U.S. DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY

**PRELIMINARY DETERMINATION OF EPICENTERS
MONTHLY LISTING**

JANUARY – MARCH 2000

NATIONAL EARTHQUAKE INFORMATION CENTER

Open-File Report

00-600-A

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2001

Preliminary Determination of Epicenters

Monthly Listing

National Earthquake Information Center

JANUARY 2000

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	04	49.4	41.130 S	174.760 E	27			4	COOK STRAIT, NEW ZEALAND. <WEL>. ML 1.9 (WEL).	
01	01	19	26.9	41.927 N	20.543 E	10 G	4.5	1.1	187	ALBANIA. ML 4.8 (ATH), 4.7 (SKO), 4.7 (ROM). MD 4.5 (PDG). Felt (V) at Gostivar and Tetovo; (IV) at Debar, Kicevo and Skopje, former Yugoslav Republic of Macedonia. Also felt (IV) in southern Montenegro.	
01	02	10	15.5	41.915 N	20.534 E	6			12	ALBANIA. <PDG>. MD 2.9 (PDG). ML 2.6 (SKO).	
01	02	10	47.9	45.086 N	5.466 E	4 G			17	FRANCE. <LDG>. ML 2.1 (LDG).	
01	02	12	13.4	11.35 S	164.57 E	33 N	4.3	1.2	9	SANTA CRUZ ISLANDS REGION	
01	03	20	57.3	48.119 N	2.959 W	3			9	FRANCE. <LDG>. ML 2.7 (LDG).	
01	03	47	33.9	38.348 N	12.009 E	10 G			23	SICILY, ITALY. <ROM>. MD 3.4 (ROM).	
01	03	58	39.5	34.801 N	116.287 W	7			34	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).	
01	04	02	24.8	35.430 N	22.498 E	33 N	3.4	1.2	18	CENTRAL MEDITERRANEAN SEA. MD 3.8 (ATH).	
01	04	29	06.9	39.870 S	173.980 E	147			12	OFF W. COAST OF N. ISLAND, N.Z. <WEL>.	
01	04	30	10.3	26.012 S	68.803 W	105 D	4.5	0.9	44	CHILE-ARGENTINA BORDER REGION	
01	05	13	59.1	38.970 N	26.100 E	35			5	AEGEAN SEA. <ATH>. MD 3.4 (ATH).	
01	05	17	12.9	38.890 N	25.850 E	22			7	AEGEAN SEA. <ATH>. MD 3.6 (ATH).	
01	05	24	35.2	36.874 N	69.947 E	54 *	5.2 4.5	0.8	181	HINDU KUSH REGION, AFGHANISTAN. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 05:24:39.3; Lat 37.15 N; Lon 69.72 E; Dep 84.6; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.70, Plg=11, Azm=228; (N) Val=2.42, Plg=79, Azm=43; (P) Val=-7.12, Plg=1, Azm=138; Best double couple: Mo=5.9*10**16 Nm; NP1: Strike=273, Dip=82, Slip=173; NP2: Strike=4, Dip=83, Slip=8.	
01	05	34	37.2	39.04 N	142.27 E	33 N		1.1	5	NEAR EAST COAST OF HONSHU, JAPAN. Recorded (2 JMA) in southeastern Iwate and (1 JMA) in northeastern Miyagi Prefectures.	
01	05	43	40.0	37.145 N	69.946 E	33 N	3.8	0.5	10	AFGHANISTAN-TAJIKISTAN BORD REG.	
01	05	58	19.7	60.722 S	153.670 E	10 G	5.6 5.6	1.0	87	WEST OF MACQUARIE ISLAND. Mw 6.0 (GS), 6.0 (HRV). Moment Tensor (GS): Dep 8; Principal axes (scale 10**18 Nm): (T) Val=1.19, Plg=13, Azm=12; (N) Val=-0.01, Plg=77, Azm=201; (P) Val=-1.19, Plg=2, Azm=103; Best double couple: Mo=1.2*10**18 Nm; NP1: Strike=148, Dip=80, Slip=8; NP2: Strike=57, Dip=82, Slip=169. Centroid, Moment Tensor (HRV): Centroid origin time 05:58:26.7; Lat 60.74 S; Lon 153.40 E; Dep 15.0 Fix; Half-duration 2.3 sec; Principal axes (scale 10**18 Nm): (T) Val=1.25, Plg=15, Azm=20; (N) Val=-0.21, Plg=71, Azm=240; (P) Val=-1.04, Plg=11, Azm=113; Best double couple: Mo=1.1*10**18 Nm; NP1: Strike=157, Dip=71, Slip=2; NP2: Strike=67, Dip=88, Slip=161.	
01	06	04	08.1	59.658 N	152.715 W	102 *		0.5	9	SOUTHERN ALASKA	
01	06	26	04.2	37.027 N	69.964 E	33 N	4.4	1.3	17	AFGHANISTAN-TAJIKISTAN BORD REG.	
01	06	40	48.9	17.073 S	167.026 E	33 N	4.3	1.0	15	VANUATU ISLANDS	
01	06	55	51.0	17.094 N	100.607 W	27			6	GUERRERO, MEXICO. <UNM>. MD 3.4 (UNM).	
01	06	58	39.7	36.84 N	69.89 E	33 N	3.7	0.5	7	HINDU KUSH REGION, AFGHANISTAN	
01	07	50	00.3	8.370 N	126.336 E	101	4.5	1.1	19	MINDANAO, PHILIPPINES	
01	07	51	08.0	23.319 S	179.978 W	538 D	4.6	0.9	40	SOUTH OF FIJI ISLANDS	
01	08	09	36.9	60.210 N	150.893 W	68			22	KENAI PENINSULA, ALASKA. <AEIC>. ML 3.1 (AEIC).	
01	08	25	52.8	3.207 S	148.877 E	10 G	4.5	1.4	15	BISMARCK SEA	
01	08	42	04.3	57.449 N	154.320 W	58 *	3.5	1.0	25	KODIAK ISLAND REGION, ALASKA. ML 4.0 (PMR). Felt (IV) at Akhiok.	
01	09	29	20.2	39.420 S	177.910 E	12			9	OFF E. COAST OF N. ISLAND, N.Z. <WEL>. ML 3.7 (WEL).	
01	09	41	03.8	10.519 N	124.861 E	33 W		1.5	5	LEYTE, PHILIPPINES	
01	11	02	45.4	51.711 N	179.188 E	95 D	4.2	0.8	27	RAT ISLANDS, ALEUTIAN ISLANDS	
01	11	22	57.0	46.888 N	78.930 W	18 G	4.7		131	SOUTHERN QUEBEC, CANADA. <OTT-P>. mbLg 5.2 (OTT). Felt at Temiscaming and Val-d'Or. Felt in much of southern Ontario including North Bay and the Ottawa-Toronto area. Felt in the Buffalo-Niagara Falls-Rochester area, New York. Also felt at Kinross, Michigan.	
01	11	42	45.6	40.900 S	174.750 E	42			6	COOK STRAIT, NEW ZEALAND. <WEL>.	

01	12	07	49.4&	41.380 S	175.030 E	18				5	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 2.1 (WEL).
01	12	41	16.0?	2.41 N	127.91 E	33 N		1.5		9	NORTHERN MOLUCCA SEA
01	13	57	25.0*	36.848 N	69.868 E	33 N	3.5	0.4		9	HINDU KUSH REGION, AFGHANISTAN
01	14	31	29.6*	7.954 S	117.581 E	33 N		1.1		7	BALI SEA
01	15	08	44.1*	13.098 N	143.399 E	215 *		0.7		8	SOUTH OF MARIANA ISLANDS
01	15	20	21.9&	61.691 N	149.760 W	46				21	SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC), 3.1 (PMR).
01	15	42	20.2&	41.220 S	175.210 E	20				5	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 1.7 (WEL).
01	15	46	48.8?	17.22 S	174.47 W	33 N	4.2	0.5		13	TONGA ISLANDS
01	16	01	13.5*	22.214 S	70.191 W	67 *	4.4	0.8		21	NEAR COAST OF NORTHERN CHILE
01	16	43	25.9	57.428 N	154.454 W	52	4.4	0.9		52	KODIAK ISLAND REGION, ALASKA. ML 4.6 (PMR).
01	18	49	10.6	28.533 N	102.648 E	33 N	4.6	0.9		51	SICHUAN, CHINA. ML 3.9 (BJI).
01	18	55	21.2&	41.680 S	174.490 E	38				5	COOK STRAIT, NEW ZEALAND. <WEL>.
01	19	09	04.1&	35.670 N	23.090 E	16				10	CRETE, GREECE. <ATH>. MD 3.4 (ATH).
01	19	18	39.8*	2.955 N	126.242 E	33 N		1.1		9	NORTHERN MOLUCCA SEA
01	19	30	57.7	23.112 N	143.644 E	33 N	5.1 5.0	1.0		86	VOLCANO ISLANDS, JAPAN REGION. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 19:31:03.1; Lat 23.36 N; Lon 143.65 E; Dep 33.0 Fix; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.51, Plg=51, Azm=188; (N) Val=2.71, Plg=1, Azm=97; (P) Val=-9.22, Plg=39, Azm=6; Best double couple: Mo=7.9*10**16 Nm; NP1: Strike=88, Dip=6, Slip=81; NP2: Strike=277, Dip=84, Slip=91.
01	19	48	55.2?	23.85 S	176.17 W	33 N	4.6	1.2		8	SOUTH OF FIJI ISLANDS
01	19	56	29.1&	44.735 N	7.177 E	8				17	NORTHERN ITALY. <GEN>. ML 2.0 (GEN), 1.7 (LDG).
01	20	12	47.1	51.558 N	16.281 E	5 G		0.6		12	POLAND. ML 3.7 (GRF), 3.6 (VIE).
01	22	47	39.0?	19.09 N	145.18 E	33 N	4.0	1.0		7	MARIANA ISLANDS
01	22	57	22.0&	38.020 N	23.610 E	9				8	GREECE. <ATH>. ML 2.3 (ATH).
01	23	06	16.2&	37.490 N	21.960 E	5				5	SOUTHERN GREECE. <ATH>. ML 2.9 (ATH).
01	23	42	21.1&	34.384 N	32.028 E	25				6	CYPBUS REGION. <CSS>. ML 2.0 (CSS).
02	00	19	33.4&	43.436 N	18.393 E	7				10	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.4 (PDG).
02	00	29	18.7?	40.54 N	31.26 E	10 G	3.6	0.7		19	TURKEY
02	01	51	40.4	19.149 N	145.565 E	152 *	4.7	1.0		43	MARIANA ISLANDS
02	02	02	43.4*	47.605 N	154.423 E	33 N	4.2	0.7		21	KURIL ISLANDS
02	02	13	28.9*	17.346 S	69.277 W	162 *	3.7	1.1		9	PERU-BOLIVIA BORDER REGION
02	02	16	26.4&	38.800 N	25.930 E	20				13	AEGEAN SEA. <ATH>. MD 3.7 (ATH).
02	02	57	51.7&	43.111 N	18.319 E	8				10	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.3 (PDG).
02	03	25	39.1*	17.133 S	172.941 W	33 N	4.5	1.2		42	TONGA ISLANDS REGION
02	03	49	13.9&	44.368 N	7.282 E	9				5	NORTHERN ITALY. <GEN>. ML 1.7 (GEN).
02	03	56	52.5&	38.900 N	22.050 E	5	3.3			14	GREECE. <ATH>. MD 3.4 (ATH).
02	04	14	41.5&	37.840 N	21.050 E	5				5	SOUTHERN GREECE. <ATH>. MD 3.0 (ATH).
02	04	20	21.3&	10.470 N	126.176 E	33 N		0.7		6	PHILIPPINE ISLANDS REGION
02	05	15	52.9	34.792 N	32.962 E	10 G		0.6		6	CYPBUS REGION. ML 2.4 (CSS).
02	05	23	05.8?	25.42 S	179.79 E	500 G	4.2	1.3		17	

02	14	56	48.9*	48.378 N	128.880 W	10 G	1.2	7	VANCOUVER ISLAND, CANADA REGION
02	15	04	44.5&	34.960 N	87.180 W	13		9	ALABAMA. <TVA>. MD 2.9 (TVA). mbLg 2.7 (GS). Felt in Limestone County, Alabama and Giles County, Tennessee.
02	15	13	15.9*	48.024 N	128.778 W	10 G	2.6	0.9	11 VANCOUVER ISLAND, CANADA REGION. ML 3.0 (PGC).
02	15	16	32.2	20.771 S	174.236 W	33 N	5.5	5.8	1.3 170 TONGA ISLANDS. Mw 5.8 (GS), 5.7 (HRV). Moment Tensor (GS): Dep 14; Principal axes (scale 10**17 Nm): (T) Val=5.72, Plg=58, Azm=248; (N) Val=-0.02, Plg=25, Azm=26; (P) Val=-5.70, Plg=19, Azm=125; Best double couple: Mo=5.7*10**17 Nm; NP1: Strike=249, Dip=34, Slip=138; NP2: Strike=15, Dip=68, Slip=63. Centroid, Moment Tensor (HRV): Centroid origin time 15:16:34.8; Lat 21.24 S; Lon 173.30 W; Dep 15.0 Bdy; Half-duration 2.0 sec; Principal axes (scale 10**17 Nm): (T) Val=4.55, Plg=72, Azm=260; (N) Val=0.23, Plg=11, Azm=26; (P) Val=-4.78, Plg=15, Azm=119; Best double couple: Mo=4.7*10**17 Nm; NP1: Strike=225, Dip=32, Slip=111; NP2: Strike=20, Dip=60, Slip=77.
02	15	48	05.7*	48.107 N	128.803 W	10 G	0.9	7	VANCOUVER ISLAND, CANADA REGION. ML 2.7 (PGC).
02	15	49	41.0&	38.030 N	118.700 W	4		18	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.3 (REN). ML 3.2 (BRK).
02	16	26	29.4*	47.901 N	129.364 W	10 G	2.9	0.6	7 OFF COAST OF WASHINGTON
02	16	50	20.9&	18.976 N	66.299 W	14		7	PUERTO RICO REGION. <RSFR>. MD 2.9 (RSFR).
02	17	25	30.8	51.499 N	175.520 W	33 N	5.0	4.6	1.1 144 ANDREANOF ISLANDS, ALEUTIAN IS. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 17:25:35.2; Lat 51.41 N; Lon 175.47 W; Dep 33.3; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.32, Plg=74, Azm=298; (N) Val=0.31, Plg=11, Azm=70; (P) Val=-6.63, Plg=11, Azm=162; Best double couple: Mo=6.5*10**16 Nm; NP1: Strike=266, Dip=35, Slip=109; NP2: Strike=63, Dip=57, Slip=77.
02	17	26	04.9?	47.94 N	128.80 W	10 G		1.1	11 OFF COAST OF WASHINGTON. ML 3.2 (PGC).
02	17	35	16.0&	15.978 N	97.337 W	19	4.0		25 NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 4.3 (UNM).
02	17	58	32.8&	34.309 N	116.072 W	2			26 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
02	18	17	32.0*	48.052 N	128.611 W	10 G	3.8	1.4	7 VANCOUVER ISLAND, CANADA REGION
02	18	28	08.6?	48.04 N	129.07 W	10 G	2.6	0.6	5 VANCOUVER ISLAND, CANADA REGION
02	18	43	31.9*	1.902 N	127.137 E	33 N	4.4	0.5	13 HALMAHERA, INDONESIA
02	18	48	55.6&	35.480 N	22.510 E	32	3.9		94 CENTRAL MEDITERRANEAN SEA. <ATH>. MD 4.1 (ATH).
02	19	06	41.8&	39.030 N	24.470 E	29			6 AEGEAN SEA. <ATH>. MD 3.2 (ATH).
02	19	15	40.2&	36.140 N	23.140 E	5			5 SOUTHERN GREECE. <ATH>. MD 3.1 (ATH).
02	19	26	34.3*	48.060 N	128.907 W	10 G		1.0	9 VANCOUVER ISLAND, CANADA REGION
02	20	28	35.5&	38.531 N	38.857 E	5	3.6		11 TURKEY. <ISK>. MD 4.1 (ISK). Felt at Elazig, Malatya and Urfa.
02	20	59	18.4&	39.090 S	175.250 E	12			6 NORTH ISLAND, NEW ZEALAND. <WEL>. ML 2.9 (WEL).
02	21	42	52.3	8.846 N	84.249 W	10 G	4.1	1.5	20 OFF COAST OF COSTA RICA. MD 4.5 (UPA), 4.3 (CASC).
02	21	49	37.2*	47.874 N	129.051 W	10 G		0.9	15 OFF COAST OF WASHINGTON. ML 3.1 (PGC).
02	23	05	21.5&	55.722 N	158.293 W	3	3.0		26 ALASKA PENINSULA. <AEIC>. ML 3.4 (AEIC).
02	23	18	53.7	33.692 N	138.127 E	286	4.3	0.9	54 SOUTHEAST OF HONSHU, JAPAN
02	23	36	41.8*	48.490 N	128.580 W	10 G		0.6	7 VANCOUVER ISLAND, CANADA REGION
03	02	20	09.4	22.838 N	122.087 E	33 N	4.7	1.4	31 TAIWAN REGION. Recorded (3 TAP) at Cheng-kung, (2 TAP) at Tai-tung and (1 TAP) on Lan Yu.
03	02	38	27.0	9.634* N	126.280 E	68 *	4.9	1.0	65 MINDANAO, PHILIPPINES. Mw 5.2 (HRV). Felt on Mindanao. Centroid, Moment Tensor (HRV): Centroid origin time 02:38:26.8; Lat 9.71 N; Lon 126.58 E; Dep 17.4; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=7.21, Plg=65, Azm=356; (N) Val=-0.24, Plg=19, Azm=220; (P) Val=-6.97, Plg=17, Azm=124; Best double couple: Mo=7.1*10**16 Nm; NP1: Strike=189, Dip=33, Slip=54; NP2: Strike=50, Dip=64, Slip=111.
03	03	07	57.5&	34.380 N	116.459 W	6			5 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
03	03	41	16.6?	29.20 N	52.21 E	33 N	3.8	1.2	5 SOUTHERN IRAN
03	03	48	18.8&	34.533 N	116.040 W	3			29 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
03	04	03	14.9*	21.110 S	68.424 W	134 *	4.0	1.1	15 CHILE-BOLIVIA BORDER REGION
03	04	32	36.3&	15.938 N	98.683 W	16			7 OFF COAST OF GUERRERO, MEXICO. <UNM>. MD 3.9 (UNM).
03	04	39	42.1	46.619 N	10.268 E	10 G		1.0	12 NORTHERN ITALY. ML 1.8 (VIE).
03	05	01	24.5&	63.377 N	148.869 W	84			36 CENTRAL ALASKA. <AEIC>.
03	05	14	24.2&	61.790 N	149.916 W	44			46 SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC), 3.1 (PMR).
03	07	50	09.3&	35.656 N	1.576 W	0 G			10 NORTHERN ALGERIA. <MDD>. ML 2.4 (MDD).
03	09	19	08.8*	17.271 S	174.480 W	33 N	4.4	0.8	24 TONGA ISLANDS
03	10	25	35.3*	20.773 S	174.265 W	33 N	4.0	0.6	13 TONGA ISLANDS
03	11	25	15.8*	32.562 N	130.778 E	199 *	4.1	1.0	22 KYUSHU, JAPAN
03	11	30	31.5*	26.705 N	53.664 E	33 N	4.3	0.6	12 SOUTHERN IRAN
03	11	53	51.1&	39.140 S	175.070 E	221			14 NORTH ISLAND, NEW ZEALAND. <WEL>.
03	12	26	40.0&	50.480 N	130.330 W	10 G	4.1		20 VANCOUVER ISLAND, CANADA REGION. <PGC-P>. ML 3.9 (PGC).
03	13	01	31.6*	2.114 N	128.688 E	72 *	4.7	1.0	13 HALMAHERA, INDONESIA
03	14	32	15.8?	11.54 S	118.42 E	33 N	4.7	1.5	9 SOUTH OF SUMBAWA, INDONESIA
03	15	24	18.0&	50.540 N	130.260 W	10 G			6 VANCOUVER ISLAND, CANADA REGION. <PGC-P>. ML 3.2 (PGC).
03	16	34	58.4?	45.13 N	148.24 E	111 ?	4.1	0.8	14 KURIL ISLANDS
03	16	38	50.3*	43.399 N	87.986 E	33 N	4.0	1.2	11 NORTHERN XINJIANG, CHINA
03	17	14	19.9&	36.829 N	4.069 W	70			37 STRAIT OF GIBRALTAR. <MDD>.
03	17	31	09.3&	41.932 N	20.575 E	10			12 ALBANIA. <PDG>. MD 3.0 (PDG). ML 2.9 (SKO).
03	17	46	01.8&	37.740 N	20.500 E	5			8 IONIAN SEA. <ATH>. MD 3.4 (ATH).
03	18	01	26.3	41.010 N	143.170 E	33 N	4.7	0.7	20 HOKKAIDO, JAPAN REGION
03	18	28	36.2&	42.321 N	2.497 E	2			46 PYRENEES. <LDG>. ML 3.5 (LDG), 3.3 (STR). mbLg 3.4 (MDD). Felt (IV) at Olot and Santa Pau, Spain.
03	18	36	29.5*	45.586 N	12.728 E	10 G		0.4	10 NORTHERN ITALY. ML 2.9 (VIE).
03	19	36	04.4&	19.162 N	66.353 W	37 *			7 PUERTO RICO REGION. <RSFR>. MD 3.1 (RSFR).
03	19	48	11.7&	42.389 N	2.441 E	2			13 PYRENEES. <LDG>. ML 2.6 (LDG), 2.6 (MDD).
03	19	55	21.7&	61.469 N	152.419 W	121	2.9		9 SOUTHERN ALASKA. <AEIC>.
03	21	05	50.0&	44.310 N	70.170 W	10			10 MAINE. <WES-P>. mbLg 3.4 (WES), 3.5 (OTT). Felt in Androscoggin, Kennebec and Oxford Counties.
03	21	33	21.6*	24.769 S	178.650 E	554 ?	4.5	1.1	42 SOUTH OF FIJI ISLANDS
03	21	53	01.4*	19.819 N	121.396 E	58 *	3.8	3.7	1.0 12 PHILIPPINE ISLANDS REGION
03	21	59	31.7&	34.102 N	117.008 W	4			40 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).

