 N	3.690 W	0			9	SPAIN. <MDD>. mbLg 1.9 (MDD).
21	17	32	06.6&	33.043 S	70.848 W	71			10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
21	17	38	36.8&	23.810 N	121.320 E	14	5.2	1.26	TAIWAN. <TAP>. ML 5.2 (TAP). Felt (III JMA) at Hua-lien, (II JMA) at Taipei and (I JMA) at Chia-i and Tai-chung.	
21	18	18	39.9	24.058 N	121.153 E	33 N	4.9	1.2	52	TAIWAN. Mw 5.2 (HRV). ML 5.0 (TAP). Felt (II JMA) at Hua-lien and Tai-chung; (I JMA) at Chia-i. Centroid, Moment Tensor (HRV): Centroid origin time 18:18:42.3; Lat 24.12 N; Lon 120.71 E; Dep 33.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=9.11, Plg=18, Azm=75; (N) Val=-4.03, Plg=72, Azm=270; (P) Val=-5.08, Plg=4, Azm=166; Best double couple: Mo=7.1*10**16 Nm; NP1: Strike=212, Dip=74, Slip=9; NP2: Strike=119, Dip=81, Slip=164.
21	18	26	28.4*	23.932 N	121.309 E	33 N		0.8	8	TAIWAN
21	18	58	44.4*	23.768 N	120.856 E	33 N	4.5	1.1	7	TAIWAN. ML 4.7 (TAP). Felt (IV JMA) in the epicentral area and (I JMA) at Chia-i.
21	19	10	23.4&	37.890 N	1.100 W	10			20	SPAIN. <MDD>. mbLg 2.8 (MDD). Felt (II) at Murcia.
21	19	13	27.3*	5.762 S	147.544 E	104 *	4.4	1.4	17	EASTERN NEW GUINEA REG., P.N.G.
21	19	24	57.0&	37.840 N	1.120 W	10			7	SPAIN. <MDD>. mbLg 2.1 (MDD).
21	19	33	22.4?	44.82 N	149.86 E	33 N	4.0	1.3	11	KURIL ISLANDS
21	20	27	32.3*	23.570 N	120.785 E	33 N		0.6	6	TAIWAN
21	20	40	00.8&	33.600 S	72.033 W	15			11	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
21	21	03	06.3*	23.540 N	120.727 E	33 N	4.3	1.1	6	TAIWAN
21	21	12	26.7&	33.591 S	71.959 W	7			10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
21	21	14	44.2	55.478 N	35.160 W	10 G	4.5 4.3	1.2	35	NORTH ATLANTIC OCEAN
21	22	08	50.5&	36.910 N	5.410 W	8			9	STRAIT OF GIBRALTAR. <MDD>. mbLg 1.8 (MDD).
21	22	10	29.4&	34.218 S	70.411 W	118			8	CHILE-ARGENTINA BORDER REGION. <GUC>.
21	22	13	20.9&	36.780 N	5.390 W	6			7	STRAIT OF GIBRALTAR. <MDD>. mbLg 1.7 (MDD).
21	22	17	03.8	23.795 N	121.425 E	33 N	5.1	0.9	64	TAIWAN. ML 5.1 (TAP). Felt (IV JMA) in the epicentral area,

ID	Time	Lat	Long	Depth	Magnitude	Location	Notes
21	22 24 44.0*	63.680 S	167.163 W	10 G	5.1 5.4 1.2	21	(III JMA) at Hua-lien, (II JMA) at Chia-i, Tai-chung and Taipei. PACIFIC-ANTARCTIC RIDGE. Mw 5.6 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 22:24:50.1; Lat 63.96 S; Lon 167.03 W; Dep 15.0 Fix; Half-duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=3.58, Plg=25, Azm=3; (N) Val=-0.65, Plg=54, Azm=133; (P) Val=-2.93, Plg=24, Azm=261; Best double couple: Mo=3.3*10**17 Nm; NP1: Strike=42, Dip=54, Slip=180; NP2: Strike=132, Dip=90, Slip=36.
21	22 28 17.7&	32.454 S	72.033 W	10		10	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
21	22 32 22.4*	5.690 S	153.046 E	33 N	5.0	0.8	18 NEW IRELAND REGION, P.N.G.
21	22 48 24.1?	5.77 S	152.61 E	137 ?	4.1	0.9	11 NEW BRITAIN REGION, P.N.G.
21	23 43 56.5*	51.632 N	16.179 E	5 G		0.7	8 POLAND. ML 3.4 (VIE).
22	00 14 39.1	23.729 N	121.167 E	26 G	6.2 6.4 0.9	397	TAIWAN. Mw 6.4 (HRV), 6.3 (GS). Me 6.3 (GS). Additional damage (VI JMA) in the epicentral area. Felt (V JMA) at Hua-lien and Tai-chung; (IV JMA) at Chia-i; (III JMA) at I-lan, Kao-hsiung, Taipei and Tai-tung. Felt in much of Taiwan. Also felt (IV JMA) on Peng-hu Tao and (III JMA) on Lan Yu. Felt (I JMA) on Iriomote-jima, Ishigaki-jima and Yonaguni-jima, Ryukyu Islands. Broadband Source Parameters (GS): Dep 26; NP1: Strike=195, Dip=75, Slip=90; NP2: Strike=15, Dip=15, Slip=90; Radiated energy 6.3*10**13 Nm. Moment Tensor (GS): Dep 28; Principal axes (scale 10**18 Nm): (T) Val=3.39, Plg=62, Azm=125; (N) Val=0.16, Plg=17, Azm=0; (P) Val=-3.55, Plg=21, Azm=263; Best double couple: Mo=3.5*10**18 Nm; NP1: Strike=325, Dip=28, Slip=51; NP2: Strike=187, Dip=69, Slip=108. Centroid, Moment Tensor (HRV): Centroid origin time 00:14:45.4; Lat 23.83 N; Lon 120.84 E; Dep 28.0 Bdy; Half-duration 4.0 sec; Principal axes (scale 10**18 Nm): (T) Val=4.97, Plg=54, Azm=101; (N) Val=0.13, Plg=7, Azm=2; (P) Val=-5.10, Plg=35, Azm=267; Best double couple: Mo=5.0*10**18 Nm; NP1: Strike=327, Dip=12, Slip=55; NP2: Strike=183, Dip=80, Slip=97.
22	00 25 43.3*	23.563 N	121.209 E	33 N	4.6	0.9	17 TAIWAN. ML 5.1 (TAP). Felt (III JMA) at Hua-lien, (II JMA) at Chia-i and (I JMA) at Tai-chung.
22	00 32 01.0*	23.944 N	121.115 E	33 N	4.4	0.8	16 TAIWAN
22	00 49 42.7	23.642 N	121.136 E	33 N	5.9 5.9 0.8	294	TAIWAN. Mw 5.8 (HRV). ML 6.2 (TAP). Felt (V JMA) in the epicentral area; (IV JMA) at Chia-i, Hua-lien and Tai-chung; (III JMA) at I-lan; (II JMA) at Taipei and Tai-tung. Felt in much of Taiwan. Also felt (III JMA) on Peng-hu Tao and (I JMA) on Lan Yu. Centroid, Moment Tensor (HRV): Centroid origin time 00:49:44.8; Lat 23.74 N; Lon 120.72 E; Dep 36.7; Half-duration 2.0 sec; Principal axes (scale 10**17 Nm): (T) Val=6.54, Plg=70, Azm=78; (N) Val=-0.47, Plg=3, Azm=176; (P) Val=-6.07, Plg=20, Azm=267; Best double couple: Mo=6.3*10**17 Nm; NP1: Strike=3, Dip=25, Slip=97; NP2: Strike=175, Dip=65, Slip=87.
22	01 28 46.6*	23.650 N	121.145 E	33 N	4.2	1.0	13 TAIWAN. Felt (IV JMA) in the epicentral area and (II JMA) at Chia-i and Tai-chung.
22	02 19 32.8	23.754 N	121.481 E	33 N	4.9	1.1	68 TAIWAN. ML 5.2 (TAP). Felt (III JMA) at Hua-lien and (I JMA) at Taipei.
22	03 02 28.6&	62.133 N	148.082 W	0			11 CENTRAL ALASKA. <AEIC>. ML 2.7 (AEIC).
22	03 04 19.0&	37.860 N	117.500 W	4			11 CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.9 (REN).
22	03 09 01.1	23.551 N	120.789 E	33 N	4.4	0.9	23 TAIWAN. ML 4.9 (TAP). Felt (III JMA) in the epicentral area and (II JMA) at Chia-i.
22	03 47 47.8*	23.680 N	121.151 E	33 N		1.5	13 TAIWAN. ML 4.6 (TAP). Felt (II JMA) in the epicentral area and at Hua-lien; (I JMA) at Chia-i and Tai-chung.
22	04 44 50.0*	23.492 N	121.093 E	33 N		1.3	7 TAIWAN
22	06 11 42.7&	40.900 S	174.910 E	60			8 COOK STRAIT, NEW ZEALAND. <WEL>.
22	06 50 08.5?	23.81 N	122.25 E	33 N	4.0	1.4	11 TAIWAN REGION
22	07 17 44.9	43.572 N	146.785 E	33 N	4.8	0.7	54 KURIL ISLANDS. Felt (I JMA) in eastern Hokkaido.
22	07 22 57.0*	1.759 S	99.448 E	33 N	4.7 4.4	1.1	23 NORTHERN SUMATERA, INDONESIA
22	07 58 39.0	55.703 N	35.232 W	33 N	4.5 3.9	1.0	38 NORTH ATLANTIC OCEAN
22	08 37 12.1	17.133 N	100.744 W	33 N	4.0	1.1	33 GUERRERO, MEXICO. MD 4.3 (UNM).
22	09 15 58.6*	23.916 N	121.690 E	33 N	3.8	1.1	6 TAIWAN. ML 4.4 (TAP). Felt (III JMA) at Hua-lien.
22	10 02 22.2&	41.826 N	81.476 W	18 G			10 OHIO. <OTT-P>. mblg 2.8 (OTT), 2.5 (GS). Felt (III) at Lyndurst, Willoughby and Willoughby Hills. Also felt at East Lake, Euclid and Wickliffe.
22	10 12 33.1	39.618 N	8.860 W	10 G		1.1	34 PORTUGAL. mblg 3.1 (MDD). Felt (IV) at Porto de Mos.
22	10 42 40.8	51.486 N	178.592 W	33 N	4.4	0.9	52 ANDREANOF ISLANDS, ALEUTIAN IS.
22	12 17 19.2	23.596 N	121.114 E	33 N	5.1 4.9 0.9	97	TAIWAN. Mw 5.3 (HRV). Felt (V JMA) in the epicentral area, (IV JMA) at Chia-i, (III JMA) at Tai-chung, (II JMA) at Hua-lien and (I JMA) at Taipei and Tai-tung. Also felt (I JMA) on Peng-hu Tao. Centroid, Moment Tensor (HRV): Centroid origin time 12:17:23.2; Lat 23.56 N; Lon 121.01 E; Dep 33.0 Fix; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.15, Plg=42, Azm=131; (N) Val=-0.44, Plg=18, Azm=24; (P) Val=-0.71, Plg=42, Azm=278; Best double couple: Mo=9.3*10**16 Nm; NP1: Strike=294, Dip=18, Slip=0; NP2: Strike=24, Dip=90, Slip=108.
22	12 24 27.0*	38.263 N	89.662 E	33 N	4.6	1.4	14 SOUTHERN XINJIANG, CHINA
22	12 35 49.9*	23.587 N	120.834 E	33 N	4.5	1.2	13 TAIWAN. ML 5.0 (TAP). Felt (V JMA) in the epicentral area, (II JMA) at Chia-i and (I JMA) at Tai-chung.
22	12 41 09.5&	40.227 N	124.156 W	12			6 NEAR COAST OF NORTHERN CALIF. <GM-P>. MD 2.8 (GM).
22	13 11 28.2*	24.125 N	121.747 E	33 N	4.2	1.4	19 TAIWAN
22	13 19 24.2	0.707 S	127.319 E	33 N	4.6	1.1	18 HALMAHERA, INDONESIA
22	13 32 52.8*	24.051 N	121.167 E	33 N	4.0	1.2	12 TAIWAN
22	14 40 52.0&	37.410 N	117.190 W	5			8 CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.8 (REN).