03	22	28	08.6	39.470 N	20.650 E	5	5	GREECE-ALBANIA BORDER REGION. <ATH>. MD 2.9 (ATH).
03	22	34	12.6	22.132 N	92.771 E	33 N 4.6	1.1	26 INDIA-BANGLADESH BORDER REGION. At least 100 homes damaged at Maheshkhali; felt at Chittagong, Bangladesh. Also felt in Tripura India.
03	22	59	14.8*	24.054 N	121.624 E	10 G	1.2	5 TAIWAN. Recorded (3 TAP) in the epicentral area and (2 TAP) at Hua-lien.
03	23	59	41.2*	19.173 N	145.956 E	33 N 3.6	0.8	9 MARIANA ISLANDS
04	00	25	05.8	16.134 S	35.959 E	10 G 4.9	1.0	49 MALAWI. Felt in the Milange area, Mozambique.
04	01	34	57.4*	11.192 N	124.579 E	10 G	1.5	6 LEYTE, PHILIPPINES
04	02	19	06.2*	20.826 S	174.293 W	33 N 4.1	1.3	19 TONGA ISLANDS
04	03	34	51.4*	5.824 S	154.363 E	400 G 4.4	0.9	13 SOLOMON ISLANDS
04	03	40	22.3	42.327 N	2.497 E	2		25 PYRENEES. <LDG>. ML 2.9 (LDG), 2.8 (STR). mblg 2.6 (MDD).
04	04	03	19.9	42.282 N	2.479 E	2		5 PYRENEES. <LDG>. mblg 2.6 (MDD). ML 2.3 (LDG).
04	04	09	04.8	31.589 N	49.254 E	33 N	0.8	8 WESTERN IRAN
04	05	13	26.7	46.534 N	10.290 E	10 G	0.5	8 NORTHERN ITALY. ML 1.9 (VIE).
04	05	21	13.6?	2.71 S	100.38 E	87 ?	1.4	15 SOUTHERN SUMATERA, INDONESIA
04	06	34	47.8?	22.55 S	171.16 E	33 N 4.7	1.5	12 SOUTHEAST OF LOYALTY ISLANDS
04	06	39	34.2*	5.331 S	146.727 E	242 4.7	0.8	16 EASTERN NEW GUINEA REG., P.N.G.
04	06	48	10.5?	14.98 S	177.58 W	33 N	0.6	8 FIJI ISLANDS REGION
04	07	12	08.2*	27.500 S	176.962 W	33 N 4.1	1.3	17 KERMADEC ISLANDS REGION
04	07	39	09.2*	51.018 N	174.947 E	33 N 4.1	0.3	10 NEAR ISLANDS, ALEUTIAN ISLANDS
04	09	14	51.3	20.716 S	177.613 W	336 D 5.0	1.0	132 FIJI ISLANDS REGION. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 09:14:57.5; Lat 20.71 S; Lon 177.48 W; Dep 362.1; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.37, Plg=33, Azm=248; (N) Val=0.13, Plg=54, Azm=96; (P) Val=-1.50, Plg=13, Azm=347; Best double couple: Mo=1.4*10**17 Nm; NP1: Strike=32, Dip=57, Slip=15; NP2: Strike=294, Dip=77, Slip=146.
04	09	17	22.2	40.277 N	124.357 W	21		8 NEAR COAST OF NORTHERN CALIF. <NC-P>. MD 3.2 (NC).
04	09	42	47.6	3.772 S	153.438 E	283 4.5	0.9	28 NEW IRELAND REGION, P.N.G.
04	11	38	19.3*	3.082 S	128.541 E	33 N 4.4	1.2	14 SERAM, INDONESIA
04	11	38	57.2?	51.49 N	7.57 E	10 G	1.2	14 GERMANY. ML 3.2 (LDG), 3.0 (STR).
04	11	57	45.5	17.052 N	99.879 W	41		12 GUERRERO, MEXICO. <UNM>. MD 3.7 (UNM).
04	13	53	39.8	46.249 N	13.632 E	10 G	1.2	13 AUSTRIA. ML 2.5 (VIE).
04	14	19	28.0*	2.410 N	122.276 E	500 G 3.9	1.4	9 CELEBES SEA
04	14	23	04.6	37.410 N	20.780 E	5		6 IONIAN SEA. <ATH>. MD 3.3 (ATH).
04	14	45	55.9	40.136 N	72.131 E	33 N 4.4	0.8	22 KYRGYZSTAN. Felt (IV) at Farghona; (III) at Andijon and Namangan; (II) at Toshkent, Uzbekistan.
04	15	03	11.8	18.689 N	66.978 W	15		7 PUERTO RICO REGION. <RSRP>. MD 2.9 (RSRP).
04	16	26	04.9	40.774 N	30.728 E	16		36 TURKEY. <ISK>. MD 3.9 (ISK).
04	16	32	47.2*	6.206 S	150.844 E	33 N 4.6	1.1	20 NEW BRITAIN REGION, P.N.G.
04	17	02	10.2	39.921 N	20.277 E	10 G 3.5	1.5	43 GREECE-ALBANIA BORDER REGION. MD 3.5 (ATH), 3.3 (PDG). ML 3.4 (SKO).
04	18	11	39.5	59.782 N	152.125 W	59		49 SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).
04	18	44	45.8	37.670 S	177.340 E	75		13 OFF E. COAST OF N. ISLAND, N.Z. <WEL>. Felt at Whakatane.
04	18	50	32.0*	11.045 S	165.493 E	33 N 4.6	0.9	12 SANTA CRUZ ISLANDS
04	19	04	51.0*	3.717 S	149.814 E	33 N 4.8	1.5	24 BISMARCK SEA
04	19	24	36.2*	8.115 N	127.190 E	33 N	1.1	11 PHILIPPINE ISLANDS REGION
04	21	07	28.7	9.769 S	116.070 E	33 N 4.1	1.1	11 SUMBAWA REGION, INDONESIA
04	21	42	10.5	16.148 N	61.128 W	15		6 LEEWARD ISLANDS. <FDF>. MG 2.8 (FDF).
04	23							

Centroid, Moment Tensor (HRV): Centroid origin time
08:41:40.1; Lat 11.89 S; Lon 164.88 E; Dep 27.9; Half-
duration 1.0 sec; Principal axes (scale 10**17 Nm): (T)
Val=1.54, Plg=14, Azm=23; (N) Val=0.29, Plg=26, Azm=120;
(P) Val=-1.83, Plg=60, Azm=267; Best double couple:
Mo=1.7*10**17 Nm; NP1: Strike=81, Dip=38, Slip=-135; NP2:
Strike=314, Dip=64, Slip=-61.

05	08	58	59.7	11.879	S	166.515	E	121	D	5.1	1.1	63	SANTA CRUZ ISLANDS	
05	09	12	45.8	38.790	N	21.650	E	5				6	GREECE. <ATH>. MD 3.0 (ATH).	
05	09	14	23.7*	2.274	S	134.272	E	33	N	4.8	1.8	20	IRIAN JAYA REGION, INDONESIA	
05	09	45	18.7	32.222	N	92.700	E	33	N	5.1	4.7	0.8	118	XIZANG. Mw 5.5 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 09:45:29.6; Lat 32.03 N; Lon 92.29 E; Dep 33.0 Fix; Half- duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.79, Plg=26, Azm=88; (N) Val=-0.11, Plg=33, Azm=340; (P) Val=-1.68, Plg=46, Azm=207; Best double couple: Mo=1.7*10**17 Nm; NP1: Strike=225, Dip=36, Slip=-20; NP2: Strike=332, Dip=78, Slip=-124.														
05	10	55	05.3	46.096	N	3.528	E	5				11	FRANCE. <LDG>. ML 2.4 (LDG).	
05	11	40	31.9	60.750	N	149.651	W	40				34	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.7 (AEIC), 3.3 (PMR).	
05	12	12	07.1	11.513	S	165.477	E	33	N	5.2	5.0	1.1	100	SANTA CRUZ ISLANDS. Mw 5.4 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 12:12:11.9; Lat 11.68 S; Lon 165.20 E; Dep 24.9; Half- duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.36, Plg=19, Azm=110; (N) Val=-0.16, Plg=1, Azm=200; (P) Val=-1.20, Plg=71, Azm=293; Best double couple: Mo=1.3*10**17 Nm; NP1: Strike=199, Dip=26, Slip=-92; NP2: Strike=21, Dip=64, Slip=-89.														
05	12	35	27.8	11.10	S	165.38	E	33	N	4.1	1.4	7	SANTA CRUZ ISLANDS	
05	12	57	20.9	63.243	N	148.845	W	75				38	CENTRAL ALASKA. <AEIC>.	
05	13	08	17.7	32.224	N	92.859	E	33	N	3.9	0.8	5	XIZANG	
05	13	21	57.7	44.302	N	11.987	E	10	G	3.9	1.2	107	NORTHERN ITALY. ML 4.1 (VIE), 3.8 (FUR), 3.7 (STR), 3.6 (LDG), 3.5 (FBB).	
05	13	38	49.6	44.265	N	11.957	E	10	G		1.0	17	NORTHERN ITALY. ML 3.2 (VIE), 3.0 (LDG).	
05	14	10	04.6	40.792	N	31.237	E	10	G	4.0	1.2	40	TURKEY. Felt at Adapazari, Bolu and Duzce.	
05	14	10	05.3	9.179	S	109.644	E	55	*	4.7	1.4	36	SOUTH OF JAWA, INDONESIA	
05	14	14	47.4*	44.118	N	11.964	E	10	G		1.2	13	NORTHERN ITALY. ML 3.3 (VIE), 3.0 (LDG).	
05	14	44	39.1*	11.545	S	165.541	E	33	N	4.9	0.9	25	SANTA CRUZ ISLANDS	
05	15	14	57.6*	10.338	N	126.274	E	33	N	4.1	1.3	9	PHILIPPINE ISLANDS REGION	
05	15	47	20.0	16.161	N	98.396	W	20				5	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.6 (UNM).	
05	16	09	45.8	9.300	S	109.609	E	33	N	4.3	1.2	18	SOUTH OF JAWA, INDONESIA	
05	16	19	07.0	44.599	N	8.491	E	4				10	NORTHERN ITALY. <GEN>. ML 2.1 (GEN).	
05	16	31	28.5	34.525	N	116.291	W	0				28	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).	
05	17	06	51.2	11.420	S	165.310	E	33	N	4.8	3.9	0.9	45	SANTA CRUZ ISLANDS
05	17	26	06.1*	11.276	S	165.260	E	33	N	4.3	1.1	18	SANTA CRUZ ISLANDS	
05	17	55	11.4*	56.103	S	58.442	W	10	G	5.2	5.0	1.0	42	SCOTIA SEA. Mw 5.6 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 17:55:19.2; Lat 56.03 S; Lon 58.19 W; Dep 15.0 Fix; Half- duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.69, Plg=26, Azm=140; (N) Val=-0.31, Plg=55, Azm=275; (P) Val=-2.38, Plg=21, Azm=39; Best double couple: Mo=2.5*10**17 Nm; NP1: Strike=178, Dip=55, Slip=176; NP2: Strike=271, Dip=87, Slip=35.														
05	17	59	11.1	46.564	N	12.526	E	10	G		0.4	6	NORTHERN ITALY. ML 2.1 (VIE).	
05	18	26	07.5	9.195	S	109.592	E	33	N	5.5	5.5	1.2	121	SOUTH OF JAWA, INDONESIA. Mw 5.8 (HRV), 5.6 (GS).
Moment Tensor (GS): Dep 21; Principal axes (scale 10**17 Nm): (T) Val=3.53, Plg=63, Azm=15; (N) Val=-0.53, Plg=6, Azm=273; (P) Val=-3.00, Plg=26, Azm=180; Best double couple: Mo=3.3*10**17 Nm; NP1: Strike=256, Dip=20, Slip=72; NP2: Strike=95, Dip=71, Slip=97.														
Centroid, Moment Tensor (HRV): Centroid origin time 18:26:14.1; Lat 9.39 S; Lon 109.59 E; Dep 22.0 Bdy; Half- duration 1.9 sec; Principal axes (scale 10**17 Nm): (T) Val=4.66, Plg=64, Azm=1; (N) Val=1.43, Plg=5, Azm=101; (P) Val=-6.09, Plg=25, Azm=193; Best double couple: Mo=5.4*10**17 Nm; NP1: Strike=294, Dip=20, Slip=104; NP2: Strike=99, Dip=70, Slip=85.														
05	19	48	21.2*	3.335	S	133.938	E	33	N	4.0	1.2	9	IRIAN JAYA REGION, INDONESIA	
05	20	13	52.4*	10.931	S	165.547	E	33	N	4.7	1.3	28	SANTA CRUZ ISLANDS	
05	20	30	26.0?	11.35	S	165.23	E	33	N	4.6	1.3	12	SANTA CRUZ ISLANDS	
05	20	31	30.6	17.922	N	66.472	W	28				5	PUERTO RICO REGION. <RSRP>. MD 2.2 (RSRP).	
05	20	33	14.7	17.830	N	66.512	W	18				4	PUERTO RICO REGION. <RSRP>. MD 2.3 (RSRP).	
05	21	27	52.1*	9.232	S	109.571	E	33	N		1.5	11	SOUTH OF JAWA, INDONESIA	
05	22	01	15.0*	51.165	N	179.018	E	33	N	4.0	1.3	10	RAT ISLANDS, ALEUTIAN ISLANDS	
05	22	46	28.5	44.390	N	7.032	E	7				25	NORTHERN ITALY. <GEN>. ML 2.3 (GEN), 2.2 (LDG), 1.9 (STR).	
05	22	54	47.4	34.770	N	24.120	E	5				4	CRETE, GREECE. <ATH>. MD 3.3 (ATH).	
05	22	57	40.8	34.860	N	24.170	E	7				4	CRETE, GREECE. <ATH>. MD 3.3 (ATH).	
05	23	17	05.0*	23.709	N	121.188	E	33	N	4.3	1.0	15	TAIWAN. ML 4.9 (TAP). Recorded (4 TAP) at Chang-hua and (2 TAP) at Chia-i, Hua-lien and Tai-chung.	
06	00	13	51.4?	56.27	S	146.44	E	10	G	4.5	1.1	8	WEST OF MACQUARIE ISLAND	
06	00	43	49.4?	11.72	S	165.57	E	33	N	4.5	1.3	16	SANTA CRUZ ISLANDS	
06	00	43	53.3	58.492	N	154.870	W	0		2.8		36	ALASKA PENINSULA. <AEIC>. ML 3.0 (AEIC).	
06	00	50	48.4	42.686	N	7.690	W	1				7	SPAIN. <MDD>. mbLg 2.5 (MDD).	
06	00	56	17.5	2.010	N	98.041	E	33	N	5.0	1.0	69	NORTHERN SUMATERA, INDONESIA. Mw 5.1 (HRV).	
Centroid, Moment Tensor (HRV): Centroid origin time 00:56:22.2; Lat 1.40 N; Lon 97.68 E; Dep 33.5; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.43, Plg=69, Azm=140; (N) Val=1.13, Plg=3, Azm=41; (P) Val=-5.56, Plg=21, Azm=310; Best double couple: Mo=5.0*10**16 Nm; NP1: Strike=34, Dip=25, Slip=82; NP2: Strike=223, Dip=66, Slip=94.														
06	04	31	58.3	8.293	S	116.071	E	33	N	4.9	1.3	27	SUMBAWA REGION, INDONESIA. Mw 5.4 (HRV).	
Centroid, Moment Tensor (HRV): Centroid origin time														

04:32:04.2; Lat 7.74 S; Lon 116.28 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.48, Plg=36, Azm=86; (N) Val=-0.29, Plg=10, Azm=183; (P) Val=-1.18, Plg=52, Azm=287; Best double couple: Mo=1.3*10**17 Nm; NP1: Strike=132, Dip=13, Slip=-142; NP2: Strike=5, Dip=82, Slip=-80.

06 04 34 59.0& 15.633 N 95.454 W 57 8 NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 4.0 (UNM).

06 05 16 14.5 38.343 N 11.822 E 10 G 1.2 33 SICILY, ITALY. ML 3.3 (ROM).

06 05 31 11.3 5.978 S 128.597 E 311 * 4.5 0.7 15 BANDA SEA

06 08 33 43.8 42.944 N 145.447 E 33 N 4.5 1.2 31 HOKKAIDO, JAPAN REGION. Recorded (1 JMA) in eastern Hokkaido.

06 10 05 00.2& 44.048 N 8.711 E 2 12 NORTHERN ITALY. <GEN>. ML 2.5 (GEN).

06 10 32 02.7& 34.700 N 116.300 W 5 5 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.7 (PAS).

06 10 36 06.1& 46.454 N 3.502 E 20 6 FRANCE. <LDG>. ML 2.2 (LDG).

06 10 42 25.0& 58.040 N 136.870 W 1 G 5.5 5.9 376 SOUTHEASTERN ALASKA. <PGC-P>. Mw 6.1 (GS), 6.1 (HRV). Me 6.2 (GS). ML 6.1 (PGC). Felt strongly at Elfin Cove, Gustavus, Haines, Hoonah, Juneau and Sitka. Also felt at Petersburg, Skagway and Yakutat. Felt as far as Whitehorse, Yukon Territory.

Broadband Source Parameters (GS): Dep 12; NP1: Strike=345, Dip=78, Slip=-178; NP2: Strike=255, Dip=88, Slip=-12; Radiated energy 4.8*10**13 Nm.

Moment Tensor (GS): Dep 14; Principal axes (scale 10**18 Nm): (T) Val=1.38, Plg=1, Azm=117; (N) Val=0.18, Plg=85, Azm=16; (P) Val=-1.56, Plg=5, Azm=207; Best double couple: Mo=1.5*10**18 Nm; NP1: Strike=252, Dip=86, Slip=-3; NP2: Strike=342, Dip=87, Slip=-176.

Centroid, Moment Tensor (HRV): Centroid origin time 10:42:32.8; Lat 58.27 N; Lon 136.80 W; Dep 15.0 Bdy; Half-duration 2.7 sec; Principal axes (scale 10**18 Nm): (T) Val=1.46, Plg=8, Azm=297; (N) Val=0.26, Plg=62, Azm=42; (P) Val=-1.72, Plg=27, Azm=203; Best double couple: Mo=1.6*10**18 Nm; NP1: Strike=343, Dip=65, Slip=-166; NP2: Strike=247, Dip=77, Slip=-25.

06 11 07 01.0& 58.270 N 136.990 W 1 G 8 SOUTHEASTERN ALASKA. <PGC-P>. ML 3.8 (PGC), 4.0 (PMR). Felt at Juneau and Sitka.

06 11 14 18.0& 58.130 N 136.780 W 0 G 17 SOUTHEASTERN ALASKA. <PGC-P>. ML 4.1 (PGC).

06 11 19 50.8 47.218 N 146.482 E 365 4.7 0.8 140 NORTHWEST OF KURIL ISLANDS

06 11 22 16.6& 18.260 N 68.315 W 178 9 MONA PASSAGE. <RSPR>. MD 4.0 (RSPR).

06 11 36 45.0& 58.060 N 136.790 W 1 G 4.6 67 SOUTHEASTERN ALASKA. <PGC-P>. ML 4.7 (PGC), 4.8 (PMR). Felt at Hoonah, Juneau and Sitka.

06 12 42 34.1* 7.562 S 147.648 E 33 N 4.1 1.2 8 EASTERN NEW GUINEA REG., P.N.G. ML 4.6 (PMG).

06 12 55 32.0* 3.881 S 126.134 E 33 N 4.0 1.3 7 BURU, INDONESIA

06 13 14 05.9 2.519 S 140.169 E 33 N 4.5 1.1 25 NEAR NORTH COAST OF IRIAN JAYA

06 13 58 29.3? 53.09 N 167.53 W 77 ? 3.0 1.1 7 FOX ISLANDS, ALEUTIAN ISLANDS

06 14 36 05.5? 10.80 S 163.57 E 33 N 4.3 1.5 10 SOLOMON ISLANDS

06 15 00 19.7& 46.360 N 2.574 E 13 5 FRANCE. <LDG>. ML 1.3 (LDG).

06 15 51 12.4& 37.940 N 26.100 E 5 8 DODECANESE ISLANDS, GREECE. <ATH>. MD 4.0 (ATH).

06 16 14 56.9* 39.342 N 72.316 E 67 * 0.8 10 KYRGYZSTAN

06 16 26 41.0 11.000 S 165.147 E 33 N 4.8 1.0 37 SANTA CRUZ ISLANDS

06 17 54 14.1& 15.516 N 98.211 W 89 6 OFF COAST OF GUERRERO, MEXICO. <UNM>. MD 3.8 (UNM).

06 18 22 08.9 44.499 N 11.095 E 10 G 1.3 58 NORTHERN ITALY. ML 3.4 (GEN), 3.2 (LDG), 3.2 (STR), 3.2 (VIE).

06 18 29 54.7* 63.854 N 146.102 W 10 G 1.5 6 CENTRAL ALASKA

06 19 29 19.9& 34.590 N 116.268 W 0 8 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).

06 20 23 32.5 14.188 N 146.683 E 33 N 5.2 5.1 0.9 117 MARIANA ISLANDS. Mw 5.2 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 20:23:32.4; Lat 13.92 N; Lon 147.63 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.56, Plg=68, Azm=170; (N) Val=1.07, Plg=22, Azm=6; (P) Val=-6.63, Plg=5, Azm=273; Best double couple: Mo=6.1*10**16 Nm; NP1: Strike=341, Dip=44, Slip=58; NP2: Strike=202, Dip=54, Slip=117.

06 20 55 31.8* 38.002 N 78.077 E 33 N 4.1 1.4 12 SOUTHERN XINJIANG, CHINA

06 21 31 06.2* 16.095 N 119.484 E 33 N 5.8 5.9 1.5 192 LUZON, PHILIPPINES. Mw 6.2 (GS), 6.2 (HRV). Me 5.8 (GS). Felt (III RF) at Iba and Santa Cruz; (I RF) at Pasay City.

Broadband Source Parameters (GS): Dep 12; NP1: Strike=200, Dip=80, Slip=90; NP2: Strike=20, Dip=10, Slip=90; Radiated energy 1.3*10**13 Nm.

Moment Tensor (GS): Dep 4; Principal axes (scale 10**18 Nm): (T) Val=2.55, Plg=54, Azm=103; (N) Val=-0.21, Plg=6, Azm=4; (P) Val=-2.34, Plg=36, Azm=270; Best double couple: Mo=2.4*10**18 Nm; NP1: Strike=331, Dip=11, Slip=56; NP2: Strike=185, Dip=81, Slip=96.

Centroid, Moment Tensor (HRV): Centroid origin time 21:31:09.6; Lat 16.21 N; Lon 119.29 E; Dep 15.0 Bdy; Half-duration 3.0 sec; Principal axes (scale 10**18 Nm): (T) Val=2.35, Plg=62, Azm=104; (N) Val=0.00, Plg=2, Azm=10; (P) Val=-2.35, Plg=27, Azm=279; Best double couple: Mo=2.3*10**18 Nm; NP1: Strike=3, Dip=18, Slip=83; NP2: Strike=191, Dip=72, Slip=92.

06 21 37 49.7* 18.334 S 69.446 W 143 * 4.6 0.7 16 NORTHERN CHILE

06 21 38 10.9& 38.844 N 122.826 W 2 34 NORTHERN CALIFORNIA. <NC-P>. Mw 4.0 (BRK). MD 3.5 (NC). ML 3.6 (BRK).

Moment Tensor (BRK): Dep 6; Principal axes (scale 10**15 Nm): (T) Val=1.10, Plg=1, Azm=280; (N) Val=0.00, Plg=28, Azm=190; (P) Val=-1.10, Plg=62, Azm=11; Best double couple: Mo=1.1*10**15 Nm; NP1: Strike=165, Dip=52, Slip=-127; NP2: Strike=36, Dip=51, Slip=52.

06 21 56 05.3& 17.082 N 94.497 W 161 9 CHIAPAS, MEXICO. <UNM>. MD 4.2 (UNM).

07 01 08 19.2 28.210 S 67.351 W 144 D 4.8 1.1 52 LA RIOJA PROVINCE, ARGENTINA

07 01 31 18.6& 40.682 N 124.727 W 15 15 NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.5 (BRK).

07 02 15 52.6& 40.477 N 125.417 W 16 6 OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.2 (BRK).

07 03 07 24.6* 56.482 S 28.152 W 184 ? 4.5 0.8 19 SOUTH SANDWICH ISLANDS REGION

07	03	24	22.6	46.389	N	15.742	E	10	G	0.9	7	NORTHWESTERN BALKAN REGION. ML 1.8 (VIE), 1.7 (LJU).	
07	03	45	17.5	44.373	N	7.157	E	9			6	NORTHERN ITALY. <GEN>. ML 1.8 (GEN).	
07	04	27	24.0	44.040	N	8.691	E	5			9	NORTHERN ITALY. <GEN>. ML 2.1 (GEN).	
07	04	49	04.4	44.455	N	1.965	E	2			4	FRANCE. <LDG>. ML 2.1 (LDG).	
07	05	04	43.2	10.861	N	62.163	W	96			5	NEAR COAST OF VENEZUELA. <TRN>. MD 2.9 (TRN).	
07	06	05	30.3	22.056	S	178.249	W	336	?	4.7	0.9	72	SOUTH OF FIJI ISLANDS
07	06	49	29.3	43.234	N	126.562	W	10	G	2.7	1.1	20	OFF COAST OF OREGON
07	07	01	32.3	3.048	S	130.197	E	33	N	4.3	0.9	7	SERAM, INDONESIA
07	07	40	18.1	3.112	S	130.060	E	33	N	4.0	0.6	7	SERAM, INDONESIA
07	08	34	22.9	45.48	S	98.91	E	10	G	3.7	1.5	9	SOUTHEAST INDIAN RIDGE
07	09	14	59.2	21.865	S	176.626	W	160	D	4.6	0.9	49	FIJI ISLANDS REGION
07	09	31	47.9	17.956	S	178.625	W	622	?	3.9	0.8	29	FIJI ISLANDS REGION
07	09	36	36.5	40.370	N	25.340	E	10				26	AEGEAN SEA. <ATH>. MD 3.7 (ATH).
07	09	44	12.4	51.714	N	142.261	E	33	N	4.1	0.7	11	SAKHALIN ISLAND, RUSSIA
07	10	00	22.0	46.274	N	13.611	E	10	G		0.9	7	AUSTRIA. ML 2.0 (VIE), 1.4 (LJU). Felt (III) at Dreznica, Slovenia.
07	11	37	57.4	7.406	S	105.190	E	33	N		0.8	9	JAWA, INDONESIA
07	11	49	11.7	28.495	S	69.196	W	120	*	4.0	0.9	13	CHILE-ARGENTINA BORDER REGION
07	12	00	39.9	38.271	N	11.800	E	10	G	4.4	1.3	80	SICILY, ITALY. ML 3.6 (ROM).
07	12	18	49.2	38.180	N	11.571	E	10	G	3.7	1.2	15	SICILY, ITALY
07	12	30	59.6	38.170	S	176.310	E	158				16	NORTH ISLAND, NEW ZEALAND. <WEL>.
07	12	32	29.5	16.089	N	97.240	W	58				6	OAXACA, MEXICO. <UNM>. MD 3.8 (UNM).
07	13	11	09.3	18.924	N	65.880	W	52				6	PUERTO RICO REGION. <RSR>. MD 3.4 (RSR).
07	13	48	53.7	16.395	N	120.985	E	33	N		1.3	11	LUZON, PHILIPPINES
07	14	37	31.2	55.433	S	29.652	W	33	N	4.1	1.4	11	SOUTH SANDWICH ISLANDS REGION
07	16	00	02.1	15.957	N	119.459	E	33	N	4.5	1.0	18	LUZON, PHILIPPINES
07	17	56	10.8	45.035	N	6.713	E	2				21	FRANCE. <LDG>. MD 2.6 (LDG). ML 2.5 (GEN).
07	20	11	11.3	44.632	N	6.756	E	12				16	FRANCE. <GEN>. MD 2.4 (LDG). ML 2.1 (GEN).
07	21	11	27.9	34.843	N	33.037	E	10	G		0.7	8	CYPRUS REGION. MD 3.8 (ISK). ML 3.6 (CSS). Felt (III) at Limassol.
07	21	38	55.0	10.327	S	111.919	E	41	D		1.2	14	SOUTH OF JAWA, INDONESIA
07	21	45	49.2	20.820	S	178.971	W	621	?	4.7	0.8	79	FIJI ISLANDS REGION
07	22	45	22.7	17.922	N	66.456	W	5				6	PUERTO RICO REGION. <RSR>. MD 2.5 (RSR).
07	22	55	49.8	37.007	N	3.678	W	0				15	SPAIN. <MDD>. mblg 2.6 (MDD).
07	23	17	31.2	17.518	N	66.815	W	13				4	PUERTO RICO REGION. <RSR>. MD 2.5 (RSR).
07	23	37	20.1	54.326	S	55.126	W	10	G	5.2 5.3	1.1	31	FALKLAND ISLANDS REGION. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 23:37:25.8; Lat 54.63 S; Lon 55.49 W; Dep 15.0 Fix; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.64, Plg=26, Azm=134; (N) Val=1.03, Plg=43, Azm=251; (P) Val=-2.67, Plg=36, Azm=24; Best double couple: Mo=2.2*10**17 Nm; NP1: Strike=173, Dip=43, Slip=-171; NP2: Strike=77, Dip=84, Slip=-47.
07	23	48	31.7	36.850	N	4.117	W	58				8	STRAIT OF GIBRALTAR. <MDD>.
08	00	04	58.9	17.059	N	100.701	W	8				18	GUERRERO, MEXICO. <UNM>. MD 4.2 (UNM).
08	00	52	23.6	52.502	S	27.994	E	10	G	4.8	1.1	22	SOUTH OF AFRICA
08	01	07	53.7	63.458	N	150.586	W	12				48	CENTRAL ALASKA. <AEIC>. ML 2.8 (AEIC), 3.4 (PMR).
08	01	19	46.6	9.805	S	159.811	E	33	N	5.8 6.4	1.3	151	SOLOMON ISLANDS. Mw 6.4 (HRV), 6.3 (GS). Me 6.3 (GS). Slight damage (VI) at Honiara. Broadband Source Parameters (GS): Dep 11; NP1: Strike=174, Dip=85, Slip=140; NP2: Strike=268, Dip=50, Slip=7; Radiated energy 7.0*10**13 Nm. Moment Tensor (GS): Dep 10; Principal axes (scale 10**18 Nm): (T) Val=3.14, Plg=18, Azm=121; (N) Val=0.10, Plg=60, Azm=356; (P) Val=-3.24, Plg=23, Azm=219; Best double couple: Mo=3.2*10**18 Nm; NP1: Strike=259, Dip=60, Slip=-3; NP2: Strike=351, Dip=87, Slip=-150. Centroid, Moment Tensor (HRV): Centroid origin time 01:19:51.1; Lat 9.78 S; Lon 159.99 E; Dep 15.0 Fix; Half-duration 3.8 sec; Principal axes (scale 10**18 Nm): (T) Val=5.00, Plg=28, Azm=123; (N) Val=-0.63, Plg=50, Azm=353; (P) Val=-4.37, Plg=26, Azm=228; Best double couple: Mo=4.7*10**18 Nm; NP1: Strike=266, Dip=50, Slip=2; NP2: Strike=175, Dip=88, Slip=140.
08	01	56	15.8	14.942	S	166.846	E	33	N	5.2	1.0	151	VANUATU ISLANDS
08	01	58	56.3	14.801	S	166.766	E	33	N	4.2	1.1	26	VANUATU ISLANDS
08	02	01	06.7	44.771	N	6.679	E	9				5	FRANCE. <GEN>. ML 1.7 (GEN).
08	02	17	31.4	40.503	N	126.497	W	25		5.1		218	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. Mw 5.4 (BRK). ML 5.4 (BRK). Moment Tensor (BRK): Dep 4; Principal axes (scale 10**17 Nm): (T) Val=1.20, Plg=21, Azm=50; (N) Val=0.00, Plg=1, Azm=320; (P) Val=-1.20, Plg=69, Azm=228; Best double couple: Mo=1.2*10**17 Nm; NP1: Strike=320, Dip=66, Slip=-91; NP2: Strike=142, Dip=24, Slip=-88.
08	02	21	16.0	34.542	N	78.468	E	36	*	4.7	1.0	41	KASHMIR-XIZANG BORDER REGION
08	02	30	13.9	18.608	N	120.403	E	54	*	4.0	1.2	11	LUZON, PHILIPPINES
08	02	38	19.2	14.55	S	166.93	E	213	?	4.6	1.1	22	VANUATU ISLANDS
08	02	44	56.4	20.971	S	169.704	E	33	N		1.3	8	VANUATU ISLANDS
08	03	09	12.4	1.85	N	129.18	E	33	N		1.4	8	HALMAHERA, INDONESIA
08	03	44	54.3	6.746	S	105.646	E	62		5.5	1.0	154	SUNDA STRAIT, INDONESIA. Mw 5.6 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 03:44:57.0; Lat 6.72 S; Lon 105.51 E; Dep 71.9; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=2.52, Plg=3, Azm=265; (N) Val=-0.14, Plg=24, Azm=357; (P) Val=-2.39, Plg=66, Azm=169; Best double couple: Mo=2.5*10**17 Nm; NP1: Strike=332, Dip=47, Slip=-124; NP2: Strike=197, Dip=52, Slip=-59.
08	03	58	38.8	44.921	N	7.224	E	13				18	NORTHERN ITALY. <GEN>. MD 2.5 (LDG). ML 2.3 (GEN).
08	04	43	00.8	52.68	N	172.80	W	33	N	3.7	0.8	12	ANDREANOF ISLANDS, ALEUTIAN IS.
08	06	03	08.2	16.12	N	145.50	E	395	*	3.7	1.3	9	MARIANA ISLANDS
08	06	26	31.4	11.398	S	116.998	E	33	N	5.4 4.9	1.1	134	SOUTH OF SUMBAWA, INDONESIA. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 06:26:35.8; Lat 11.46 S; Lon 117.39 E; Dep 33.0 Fix; Half-

duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.21, Plg=3, Azm=11; (N) Val=-0.33, Plg=24, Azm=102; (P) Val=-0.89, Plg=66, Azm=274; Best double couple: Mo=1.0*10**17 Nm; NP1: Strike=78, Dip=47, Slip=-123; NP2: Strike=302, Dip=52, Slip=-60.

08 07 05 01.5* 15.577 S 167.837 E 33 N 4.5 0.6 9 VANUATU ISLANDS

08 08 26 09.6* 43.058 N 25.478 E 10 G 1.2 9 BULGARIA

08 08 46 54.4* 37.520 N 21.640 E 2 7 SOUTHERN GREECE. <ATH>. MD 3.3 (ATH).

08 09 43 02.8* 4.114 N 122.394 E 620 * 4.6 0.6 12 CELEBES SEA

08 09 49 06.9* 16.905 N 101.044 W 32 14 NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.9 (UNM).

08 10 23 09.0* 14.106 N 124.943 E 33 N 1.0 9 LUZON, PHILIPPINES

08 10 34 06.7* 51.742 N 104.825 E 10 G 3.7 1.3 7 LAKE BAYKAL REGION, RUSSIA. Felt (II) at Listvyanka and Yelantsy.

08 11 06 27.8* 40.691 N 31.423 E 9 5 TURKEY. <ISK>. MD 3.2 (ISK). Felt at Bolu and Duzce.

08 11 16 34.3* 37.940 N 23.650 E 10 3.2 10 SOUTHERN GREECE. <ATH>. MD 3.5 (ATH).

08 11 28 12.1* 39.380 N 21.020 E 7 7 GREECE. <ATH>. MD 3.1 (ATH).

08 11 43 58.1 31.017 S 71.339 W 73 D 4.4 0.9 22 NEAR COAST OF CENTRAL CHILE. MD 4.6 (GUC).

08 11 49 00.4* 40.457 N 29.137 E 0 7 TURKEY. <ISK>. MD 3.0 (ISK). Felt at Gemlik.

08 11 59 21.8 23.169 S 70.122 W 36 G 5.8 5.9 1.1 265 NEAR COAST OF NORTHERN CHILE. Mw 6.4 (GS), 6.4 (HRV). Me 6.1 (GS). Temporary power outages in parts of Calama. Felt in much of northern Chile.

Broadband Source Parameters (GS): Dep 36; NP1: Strike=175, Dip=70, Slip=90; NP2: Strike=355, Dip=20, Slip=90; Radiated energy 2.7*10**13 Nm. Two events about 3 seconds apart. Depth based on first event.

Moment Tensor (GS): Dep 36; Principal axes (scale 10**18 Nm): (T) Val=3.84, Plg=70, Azm=68; (N) Val=0.39, Plg=2, Azm=165; (P) Val=-4.23, Plg=20, Azm=256; Best double couple: Mo=4.0*10**18 Nm; NP1: Strike=350, Dip=26, Slip=95; NP2: Strike=164, Dip=65, Slip=87.