22	15	13	07.1	44.816 N	17.413 E	10 G	0.7	31	NORTHWESTERN BALKAN REGION. ML 4.1 (VIE), 3.8 (ZAG), 3.3 (ROM). MD 3.5 (PDG).	
22	15	23	05.0	37.400 N	117.180 W	6		8	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.0 (REN).	
22	16	30	15.0	64.950 N	147.633 W	22		4	CENTRAL ALASKA. <AEIC>. ML 2.6 (AEIC). Felt at Fairbanks.	
22	16	49	05.6	1.845 N	99.565 E	33 N 4.6	0.9	15	NORTHERN SUMATERA, INDONESIA	
22	17	00	00.9	31.776 S	71.574 W	39		11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).	
22	17	35	31.3	45.575 N	142.656 E	292 D 5.0	0.7	242	HOKKAIDO, JAPAN REGION. Felt (I JMA) in parts of southern Hokkaido. Also felt (I JMA) in eastern Aomori and northern Iwate Prefectures, Honshu.	
22	18	00	19.3	32.696 S	71.684 W	31		12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).	
22	18	25	11.1	41.028 N	20.316 E	5 G	0.9	15	ALBANIA. MD 3.0 (PDG).	
22	18	43	09.3	36.710 N	6.860 W	1		15	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.4 (MDD).	
22	19	20	58.0	32.625 S	71.654 W	27		10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).	
22	20	14	56.5	61.698 N	149.660 W	33 N	0.7	10	SOUTHERN ALASKA. ML 3.3 (PMR).	
22	20	34	37.6	23.932 N	121.576 E	33 N 4.5	1.3	17	TAIWAN	
22	20	42	42.2	35.840 N	4.960 W	0		37	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.9 (MDD).	
22	21	09	19.4	27.198 S	73.683 W	33 N 4.8	0.9	67	OFF COAST OF NORTHERN CHILE. MD 4.4 (GUC).	
22	21	35	09.7	44.090 N	7.180 E	5 G		19	NORTHERN ITALY. <STR>. ML 2.4 (GEN), 1.9 (STR).	
22	21	48	25.2	23.775 N	121.466 E	33 N 4.4	1.1	13	TAIWAN	
22	22	20	20.9	26.648 N	110.068 W	10 G 4.3	0.9	19	GULF OF CALIFORNIA	
22	22	27	13.1	38.393 N	122.633 W	7		32	NORTHERN CALIFORNIA. <GM-P>. Mw 4.3 (BRK). ML 4.2 (GM), 4.2 (BRK). Felt (V) at Glen Ellen and Kenwood; (IV) at El Sobrante, Penngrove, Petaluma, Rohnert Park, Santa Rosa and Sonoma. Felt (III) in much of the San Francisco Bay area including Berkeley, Castro Valley, Novato, Oakland, Richmond, San Francisco, Santa Clara, Vallejo and Walnut Creek. Moment Tensor (BRK): Dep 6; Principal axes (scale 10**15 Nm): (T) Val=2.80, Plg=82, Azm=80; (N) Val=0.07, Plg=7, Azm=286; (P) Val=-2.80, Plg=3, Azm=196; Best double couple: Mo=2.8*10**15 Nm; NP1: Strike=113, Dip=49, Slip=100; NP2: Strike=278, Dip=42, Slip=79.	
22	23	25	45.7	31.941 S	71.601 W	27		10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).	
23	00	04	59.9	32.005 S	70.979 W	84		10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.9 (GUC).	
23	00	24	02.1	6.825 N	126.789 E	33 N 4.3	0.6	19	MINDANAO, PHILIPPINE ISLANDS	
23	00	43	23.7	6.886 N	126.911 E	33 N 4.8	0.9	46	MINDANAO, PHILIPPINE ISLANDS	
23	00	46	04.3	24.210 N	121.210 E	20	4.8	30	TAIWAN. <TAP>. ML 5.2 (TAP). Felt (III JMA) in the epicentral area, (II JMA) at Tai-chung and (I JMA) at I-lan and Taipei.	
23	01	02	02.1	4.688 N	127.774 E	141 ? 4.5	0.9	16	TALAUD ISLANDS, INDONESIA	
23	01	18	29.6	34.803 S	70.435 W	146		16	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.7 (GUC).	
23	01	45	47.4	58.296 S	158.023 E	10 G 4.4 4.3	0.9	12	MACQUARIE ISLANDS REGION	
23	01	52	55.7	38.510 S	176.370 E	166		11	NORTH ISLAND, NEW ZEALAND. <WEL>.	
23	02	17	34.3	61.197 N	146.644 W	33		8	SOUTHERN ALASKA. <AEIC>. ML 3.0 (AEIC).	
23	02	34	48.6	36.240 N	2.870 W	17		10	STRAIT OF GIBRALTAR. <MDD>. mbLg 1.9 (MDD).	
23	02	44	55.2	37.479 N	118.838 W	5		6	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.8 (GM).	
23	03	11	00.2	41.042 N	25.279 E	10 G	1.2	8	GREECE-BULGARIA BORDER REGION	
23	03	15	35.0	40.480 S	177.210 E	33 N		6	OFF E. COAST OF N. ISLAND, N.Z. <WEL>. ML 3.4 (WEL).	
23	05	14	08.1	7.058 S	80.596 W	33 N 4.3	1.1	13	OFF COAST OF NORTHERN PERU	
23	05	42	49.5	23.970 N	120.990 E	21	4.5	34	TAIWAN. <TAP>. Felt (V JMA) in the epicentral area; (III JMA) at Chia-i and Hua-lien; (II JMA) at Tai-chung; (I JMA) at Taipei.	
23	06	07	48.1	44.122 N	7.140 E	10		37	NORTHERN ITALY. <GEN>. ML 2.8 (GEN), 2.7 (LDG), 2.6 (STR).	
23	06	08	38.8	37.000 N	5.410 W	3		19	SPAIN. <MDD>. mbLg 2.8 (MDD).	
23	06	20	17.6	44.133 N	7.161 E	11		10	NORTHERN ITALY. <GEN>. ML 1.9 (GEN).	
23	06	24	12.7	40.741 N	29.811 E	8		17	TURKEY. <ISK>. MD 3.3 (ISK).	
23	06	54	10.3	44.268 N	7.452 E	0		10	NORTHERN ITALY. <GEN>. ML 2.0 (GEN).	
23	07	03	21.7	37.000 N	5.370 W	1		17	SPAIN. <MDD>. mbLg 2.4 (MDD).	
23	07	14	35.9	34.55 S	178.70 W	33 N	1.1	6	SOUTH OF KERMADEC ISLANDS	
23	07	19	23.4	40.787 N	29.808 E	13		5	TURKEY. <ISK>. MD 2.6 (ISK).	
23	08	12	02.9	34.085 S	70.829 W	77		11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.3 (GUC).	
23	08	20	37.0	37.000 N	5.390 W	4		19	SPAIN. <MDD>. mbLg 2.5 (MDD).	
23	08	32	24.3	5.712 N	126.858 E	166 ? 4.4	0.8	23	MINDANAO, PHILIPPINE ISLANDS	
23	09	07	04.6	44.210 N	7.890 W	16		28	NORTH ATLANTIC OCEAN. <MDD>. ML 3.4 (LDG). mbLg 3.0 (MDD).	
23	10	50	02.6	22.34 S	179.86 W	600 G 4.4	1.2	15	SOUTH OF FIJI ISLANDS	
23	11	08	39.7	4.934 S	152.052 E	85 ? 4.7	0.9	21	NEW BRITAIN REGION, P.N.G.	
23	11	36	25.4	5.55 S	148.18 E	56 ? 4.3	0.8	10	NEW BRITAIN REGION, P.N.G.	
23	12	44	25.3	44.500 N	7.400 E	2		4	NORTHERN ITALY. <LDG>. ML 2.3 (LDG).	
23	12	44	34.6	23.813 N	121.265 E	33 N 5.3 4.8	0.9	133	TAIWAN. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 12:44:36.0; Lat 24.00 N; Lon 120.90 E; Dep 33.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=9.20, Plg=58, Azm=90; (N) Val=-0.73, Plg=2, Azm=357; (P) Val=-8.47, Plg=32, Azm=266; Best double couple: Mo=8.8*10**16 Nm; NP1: Strike=350, Dip=13, Slip=83; NP2: Strike=178, Dip=77, Slip=92.	
23	12	45	16.2	42.394 N	84.471 E	33 N 4.9	1.0	67	NORTHERN XINJIANG, CHINA. Felt in the epicentral area.	
23	13	07	45.2	6.380 S	129.936 E	105 ? 4.6	0.6	6	BANDA SEA	
23	13	49	48.5	61.498 N	150.025 W	38		7	SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC).	
23	14	37	20.4	60.973 N	146.613 W	23		6	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).	
23	14	42	25.3	62.108 N	149.719 W	47		4	CENTRAL ALASKA. <AEIC>. ML 2.8 (AEIC).	
23	15	11	46.0	23.83 N	121.18 E	33 N	0.7	6	TAIWAN. ML 4.6 (TAP). Felt (III JMA) in the epicentral area and (I JMA) at Chia-i.	
23	15	31	59.7	34.236 S	70.646 W	107		7	CHILE-ARGENTINA BORDER REGION. <GUC>.	
23	15	53	09.7	51.532 N	7.869 E	10 G	1.4	8	GERMANY. ML 3.1 (STR), 2.7 (UCC).	
23	16	09	52.8	24.341 N	121.312 E	33 N 4.5	1.3	17	TAIWAN	
23	16	11	27.8	34.905 S	70.999 W	91		12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).	
23	16	15	50.7	6.842 S	154.381 E	33 N 4.6	1.0	34	SOLOMON ISLANDS	
23	16	36	42.6	38.100 N	23.536 E	22	4.3	1.1	28	GREECE
23	17	29	13.0	38.000 N	0.800 W	6		11	SPAIN. <MDD>. mbLg 2.7 (MDD). Felt (III) at San Miguel de Salinas and Torremendo; (II) at Algorfa, Benejuzar and Los Balcones.	
23	17	44	42.3	32.109 S	71.155 W	66		6	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.8 (GUC).	

25	00	24	40.1&	16.944 N	61.768 W	63									11	LEeward ISLANDS. <FDF>. MD 3.6 (FDF).
25	00	31	57.8&	33.461 S	70.264 W	109									11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).
25	00	44	20.0?	5.09	126.39 E	33 N	4.4	0.8							8	MINDANAO, PHILIPPINE ISLANDS
25	00	52	08.1	38.484 N	16.958 E	10 G		0.6							23	SOUTHERN ITALY. MD 3.7 (ROM), 3.5 (PDG).
25	01	18	24.9&	36.201 N	117.896 W	3									8	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.0 (PAS).
25	01	21	20.2?	17.96 S	172.66 W	33 N	4.5	1.2							22	TONGA ISLANDS REGION
25	01	37	29.2*	0.574 N	25.023 W	10 G	4.7	0.7							21	CENTRAL MID-ATLANTIC RIDGE
25	01	37	51.0?	57.77 N	33.00 W	10 G	4.0	1.1							7	NORTH ATLANTIC OCEAN
25	01	43	56.7&	37.414 N	118.549 W	7									7	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.1 (GM).
25	02	05	09.0*	1.324 N	122.696 E	33 N	4.5	1.4							21	MINAHASSA PENINSULA, SULAWESI
25	02	08	34.3	41.930 N	22.055 E	10 G		0.8							7	NORTHWESTERN BALKAN REGION
25	02	14	53.6&	44.332 N	7.244 E	7									19	NORTHERN ITALY. <GEN>. ML 2.3 (GEN).
25	02	27	48.3&	44.113 N	7.133 E	9									17	NORTHERN ITALY. <GEN>. ML 2.2 (GEN), 1.8 (STR).
25	02	42	43.4*	5.483 S	145.544 E	108 D	4.1	1.4							12	EASTERN NEW GUINEA REG., P.N.G.
25	03	36	48.5&	44.111 N	7.122 E	3									5	NORTHERN ITALY. <GEN>. ML 1.7 (GEN).
25	03	48	39.0&	36.550 N	5.660 W	10									7	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.0 (MDD).
25	04	00	21.0*	24.056 S	178.744 E	550 G	4.2	0.9							18	SOUTH OF FIJI ISLANDS
25	04	19	17.9*	23.889 N	121.592 E	33 N	4.7	1.3							28	TAIWAN. ML 5.1 (TAP). Felt (IV JMA) in the epicentral area; (II JMA) at Hua-lien and I-lan; (I JMA) at Taipei.
25	04	30	42.1*	27.196 N	126.673 E	183 *	4.2	1.1							16	NORTHWEST OF RYUKYU ISLANDS
25	05	08	06.5*	31.565 S	68.875 W	103 ?		0.9							16	SAN JUAN PROVINCE, ARGENTINA. MD 4.1 (GUC).
25	05	18	30.5	18.959 S	175.108 W	165 D	5.2	0.8							150	TONGA ISLANDS. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 05:18:36.1; Lat 18.87 S; Lon 174.85 W; Dep 176.2; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.32, Plg=12, Azm=122; (N) Val=0.18, Plg=26, Azm=26; (P) Val=-1.50, Plg=61, Azm=235; Best double couple: Mo=1.4*10**17 Nm; NP1: Strike=242, Dip=40, Slip=-47; NP2: Strike=11, Dip=62, Slip=-120.
25	05	19	12.2?	18.99 S	174.44 W	150 G	4.6	1.4							12	TONGA ISLANDS
25	05	27	21.4	21.664 S	177.293 W	258 D	4.4	0.9							45	FIJI ISLANDS REGION
25	06	08	21.0&	31.967 N	115.741 W	9									6	BAJA CALIFORNIA, MEXICO. <ECX-P>. MD 3.4 (ECX). ML 2.9 (PAS).
25	06	13	13.2*	24.229 N	121.385 E	33 N	4.3	1.5							8	TAIWAN. ML 4.6 (TAP). Felt (III JMA) in the epicentral area and (I JMA) at Hua-lien and Tai-chung.
25	06	45	10.5*	2.648 S	138.809 E	10 G	4.1	1.0							9	IRIAN JAYA, INDONESIA
25	06	51	28.3*	5.494 S	147.772 E	10 G	4.3	0.7							10	EASTERN NEW GUINEA REG., P.N.G.
25	07	01	19.0&	34.455 N	33.096 E	25									4	CYPRUS REGION. <CSS>. ML 2.2 (CSS).
25	07	04	24.4&	40.626 N	30.550 E	5									6	TURKEY. <ISK>. MD 3.2 (ISK).
25	07	11	12.5*	40.413 N	22.164											

(P) Val=-1.49, Plg=34, Azm=351; Best double couple:
Mo=1.5*10**17 Nm; NP1: Strike=139, Dip=43, Slip=-175; NP2:
Strike=45, Dip=87, Slip=-47.