Centroid, Moment Tensor (HRV): Centroid origin time 11:59:31.5; Lat 23.21 S; Lon 70.66 W; Dep 41.0 Bdy; Half-duration 4.1 sec; Principal axes (scale 10**18 Nm): (T) Val=3.92, Plg=63, Azm=73; (N) Val=0.25, Plg=3, Azm=168; (P) Val=-4.17, Plg=27, Azm=259; Best double couple: Mo=4.1*10**18 Nm; NP1: Strike=356, Dip=18, Slip=98; NP2: Strike=167, Dip=72, Slip=87.

08 12 34 20.8* 14.484 N 56.334 E 10 G 4.7 0.9 17 OWEN FRACTURE ZONE REGION

08 12 34 58.7* 14.390 N 56.407 E 10 G 0.7 11 OWEN FRACTURE ZONE REGION

08 12 54 22.7* 58.533 N 143.689 W 0 32 GULF OF ALASKA. <AEIC>. ML 2.8 (AEIC), 3.0 (PGC).

08 13 01 48.5 13.105 S 168.707 E 656 ? 4.3 0.7 50 VANUATU ISLANDS

08 13 12 55.0* 9.544 N 85.829 W 20 3.8 13 OFF COAST OF COSTA RICA. <CASC>. MD 4.2 (CASC).

08 14 21 02.3* 14.571 N 60.242 W 30 5 WINDWARD ISLANDS. <PDF>.

08 14 21 31.6* 45.477 N 5.441 E 2 27 FRANCE. <LDG>. ML 2.8 (LDG).

08 14 29 55.3* 44.284 N 7.380 E 13 14 NORTHERN ITALY. <GEN>. ML 2.0 (GEN), 2.0 (LDG).

08 14 31 38.5* 34.845 N 116.355 W 5 8 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).

08 14 43 37.6* 44.269 N 7.369 E 14 6 NORTHERN ITALY. <GEN>. ML 1.8 (GEN).

08 14 55 29.0* 21.099 S 169.871 E 78 D 4.3 0.9 17 SOUTHEAST OF LOYALTY ISLANDS

08 15 07 42.7 5.030 S 144.639 E 75 * 4.1 0.7 17 NEW GUINEA, PAPUA NEW GUINEA

08 15 20 59.9* 23.637 S 88.195 E 10 G 4.4 0.6 14 SOUTH INDIAN OCEAN

08 15 51 42.3* 44.281 N 7.373 E 14 14 NORTHERN ITALY. <GEN>. ML 2.1 (GEN), 1.9 (STR).

08 15 52 48.7* 44.267 N 7.374 E 14 5 NORTHERN ITALY. <GEN>. ML 1.7 (GEN).

08 16 29 24.8* 5.199 S 152.775 E 33 N 4.3 1.1 13 NEW BRITAIN REGION, P.N.G.

08 16 38 21.0 46.694 N 10.358 E 10 G 0.9 23 NORTHERN ITALY. ML 2.4 (LDG), 2.3 (VIE).

08 16 47 20.5 16.925 S 174.248 W 183 D 6.5 6.6 1.3 396 TONGA ISLANDS. Mw 7.2 (GS), 7.2 (HRV). Me 7.0 (GS). Felt (V) at Afiamalu and (III) at Apia, Samoa. Also felt on Tutuila, American Samoa.

Broadband Source Parameters (GS): Dep 155; NP1: Strike=181, Dip=90, Slip=-90; NP2: Strike=135, Dip=0, Slip=0; Radiated energy 6.8*10**14 Nm. Complex earthquake. A small event is followed by a much larger one about 6 seconds later. Depth based on first event.

Moment Tensor (GS): Dep 153; Principal axes (scale 10**19 Nm): (T) Val=6.02, Plg=43, Azm=285; (N) Val=0.18, Plg=12, Azm=183; (P) Val=-6.20, Plg=44, Azm=81; Best double couple: Mo=6.1*10**19 Nm; NP1: Strike=91, Dip=12, Slip=-2; NP2: Strike=183, Dip=90, Slip=-102.

Centroid, Moment Tensor (HRV): Centroid origin time 16:47:30.2; Lat 16.84 S Fix; Lon 173.81 W Fix; Dep 162.4; Half-duration 9.7 sec; Principal axes (scale 10**19 Nm): (T) Val=7.22, Plg=43, Azm=280; (N) Val=-0.69, Plg=8, Azm=182; (P) Val=-6.53, Plg=46, Azm=84; Best double couple: Mo=6.9*10**19 Nm; NP1: Strike=79, Dip=8, Slip=-13; NP2: Strike=182, Dip=88, Slip=-98.

08 16 51 03.2* 42.364 N 19.467 E 19 8 NORTHWESTERN BALKAN REGION. <PDG>. MD 1.3 (PDG).

08 17 01 43.5* 44.842 N 7.255 E 11 4 NORTHERN ITALY. <GEN>. ML 1.5 (GEN).

08 17 23 58.9* 49.864 N 18.467 E 10 G 0.6 11 CZECH AND SLOVAK REPUBLICS. ML 3.3 (CLL), 3.0 (VIE).

08 18 36 31.7* 61.693 N 150.609 W 46 36 SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).

08 19 06 15.4 5.021 S 144.527 E 71 4.9 0.9 66 NEW GUINEA, PAPUA NEW GUINEA

08 19 21 13.1* 41.875 N 20.121 E 12 10 ALBANIA. <PDG>. MD 2.3 (PDG).

08 19 43 06.0* 3.339 S 143.152 E 33 N 4.4 0.6 7 NEAR N COAST OF NEW GUINEA, PNG.

08 20 23 04.8* 43.092 N 0.719 W 2 33 PYRENEES. <LDG>. ML 3.0 (LDG), 2.9 (STR). mbLg 2.6 (MDD). Felt (IV) in the Arette area, France.

08 20 36 01.0* 34.706 N 116.366 W 2 30 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).

08 21 04 31.4* 42.291 N 0.248 W 2 34 PYRENEES. <LDG>. ML 3.0 (STR), 2.9 (LDG). mbLg 2.6 (MDD).

08 22 11 29.2* 37.004 N 3.708 W 2 8 SPAIN. <MDD>. mbLg 2.1 (MDD).

08 22 15 27.6* 44.501 N 7.282 E 11 5 NORTHERN ITALY. <GEN>. ML 1.6 (GEN).

08 22 43 37.0* 42.100 N 110.340 W 12 18 WYOMING. <SLC-P>. ML 3.2 (SLC), 2.7 (GS).

08 23 09 52.4 43.710 N 21.150 E 10 G 0.7 31 NORTHWESTERN BALKAN REGION. MD 3.4 (PDG). ML 3.1 (SKO).

08 23 18 36.4* 2.244 N 125.619 E 121 * 4.3 0.7 11 TALAUD ISLANDS, INDONESIA

08 23 27 14.2* 31.048 S 179.488 W 300 G 3.8 0.5 12 KERMADEC ISLANDS REGION

08 23 53 03.7? 0.08 S 123.01 E 33 N 1.4 5 MINAHASSA PENINSULA, SULAWESI

09 00 44 29.5 63.193 N 151.536 W 33 N 1.1 12 CENTRAL ALASKA. ML 3.0 (PMR).

09	01	40	15.3?	45.41	N	143.06	E	301 ?	4.2	0.6	9	HOKKAIDO, JAPAN REGION
09	01	44	29.0&	60.390	N	147.700	W	19			13	SOUTHERN ALASKA. <AEIC>. ML 3.3 (AEIC), 3.6 (PMR).
09	01	58	39.6*	5.983	S	147.446	E	111 *	4.2	0.9	12	EASTERN NEW GUINEA REG., P.N.G.
09	02	24	12.0&	17.941	N	67.002	W	29			8	MONA PASSAGE. <RSPR>. MD 3.1 (RSPR).
09	03	01	01.7	10.621	S	111.820	E	33 N	4.6	1.4	15	SOUTH OF JAWA, INDONESIA
09	03	14	00.1&	41.551	N	20.121	E	5			20	ALBANIA. <PDG>. MD 3.4 (PDG). ML 3.2 (ROM), 2.9 (SKO).
09	03	58	36.7&	59.867	N	152.223	W	88			7	SOUTHERN ALASKA. <AEIC>.
09	04	02	23.6	37.280	N	141.515	E	56	5.1 4.8	0.7	190	NEAR EAST COAST OF HONSHU, JAPAN. Mw 5.4 (HRV). Recorded (3 JMA) in eastern Fukushima and northern Miyagi Prefectures. Recorded (1 JMA) from southern Aomori Prefecture to the Tokyo area. Centroid, Moment Tensor (HRV): Centroid origin time 04:02:25.6; Lat 37.21 N; Lon 142.04 E; Dep 33.5; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.15, Plg=65, Azm=274; (N) Val=0.24, Plg=6, Azm=17; (P) Val=-1.39, Plg=24, Azm=109; Best double couple: Mo=1.3*10**17 Nm; NP1: Strike=212, Dip=21, Slip=107; NP2: Strike=14, Dip=70, Slip=84.
09	04	21	47.9*	47.869	N	128.985	W	10 G		1.1	16	OFF COAST OF WASHINGTON. ML 3.1 (PGC).
09	04	33	27.5&	39.490	S	177.380	E	33 N			6	OFF E. COAST OF N. ISLAND, N.Z. <WEL>. ML 4.0 (WEL).
09	05	09	55.8&	34.676	N	116.347	W	3			27	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
09	05	14	31.0&	44.011	N	7.466	E	9			19	NORTHERN ITALY. <GEN>. ML 2.0 (GEN), 2.0 (LDG).
09	05	50	38.4&	18.771	N	67.253	W	68			9	MONA PASSAGE. <RSPR>. MD 3.2 (RSPR).
09	06	09	45.5*	17.899	S	178.340	W	550 G	3.8	0.9	17	FIJI ISLANDS REGION
09	06	47	20.9&	38.050	N	23.610	E	5			10	GREECE. <ATH>. MD 3.1 (ATH).
09	07	07	15.3&	34.748	N	33.097	E	10			6	CYPRUS REGION. <CSS>. ML 2.7 (CSS).
09	07	12	05.2&	44.828	N	7.236	E	16			11	NORTHERN ITALY. <GEN>. ML 2.2 (GEN).
09	07	59	07.2?	11.58	N	88.04	W	33 N	4.1	1.3	10	OFF COAST OF CENTRAL AMERICA. MD 4.3 (CASC).
09	08	24	06.4&	34.734	N	33.001	E	15			6	CYPRUS REGION. <CSS>. ML 2.6 (CSS).
09	08	43	06.5&	8.459	N	82.841	W	10			6	PANAMA-COSTA RICA BORDER REGION. <UPA>. MD 3.5 (UPA).
09	09	02	23.8&	16.079	N	95.443	W	98			5	OAXACA, MEXICO. <UNM>. MD 3.9 (UNM).
09	09	42	00.3	51.035	N	157.225	E	77	4.4	1.0	41	NEAR EAST COAST OF KAMCHATKA
09	10	11	04.9	19.532	S	68.742	W	129 D	4.4	1.1	48	CHILE-BOLIVIA BORDER REGION
09	10	22	39.1&	37.920	N	23.790	E	17			9	SOUTHERN GREECE. <ATH>. MD 3.1 (ATH).
09	10	48	30.5	2.476	S	140.350	E	10 G	5.5 5.4	0.9	126	NEAR NORTH COAST OF IRIAN JAYA. Mw 5.5 (GS), 5.5 (HRV). Felt at Sentani. Moment Tensor (GS): Dep 6; Principal axes (scale 10**17 Nm): (T) Val=2.12, Plg=30, Azm=233; (N) Val=0.21, Plg=19, Azm=132; (P) Val=-2.33, Plg=53, Azm=15; Best double couple: Mo=2.2*10**17 Nm; NP1: Strike=6, Dip=23, Slip=34; NP2: Strike=128, Dip=78, Slip=-109. Centroid, Moment Tensor (HRV): Centroid origin time 10:48:34.4; Lat 3.03 S; Lon 140.00 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.83, Plg=39, Azm=227; (N) Val=0.20, Plg=1, Azm=318; (P) Val=-2.03, Plg=51, Azm=49; Best double couple: Mo=1.9*10**17 Nm; NP1: Strike=307, Dip=6, Slip=-100; NP2: Strike=138, Dip=84, Slip=-89.
09	11	27	19.7&	15.407	N	94.771	W	19			5	NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 3.9 (UNM).
09	11	40	32.0*	37.893	S	73.433	W	33 N	4.3	1.1	17	NEAR COAST OF CENTRAL CHILE
09	12	07	31.5*	36.426	N	70.308	E	230 D	3.7	1.3	11	HINDU KUSH REGION, AFGHANISTAN
09	12	20	05.3	46.560	N	10.343	E	5 G		0.8	29	NORTHERN ITALY. ML 2.8 (STR), 2.5 (FBB), 2.4 (VIE), 2.4 (LDG).
09	12	32	05.1&	44.753	N	8.368	E	2			31	NORTHERN ITALY. <GEN>. ML 2.8 (GEN), 2.6 (LDG), 2.2 (STR).
09	12	33	28.6&	44.751	N	8.375	E	0			23	NORTHERN ITALY. <GEN>. ML 2.4 (GEN), 2.4 (LDG), 2.0 (STR).
09	13	58	43.5&	44.920	N	15.010	E	6			5	NORTHWESTERN BALKAN REGION. <ZAG>. ML 2.3 (VIE).
09	15	05	43.5	2.097	S	139.199	E	10 G	4.0	0.8	17	NEAR NORTH COAST OF IRIAN JAYA
09	16	00	48.0&	34.699	N	33.134	E	15			6	CYPRUS REGION. <CSS>. ML 2.6 (CSS).
09	16	52	17.6&	34.632	N	33.196	E	5			7	CYPRUS REGION. <CSS>.
09	17	24	47.4?	4.93	N	127.94	E	33 N		1.1	5	TALAUD ISLANDS, INDONESIA
09	18	19	45.1*	30.971	N	95.457	E	33 N	3.6	0.4	8	XIZANG
09	18	24	07.9*	49.446	S	116.885	E	10 G	4.5 4.4	1.0	33	WESTERN INDIAN-ANTARCTIC RIDGE
09	19	05	28.2&	46.996	N	0.528	E	2			17	FRANCE. <LDG>. ML 2.8 (LDG).
09	19	07	42.8	11.043	S	165.279	E	33 N	5.2 5.0	1.0	80	SANTA CRUZ ISLANDS. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 19:07:45.1; Lat 11.12 S; Lon 164.97 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.94, Plg=35, Azm=355; (N) Val=1.80, Plg=49, Azm=137; (P) Val=-6.74, Plg=20, Azm=251; Best double couple: Mo=5.8*10**16 Nm; NP1: Strike=28, Dip=50, Slip=168; NP2: Strike=126, Dip=81, Slip=40.
09	19	30	49.9&	44.817	N	7.990	E	16			9	NORTHERN ITALY. <GEN>. ML 2.0 (GEN).
09	19	34	27.7&	37.529	N	118.819	W	6			17	CALIFORNIA-NEVADA BORDER REGION. <NC-P>. MD 3.2 (NC). ML 3.0 (BRK).
09	19	49	33.8&	43.090	N	0.290	W	2 G			4	PYRENEES. <STR>. ML 2.3 (STR), 1.8 (LDG).
09	20	15	00.4*	8.263	N	126.603	E	76 *	4.3	1.0	23	MINDANAO, PHILIPPINES
09	21	07	29.1&	43.823	N	8.544	E	1			14	CORSICA, FRANCE. <GEN>. ML 2.1 (GEN), 1.9 (LDG).
09	21	27	15.4&	41.100	S	174.680	E	52			12	COOK STRAIT, NEW ZEALAND. <WEL>. Felt at Wellington on the North Island.
09	21	54	40.4	18.823	S	174.370	E	33 N	5.6 6.4	1.0	208	FIJI ISLANDS REGION. Mw 6.5 (GS), 6.4 (HRV). Me 6.9 (GS). Broadband Source Parameters (GS): NP1: Strike=153, Dip=90, Slip=168; NP2: Strike=243, Dip=78, Slip=0; Radiated energy 4.5*10**14 Nm. Moment Tensor (GS): Dep 22; Principal axes (scale 10**18 Nm): (T) Val=5.73, Plg=7, Azm=292; (N) Val=-0.12, Plg=79, Azm=157; (P) Val=-5.61, Plg=8, Azm=23; Best double couple: Mo=5.7*10**18 Nm; NP1: Strike=67, Dip=79, Slip=0; NP2: Strike=157, Dip=90, Slip=-169. Centroid, Moment Tensor (HRV): Centroid origin time 21:54:44.8; Lat 18.78 S; Lon 174.52 E; Dep 17.7; Half-duration 3.8 sec; Principal axes (scale 10**18 Nm): (T) Val=4.89, Plg=5, Azm=274; (N) Val=-0.09, Plg=83, Azm=143; (P) Val=-4.80, Plg=6, Azm=5; Best double couple:

Mo=4.8*10**18 Nm; NP1: Strike=49, Dip=83, Slip=0; NP2: Strike=139, Dip=90, Slip=-173.

14 SOUTHERN ALASKA. <AEIC>.

30 OFF COAST OF JALISCO, MEXICO

25 NORTHERN ITALY. <GEN>. ML 2.3 (GEN), 2.1 (LDG), 2.0 (STR).

0.7 68 FIJI ISLANDS REGION

11 GERMANY. <LDG>. ML 2.4 (LDG). Mining induced event in the Lorraine region, France.

6 SPAIN. <LDG>. ML 2.3 (LDG).

11 NORTHERN ITALY. <GEN>. ML 2.0 (GEN), 1.6 (LDG).

51 SOUTHERN ALASKA. <AEIC>. ML 3.2 (AEIC).

7 NORTHERN ITALY. <GEN>. ML 1.8 (GEN).

0.9 126 OAXACA, MEXICO. MD 4.9 (UNM).

0.6 13 TURKEY. MD 3.7 (ATH).

0.7 92 FIJI ISLANDS REGION. Mw 5.4 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 03:07:48.4; Lat 21.94 S; Lon 176.27 W; Dep 168.1; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.00, Plg=22, Azm=128; (N) Val=0.31, Plg=35, Azm=22; (P) Val=-1.31, Plg=47, Azm=243; Best double couple: Mo=1.2*10**17 Nm; NP1: Strike=262, Dip=39, Slip=-24; NP2: Strike=11, Dip=75, Slip=-126.

1.2 14 KERMADEC ISLANDS REGION

6 NORTHERN ITALY. <GEN>. ML 1.7 (GEN).

89 SWITZERLAND. <GEN>. ML 3.3 (LDG), 3.3 (VIE), 3.2 (GEN), 3.1 (STR), 2.9 (FBB).

4 FRANCE. <STR>. ML 2.4 (STR).

1.5 14 SOUTH OF KERMADEC ISLANDS

1.0 24 NEAR NORTH COAST OF IRIAN JAYA

1.1 45 CENTRAL BOLIVIA

1.0 47 CHIAPAS, MEXICO. MD 4.6 (UNM).

1.0 12 EASTERN HONSHU, JAPAN. Recorded (2 JMA) in northern Miyagi and (1 JMA) in southern Akita, southern Iwate and northern Yamagata Prefectures.

73 CENTRAL ALASKA. <AEIC>.

1.5 19 SOUTHERN IRAN

1.2 9 SANTA CRUZ ISLANDS REGION

0.6 13 TONGA ISLANDS

0.8 17 TONGA ISLANDS

1.0 13 LUZON, PHILIPPINES

1.0 34 SANTA CRUZ ISLANDS

0.9 20 SANTA CRUZ ISLANDS

6 CYPRUS REGION. <CSS>. ML 3.0 (CSS).

15 PYRENEES. <LDG>. ML 2.4 (LDG), 2.2 (STR).

0.6 30 OFF COAST OF OREGON

0.7 13 TONGA ISLANDS

0.9 9 MARIANA ISLANDS

0.9 6 ZIMBABWE

4 IONIAN SEA. <ATH>. MD 3.0 (ATH).

9 SOUTHERN GREECE. <ATH>. MD 3.2 (ATH).

9 PYRENEES. <LDG>. ML 2.5 (LDG), 2.3 (STR).

0.9 326 BONIN ISLANDS, JAPAN REGION. Mw 5.7 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 16:40:46.1; Lat 27.33 N; Lon 140.29 E; Dep 454.4; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=3.48, Plg=4, Azm=51; (N) Val=0.80, Plg=26, Azm=142; (P) Val=-4.28, Plg=63, Azm=313; Best double couple: Mo=3.9*10**17 Nm; NP1: Strike=115, Dip=47, Slip=-127; NP2: Strike=344, Dip=54, Slip=-57.