27	00	53	15.0*	16.606 N	120.067 E	60 D	4.7	0.9	16	LUZON, PHILIPPINE ISLANDS
27	01	19	10.6*	32.931 S	70.074 W	127			11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.9 (GUC).
27	01	39	49.7*	37.401 S	178.562 E	33 N	4.7	0.9	13	OFF E. COAST OF N. ISLAND, N.Z.
27	02	31	24.5	28.650 N	51.284 E	33 N	4.6	0.8	96	SOUTHERN IRAN
27	02	31	40.6*	53.530 N	161.313 E	53 D		0.9	12	OFF EAST COAST OF KAMCHATKA
27	02	36	14.5*	26.930 S	63.329 W	561 *	4.1	0.8	23	SANTIAGO DEL ESTERO PROV., ARG.
27	03	13	28.8*	6.486 S	147.768 E	59 *	4.6	1.0	23	EASTERN NEW GUINEA REG., P.N.G.
27	03	55	52.7*	5.959 S	103.606 E	33 N		0.6	9	SOUTHERN SUMATERA, INDONESIA
27	04	02	02.5*	39.124 N	26.906 E	20			12	TURKEY. <ISK>. MD 3.5 (ISK).
27	04	03	26.6	24.046 N	121.584 E	33 N	4.7	1.3	37	TAIWAN. ML 5.2 (TAP). Felt (III JMA) in the epicentral area, (II JMA) at Hua-lien and (I JMA) at I-lan and Tai-chung.
27	04	05	43.5*	20.930 S	67.314 W	177 *	4.1	0.7	14	SOUTHERN BOLIVIA
27	04	11	48.3	24.138 N	121.286 E	33 N	4.7	0.6	28	TAIWAN. ML 5.3 (TAP). Felt (III JMA) in the epicentral area, (II JMA) at Hua-lien and (I JMA) at I-lan.
27	04	34	33.7*	31.173 S	67.942 W	33 N		1.4	14	SAN JUAN PROVINCE, ARGENTINA. MD 3.8 (GUC).
27	04	41	17.6*	40.753 N	29.972 E	5			7	TURKEY. <ISK>. MD 2.9 (ISK).
27	05	40	48.0	47.301 N	10.020 E	10 G		0.7	19	AUSTRIA. ML 2.6 (LDG), 2.6 (STR), 2.5 (FBB), 2.5 (VIE).
27	05	57	39.0*	47.900 N	7.780 E	13			7	SWITZERLAND. <FBB>. ML 1.7 (FBB), 1.7 (STR).
27	06	40	11.1*	34.063 S	70.100 W	7			11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
27	07	00	44.5	24.023 N	121.171 E	33 N	4.8	1.2	36	TAIWAN. ML 5.0 (TAP). Felt (III JMA) in the epicentral area and (II JMA) at Hua-lien.
27	07	22	38.8	4.413 S	143.270 E	106 *	4.5	0.9	21	NEW GUINEA, PAPUA NEW GUINEA
27	07	28	23.2	23.950 N	121.089 E	33 N	4.9 4.1	1.3	71	TAIWAN. ML 5.1 (TAP). Felt (IV JMA) in the epicentral area; (II JMA) at Hua-lien and Tai-chung; (I JMA) at I-lan.
27	07	37	18.5*	32.038 S	71.678 W	21			10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
27	08	05	28.1*	60.098 N	150.055 W	33			18	KENAI PENINSULA, ALASKA. <AEIC>. ML 3.2 (AEIC), 3.4 (PMR).
27	09	00	15.7*	44.338 N	7.335 E	17			6	NORTHERN ITALY. <GEN>. ML 1.8 (GEN).
27	09	01	18.1*	32.102 S	71.841 W	17			12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
27	09	32	48.4*	6.339 S	133.392 E	33 N	4.5	1.3	14	ARU ISLANDS REGION, INDONESIA
27	10	14	24.4*	34.190 S	70.044 W	1			10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
27	10	47	12.5*	38.975 S	70.920 W	158 ?	4.4	0.9	20	SOUTHERN ARGENTINA. MD 4.1 (GUC).
27	11	31	12.0	42.782 N	24.008 E	10 G		0.7	7	BULGARIA
27	11	49	16.5	34.617 N	101.436 E	33 N	5.0	0.8	73	QINGHAI, CHINA. ML 4.9 (BJI).
27	11	55	10.5	23.662 N	121.520 E	33 N	5.3 4.7	1.1	122	TAIWAN. ML 5.4 (TAP). Felt (IV JMA) at Hua-lien and (I JMA) at Chia-i, Tai-chung and Taipei.
27	11	58	06.9	4.742 S	103.083 E	68 *	5.1	0.9	52	SOUTHERN SUMATERA, INDONESIA. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 11:58:16.6; Lat 5.02 S; Lon 103.51 E; Dep 76.9; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=-1.31, Plg=65, Azm=29; (N) Val=-0.21, Plg=25, Azm=203; (P) Val=-1.10, Plg=2, Azm=294; Best double couple: Mo=1.2*10**17 Nm; NP1: Strike=48, Dip=48, Slip=124; NP2: Strike=182, Dip=52, Slip=58.
27	12	42	24.4*	42.894 N	18.703 E	22			10	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.3 (PDG).
27	13	32	50.1*	18.873 N	98.724 W	10			11	CENTRAL MEXICO. <UNM>. MD 3.5 (UNM).
27	14	42	49.1	2.667 N	127.914 E	33 N	5.3 5.0	1.1	86	NORTHERN MOLUCCA SEA. Mw 5.7 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 14:42:51.5; Lat 2.64 N; Lon 128.09 E; Dep 37.0; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=3.43, Plg=20, Azm=226; (N) Val=0.05, Plg=65, Azm=84; (P) Val=-3.49, Plg=14, Azm=321; Best double couple: Mo=3.5*10**17 Nm; NP1: Strike=4, Dip=65, Slip=5; NP2: Strike=273, Dip=86, Slip=155.
27	15	35	22.6*	7.55 S	30.29 E	10 G	4.1	1.3	9	LAKE TANGANYIKA REGION
27	16	01	14.7*	63.858 N	21.072 W	10 G	4.3	1.3	29	ICELAND REGION
27	17	04	07.8*	5.975 S	148.468 E	79 *	4.5	0.8	19	NEW BRITAIN REGION, P.N.G.
27	18	10	02.7	23.694 N	121.576 E	33 N	4.6	1.0	32	TAIWAN. ML 5.1 (TAP). Felt (IV JMA) in the epicentral area and (III JMA) at Hua-lien.
27	18	34	46.6*	37.000 N	95.663 E	33 N		1.1	10	QINGHAI, CHINA
27	18	44	09.7*	40.138 N	122.132 W	28			12	NORTHERN CALIFORNIA. <GM-P>. ML 3.2 (GM), 3.4 (BRK).
27	18	50	00.5*	40.135 N	122.144 W	29			10	NORTHERN CALIFORNIA. <GM-P>. ML 3.0 (GM), 3.1 (BRK).
27	19	25	37.8*	51.210 N	16.110 E	5 G		0.5	7	POLAND. ML 3.2 (VIE).
27	19	47	34.3*	23.689 N	121.043 E	33 N	3.4	0.8	6	TAIWAN
27	21	18	26.0*	14.509 S	167.678 E	33 N	4.7	1.1	43	VANUATU ISLANDS
27	21	57	54.9*	31.184 N	130.227 E	169 *		1.2	7	KYUSHU, JAPAN
27	22	17	52.1*	27.714 S	65.549 E	10 G	4.9	1.4	36	SOUTH INDIAN OCEAN. Mw 4.9 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 22:17:58.1; Lat 27.88 S; Lon 65.16 E; Dep 15.0; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=2.37, Plg=0, Azm=157; (N) Val=0.87, Plg=0, Azm=67; (P) Val=-3.24, Plg=90, Azm=180; Best double couple: Mo=2.8*10**16 Nm; NP1: Strike=247, Dip=45, Slip=-90; NP2: Strike=67, Dip=45, Slip=-90.
27	22	26	45.5*	27.591 S	65.405 E	10 G	4.7	1.3	23	SOUTH INDIAN OCEAN
27	23	01	39.5	54.669 N	168.238 E	33 N	4.9	1.1	40	KOMANDORSKY ISLANDS REGION. Mw 5.0 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 23:01:43.3; Lat 53.93 N; Lon 168.85 E; Dep 29.2; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.63, Plg=29, Azm=270; (N) Val=-1.10, Plg=38, Azm=155; (P) Val=-3.53, Plg=39, Azm=26; Best double couple: Mo=4.1*10**16 Nm; NP1: Strike=53, Dip=39, Slip=-10; NP2: Strike=150, Dip=84, Slip=128.
27	23	02	48.8	53.637 N	165.892 W	61 D	4.7	1.0	74	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.9 (PMR). Felt (IV) at Unalaska. Also felt at Akutan.
27	23	20	21.7*	35.150 N	3.590 W	21 G			13	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.5 (MDD).
27	23	30	04.1*	24.021 N	121.449 E	33 N	4.2	1.4	17	TAIWAN
27	23	56	36.0*	44.467 N	7.271 E	13			16	NORTHERN ITALY. <GEN>. ML 2.3 (GEN), 1.9 (LDG).
28	00	47	24.0*	39.680 N	118.030 W	11			11	NEVADA. <REN-P>. MD 2.9 (REN).
28	00	52	41.0*	39.080 N	0.600 W	10			25	SPAIN. <MDD>. ML 2.9 (LDG). mbLg 2.8 (MDD). Felt (III) at Carcer and Sellent; (II) at Anna, Antella and Bolbaite.

28	01	21	43.2*	51.555 N	156.578 E	158 *	4.0	1.5	16	KAMCHATKA
28	01	24	32.9?	5.53 S	103.75 E	74 *		1.5	7	SOUTHERN SUMATRA, INDONESIA
28	02	15	18.9	27.673 S	65.492 E	10 G	5.0 4.5	1.1	51	SOUTH INDIAN OCEAN. Mw 5.0 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 02:15:26.7; Lat 27.47 S; Lon 65.14 E; Dep 15.0 Fix; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.42, Plg=0, Azm=185; (N) Val=-1.23, Plg=0, Azm=95; (P) Val=-3.19, Plg=90, Azm=180; Best double couple: Mo=3.8*10**16 Nm; NP1: Strike=275, Dip=45, Slip=-90; NP2: Strike=95, Dip=45, Slip=-90.
28	02	35	07.7&	62.745 N	149.571 W	3			10	CENTRAL ALASKA. <AEIC>. ML 3.0 (AEIC), 3.4 (PMR).
28	02	44	50.0*	27.611 S	65.492 E	10 G	4.0	0.7	11	SOUTH INDIAN OCEAN
28	03	30	30.6&	32.358 S	71.487 W	29			12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
28	04	43	46.7	54.667 N	168.242 E	33 N	4.7	1.0	77	KOMANDORSKY ISLANDS REGION
28	05	00	42.9	54.590 N	168.263 E	33 N	5.4 6.1	1.0	345	KOMANDORSKY ISLANDS REGION. Mw 6.2 (OBN), 6.1 (HRV), 6.0 (GS). Me 5.8 (GS). Broadband Source Parameters (GS): Dep 13; Radiated energy 9.7*10**12 Nm. Moment Tensor (GS): Dep 19; Principal axes (scale 10**18 Nm): (T) Val=1.35, Plg=13, Azm=68; (N) Val=-0.32, Plg=22, Azm=333; (P) Val=-1.03, Plg=64, Azm=186; Best double couple: Mo=1.2*10**18 Nm; NP1: Strike=185, Dip=38, Slip=-51; NP2: Strike=320, Dip=61, Slip=-116. Centroid, Moment Tensor (HRV): Centroid origin time 05:00:45.3; Lat 54.80 N; Lon 168.32 E; Dep 15.0 Bdy; Half- duration 2.7 sec; Principal axes (scale 10**18 Nm): (T) Val=1.75, Plg=11, Azm=63; (N) Val=-0.04, Plg=7, Azm=332; (P) Val=-1.71, Plg=77, Azm=211; Best double couple: Mo=1.7*10**18 Nm; NP1: Strike=162, Dip=34, Slip=-78; NP2: Strike=327, Dip=56, Slip=-98. Scalar Moment (OBN): Mo=2.3*10**18 Nm.
28	05	16	59.8?	54.65 N	168.30 E	33 N	4.2	0.6	6	KOMANDORSKY ISLANDS REGION
28	05	25	04.1*	54.835 N	168.028 E	33 N	4.5	0.9	19	KOMANDORSKY ISLANDS REGION
28	05	26	28.2	54.772 N	168.089 E	33 N	4.8	1.0	62	KOMANDORSKY ISLANDS REGION
28	05	27	44.7&	39.080 N	0.600 W	6			31	SPAIN. <MDD>. ML 3.0 (LDG). mbLg 2.8 (MDD). Felt (III) at Antella and Estubeny; (II) at Anna, Carcer, Jativa, Sellent and Sumacarcel.
28	05	41	42.4	54.701 N	168.191 E	33 N	4.6	0.9	46	KOMANDORSKY ISLANDS REGION
28	05	43	27.3	54.725 N	168.115 E	33 N	4.4	1.0	46	KOMANDORSKY ISLANDS REGION
28	05	44	05.9	54.580 N	168.334 E	33 N	5.2 5.2	1.0	174	KOMANDORSKY ISLANDS REGION. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 05:44:09.8; Lat 55.36 N; Lon 168.29 E; Dep 31.8; Half- duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=0.86, Plg=0, Azm=56; (N) Val=0.28, Plg=17, Azm=326; (P) Val=-1.14, Plg=73, Azm=146; Best double couple: Mo=1.0*10**17 Nm; NP1: Strike=162, Dip=47, Slip=-67; NP2: Strike=309, Dip=48, Slip=-113.
28	05	52	04.9*	24.237 N	121.150 E	33 N	4.2	1.4	14	TAIWAN
28	05	53	51.2	24.006 N	120.720 E	33 N	4.6	1.1	41	TAIWAN. ML 5.3 (TAP). Felt (V JMA) in the epicentral area; (III JMA) at Chia-i and Tai-chung; (I JMA) at Hua-lien. Also felt (I JMA) on Peng-hu Tao.
28	06	37	07.2	54.402 N	168.214 E	33 N	4.1	0.9	5	KOMANDORSKY ISLANDS REGION
28	06	37	26.5&	32.889 S	71.257 W	41			11	NEAR COAST OF CENTRAL CHILE. <GUC>.
28	07	01	10.6&	33.185 S	70.773 W	77			12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).
28	08	02	45.6*	54.528 N	168.186 E	33 N	4.0	0.6	5	KOMANDORSKY ISLANDS REGION
28	08	27	25.1	54.670 N	168.128 E	33 N	4.3	1.3	36	KOMANDORSKY ISLANDS REGION
28	08	45	20.8&	40.643 N	25.975 E	17			12	AEGEAN SEA. <ISK>. MD 3.2 (ISK).
28	09	35	21.8&	35.026 S	71.201 W	87			9	CENTRAL CHILE. <GUC>. MD 3.2 (GUC).
28	11	06	20.1*	54.712 N	168.086 E	33 N	3.9	1.1	15	KOMANDORSKY ISLANDS REGION
28	11	48	01.4?	54.76 N	168.06 E	33 N	3.9	1.4	7	KOMANDORSKY ISLANDS REGION
28	12	21	46.1*	23.342 S	67.799 W	142 *	4.0	1.2	8	CHILE-ARGENTINA BORDER REGION
28	13	16	47.0*	27.683 S	65.535 E	10 G	4.6	1.1	17	SOUTH INDIAN OCEAN
28	13	48	17.0	16.179 S	175.933 W	357 D	5.0	0.9	102	TONGA ISLANDS. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 13:48:22.8; Lat 16.18 S Fix; Lon 175.93 W Fix; Dep 374.9; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=0.90, Plg=40, Azm=114; (N) Val=0.20, Plg=30, Azm=355; (P) Val=-1.10, Plg=35, Azm=241; Best double couple: Mo=1.0*10**17 Nm; NP1: Strike=271, Dip=30, Slip=5; NP2: Strike=177, Dip=87, Slip=120.
28	14	14	18.9&	35.590 N	3.640 W	11			20	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.7 (MDD).
28	14	36	24.0*	4.346 S	132.682 E	33 N	4.2	1.0	14	IRIAN JAYA REGION, INDONESIA
28	15	30	17.9&	35.580 N	3.810 W	15			17	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.8 (MDD).
28	15	43	41.7	23.100 N	121.114 E	33 N	4.6	1.2	33	TAIWAN
28	16	00	42.2	31.946 S	69.865 W	100 G		0.9	17	SAN JUAN PROVINCE, ARGENTINA. MD 4.2 (GUC).
28	16	09	00.6&	50.760 N	176.060 E	0			3	RAT ISLANDS, ALEUTIAN ISLANDS. <AEIC>. ML 3.0 (AEIC), 3.4 (PMR).
28	16	31	46.7	54.594 N	168.257 E	33 N	4.6 4.2	1.3	36	KOMANDORSKY ISLANDS REGION
28	16	44	50.1*	54.919 N	167.983 E	33 N		1.0	8	KOMANDORSKY ISLANDS REGION
28	16	47	50.9*	54.738 N	168.074 E	33 N	4.4	0.9	10	KOMANDORSKY ISLANDS REGION
28	17	09	53.7*	54.797 N	167.851 E	33 N		1.1	8	KOMANDORSKY ISLANDS REGION
28	17	16	33.2*	23.912 N	121.245 E	33 N	3.9	0.8	9	TAIWAN. Felt (III JMA) in the epicentral area and (II JMA) at Chia-i and Tai-chung.
28	19	45	48.2&	46.800 N	7.000 E	5			19	SWITZERLAND. <LDG>. ML 2.3 (LDG), 2.1 (STR).
28	21	47	37.9	54.681 N	168.300 E	33 N	4.5	1.0	35	KOMANDORSKY ISLANDS REGION
28	23	01	31.6	23.743 N	120.760 E	33 N	4.1	1.4	11	TAIWAN. Felt (V JMA) in the epicentral area and (II JMA) at Chia-i and Tai-chung.
28	23	21	55.9	54.661 N	168.172 E	33 N	4.9	1.0	67	KOMANDORSKY ISLANDS REGION
29	00	13	05.5	40.739 N	29.346 E	10 G	4.9 4.5	1.2	253	TURKEY. Mw 5.2 (HRV). MD 4.8 (ISK). One person killed at Istanbul. Centroid, Moment Tensor (HRV): Centroid origin time 00:13:10.9; Lat 40.55 N; Lon 29.69 E; Dep 15.0 Fix; Half- duration 1.1 sec; Principal axes (scale 10**16 Nm): (T)