0.9 14 FIJI ISLANDS REGION

1.5 13 MINDANAO, PHILIPPINES

0.5 7 VANUATU ISLANDS

1.2 54 REYKJANES RIDGE

1.1 34 FIJI ISLANDS REGION

1.5 14 SOUTHEAST OF HONSHU, JAPAN

5 FRANCE. <GEN>. ML 1.7 (GEN).

1.2 7 NORTHEAST OF TAIWAN

11 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).

1.1 8 WESTERN AUSTRALIA

0.9 48 TONGA ISLANDS

53 NORTHERN CALIFORNIA. <NC-P>. Mw 4.4 (BRK). ML 4.3 (NC), 4.3 (BRK). Felt in Sonoma County.

Moment Tensor (BRK): Dep 5; Principal axes (scale 10**15 Nm): (T) Val=3.80, Plg=2, Azm=313; (N) Val=0.00, Plg=55, Azm=45; (P) Val=-3.80, Plg=35, Azm=222; Best double couple: Mo=3.8*10**15 Nm; NP1: Strike=262, Dip=67, Slip=-27; NP2: Strike=3, Dip=65, Slip=-155.

0.4 11 E. RUSSIA-N.E. CHINA BORDER REG.

4 NEAR COAST OF NORTHERN CALIF. <NC-P>. MD 2.9 (NC).

29 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).

1.4 10 OFF COAST OF SOUTHERN CHILE

6 CYPRUS REGION. <CSS>. ML 2.7 (CSS).

6 PYRENEES. <LDG>. ML 2.3 (STR), 1.9 (LDG).

37 GREECE. ML 4.1 (ATH).

8 SICILY, ITALY. <ROM>. ML 3.0 (ROM).

63 KODIAK ISLAND REGION, ALASKA. <AEIC>.

1.0 15 XIZANG

18 AEGEAN SEA. <ATH>. ML 3.3 (ATH).

1.0 12 TONGA ISLANDS

0.6 11 POLAND. ML 3.3 (VIE).

0.9 55 TONGA ISLANDS REGION

15 NEW MADRID, MISSOURI REGION. <CERI>. mbLg 2.6 (GS).

1.0 16 MINDANAO, PHILIPPINES

11	13	16	34.4	30.747	S	71.319	W	79	*	4.5	1.1	39	NEAR COAST OF CENTRAL CHILE. MD 4.7 (GUC). Felt (IV) at Hurtado and Ovalle; (II) at Combarbala and Monte Patria.
11	13	21	10.5&	48.310	N	8.230	E	2	G			4	GERMANY. <STR>. ML 1.6 (STR).
11	13	24	07.7	9.252	N	126.792	E	33	N	4.2	1.1	19	MINDANAO, PHILIPPINES
11	14	19	52.0&	38.768	N	122.913	W	7		3.6		54	NORTHERN CALIFORNIA. <NC-P>. Mw 4.6 (BRK). ML 4.3 (NC), 4.4 (BRK). Felt at Calistoga, Cloverdale and Healdsburg.
													Moment Tensor (BRK): Dep 5; Principal axes (scale 10**15 Nm): (T) Val=9.57, Plg=0, Azm=315; (N) Val=0.00, Plg=54, Azm=46; (P) Val=-9.57, Plg=36, Azm=225; Best double couple: Mo=9.6*10**15 Nm; NP1: Strike=264, Dip=66, Slip=-28; NP2: Strike=6, Dip=65, Slip=-153.
11	14	51	49.9?	32.12	S	179.80	W	300	G	4.6	1.5	15	SOUTH OF KERMADEC ISLANDS
11	16	39	25.8&	38.030	S	176.250	E	183				13	NORTH ISLAND, NEW ZEALAND. <WEL>.
11	16	44	05.5&	45.812	N	6.995	E	3				41	FRANCE. <GEN>. ML 2.7 (LDG), 2.6 (GEN), 2.6 (STR).
11	17	14	52.5&	38.970	N	23.770	E	36				16	GREECE. <ATH>. MD 3.2 (ATH).
11	17	58	00.1*	40.857	N	20.617	E	10	G		0.8	12	GREECE-ALBANIA BORDER REGION. MD 2.9 (PDG). ML 2.9 (SKO).
11	20	05	53.7*	11.185	S	165.297	E	33	N	4.2	1.2	14	SANTA CRUZ ISLANDS
11	20	21	36.4&	37.153	N	3.221	W	0	G			8	SPAIN. <MDD>. mbLg 1.8 (MDD).
11	20	33	31.5	46.496	N	10.363	E	10	G		1.0	10	NORTHERN ITALY. ML 2.0 (VIE).
11	22	28	08.2	16.834	N	122.452	E	33	N	4.9	1.0	54	LUZON, PHILIPPINES
11	22	43	44.8&	59.911	N	153.094	W	125				39	SOUTHERN ALASKA. <AEIC>.
11	23	43	56.4	40.498	N	122.994	E	10	G	4.9	1.2	67	NORTHEASTERN CHINA. Mw 5.1 (HRV). Thirty people injured, 3,600 housing units destroyed and 8,800 housing units damaged in Liaoning Province. Felt at Anshan, Dandong, Liaoyang, Panjin and Shenyang.
													Centroid, Moment Tensor (HRV): Centroid origin time 23:43:58.1; Lat 40.36 N; Lon 123.11 E; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**16 Nm): (T) Val=5.81, Plg=30, Azm=352; (N) Val=-1.77, Plg=43, Azm=114; (P) Val=-4.05, Plg=33, Azm=240; Best double couple: Mo=4.9*10**16 Nm; NP1: Strike=27, Dip=43, Slip=-178; NP2: Strike=295, Dip=88, Slip=-47.
11	23	52	05.5?	17.45	S	178.84	W	500	G	4.0	1.0	15	FIJI ISLANDS REGION
12	02	09	47.0	36.389	N	140.626	E	69	*	4.9	0.8	26	NEAR EAST COAST OF HONSHU, JAPAN. Recorded (3 JMA) in Ibaraki and southern Fukushima Prefectures.
12	02	20	38.6&	11.742	N	43.145	E	8				4	ETHIOPIA. <ARO>. ML 3.2 (ARO).
12	03	17	23.6*	23.290	N	121.362	E	33	N	3.9	0.9	9	TAIWAN
12	03	25	05.5	47.134	N	10.242	E	10	G		1.0	23	AUSTRIA. ML 2.5 (VIE), 2.5 (STR), 2.4 (FBB), 2.2 (FUR). Felt (IV) at Klosterle.
12	03	50	43.5&	37.870	N	23.760	E	184		3.2		51	SOUTHERN GREECE. <ATH>.
12	05	47	52.8*	24.316	N	120.623	E	33	N	3.6	1.0	5	TAIWAN. Recorded (3 TAP) in southwestern I-lan County and (1 TAP) at Chang-hua, Hua-lien and Tai-chung.
12	06	24	55.0&	59.912	N	152.418	W	85				44	SOUTHERN ALASKA. <AEIC>.
12	06	55	17.3&	16.230	N	98.181	W	7				6	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.7 (UNM).
12	07	01	51.5?	29.21	N	130.23	E	51	D	4.6	1.4	10	RYUKYU ISLANDS, JAPAN. Recorded (1 JMA) on Nakano-shima.
12	07	12	26.1&	43.643	N	7.867	E	22				6	NEAR SOUTH COAST OF FRANCE. <GEN>. ML 2.0 (GEN).
12	08	48	01.1	45.120	N	14.862	E	10	G		0.9	14	NORTHWESTERN BALKAN REGION. ML 3.2 (VIE).
12	09	14	45.7*	85.992	N	34.021	E	10	G	4.2	0.7	9	NORTH OF SVALBARD
12	09	22	18.8&	44.344	N	7.402	E	12				5	NORTHERN ITALY. <GEN>. ML 1.7 (GEN).
12	10	31	23.2*	39.055	N	17.095	E	10	G	4.1	1.1	21	SOUTHERN ITALY. MD 3.5 (PDG).
12	10	40	08.4&	37.950	S	176.030	E	5				6	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.5 (WEL). Felt at Tauranga.
12	10	53	26.8*	3.097	S	142.187	E	33	N	4.5	1.5	14	NEAR N COAST OF NEW GUINEA, PNG.
12	11	37	02.7&	41.892	N	20.444	E	10				11	ALBANIA. <PDG>. ML 2.4 (SKO). MD 2.2 (PDG).
12	11	43	49.5&	15.851	N	61.332	W	48				5	LEEWARD ISLANDS. <PDF>. MG 2.6 (PDF).
12	12	05	37.9*	73.644	N	8.358	E	10	G	4.0	1.2	11	GREENLAND SEA
12	13	01	20.9*	20.068	S	178.425	W	591	?	4.6	1.0	27	FIJI ISLANDS REGION
12	13	32	29.0*	13.608	N	58.603	W	10	G		0.9	12	NORTH ATLANTIC OCEAN. MD 4.3 (TRN).
12	13	42	40.4	7.476	S	104.065	E	33	N	4.5	0.8	28	SOUTHWEST OF SUMATERA, INDONESIA
12	14	31	46.5?	36.49	N	70.56	E	218	?		1.3	8	HINDU KUSH REGION, AFGHANISTAN
12	17	13	17.4&	34.666	N	116.334	W	6				29	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
12	17	14	51.1&	58.865	N	155.004	W	129				39	ALASKA PENINSULA. <AEIC>.
12	18	53	44.4&	45.045	N	7.286	E	23				15	NORTHERN ITALY. <GEN>. ML 2.3 (GEN), 1.9 (LDG).
12	21	08	28.4*	15.906	N	147.764	E	33	N	3.6	0.7	10	MARIANA ISLANDS REGION
12	21	54	06.3&	39.330	N	27.250	E	5				17	TURKEY. <ATH>. MD 3.7 (ATH).
12	22	00	02.1	46.036	N	14.960	E	10	G		0.3	7	NORTHWESTERN BALKAN REGION. ML 2.0 (VIE).
12	22	03	25.5*	20.527	S	68.613	W	115	D	4.1	1.0	9	CHILE-BOLIVIA BORDER REGION
12	22	20	36.9	21.430	S	179.409	W	637	D	4.6	0.7	60	FIJI ISLANDS REGION
12	22	26	07.8&	44.224	N	7.500	E	3				7	NORTHERN ITALY. <GEN>. ML 2.0 (GEN).
12	22	31	47.9*	5.268	S	154.286	E	96	D	4.4	1.1	13	SOLOMON ISLANDS
13	00	48	36.8&	36.982	N	4.326	W	0	G			6	STRAIT OF GIBRALTAR. <MDD>. mbLg 1.7 (MDD).
13	03	25	01.2&	49.160	N	6.830	E	1	G			28	GERMANY. <STR>. ML 2.8 (LDG), 2.4 (STR), 2.3 (UCC). Mining induced event in the Lorraine region, France.
13	03	31	36.2&	37.018	N	3.814	W	9				5	SPAIN. <MDD>. mbLg 1.7 (MDD).
13	07	03	36.7	28.754	S	75.286	W	33	N	4.4	1.0	59	OFF COAST OF CENTRAL CHILE
13	08	15	03.4	36.739	N	116.220	W	10	G		0.9	24	CALIFORNIA-NEVADA BORDER REGION. ML 2.9 (GS).
13	10	07	14.8&	34.590	N	116.273	W	1				32	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
13	10	37	00.0&	63.096	N	151.003	W	123				5	CENTRAL ALASKA. <AEIC>.
13	10	58	16.1&	35.245	N	6.062	W	15				16	STRAIT OF GIBRALTAR. <MDD>. ML 2.7 (MDD).
13	10	59	46.8*	45.786	S	72.277	W	33	N	4.8	1.0	25	SOUTHERN CHILE
13	11	04	57.8&	34.430	N	116.194	W	3				42	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
13	11	23	54.2	44.130	N	128.817	W	10	G	3.8	0.8	55	OFF COAST OF OREGON
13	11	57	32.8&	36.986	N	4.205	W	0	G			5	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.3 (MDD).
13	12	02	53.2?	5.41	S	153.92	E	171	?	4.4	0.8	12	NEW IRELAND REGION, P.N.G.
13	12	26	06.6*	5.329	S	154.009	E	152	?	4.3	0.7	11	SOLOMON ISLANDS
13	13	22	40.9*	6.366	S	131.059	E	33	N	4.7	1.3	20	TANIMBAR ISLANDS REG., INDONESIA
13	14	12	56.0&	16.161	N	97.309	W	59				5	OAXACA, MEXICO. <UNM>. MD 3.5 (UNM).
13	14	25	44.3*	23.763	N	45.073	W	10	G	4.0	0.8	13	NORTHERN MID-ATLANTIC RIDGE
13	15	13	41.0&	19.161	N	66.666	W	75				5	PUERTO RICO REGION. <RSR>. MD 3.1 (RSR).
13	15	24	16.0&	44.443	N	7.329	E	6				6	NORTHERN ITALY. <GEN>. ML 1.6 (GEN).
13	16	39	37.0*	4.330	N	126.803	E	33	N	4.3	0.8	11	TALAUD ISLANDS, INDONESIA
13	16	55	58.4&	44.381	N	7.206	E	9				5	NORTHERN ITALY. <GEN>. ML 1.6 (GEN).
13	18	20	05.6&	18.974	N	66.578	W	46				8	PUERTO RICO REGION. <RSR>. MD 3.1 (RSR).

13	18	37	56.0	44.336	N	7.328	E	12					4	NORTHERN ITALY. <GEN>. ML 1.5 (GEN).
13	18	52	12.0	44.393	N	149.492	E	49	D	5.2	4.5	0.8	171	KURIL ISLANDS
13	19	37	17.7	36.592	N	69.491	E	33	N	4.3		1.1	20	HINDU KUSH REGION, AFGHANISTAN
13	19	50	45.9	52.32	N	177.19	W	33	N	3.2		1.0	9	ANDREANOF ISLANDS, ALEUTIAN IS.
13	20	07	14.4	17.610	S	178.742	W	535	D	5.4		0.9	366	FIJI ISLANDS REGION. Mw 6.2 (GS), 6.2 (HRV). Moment Tensor (GS): Dep 549; Principal axes (scale 10**18 Nm): (T) Val=2.46, Plg=11, Azm=133; (N) Val=0.08, Plg=41, Azm=33; (P) Val=-2.54, Plg=47, Azm=235; Best double couple: Mo=2.5*10**18 Nm; NP1: Strike=262, Dip=49, Slip=-30; NP2: Strike=13, Dip=68, Slip=-135. Centroid, Moment Tensor (HRV): Centroid origin time 20:07:21.6; Lat 17.38 S; Lon 178.63 W; Dep 564.6; Half-duration 3.3 sec; Principal axes (scale 10**18 Nm): (T) Val=2.66, Plg=7, Azm=134; (N) Val=-0.14, Plg=47, Azm=37; (P) Val=-2.52, Plg=42, Azm=231; Best double couple: Mo=2.6*10**18 Nm; NP1: Strike=263, Dip=56, Slip=-28; NP2: Strike=10, Dip=67, Slip=-143.
13	20	11	04.0	43.097	N	0.358	W	3					25	PYRENEES. <LDG>. ML 2.9 (LDG), 2.7 (STR). mbLg 2.6 (MDD). Felt (IV) in the Bearn region, France.
13	20	42	45.0	40.201	N	19.495	E	10	G			0.8	16	ALBANIA. MD 3.4 (ATH), 2.8 (PDG).
13	20	53	23.6	18.759	S	177.705	W	574	?	4.6		1.2	38	FIJI ISLANDS REGION
13	21	09	51.1	52.244	S	13.789	E	10	G	4.7		1.4	10	SOUTHWEST OF AFRICA
13	21	18	26.0	60.727	N	151.788	W	99		2.6			15	KENAI PENINSULA, ALASKA. <AEIC>.
13	21	41	38.1	5.584	S	152.345	E	33	N	4.3		1.5	14	NEW BRITAIN REGION, P.N.G.
13	22	11	00.5	24.244	N	125.134	E	60	*	4.5		1.3	26	SOUTHWESTERN RYUKYU ISL., JAPAN. Recorded (1 JMA) on Miyakojima.
13	22	45	31.8	22.127	S	174.796	E	33	N	5.0		0.9	29	SOUTHEAST OF LOYALTY ISLANDS. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 22:45:32.6; Lat 22.30 S; Lon 174.99 E; Dep 33.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.37, Plg=34, Azm=95; (N) Val=0.04, Plg=38, Azm=333; (P) Val=-1.41, Plg=34, Azm=212; Best double couple: Mo=1.4*10**17 Nm; NP1: Strike=244, Dip=38, Slip=1; NP2: Strike=154, Dip=90, Slip=128.
14	01	16	38.6	34.911	N	26.358	E	84		3.9		1.0	47	CRETE, GREECE
14	01	59	47.3	46.205	N	13.669	E	5	G			0.6	7	AUSTRIA. ML 1.8 (VIE), 1.3 (LJU). Felt (IV) at Volarje, Slovenia.
14	03	14	59.2	34.790	N	32.937	E	10	G			0.5	6	CYPRUS REGION. ML 2.9 (CSS). Felt (II) at Limassol.
14	03	24	59.4	4.802	S	153.321	E	89	D	4.4		1.0	12	NEW IRELAND REGION, P.N.G.
14	03	32	41.5	16.014	S	41.761	E	10	G	4.7	4.2	1.2	39	MOZAMBIQUE CHANNEL
14	03	47	44.5	60.607	N	151.586	W	94					7	KENAI PENINSULA, ALASKA. <AEIC>.
14	04	42	23.2	44.347	N	7.280	E	13					6	NORTHERN ITALY. <GEN>. ML 1.8 (GEN).
14	04	47	24.2	34.871	N	32.700	E	10	G			0.5	6	CYPRUS REGION. ML 2.8 (CSS).
14	06	10	25.1	51.161	N	178.360	W	40	D	3.9		1.1	25	ANDREANOF ISLANDS, ALEUTIAN IS.
14	06	14	52.3	18.135	N	67.911	W	131					6	MONA PASSAGE. <RSPR>. MD 3.4 (RSPR).
14	06	25	19.5	34.581	N	23.548	E	5	G	4.0		1.6	15	CRETE, GREECE. MD 3.8 (ATH).
14	06	56	13.4	44.360	N	7.301	E	13					6	NORTHERN ITALY. <GEN>. ML 1.7 (GEN).
14	07	20	57.5	57.334	N	154.226	W	57		4.4			88	KODIAK ISLAND REGION, ALASKA. <AEIC>. ML 3.8 (AEIC), 4.0 (PMR).
14	08	46	57.5	12.623	N	87.802	W	45	D	4.0		1.0	22	NEAR COAST OF NICARAGUA
14	09	04	10.2	8.449	N	83.148	W	10	G	4.6		1.1	74	COSTA RICA. MD 4.5 (CASC).
14	09	08	23.4	40.042	N	21.861	E	10	G	4.0		1.3	37	GREECE. ML 3.7 (ATH). MD 3.5 (PDG).
14	10	16	07.0	5.140	S	151.846	E	33	N	4.6		1.1	20	NEW BRITAIN REGION, P.N.G.
14	10	59	45.2	16.173	N	92.438	W	241	D	5.0		1.1	127	CHIAPAS, MEXICO. MD 4.8 (UNM).
14	11	04	38.3	32.169	N	116.488	W	9					16	CALIF.-BAJA CALIF. BORDER REGION. <ECX>. MD 3.0 (ECX). ML 3.0 (PAS).
14	11	18	58.7	23.214	S	68.968	W	104	D	4.1		0.8	12	NORTHERN CHILE
14	11	21	19.2	46.184	N	15.934	E	10	G			1.1	5	NORTHWESTERN BALKAN REGION. ML 2.2 (VIE).
14	11	37	02.0	7.978	S	76.173	W	118	*	4.3		0.7	26	NORTHERN PERU
14	13	51	13.3	60.456	N	152.849	W	15					33	SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC).
14	14	26	13.4	40.720	N	143.745	E	33	N	4.8	4.7	0.9	79	OFF EAST COAST OF HONSHU, JAPAN
14	16	02	29.1	11.24	S	165.34	E	33	N	4.0		1.4	8	SANTA CRUZ ISLANDS
14	18	02	38.4	37.56	S	177.99	E	165	*			1.3	17	OFF E. COAST OF N. ISLAND, N.Z.
14	18	12	28.3	60.359	N	148.068	W	0					6	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.5 (AEIC).
14	18	25	38.0	15.06	S	173.58	W	33	N	4.5		0.9	17	TONGA ISLANDS
14	18	43	59.8	40.580	N	25.299	E	10	G			1.1	14	AEGEAN SEA
14	18	44	44.5	15.285	S	173.525	W	33	N	4.8	5.2	1.4	64	TONGA ISLANDS. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 18:44:49.5; Lat 15.37 S; Lon 172.73 W; Dep 15.0 Fix; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=1.76, Plg=63, Azm=317; (N) Val=0.21, Plg=18, Azm=187; (P) Val=-1.97, Plg=19, Azm=91; Best double couple: Mo=1.9*10**17 Nm; NP1: Strike=153, Dip=30, Slip=52; NP2: Strike=15, Dip=67, Slip=110.
14	20	44	10.9	44.632	N	7.714	E	67					28	NORTHERN ITALY. <GEN>. MD 2.6 (LDG).
14	21	21	57.8	8.223	N	83.530	W	7		3.6			8	COSTA RICA. <UPA>. MD 4.4 (UPA).
14	22	09	04.8	25.591	N	101.164	E	33	N	5.0	5.1	1.1	85	YUNNAN, CHINA. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 22:09:06.3; Lat 25.34 N; Lon 101.28 E; Dep 33.0 Fix; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=2.00, Plg=7, Azm=250; (N) Val=-0.16, Plg=77, Azm=126; (P) Val=-1.83, Plg=11, Azm=341; Best double couple: Mo=1.9*10**17 Nm; NP1: Strike=25, Dip=77, Slip=-2; NP2: Strike=116, Dip=88, Slip=-167.
14	22	22	54.2	19.456	N	92.008	W	10	G	4.3		0.9	29	BAY OF CAMPECHE
14	22	23	34.5	25.630	N	100.839	E	33	N	3.9		1.5	7	YUNNAN, CHINA. ML 3.8 (BJI).
14	22	31	08.5	5.290	S	154.123	E	121	?	4.5		0.9	11	SOLOMON ISLANDS
14	23	17	54.0	21.019	S	179.128	W	639	?	4.3		0.9	44	FIJI ISLANDS REGION
14	23	24	32.6	5.406	S	151.940	E	67	*	5.0		1.1	41	NEW BRITAIN REGION, P.N.G.
14	23	37	07.8	25.607	N	101.063	E	33	N	5.4	5.9	1.0	180	YUNNAN, CHINA. Mw 5.9 (HRV), 5.8 (GS). ML 5.5 (BJI). Seven people killed, 2,528 injured, 92,479 homeless and more than 41,000 houses destroyed in central Yunnan Province. Moment Tensor (GS): Dep 13; Principal axes (scale 10**17