Val=9.02, Plg=23, Azm=26; (N) Val=-4.24, Plg=47, Azm=144;
(P) Val=-4.78, Plg=34, Azm=279; Best double couple:
Mo=6.9*10**16 Nm; NP1: Strike=66, Dip=48, Slip=-171; NP2:
Strike=331, Dip=84, Slip=-43.

29 02 07 45.3& 18.170 N 66.842 W 25 5 PUERTO RICO REGION. <MPR>. ML 2.9 (MPR).

29 02 13 19.5* 27.770 S 65.890 E 10 G 4.6 0.6 10 SOUTH INDIAN OCEAN

29 03 58 59.3 12.950 S 166.833 E 33 N 4.8 4.5 1.2 73 SANTA CRUZ ISLANDS

29 04 40 01.3& 43.680 N 5.990 E 2 G 23 NEAR SOUTH COAST OF FRANCE. <STR>. ML 2.1 (STR), 1.8 (LDG).

29 04 42 51.9 1.959 N 125.047 E 142 D 5.5 1.0 113 NORTHERN MOLUCCA SEA. Mw 5.4 (HRV), 5.3 (GS).

Moment Tensor (GS): Dep 143; Principal axes (scale 10**16 Nm): (T) Val=9.61, Plg=15, Azm=115; (N) Val=-0.82, Plg=64, Azm=237; (P) Val=-8.79, Plg=21, Azm=19; Best double couple: Mo=9.2*10**16 Nm; NP1: Strike=158, Dip=64, Slip=-175; NP2: Strike=66, Dip=86, Slip=-26.

Centroid, Moment Tensor (HRV): Centroid origin time 04:42:52.2; Lat 1.79 N; Lon 126.27 E; Dep 131.6; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.89, Plg=29, Azm=119; (N) Val=-0.49, Plg=45, Azm=354; (P) Val=-1.40, Plg=30, Azm=228; Best double couple: Mo=1.6*10**17 Nm; NP1: Strike=263, Dip=45, Slip=-1; NP2: Strike=354, Dip=89, Slip=-135.

29 06 22 03.2& 41.357 N 123.424 W 35 48 NORTHERN CALIFORNIA. <GM-P>. Mw 4.0 (BRK). ML 4.0 (GM), 4.0 (BRK). Felt (III) at Somo Bar and (II) at Forks of Salmon.

Moment Tensor (BRK): Dep 39; Principal axes (scale 10**15 Nm): (T) Val=1.07, Plg=4, Azm=101; (N) Val=0.00, Plg=3, Azm=191; (P) Val=-1.07, Plg=85, Azm=319; Best double couple: Mo=1.1*10**15 Nm; NP1: Strike=14, Dip=49, Slip=-86; NP2: Strike=188, Dip=41, Slip=-95.

29 06 50 11.2& 32.565 S 70.404 W 97 13 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).

29 07 21 01.0& 53.670 N 116.650 W 5 G 18 ALBERTA, CANADA. <PGC-P>. mblg 3.6 (PGC).

29 07 54 41.8& 45.500 N 5.500 E 2 15 FRANCE. <LDG>. ML 2.3 (LDG).

29 07 57 22.3* 14.479 S 174.073 E 33 N 4.7 4.7 1.1 40 FIJI ISLANDS REGION

29 08 11 09.8& 44.023 N 8.669 E 1 8 NORTHERN ITALY. <GEN>. ML 2.3 (GEN).

29 08 32 47.2& 17.522 N 94.929 W 152 14 CHIAPAS, MEXICO. <UNM>. MD 4.1 (UNM).

29 11 09 18.4& 17.925 N 67.168 W 1 4 MONA PASSAGE. <MPR>. ML 3.0 (MPR).

29 12 06 21.2& 32.979 S 72.184 W 29 11 OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).

29 13 15 09.5* 31.342 S 68.364 W 100 G 1.2 13 SAN JUAN PROVINCE, ARGENTINA. MD 2.9 (GUC).

29 13 55 12.0* 12.268 N 141.630 E 33 N 4.4 1.1 14 SOUTH OF MARIANA ISLANDS

29 14 50 03.6* 52.230 S 138.938 E 10 G 4.4 1.1 13 WEST OF MACQUARIE ISLAND

29 15 12 04.7& 33.527 S 71.893 W 13 7 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.0 (GUC).

29 15 22 39.6& 32.799 S 70.638 W 88 9 CHILE-ARGENTINA BORDER REGION. <GUC>.

29 15 57 01.6 27.208 N 53.159 E 33 N 4.5 1.0 46 SOUTHERN IRAN

29 16 12 52.7 23.713 S 175.662 W 33 N 4.9 4.8 0.9 61 TONGA ISLANDS REGION

29 16 46 30.2* 38.937 N 28.978 E 10 G 0.8 23 TURKEY. MD 3.9 (ISK).

29 17 28 43.9? 31.93 N 140.54 E 92 ? 0.4 9 SOUTH OF HONSHU, JAPAN

29 18 01 31.8 30.738 S 71.993 W 33 N 5.6 5.2 0.8 201 NEAR COAST OF CENTRAL CHILE. Mw 6.0 (GS), 5.7 (HRV). Me 5.5 (GS). MD 5.7 (GUC). Felt (III) at Limari; (II) at Choapa, Coquimbo, La Serena, Tongoy, Valparaiso and Vina del Mar.

Broadband Source Parameters (GS): Dep 10; NP1: Strike=180, Dip=45, Slip=90; NP2: Strike=0, Dip=45, Slip=90; Radiated energy 3.7*10**12 Nm.

Moment Tensor (GS): Dep 3; Principal axes (scale 10**18 Nm): (T) Val=1.13, Plg=58, Azm=63; (N) Val=-0.02, Plg=0, Azm=332; (P) Val=-1.11, Plg=32, Azm=242; Best double couple: Mo=1.1*10**18 Nm; NP1: Strike=331, Dip=13, Slip=89; NP2: Strike=152, Dip=77, Slip=90.

Centroid, Moment Tensor (HRV): Centroid origin time 18:01:34.2; Lat 30.94 S; Lon 72.60 W; Dep 15.0 Bdy; Half-duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=3.84, Plg=76, Azm=90; (N) Val=0.39, Plg=1, Azm=355; (P) Val=-4.24, Plg=14, Azm=264; Best double couple: Mo=4.0*10**17 Nm; NP1: Strike=352, Dip=31, Slip=87; NP2: Strike=175, Dip=59, Slip=92.

29 19 47 52.4* 20.748 S 67.079 W 222 * 3.8 1.0 9 SOUTHERN BOLIVIA

29 23 57 38.6& 37.110 N 3.610 W 2 7 SPAIN. <MDD>. mblg 2.0 (MDD).

30 00 17 30.5& 34.714 N 33.003 E 5 6 CYPRUS REGION. <CSS>. ML 4.0 (CSS). Felt (III) at Limassol.

30 00 55 58.4* 44.952 N 25.639 E 33 N 1.2 6 ROMANIA

30 01 04 06.6 24.292 N 121.211 E 33 N 4.6 1.1 33 TAIWAN. ML 5.0 (TAP). Felt (IV JMA) in the epicentral area, (III JMA) at Hua-lien, (II JMA) at Tai-chung and (I JMA) at Taipei.