Nm): (T) Val=5.42, Plg=8, Azm=72; (N) Val=0.99, Plg=77, Azm=198; (P) Val=-6.41, Plg=10, Azm=341; Best double couple: Mo=5.9*10**17 Nm; NP1: Strike=117, Dip=77, Slip=-178; NP2: Strike=26, Dip=88, Slip=-13.

Centroid, Moment Tensor (HRV): Centroid origin time 23:37:10.8; Lat 25.39 N; Lon 101.40 E; Dep 33.0 Fix; Half-duration 2.3 sec; Principal axes (scale 10**17 Nm): (T) Val=8.46, Plg=4, Azm=252; (N) Val=-0.26, Plg=76, Azm=143; (P) Val=-8.20, Plg=13, Azm=343; Best double couple: Mo=8.3*10**17 Nm; NP1: Strike=27, Dip=78, Slip=-6; NP2: Strike=118, Dip=84, Slip=-168.

15 00 20 19.7 25.506 N 101.113 E 33 N 4.5 1.1 23 YUNNAN, CHINA. ML 4.2 (BJI).

15 00 49 05.5? 13.26 S 167.29 E 200 G 4.3 1.3 11 VANUATU ISLANDS

15 01 39 12.2* 25.784 N 101.136 E 33 N 3.7 1.2 5 YUNNAN, CHINA. ML 3.8 (BJI).

15 01 44 33.7 4.862 N 125.538 E 198 4.7 0.9 29 TALAUD ISLANDS, INDONESIA

15 02 04 00.8 6.345 S 148.430 E 72 5.5 5.3 0.9 251 NEW BRITAIN REGION, P.N.G. Mw 5.8 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 02:04:03.9; Lat 6.56 S; Lon 148.68 E; Dep 67.2; Half-duration 1.8 sec; Principal axes (scale 10**17 Nm): (T) Val=4.83, Plg=43, Azm=352; (N) Val=-0.01, Plg=41, Azm=137; (P) Val=-4.82, Plg=18, Azm=244; Best double couple: Mo=4.8*10**17 Nm; NP1: Strike=18, Dip=45, Slip=158; NP2: Strike=124, Dip=75, Slip=47.

15 02 11 58.5* 9.578 S 111.760 E 35 * 5.0 1.2 17 SOUTH OF JAWA, INDONESIA

15 02 26 46.5& 42.896 N 0.240 E 2 8 PYRENEES. <LDG>. ML 2.0 (LDG), 2.0 (STR).

15 02 54 08.5* 9.611 S 111.812 E 33 N 4.0 1.5 17 SOUTH OF JAWA, INDONESIA

15 03 04 24.8* 16.912 S 167.437 E 33 N 4.0 1.0 14 VANUATU ISLANDS

15 03 21 01.0? 19.08 S 169.53 E 268 * 4.3 1.1 17 VANUATU ISLANDS

15 03 33 53.7& 41.470 S 175.330 E 21 7 NORTH ISLAND, NEW ZEALAND. <WEL>. ML 2.9 (WEL).

15 03 52 45.1? 18.72 N 146.59 E 33 N 3.6 0.6 8 MARIANA ISLANDS

15 04 27 22.3& 18.833 N 67.060 W 31 4 MONA PASSAGE. <RSPR>. MD 2.6 (RSPR).

15 04 53 11.9* 37.086 N 69.758 E 33 N 3.7 1.3 12 AFGHANISTAN-TAJIKISTAN BORD REG.

15 05 01 54.8 27.310 N 139.883 E 470 * 4.3 0.8 40 BONIN ISLANDS, JAPAN REGION

15 05 04 32.5& 60.235 N 153.792 W 189 57 SOUTHERN ALASKA. <AEIC>.

15 05 18 37.8* 36.348 N 68.834 E 33 N 4.1 1.1 13 HINDU KUSH REGION, AFGHANISTAN

15 05 27 26.6& 41.082 N 19.843 E 9 12 ALBANIA. <PDG>. MD 2.6 (PDG).

15 05 32 35.7* 51.122 N 173.666 E 33 N 4.1 0.9 21 NEAR ISLANDS, ALEUTIAN ISLANDS

15 06 07 13.4* 17.010 S 172.977 W 33 N 4.2 0.9 20 TONGA ISLANDS REGION

15 06 16 30.0& 34.679 N 32.405 E 15 5 CYPRUS REGION. <CSS>. ML 2.5 (CSS).

15 07 16 10.9& 43.680 N 6.910 E 2 G 4 NEAR SOUTH COAST OF FRANCE. <STR>. ML 2.1 (STR).

15 07 29 58.4 37.891 N 142.542 E 31 D 4.8 1.0 73 OFF EAST COAST OF HONSHU, JAPAN. Recorded (2 JMA) in northern Miyagi and (1 JMA) in Iwate and eastern Fukushima Prefectures.

15 07 44 03.5* 12.201 N 141.129 E 74 ? 3.6 0.9 10 SOUTH OF MARIANA ISLANDS

15 08 01 39.7 51.613 N 16.132 E 5 G 0.3 14 POLAND. ML 3.5 (VIE).

15 08 24 41.9 17.327 N 94.906 W 133 D 3.9 1.2 29 CHIAPAS, MEXICO. MD 4.5 (UNM).

15 08 28 23.3* 46.129 N 149.114 E 181 ? 3.6 0.6 10 KURIL ISLANDS

15 08 38 29.9* 4.218 S 142.785 E 33 N 1.3 8 NEW GUINEA, PAPUA NEW GUINEA

15 08 46 12.8 2.441 S 139.907 E 33 N 4.6 1.0 29 NEAR NORTH COAST OF IRIAN JAYA

15 09 51 13.8& 41.450 S 175.300 E 16 5 NORTH ISLAND, NEW ZEALAND. <WEL>. ML 2.2 (WEL).

15 10 31 24.1& 16.827 N 61.676 W 59 6 LEEWARD ISLANDS. <FDF>. MG 2.7 (FDF).

15 11 05 42.9* 23.208 N 121.005 E 33 N 4.1 1.1 10 TAIWAN. ML 4.7 (TAP). Recorded (3 TAP) in the epicentral area and (1 TAP) at Chia-i.

15 11 27 53.7* 9.875 N 62.605 W 37 D 1.3 15 NEAR COAST OF VENEZUELA. MD 3.9 (TRN).

15 12 29 55.0* 57.683 S 29.653 W 100 G 4.3 0.4 12 SOUTH SANDWICH ISLANDS REGION

15 12 49 45.0 21.216 S 179.255 W 633 D 5.4 1.0 371 FIJI ISLANDS REGION. Mw 6.0 (GS), 6.0 (HRV).

Moment Tensor (GS): Dep 630; Principal axes (scale 10**18 Nm): (T) Val=1.00, Plg=23, Azm=110; (N) Val=0.06, Plg=3, Azm=201; (P) Val=-1.06, Plg=67, Azm=299; Best double couple: Mo=1.0*10**18 Nm; NP1: Strike=194, Dip=22, Slip=-98; NP2: Strike=23, Dip=68, Slip=-87.

Centroid, Moment Tensor (HRV): Centroid origin time 12:49:50.3; Lat 21.11 S; Lon 179.10 W; Dep 650.7; Half-duration 2.5 sec; Principal axes (scale 10**18 Nm): (T) Val=1.18, Plg=29, Azm=110; (N) Val=0.01, Plg=11, Azm=206; (P) Val=-1.19, Plg=59, Azm=315; Best double couple: Mo=1.2*10**18 Nm; NP1: Strike=172, Dip=19, Slip=-125; NP2: Strike=29, Dip=74, Slip=-79.

15 13 18 29.8& 18.700 N 67.411 W 1 6 MONA PASSAGE. <RSPR>. MD 3.1 (RSPR).

15 14 13 13.3* 43.157 N 140.415 E 179 * 3.9 0.9 16 HOKKAIDO, JAPAN REGION

15 14 36 57.4* 5.204 S 151.930 E 63 * 4.5 1.4 17 NEW BRITAIN REGION, P.N.G.

15 16 09 57.4* 2.213 S 134.208 E 33 N 4.4 1.0 17 IRIAN JAYA REGION, INDONESIA

15 17 16 54.6& 34.669 N 116.337 W 2 32 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).

15 17 17 52.6* 73.714 N 9.316 E 10 G 3.8 1.4 11 GREENLAND SEA

15 17 21 43.1& 44.334 N 7.233 E 5 8 NORTHERN ITALY. <GEN>. ML 1.9 (GEN).

15 18 11 43.7 5.376 N 82.563 W 10 G 4.4 4.3 1.3 51 SOUTH OF PANAMA. MD 4.7 (UPA), 4.1 (CASC).

15 18 34 40.5* 7.265 S 129.442 E 122 ? 4.0 1.1 9 BANDA SEA

15 18 44 17.8* 5.525 S 152.064 E 33 N 4.2 1.2 7 NEW BRITAIN REGION, P.N.G.

15 18 56 22.0& 43.090 N 0.940 W 8 47 PYRENEES. <STR>. ML 3.4 (LDG), 3.0 (STR). mbLg 3.4 (MDD). Felt in the Soule region, France.

15 19 51 28.9* 5.232 S 78.903 W 106 D 4.4 0.8 28 NORTHERN PERU

15 20 00 00.3 5.300 S 145.878 E 66 4.3 0.8 17 EASTERN NEW GUINEA REG., P.N.G.

15 20 00 30.8* 6.552 N 73.024 W 198 4.1 0.9 30 NORTHERN COLOMBIA

15 20 13 11.3? 73.11 N 7.46 E 10 G 3.1 0.6 5 GREENLAND SEA

15 20 13 57.6& 37.590 N 2.261 W 0 G 6 SPAIN. <MDD>. mbLg 2.0 (MDD).

15 20 14 52.1& 37.640 N 2.209 W 2 14 SPAIN. <MDD>. mbLg 2.4 (MDD).

15 20 28 46.7& 59.448 N 153.654 W 118 2.8 62 SOUTHERN ALASKA. <AEIC>.

15 20 42 09.7? 21.87 S 68.19 W 150 G 4.1 0.8 6 CHILE-BOLIVIA BORDER REGION

15 20 59 59.0& 6.300 S 106.900 E 89 4 JAWA, INDONESIA. <DJA>.

15 21 05 03.7? 5.31 S 154.05 E 123 ? 4.2 1.3 14 SOLOMON ISLANDS

15 21 12 39.3 44.510 N 148.098 E 61 * 4.6 1.0 56 KURIL ISLANDS

15 21 27 25.3* 79.721 N 122.826 E 10 G 4.2 0.8 8 EAST OF SEVERNAYA ZEMLYA

15 21 27 36.2& 46.194 N 7.137 E 2 8 SWITZERLAND. <LDG>. ML 2.0 (LDG).

15	21	53	27.1*	28.598 S	177.432 W	54 D	4.3	0.8	22	KERMADEC ISLANDS REGION
15	22	04	23.8&	37.483 N	36.137 E	5			5	TURKEY. <ISK>. MD 3.7 (ISK).
15	22	35	59.5	12.607 N	144.454 E	33 N	5.1 5.0	1.1	121	SOUTH OF MARIANA ISLANDS. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 22:36:00.5; Lat 12.04 N; Lon 144.72 E; Dep 20.5; Half- duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.30, Plg=29, Azm=334; (N) Val=-0.45, Plg=25, Azm=229; (P) Val=-0.86, Plg=50, Azm=106; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=111, Dip=27, Slip=-25; NP2: Strike=224, Dip=79, Slip=-115.
15	23	03	15.0&	37.398 N	2.276 W	0 G			6	SPAIN. <MDD>. mbLg 2.1 (MDD).
15	23	19	08.2*	22.996 S	178.497 W	300 G	4.1	1.1	24	SOUTH OF FIJI ISLANDS
15	23	50	34.1*	40.713 N	143.840 E	33 N	4.6	1.1	19	OFF EAST COAST OF HONSHU, JAPAN
16	00	11	14.8&	42.927 N	0.243 E	3 G			6	PYRENEES. <LDG>. ML 2.1 (LDG).
16	00	18	54.1?	12.18 S	73.11 W	33 N	3.3	1.5	10	CENTRAL PERU
16	00	51	20.1&	44.482 N	7.192 E	8			13	NORTHERN ITALY. <GEN>. ML 2.2 (GEN).
16	00	59	54.3&	37.185 N	3.760 W	0 G			7	SPAIN. <MDD>. mbLg 1.6 (MDD).
16	01	51	32.0&	40.463 N	125.708 W	3	3.6		102	OFF COAST OF NORTHERN CALIFORNIA. <NC-P>. Mw 4.3 (BRK). ML 4.3 (NC), 4.0 (BRK). Moment Tensor (BRK): Dep 21; Principal axes (scale 10**15 Nm): (T) Val=2.82, Plg=17, Azm=51; (N) Val=0.00, Plg=73, Azm=222; (P) Val=-2.82, Plg=3, Azm=320; Best double couple: Mo=2.8*10**15 Nm; NP1: Strike=187, Dip=80, Slip=14; NP2: Strike=95, Dip=76, Slip=170.
16	01	58	43.4&	37.737 N	2.108 W	7			15	SPAIN. <MDD>. mbLg 2.7 (MDD).
16	02	29	01.5*	32.636 N	71.147 E	33 N	4.0	0.8	16	PAKISTAN
16	02	46	57.7*	39.196 N	76.870 E	100 *	3.8	1.2	11	SOUTHERN XINJIANG, CHINA
16	03	59	16.9*	24.225 N	123.206 E	33 N	3.6	1.1	6	SOUTHWESTERN RYUKYU ISL., JAPAN
16	04	57	28.4*	41.615 S	84.639 W	10 G	4.6 4.6	1.4	20	WEST CHILE RISE
16	05	08	29.3?	5.36 S	153.94 E	126 ?		0.8	8	NEW IRELAND REGION, P.N.G.
16	05	13	13.1&	44.718 N	7.220 E	16			17	NORTHERN ITALY. <GEN>. MD 2.3 (LDG). ML 2.2 (GEN).
16	05	32	25.5*	22.714 S	66.188 W	264 *	3.7	1.1	11	JUJUY PROVINCE, ARGENTINA
16	05	51	50.5*	45.193 S	14.401 W	10 G	4.4 3.8	1.1	8	SOUTHERN MID-ATLANTIC RIDGE
16	07	10	47.4*	39.300 N	76.708 E	105 *	4.3	1.5	32	SOUTHERN XINJIANG, CHINA
16	07	19	30.9&	15.127 N	96.129 W	20			5	NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 3.7 (UNM).
16	08	27	07.7&	46.054 N	6.813 E	2			6	SWITZERLAND. <LDG>. ML 2.0 (LDG).
16	08	50	39.4	31.214 N	130.328 E	200 G	4.1	1.1	23	KYUSHU, JAPAN
16	09	09	34.5	9.270 S	113.965 E	59 D	5.1	1.2	87	SOUTH OF JAWA, INDONESIA. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 09:09:42.9; Lat 9.26 S; Lon 114.75 E; Dep 81.8; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=3.55, Plg=63, Azm=34; (N) Val=1.60, Plg=17, Azm=267; (P) Val=-5.15, Plg=20, Azm=170; Best double couple: Mo=4.3*10**16 Nm; NP1: Strike=233, Dip=29, Slip=53; NP2: Strike=94, Dip=67, Slip=109.
16	09	24	09.1*	20.301 N	144.925 E	149 ?	4.2	0.7	21	MARIANA ISLANDS
16	09	25	15.7*	19.102 N	145.351 E	200 G	4.5	1.0	15	MARIANA ISLANDS
16	09	42	45.7&	42.809 N	0.251 W	2			6	PYRENEES. <LDG>. ML 2.2 (STR), 1.5 (LDG).
16	09	46	17.4&	49.140 N	6.870 E	1 G			13	GERMANY. <STR>. ML 2.5 (LDG), 2.1 (STR). Mining induced event in the Lorraine region, France.
16	10	06	16.1&	36.762 N	3.990 W	58			10	STRAIT OF GIBRALTAR. <MDD>.
16	10	14	03.0&	16.993 N	100.492 W	5			22	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.0 (UNM).
16	10	30	08.5	46.271 N	13.721 E	10 G		1.1	12	AUSTRIA. ML 2.5 (VIE).
16	11	08	02.9&	42.650 N	0.710 E	10 G			8	PYRENEES. <STR>. ML 2.3 (STR), 2.2 (LDG).
16	11	39	29.9&	11.268 N	62.000 W	118			5	WINDWARD ISLANDS. <TRN>. MD 2.7 (TRN).
16	12	00	59.1*	33.530 N	76.484 E	33 N	4.0	0.6	7	KASHMIR-INDIA BORDER REGION
16	12	29	12.6	79.802 N	123.076 E	10 G	4.5 3.8	1.0	30	EAST OF SEVERNAYA ZEMLYA
16	12	36	29.4&	38.310 N	11.353 E	10	3.5		18	SICILY, ITALY. <ROM>. ML 3.5 (ROM).
16	13	01	40.8&	38.940 N	20.600 E	5			9	GREECE. <ATH>. MD 3.2 (ATH).
16	13	03	36.6	46.550 N	10.292 E	10 G		0.6	9	NORTHERN ITALY. ML 1.9 (VIE).
16	14	18	17.8&	57.391 N	154.194 W	46	5.2		301	KODIAK ISLAND REGION, ALASKA. <AEIC>. Mw 5.2 (HRV). ML 5.2 (AEIC), 5.3 (PMR). Centroid, Moment Tensor (HRV): Centroid origin time 14:18:20.3; Lat 57.24 N; Lon 154.04 W; Dep 66.4; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=7.12, Plg=12, Azm=321; (N) Val=0.32, Plg=75, Azm=104; (P) Val=-7.44, Plg=9, Azm=229; Best double couple: Mo=7.3*10**16 Nm; NP1: Strike=5, Dip=75, Slip=178; NP2: Strike=96, Dip=88, Slip=15.
16	14	56	50.6*	79.780 N	122.471 E	10 G	3.3	1.3	8	EAST OF SEVERNAYA ZEMLYA
16	15	00	40.8	30.238 S	178.133 W	33 N	5.5 5.5	0.9	237	KERMADEC ISLANDS, NEW ZEALAND. Mw 5.9 (HRV), 5.8 (GS). Moment Tensor (GS): Dep 32; Principal axes (scale 10**17 Nm): (T) Val=6.00, Plg=77, Azm=293; (N) Val=0.10, Plg=6, Azm=175; (P) Val=-6.10, Plg=11, Azm=84; Best double couple: Mo=6.0*10**17 Nm; NP1: Strike=166, Dip=34, Slip=79; NP2: Strike=359, Dip=57, Slip=97. Centroid, Moment Tensor (HRV): Centroid origin time 15:00:47.1; Lat 30.25 S Fix; Lon 177.62 W Fix; Dep 38.0 Bdy; Half-duration 2.1 sec; Principal axes (scale 10**17 Nm): (T) Val=6.98, Plg=72, Azm=297; (N) Val=1.02, Plg=4, Azm=194; (P) Val=-8.01, Plg=18, Azm=103; Best double couple: Mo=7.5*10**17 Nm; NP1: Strike=186, Dip=28, Slip=81; NP2: Strike=16, Dip=63, Slip=95.
16	15	00	53.1*	50.637 N	158.258 E	33 N	3.7	1.4	10	EAST OF KURIL ISLANDS
16	15	07	58.9&	47.823 N	122.772 W	17	2.5		65	WASHINGTON. <SEA-P>. MD 3.0 (SEA). ML 2.8 (PGC).
16	15	22	50.5	79.808 N	122.943 E	10 G	4.5	1.2	31	EAST OF SEVERNAYA ZEMLYA
16	16	13	51.0*	31.883 N	82.443 E	33 N	3.5	0.4	6	XIZANG
16	18	17	21.2	53.982 N	160.379 E	78	4.5	1.1	37	NEAR EAST COAST OF KAMCHATKA
16	18	24	17.3*	5.328 S	142.212 E	43 *		0.4	8	NEW GUINEA, PAPUA NEW GUINEA
16	18	39	33.9&	44.396 N	6.963 E	11			27	FRANCE. <LDG>. ML 2.4 (GEN), 2.2 (LDG), 2.1 (STR).
16	20	22	06.6*	24.357 N	121.155 E	33 N	4.5	0.8	14	TAIWAN. ML 4.7 (TAP). Recorded (3 TAP) in the epicentral area and (1 TAP) at Chang-hua, Tai-chung and Taipei.
16	20	39	59.1*	24.673 N	121.013 E	33 N	4.0	0.9	8	TAIWAN. ML 4.3 (TAP). Recorded (3 TAP) in the epicentral