30 02 36 57.2 32.100 N 40.415 W 10 G 4.9 4.8 1.1 116 NORTHERN MID-ATLANTIC RIDGE. Mw 5.1 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 02:37:00.5; Lat 32.17 N; Lon 40.22 W; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.39, Plg=15, Azm=112; (N) Val=0.12, Plg=6, Azm=21; (P) Val=-5.51, Plg=74, Azm=270; Best double couple: Mo=5.4*10**16 Nm; NP1: Strike=211, Dip=31, Slip=-79; NP2: Strike=17, Dip=60, Slip=97.

30 02 39 37.8 32.175 N 40.313 W 10 G 4.8 0.9 75 NORTHERN MID-ATLANTIC RIDGE

30 02 49 23.3* 32.140 N 40.317 W 10 G 4.3 1.2 15 NORTHERN MID-ATLANTIC RIDGE

30 03 06 30.6& 42.100 N 1.600 E 2 4 PYRENEES. <LDG>. ML 2.3 (LDG).

30 03 18 27.6 54.621 N 168.361 E 33 N 4.9 4.6 0.9 146 KOMANDORSKY ISLANDS REGION. Mw 5.2 (HRV).

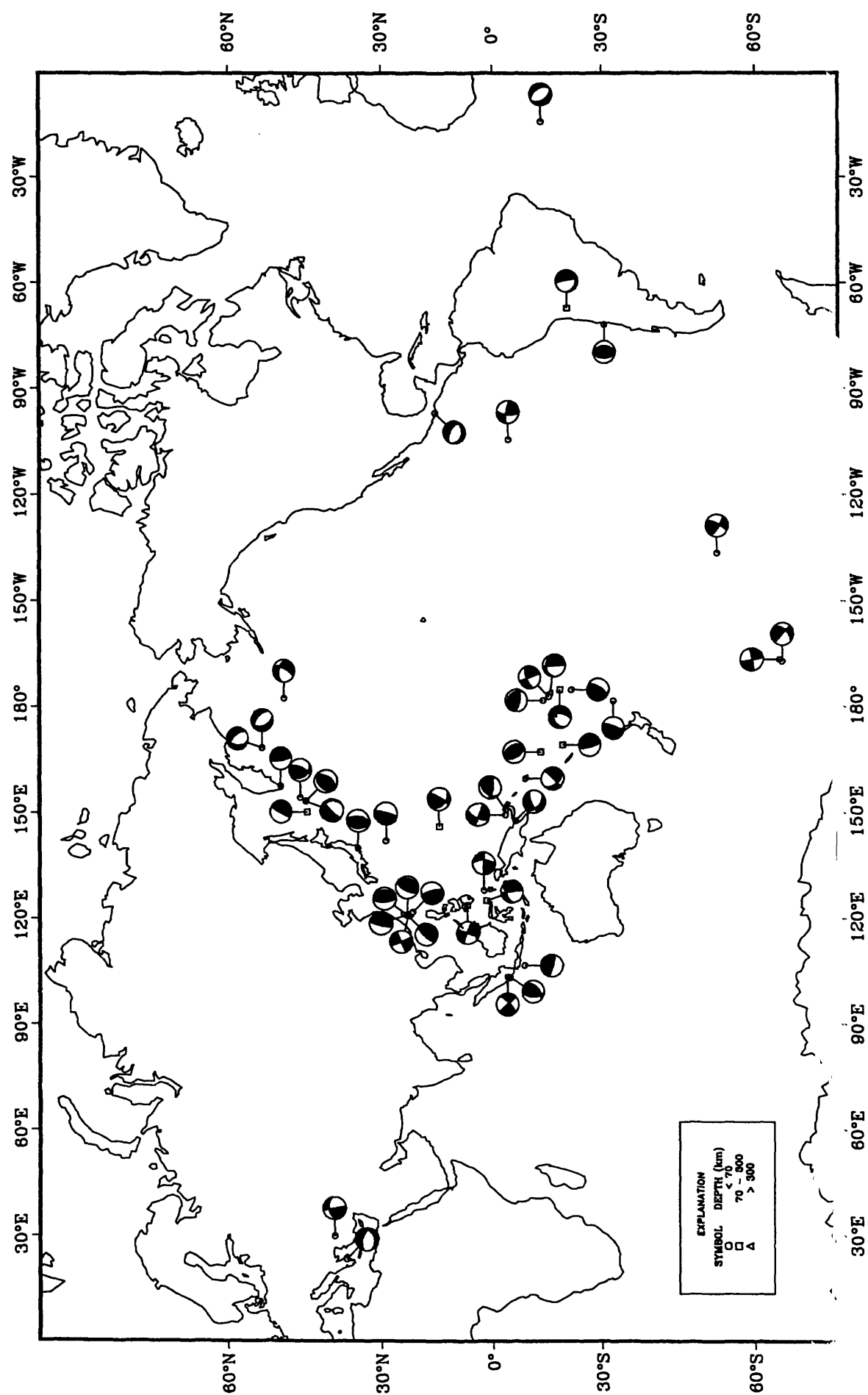
Centroid, Moment Tensor (HRV): Centroid origin time 03:18:29.8; Lat 54.85 N; Lon 168.19 E; Dep 15.0 Fix; Half-duration 1.2 sec; Principal axes (scale 10**16 Nm): (T) Val=8.70, Plg=19, Azm=59; (N) Val=-2.30, Plg=26, Azm=320; (P) Val=-6.40, Plg=57, Azm=182; Best double couple: Mo=7.6*10**16 Nm; NP1: Strike=184, Dip=34, Slip=-40; NP2: Strike=309, Dip=69, Slip=-118.

30 03 24 38.1& 45.130 N 3.250 E 7 37 FRANCE. <STR>. ML 3.1 (STR), 2.9 (LDG).

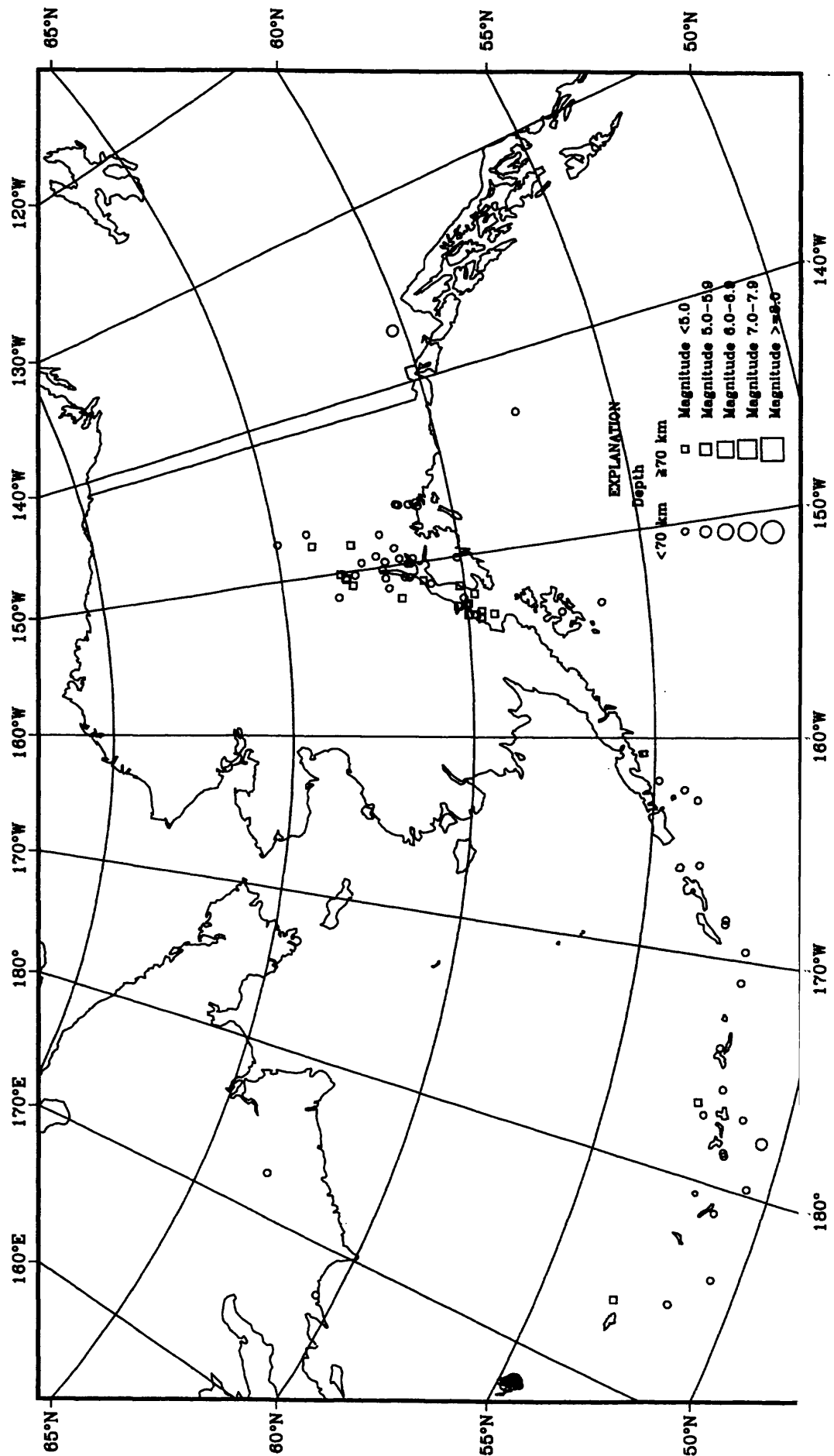
30 03 29 54.9& 44.295 N 7.512 E 4 6 NORTHERN ITALY. <GEN>. ML 1.4 (GEN).

30 04 02 54.5& 41.375 N 123.447 W 40 23 NORTHERN CALIFORNIA. <GM-P>. ML 3.9 (GM), 3.9 (BRK). Felt (II) at Forks of Salmon.

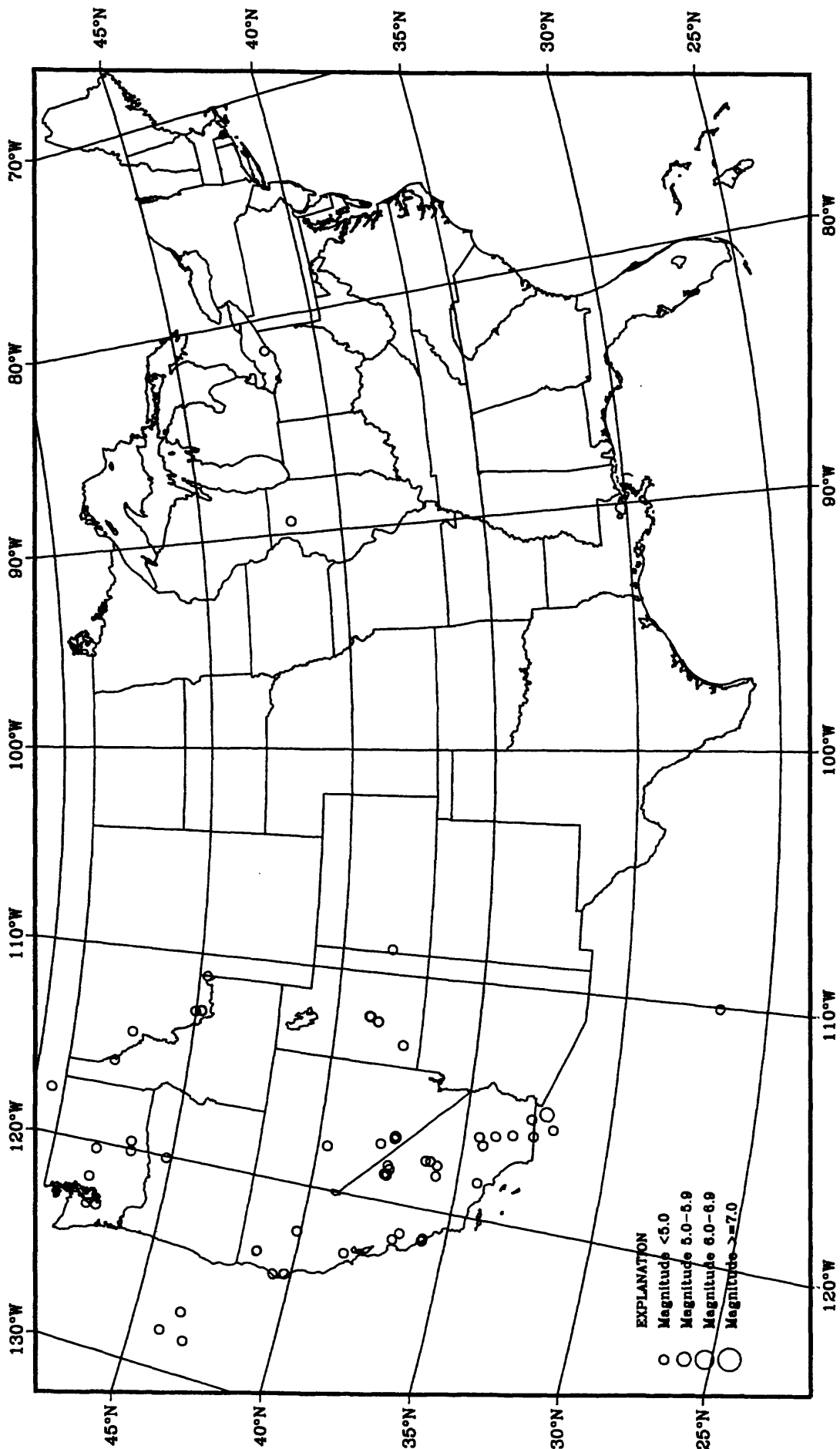
Earthquake Focal Mechanisms for September 1999



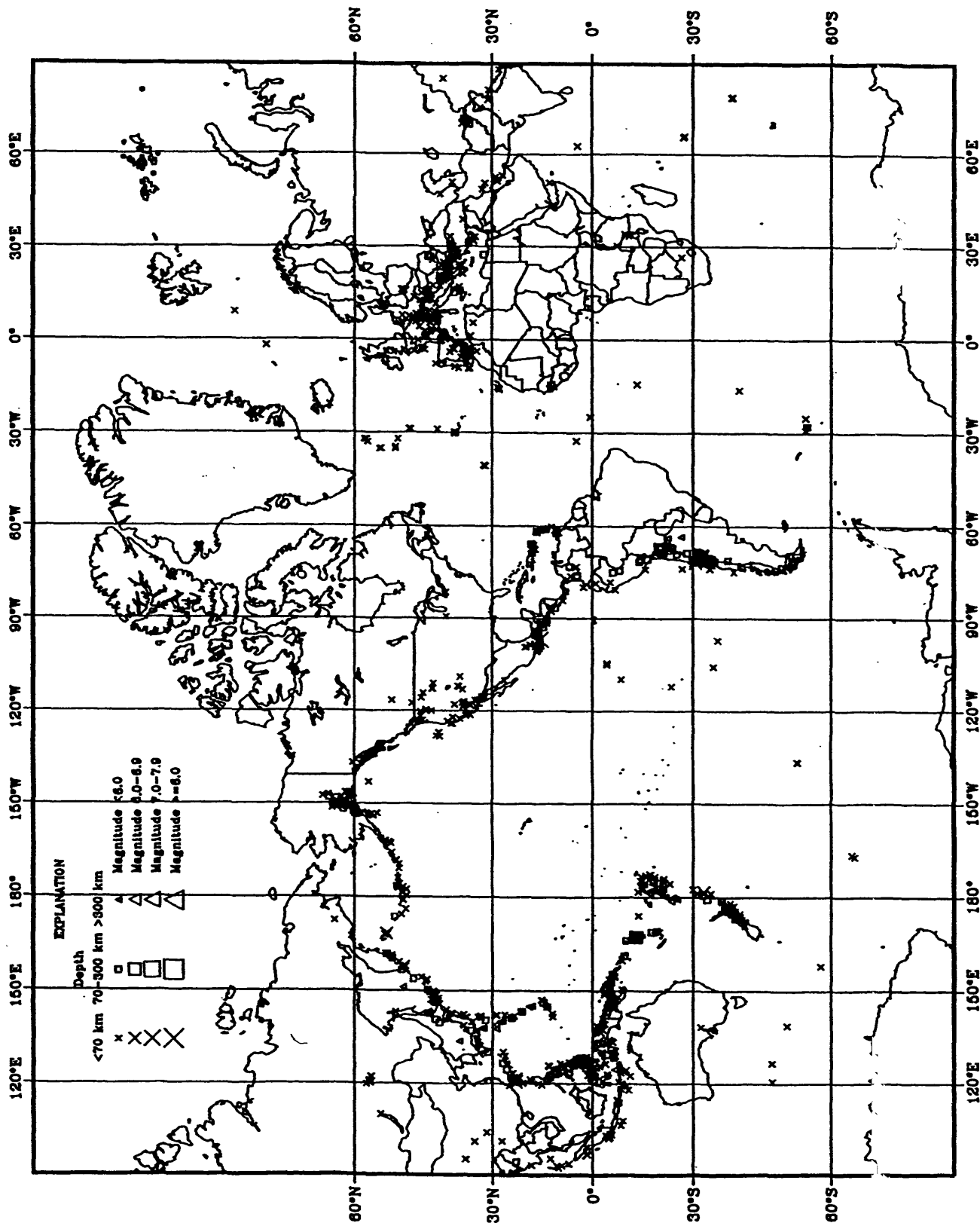
Earthquake epicenters in Alaska and adjacent regions for September 1989



Earthquake epicenters in the conterminous United States and adjacent regions for September 1999



Earthquakes located worldwide in September 1999





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