area and (1 TAP) at Tai-chung.

16 21 01 54.3& 46.259 N 7.207 E 2 13 SWITZERLAND. <LDG>. ML 2.2 (LDG), 2.1 (STR).

16 21 13 18.2 5.774 N 76.102 W 33 N 3.5 0.8 12 COLOMBIA. ML 4.2 (RSNC).

16 21 18 48.1? 17.33 S 168.96 E 250 * 4.2 0.8 13 VANUATU ISLANDS

16 21 39 59.4* 21.542 S 179.214 W 600 G 4.5 1.0 30 FIJI ISLANDS REGION

16 22 21 16.7 46.593 N 10.338 E 5 G 0.5 22 NORTHERN ITALY. ML 3.0 (FUR), 2.6 (LDG), 2.5 (VIE).

16 22 40 11.4* 6.825 N 33.774 W 10 G 4.8 1.1 20 CENTRAL MID-ATLANTIC RIDGE

16 23 03 26.0& 44.927 N 6.930 E 16 5 FRANCE. <GEN>. ML 1.6 (GEN).

16 23 19 42.6 11.656 S 166.317 E 40 D 5.4 5.4 1.0 145 SANTA CRUZ ISLANDS. Mw 5.7 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time
23:19:48.1; Lat 11.64 S; Lon 166.02 E; Dep 43.0 Bdy; Half-
duration 1.6 sec; Principal axes (scale 10**17 Nm): (T)
Val=3.99, Plg=78, Azm=340; (N) Val=-0.16, Plg=11, Azm=170;
(P) Val=-3.82, Plg=2, Azm=80; Best double couple:
Mo=3.9*10**17 Nm; NP1: Strike=158, Dip=44, Slip=74; NP2:
Strike=1, Dip=48, Slip=105.

16 23 29 13.8* 11.654 S 166.507 E 33 N 4.4 0.8 12 SANTA CRUZ ISLANDS

16 23 31 00.5& 16.132 N 97.584 W 45 6 OAXACA, MEXICO. <UNM>. MD 3.7 (UNM).

17 00 04 00.5 11.593 S 166.301 E 33 N 5.1 5.5 1.1 96 SANTA CRUZ ISLANDS. Mw 5.8 (HRV), 5.7 (GS).

Moment Tensor (GS): Dep 34; Principal axes (scale 10**17
Nm): (T) Val=4.33, Plg=85, Azm=264; (N) Val=0.40, Plg=1,
Azm=2; (P) Val=-4.73, Plg=5, Azm=92; Best double couple:
Mo=4.5*10**17 Nm; NP1: Strike=183, Dip=40, Slip=91; NP2:
Strike=1, Dip=50, Slip=89.

Centroid, Moment Tensor (HRV): Centroid origin time
00:04:08.5; Lat 11.53 S; Lon 166.10 E; Dep 44.0 Bdy; Half-
duration 1.9 sec; Principal axes (scale 10**17 Nm): (T)
Val=5.43, Plg=83, Azm=313; (N) Val=-0.12, Plg=6, Azm=173;
(P) Val=-5.31, Plg=5, Azm=83; Best double couple:
Mo=5.4*10**17 Nm; NP1: Strike=166, Dip=41, Slip=81; NP2:
Strike=358, Dip=50, Slip=98.

17 00 12 29.9& 42.968 N 0.273 E 11 5 PYRENEES. <LDG>. ML 1.9 (LDG).

17 01 25 44.5& 60.867 N 148.133 W 23 46 KENAI PENINSULA, ALASKA. <AEIC>. ML 2.6 (AEIC).

17 03 33 05.5& 39.336 N 122.833 W 8 13 NORTHERN CALIFORNIA. <NC-P>. MD 2.8 (NC).

17 04 51 42.6& 60.287 N 150.866 W 71 50 KENAI PENINSULA, ALASKA. <AEIC>.

17 04 56 03.2& 10.621 N 62.153 W 42 6 NEAR COAST OF VENEZUELA. <TRN>. MD 3.3 (TRN).

17 05 33 12.2& 18.542 N 67.513 W 3 6 MONA PASSAGE. <RSRP>. MD 3.3 (RSRP).

17 05 43 24.0& 40.510 S 174.430 E 60 13 COOK STRAIT, NEW ZEALAND. <WEL>.

17 06 49 25.4* 21.174 S 68.272 W 128 ? 4.2 1.0 12 CHILE-BOLIVIA BORDER REGION

17 07 02 35.2& 44.793 N 7.504 E 40 21 NORTHERN ITALY. <GEN>. MD 2.4 (LDG).

17 07 40 40.3? 13.29 N 144.81 E 138 * 1.3 6 MARIANA ISLANDS

17 08 16 20.0& 44.570 N 70.440 W 16 10 MAINE. <WES-P>. mbLg 3.4 (WES), 3.4 (GS), 3.6 (OTT). Felt at
Auburn, Falmouth, Mexico, Rangeley, Rumford, Strong and
Sweden.

17 08 19 48.6& 37.582 N 118.849 W 5 13 CALIFORNIA-NEVADA BORDER REGION. <NC-P>. MD 2.8 (NC).

17 08 59 23.7& 8.130 S 115.400 E 165 4 BALI REGION, INDONESIA. <DJA>.

17 09 07 38.9 5.973 S 150.146 E 66 * 4.3 0.9 22 NEW BRITAIN REGION, P.N.G.

17 10 00 01.8 42.468 N 126.515 W 10 G 3.8 0.8 49 OFF COAST OF OREGON

17 10 49 07.9& 62.996 N 149.892 W 87 8 CENTRAL ALASKA. <AEIC>.

17 12 00 48.5& 60.580 N 148.475 W 12 44 KENAI PENINSULA, ALASKA. <AEIC>. ML 2.7 (AEIC).

17 12 20 05.2 6.785 N 71.971 W 33 N 5.3 5.0 0.9 267 NORTHERN COLOMBIA. Mw 5.6 (HRV). ML 5.9 (RSNC). Felt at
Arauca, Bucaramanga, Fortoul, Tunja and Villavicencio. Also
felt in western Venezuela and as far as Caracas.

Centroid, Moment Tensor (HRV): Centroid origin time
12:20:09.3; Lat 6.87 N; Lon 71.94 W; Dep 30.7; Half-
duration 1.5 sec; Principal axes (scale 10**17 Nm): (T)
Val=2.71, Plg=68, Azm=283; (N) Val=-0.04, Plg=8, Azm=171;
(P) Val=-2.68, Plg=20, Azm=78; Best double couple:
Mo=2.7*10**17 Nm; NP1: Strike=154, Dip=26, Slip=71; NP2:
Strike=355, Dip=65, Slip=99.

17 12 31 37.7* 19.087 S 69.632 W 111 * 4.1 0.9 11 NORTHERN CHILE

17 12 58 10.5& 62.300 N 149.342 W 65 35 CENTRAL ALASKA. <AEIC>. ML 2.7 (AEIC), 2.8 (PMR).

17 15 30 59.8& 19.130 N 67.816 W 9 6 MONA PASSAGE. <RSRP>. MD 3.0 (RSRP).

17 15 33 01.8& 15.742 N 60.983 W 54 9 LEEWARD ISLANDS. <PDF>. MG 2.7 (PDF).

17 15 53 45.3* 53.076 N 159.941 E 65 3.8 1.0 13 NEAR EAST COAST OF KAMCHATKA

17 16 03 06.1* 27.269 S 70.937 W 84 * 4.3 1.2 29 NEAR COAST OF NORTHERN CHILE. Felt (IV) at Caldera, (III) at
Copiapo and (II) at Tierra Amarilla.

17 16 39 50.0 27.508 N 54.314 E 33 N 4.6 1.2 36 SOUTHERN IRAN

17 16 45 17.4 5.954 N 125.870 E 125 4.4 0.9 30 MINDANAO, PHILIPPINES

17 17 11 06.0* 51.809 N 179.722 E 130 * 4.2 0.9 19 RAT ISLANDS, ALEUTIAN ISLANDS

17 17 18 33.4* 47.382 N 11.904 E 5 G 0.3 6 AUSTRIA. ML 1.4 (VIE).

17 17 51 49.6& 44.750 N 8.364 E 0 13 NORTHERN ITALY. <GEN>. ML 2.3 (GEN).

17 17 53 43.4 14.613 S 177.525 W 33 N 4.9 4.9 1.0 121 FIJI ISLANDS REGION. Mw 5.2 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time
17:53:46.4; Lat 14.56 S; Lon 177.42 W; Dep 16.1; Half-
duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
Val=8.16, Plg=71, Azm=246; (N) Val=-0.77, Plg=10, Azm=125;
(P) Val=-7.39, Plg=16, Azm=32; Best double couple:
Mo=7.8*10**16 Nm; NP1: Strike=107, Dip=30, Slip=70; NP2:
Strike=310, Dip=62, Slip=101.

17 17 57 54.9 44.191 N 128.940 W 10 G 4.0 0.9 51 OFF COAST OF OREGON

17 18 23 18.5 5.371 S 154.172 E 114 * 4.8 0.8 37 SOLOMON ISLANDS

17 18 28 24.4 5.334 S 154.070 E 100 D 4.9 0.6 30 SOLOMON ISLANDS

17 18 31 20.0& 37.790 N 116.000 W 12 12 SOUTHERN NEVADA. <REN-P>. MD 3.5 (REN).

17 18 44 18.0& 37.390 N 117.080 W 0 10 CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.8 (REN).

17 18 47 51.0& 36.274 N 120.455 W 10 13 CENTRAL CALIFORNIA. <NC-P>. MD 2.9 (NC).

17 19 05 56.4* 8.639 S 147.973 E 127 * 4.3 1.1 9 EASTERN NEW GUINEA REG., P.N.G.

17 19 24 51.9& 40.419 N 124.635 W 15 18 NEAR COAST OF NORTHERN CALIF. <NC-P>. MD 3.3 (NC). ML 3.3
(BRK).

17 19 42 45.7& 41.020 N 125.087 W 1 17 OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.3 (BRK).

17 21 18 04.9 14.512 S 177.596 W 33 N 5.6 5.7 0.8 401 FIJI ISLANDS REGION. Mw 5.8 (GS), 5.8 (HRV). Me 5.8 (GS).
Broadband Source Parameters (GS): Dep 7; NP1: Strike=365,
Dip=40, Slip=140; NP2: Strike=128, Dip=66, Slip=57;

Radiated energy 1.1*10**13 Nm.
 Moment Tensor (GS): Dep 5; Principal axes (scale 10**17 Nm):
 (T) Val=6.35, Plg=69, Azm=5; (N) Val=-0.22, Plg=4, Azm=106;
 (P) Val=-6.13, Plg=20, Azm=198; Best double couple:
 Mo=6.2*10**17 Nm; NP1: Strike=295, Dip=25, Slip=100; NP2:
 Strike=104, Dip=65, Slip=86.
 Centroid, Moment Tensor (HRV): Centroid origin time
 21:18:08.8; Lat 14.40 S; Lon 177.27 W; Dep 15.0 Bdy; Half-
 duration 1.9 sec; Principal axes (scale 10**17 Nm): (T)
 Val=5.34, Plg=71, Azm=331; (N) Val=2.12, Plg=18, Azm=132;
 (P) Val=-7.46, Plg=6, Azm=224; Best double couple:
 Mo=6.4*10**17 Nm; NP1: Strike=333, Dip=42, Slip=117; NP2:
 Strike=118, Dip=53, Slip=67.

17	22	35	06.6*	47.058 N	152.727 E	83 *	4.0	0.9	16	KURIL ISLANDS
17	22	49	32.3*	5.306 S	154.009 E	117 *	4.8	1.1	23	SOLOMON ISLANDS
17	23	32	55.0&	37.368 N	121.731 W	7			30	CENTRAL CALIFORNIA. <NC-P>. MD 3.5 (NC). ML 3.5 (BRK). Felt at Ben Lomond, Milpitas, San Jose, Santa Clara, Santa Cruz and Sunnyvale.
17	23	41	20.3&	7.070 S	105.400 E	33 N			4	JAWA, INDONESIA. <DJA>.
17	23	44	30.5&	59.205 N	153.428 W	93			40	SOUTHERN ALASKA. <AEIC>.
17	23	47	54.4&	44.146 N	7.176 E	11			4	NORTHERN ITALY. <GEN>. ML 1.4 (GEN).
17	23	53	56.9*	7.133 S	129.584 E	70 ?	4.2	1.2	11	BANDA SEA
18	00	40	47.0&	43.915 N	120.864 W	7			15	OREGON. <SEA-P>. MD 2.8 (SEA). Felt in the epicentral area.
18	01	00	35.9*	14.570 S	177.550 W	33 N	4.8 4.7	0.8	67	FIJI ISLANDS REGION
18	01	17	07.4&	35.950 N	21.890 E	5			7	CENTRAL MEDITERRANEAN SEA. <ATH>. ML 3.6 (ATH).
18	01	31	36.1	14.319 S	177.675 W	33 N	4.9 5.1	1.1	116	FIJI ISLANDS REGION. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 01:31:37.2; Lat 14.40 S; Lon 177.14 W; Dep 15.0 Fix; Half- duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.79, Plg=7, Azm=312; (N) Val=-0.21, Plg=73, Azm=67; (P) Val=-1.58, Plg=15, Azm=220; Best double couple: Mo=1.7*10**17 Nm; NP1: Strike=356, Dip=74, Slip=-174; NP2: Strike=265, Dip=85, Slip=-16.
18	02	16	04.5&	10.303 N	61.108 W	35			10	TRINIDAD. <TRN>. MD 3.7 (TRN).
18	02	20	28.8	0.216 S	149.297 E	33 N	4.8 4.3	1.2	32	NEW IRELAND REGION, P.N.G.
18	03	15	53.3*	4.146 S	128.161 E	33 N	4.8	1.2	19	BANDA SEA
18	03	20	11.1&	18.253 N	66.283 W	28			5	PUERTO RICO REGION. <RSR>. MD 2.8 (RSR).
18	03	37	31.6*	32.660 N	71.122 E	33 N	4.5	0.7	15	PAKISTAN
18	04	40	40.5	2.438 S	139.741 E	10 G	4.9 4.3	1.4	38	NEAR NORTH COAST OF IRIAN JAYA
18	05	51	32.3&	49.132 N	6.806 E	1 G			18	GERMANY. <LDG>. ML 2.8 (LDG), 2.5 (STR), 2.2 (FBB), 2.2 (UCC). Mining induced event in the Lorraine region, France.
18	06	38	36.5	5.396 S	154.078 E	133 ?	4.8	0.7	28	SOLOMON ISLANDS
18	06	56	07.0&	50.590 N	130.380 W	10 G	3.7		56	VANCOUVER ISLAND, CANADA REGION. <PGC-P>. ML 4.1 (PGC).
18	07	03	55.5*	35.01 N	43.88 E	83 ?	3.6	1.0	9	IRAQ
18	07	44	02.7*	20.467 S	68.706 W	139 *	3.8	1.4	8	CHILE-BOLIVIA BORDER REGION
18	07	50	28.5&	15.010 N	60.426 W	30			10	LEEWARD ISLANDS. <PDF>. MD 3.0 (TRN).
18	08	03	29.6&	38.080 N	23.660 E	12			23	GREECE. <ATH>. ML 3.2 (ATH). Felt at Athens.
18	08	06	01.8&	38.010 N	23.640 E	5			5	GREECE. <ATH>. ML 2.0 (ATH).
18	08	12	38.8*	31.810 S	179.145 W	500 G	4.4	1.3	45	KERMADEC ISLANDS REGION
18	09	56	54.6	15.732 N	119.796 E	33 N	4.6 3.9	1.2	27	LUZON, PHILIPPINES
18	10	24	09.8*	15.779 N	119.919 E	33 N	4.2	1.4	11	LUZON, PHILIPPINES
18	11	01	30.3&	17.928 N	65.657 W	4			7	PUERTO RICO REGION. <RSR>. MD 3.1 (RSR).
18	12	17	05.6*	12.443 S	120.704 E	10 G		1.3	7	SOUTH OF SUMBA, INDONESIA
18	13	01	28.6	5.324 S	154.053 E	123 *	4.9	0.8	31	SOLOMON ISLANDS. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 13:01:29.7; Lat 5.23 S; Lon 154.08 E; Dep 99.7; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.91, Plg=68, Azm=206; (N) Val=0.37, Plg=14, Azm=334; (P) Val=-5.28, Plg=16, Azm=68; Best double couple: Mo=5.1*10**16 Nm; NP1: Strike=178, Dip=31, Slip=118; NP2: Strike=326, Dip=63, Slip=74.
18	13	08	58.6*	51.026 N	15.931 E	5 G		0.3	6	POLAND. MG 2.8 (WAR).
18	13	30	07.4*	6.503 S	147.118 E	60 *	4.5	1.0	14	EASTERN NEW GUINEA REG., P.N.G.
18	13	38	50.7	45.045 N	8.632 E	10 G		0.9	50	NORTHERN ITALY. ML 3.1 (GEN), 3.0 (LDG), 2.7 (STR), 2.5 (VIE).
18	13	45	02.0&	44.530 N	115.910 W	7			9	WESTERN IDAHO. <BSE-P>. ML 2.9 (BSE).
18	14	18	20.6&	41.520 N	28.526 E	9			12	TURKEY. <ISK>. MD 3.2 (ISK).
18	15	00	12.1*	31.919 N	140.980 E	33 N	4.8	1.1	9	SOUTHEAST OF HONSHU, JAPAN
18	15	19	56.5*	18.095 S	172.883 W	33 N	4.7 4.7	1.1	39	TONGA ISLANDS REGION. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 15:20:01.0; Lat 17.70 S; Lon 172.41 W; Dep 21.5; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.98, Plg=68, Azm=310; (N) Val=-2.02, Plg=6, Azm=206; (P) Val=-3.96, Plg=22, Azm=114; Best double couple: Mo=5.0*10**16 Nm; NP1: Strike=193, Dip=24, Slip=76; NP2: Strike=28, Dip=67, Slip=96.
18	15	51	40.3&	18.752 N	66.155 W	86			5	PUERTO RICO REGION. <RSR>. MD 2.8 (RSR).
18	16	21	35.8&	8.090 S	115.500 E	161			4	BALI REGION, INDONESIA. <DJA>.
18	16	49	34.6*	13.955 N	89.851 W	197 *	4.6	1.0	36	EL SALVADOR
18	17	12	18.3	31.630 S	71.451 W	42 D	4.9 4.4	1.1	52	NEAR COAST OF CENTRAL CHILE. MD 4.9 (GUC). Felt (V) at Canela; (IV) at Illapel and Salamanca; (III) at La Ligua, Los Vilos, Papudo, Puchuncavi and Quintero; (II) at Coquimbo, La Serena, Ovalle and Punitaqui.
18	18	16	35.7*	16.214 S	177.241 E	33 N	4.7	0.8	25	FIJI ISLANDS
18	18	22	54.7*	30.306 N	131.152 E	57 *	4.3	0.9	16	KYUSHU, JAPAN
18	19	23	33.4*	5.321 S	154.058 E	119 *	4.6	0.9	15	SOLOMON ISLANDS
18	19	29	25.5&	37.750 N	122.148 W	5			11	CENTRAL CALIFORNIA. <NC-P>. MD 2.7 (NC). Felt at Castro Valley, Oakland and San Leandro.
18	20	10	19.1&	37.230 N	3.621 W	0 G			6	SPAIN. <MDD>. mbLg 1.5 (MDD).
18	20	54	08.6&	38.860 N	26.180 E	5			6	AEGEAN SEA. <ATH>. ML 3.3 (ATH).
18	21	33	02.4	1.655 N	66.658 E	10 G	5.0 4.6	1.0	82	CARLSBERG RIDGE. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 21:33:07.3; Lat 1.20 N; Lon 66.67 E; Dep 15.0 Fix; Half-

duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.66, Plg=33, Azm=24; (N) Val=-0.25, Plg=8, Azm=119; (P) Val=-1.41, Plg=55, Azm=221; Best double couple: Mo=1.5*10**17 Nm; NP1: Strike=84, Dip=14, Slip=-126; NP2: Strike=301, Dip=79, Slip=82.

18 21 40 38.4? 51.09 N 178.96 W 33 N 4.0 1.3 13 ANDREANOF ISLANDS, ALEUTIAN IS.

18 21 46 09.2 1.272 N 126.423 E 33 N 4.7 1.1 30 NORTHERN MOLUCCA SEA

18 22 19 31.9 32.993 N 83.214 W 5 G 0.9 11 GEORGIA, USA. mbLg 3.5 (GS). Felt (V) at McIntyre; (III) at Eatonton, Gordon, Greensboro, Haddock and Milledgeville; (II) at Juliette and Macon. Felt in Baldwin, Bibb, Greene, Hancock, Jones, Putnam, Twiggs, Washington and Wilkinson Counties.

18 22 49 05.1& 17.979 N 65.683 W 6 6 PUERTO RICO REGION. <RSPR>. MD 2.9 (RSPR).

18 23 26 01.3& 38.750 N 122.914 W 7 43 NORTHERN CALIFORNIA. <NC-P>. Mw 4.3 (BRK). ML 4.2 (NC), 4.2 (BRK). Felt (V) at Geyserville and (IV) at Cloverdale, Guerneville, Healdsburg and Monte Rio. Also felt at Angwin, Novato, Petaluma, Santa Rosa and as far as San Francisco. Moment Tensor (BRK): Dep 6; Principal axes (scale 10**15 Nm): (T) Val=3.20, Plg=25, Azm=117; (N) Val=0.00, Plg=37, Azm=6; (P) Val=-3.20, Plg=42, Azm=233; Best double couple: Mo=3.2*10**15 Nm; NP1: Strike=76, Dip=39, Slip=-16; NP2: Strike=359, Dip=80, Slip=-128.

18 23 58 22.7& 18.934 N 68.099 W 10 9 MONA PASSAGE. <RSPR>. MD 3.8 (RSPR).

19 00 01 56.6& 34.830 N 25.430 E 34 4.0 51 CRETE, GREECE. <ATH>. MD 4.0 (ATH).

19 00 11 11.4 47.353 N 11.884 E 10 G 0.8 7 AUSTRIA. ML 1.8 (VIE).

19 00 21 28.3 18.200 S 178.307 W 461 ? 4.6 1.0 67 FIJI ISLANDS REGION

19 01 24 00.1& 31.440 S 71.384 W 36 12 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).

19 01 44 58.2& 44.370 N 7.259 E 11 6 NORTHERN ITALY. <GEN>. ML 1.8 (GEN).

19 01 51 01.5& 37.057 N 5.156 W 0 G 5 SPAIN. <MDD>. mbLg 1.8 (MDD).

19 02 06 04.2? 27.98 N 139.74 E 465 ? 3.5 0.9 12 BONIN ISLANDS, JAPAN REGION

19 02 06 49.2& 37.222 N 3.643 W 0 G 5 SPAIN. <MDD>. mbLg 1.7 (MDD).

19 02 36 52.2* 44.364 N 128.714 W 10 G 4.0 1.0 32 OFF COAST OF OREGON

19 03 06 57.2& 38.200 N 20.660 E 5 6 GREECE. <ATH>. MD 3.2 (ATH).

19 03 19 51.9* 11.717 S 166.053 E 33 N 4.7 0.6 15 SANTA CRUZ ISLANDS

19 05 08 48.4 39.425 N 144.381 E 33 N 4.0 0.6 15 OFF EAST COAST OF HONSHU, JAPAN

19 05 27 12.9& 9.803 N 79.155 W 6 5 PANAMA. <UPA>. MD 3.7 (UPA).

19 05 34 02.3& 36.972 N 3.811 W 5 5 STRAIT OF GIBRALTAR. <MDD>. mbLg 1.4 (MDD).

19 05 52 33.8& 36.817 N 5.469 W 0 G 5 STRAIT OF GIBRALTAR. <MDD>. mbLg 2.0 (MDD).

19 07 09 33.5 36.372 N 70.379 E 207 D 5.5 0.9 461 HINDU KUSH REGION, AFGHANISTAN. Mw 6.0 (GS), 6.0 (HRV). Me 5.8 (GS). Felt at Jalalabad and Kabul. Felt in northern Pakistan from Chitral south to Lahore, including the Islamabad area. Also felt (III) at Andijon, Farghona and Toshkent, Uzbekistan. Broadband Source Parameters (GS): Dep 207; NP1: Strike=295, Dip=55, Slip=80; NP2: Strike=132, Dip=36, Slip=104; Radiated energy 1.3*10**13 Nm. Two events about 1.5 seconds apart. Depth based on first event. Moment Tensor (GS): Dep 208; Principal axes (scale 10**18 Nm): (T) Val=1.07, Plg=80, Azm=218; (N) Val=-0.13, Plg=6, Azm=94; (P) Val=-0.94, Plg=9, Azm=3; Best double couple: Mo=1.0*10**18 Nm; NP1: Strike=86, Dip=37, Slip=80; NP2: Strike=278, Dip=54, Slip=97. Centroid, Moment Tensor (HRV): Centroid origin time 07:09:38.6; Lat 36.30 N; Lon 70.29 E; Dep 224.3; Half-duration 2.4 sec; Principal axes (scale 10**17 Nm): (T) Val=9.44, Plg=70, Azm=237; (N) Val=0.50, Plg=14, Azm=105; (P) Val=-9.94, Plg=14, Azm=11; Best double couple: Mo=9.7*10**17 Nm; NP1: Strike=83, Dip=33, Slip=65; NP2: Strike=293, Dip=60, Slip=106.

19 07 40 39.2& 7.181 N 82.428 W 29 4 SOUTH OF PANAMA. <UPA>. MD 4.0 (UPA).

19 08 22 49.5& 43.941 N 7.821 E 5 9 NEAR SOUTH COAST OF FRANCE. <GEN>. ML 2.0 (GEN).

19 08 30 01.0 15.616 S 75.132 W 33 N 5.0 4.9 1.0 74 NEAR COAST OF PERU. Mw 5.4 (HRV). Felt (III) at San Juan de Marcona and (II) at Nazca. Centroid, Moment Tensor (HRV): Centroid origin time 08:30:01.5; Lat 16.44 S; Lon 74.78 W; Dep 24.2; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.64, Plg=51, Azm=116; (N) Val=-0.33, Plg=34, Azm=332; (P) Val=-1.31, Plg=18, Azm=230; Best double couple: Mo=1.5*10**17 Nm; NP1: Strike=280, Dip=40, Slip=31; NP2: Strike=165, Dip=71, Slip=126.

19 08 35 30.1& 43.072 N 0.388 W 2 7 PYRENEES. <LDG>. ML 2.5 (LDG), 2.3 (STR).

19 08 55 21.0* 16.043 N 98.473 W 33 N 1.1 16 NEAR COAST OF GUERRERO, MEXICO. MD 4.3 (UNM).

19 08 56 44.9 11.360 S 73.055 W 33 N 4.3 0.7 18 CENTRAL PERU

19 10 13 10.3* 3.790 S 139.814 E 67 * 4.7 0.9 18 IRIAN JAYA, INDONESIA

19 10 45 21.2& 38.378 N 25.774 E 0 11 AEGEAN SEA. <ISK>. MD 3.7 (ISK), 3.6 (ATH).

19 11 11 02.6 38.095 N 118.706 W 5 G 0.8 31 CALIFORNIA-NEVADA BORDER REGION. ML 3.3 (GS), 3.3 (BRK).

19 12 29 33.4& 28.900 N 98.500 W 5 G 4 SOUTHERN TEXAS. <MACRO>. mbLg 2.6 (GS). Felt at Jourdanon.

19 13 05 51.3& 34.478 N 33.157 E 10 6 CYPRUS REGION. <CSS>. ML 3.0 (CSS).

19 13 12 39.1& 42.960 S 171.130 E 29 12 SOUTH ISLAND, NEW ZEALAND. <WEL>. ML 4.1 (WEL).

19 14 32 41.9& 44.749 N 6.705 E 5 7 FRANCE. <GEN>. ML 2.1 (GEN).

19 15 42 50.2& 38.380 S 176.860 E 213 12 NORTH ISLAND, NEW ZEALAND. <WEL>.

19 15 52 56.7 51.648 N 177.603 W 33 N 4.1 0.9 29 ANDREANOF ISLANDS, ALEUTIAN IS.

19 16 11 29.0& 44.157 N 7.194 E 12 4 NORTHERN ITALY. <GEN>. ML 1.5 (GEN).

19 16 21 27.1* 34.548 N 13.861 E 10 G 4.1 1.2 30 CENTRAL MEDITERRANEAN SEA. ML 4.4 (ROM).

19 16 25 50.3& 60.138 N 149.643 W 40 57 KENAI PENINSULA, ALASKA. <AEIC>. ML 2.9 (AEIC), 3.2 (PMR).

19 17 59 37.0* 25.595 N 101.098 E 33 N 4.0 1.5 11 YUNNAN, CHINA. ML 3.9 (BJI).

19 18 30 11.8& 31.672 S 70.579 W 115 14 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.6 (GUC).

19 18 39 30.0& 36.579 N 3.422 W 7 8 STRAIT OF GIBRALTAR. <MDD>. mbLg 2.1 (MDD).

19 19 05 28.8& 37.296 N 3.829 W 16 5 SPAIN. <MDD>. mbLg 1.8 (MDD).

19 19 28 00.2& 18.571 N 66.040 W 76 5 PUERTO RICO REGION. <RSPR>. MD 2.6 (RSPR).

19 19 43 00.1 39.411 N 27.710 E 10 G 0.6 13 TURKEY. MD 3.7 (ATH).

19 19 51 04.1& 34.690 N 116.299 W 2 11 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).

19 19 56 50.9 16.297 N 96.508 W 33 N 4.1 0.9 41 OAXACA, MEXICO. MD 4.3 (UNM).

19	20	23	20.2	43.897	N	128.288	W	10	G	4.4	0.9	75	OFF COAST OF OREGON
19	20	42	46.7	38.210	N	22.470	E	75				4	GREECE. <ATH>.
19	20	56	23.9	13.791	N	60.425	W	26				11	WINDWARD ISLANDS. <TRN>. MD 3.7 (TRN).
19	20	59	28.2	19.825	N	101.289	E	33	N	5.1 5.1	1.2	158	LAOS. Mw 5.4 (HRV). Felt strongly at Xaignabouli. Felt in much of northwestern Thailand. Centroid, Moment Tensor (HRV): Centroid origin time 20:59:26.2; Lat 19.92 N; Lon 101.33 E; Dep 15.0 Fix; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.65, Plg=10, Azm=288; (N) Val=-0.13, Plg=79, Azm=131; (P) Val=-1.51, Plg=4, Azm=19; Best double couple: Mo=1.6*10**17 Nm; NP1: Strike=64, Dip=80, Slip=4; NP2: Strike=333, Dip=86, Slip=170.
19	21	12	00.3	46.181	N	14.513	E	10	G		0.4	6	NORTHWESTERN BALKAN REGION. ML 1.7 (VIE), 1.6 (LJU).
19	21	39	32.4	38.570	N	72.968	E	90	?	3.7	0.7	12	TAJIKISTAN
19	22	15	48.2	5.308	S	152.813	E	33	N	4.4	1.2	12	NEW BRITAIN REGION, P.N.G.
19	22	18	11.8	37.04	N	71.47	E	91	?	3.9	0.5	8	AFGHANISTAN-TAJIKISTAN BORD REG.
19	23	09	39.0	47.993	N	26.814	E	33	N	3.6	1.4	19	ROMANIA. Felt at Botosani.
20	00	59	23.7	28.227	S	176.563	W	33	N	5.4 5.5	1.0	108	KERMADEC ISLANDS REGION. Mw 5.8 (GS), 5.7 (HRV). Moment Tensor (GS): Dep 4; Principal axes (scale 10**17 Nm): (T) Val=6.30, Plg=44, Azm=264; (N) Val=-0.29, Plg=15, Azm=9; (P) Val=-6.02, Plg=42, Azm=113; Best double couple: Mo=6.2*10**17 Nm; NP1: Strike=276, Dip=15, Slip=177; NP2: Strike=9, Dip=89, Slip=75. Centroid, Moment Tensor (HRV): Centroid origin time 00:59:27.2; Lat 28.22 S; Lon 176.16 W; Dep 15.0 Bdy; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=3.70, Plg=56, Azm=284; (N) Val=0.23, Plg=0, Azm=193; (P) Val=-3.93, Plg=34, Azm=103; Best double couple: Mo=3.8*10**17 Nm; NP1: Strike=192, Dip=11, Slip=89; NP2: Strike=13, Dip=79, Slip=90.
20	01	13	22.9	6.20	S	149.11	E	68	?	4.4	0.8	10	NEW BRITAIN REGION, P.N.G.
20	01	49	12.9	18.551	S	178.170	W	585	?	4.3	0.9	31	FIJI ISLANDS REGION
20	03	03	14.2	50.655	N	6.898	E	10	G		0.9	108	GERMANY. ML 4.3 (LDG), 4.3 (FUR), 4.1 (STR), 4.1 (VIE), 4.0 (CLL), 3.9 (UCC), 3.8 (FBB). Felt in the Bonn-Meckenheim area.
20	03	18	04.7	38.499	N	1.305	W	11				9	SPAIN. <MDD>. mbLg 2.1 (MDD).
20	03	27	23.5	48.013	N	116.442	W	5	G		0.6	31	WESTERN IDAHO. ML 3.3 (GS), 3.5 (BUT). MD 3.3 (SEA). Felt (IV) at Careywood and (III) at Sandpoint. Also felt at Ferragut State Park.
20	05	04	06.8	61.492	N	146.502	W	35				5	SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).
20	05	29	41.3	44.859	N	9.283	E	0				28	NORTHERN ITALY. <GEN>. ML 2.5 (GEN), 2.4 (STR), 2.4 (LDG).
20	05	54	34.2	6.261	S	147.555	E	33	N	5.2 4.8	1.1	66	EASTERN NEW GUINEA REG., P.N.G. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 05:54:36.2; Lat 7.03 S; Lon 148.14 E; Dep 15.0 Fix; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.84, Plg=49, Azm=310; (N) Val=0.03, Plg=4, Azm=216; (P) Val=-1.87, Plg=40, Azm=122; Best double couple: Mo=1.9*10**17 Nm; NP1: Strike=174, Dip=6, Slip=48; NP2: Strike=36, Dip=85, Slip=94.
20	06	13	02.6	56.618	N	161.869	W	221	D	5.7	1.0	591	ALASKA PENINSULA. Mw 5.8 (GS), 5.7 (HRV). Me 6.0 (GS). Felt (IV) at Sand Point. Broadband Source Parameters (GS): Dep 215; NP1: Strike=146, Dip=87, Slip=25; NP2: Strike=55, Dip=65, Slip=177; Radiated energy 2.4*10**13 Nm. Moment Tensor (GS): Dep 218; Principal axes (scale 10**17 Nm): (T) Val=5.53, Plg=21, Azm=31; (N) Val=0.23, Plg=65, Azm=179; (P) Val=-5.75, Plg=12, Azm=296; Best double couple: Mo=5.6*10**17 Nm; NP1: Strike=72, Dip=66, Slip=173; NP2: Strike=165, Dip=84, Slip=24. Centroid, Moment Tensor (HRV): Centroid origin time 06:13:04.3; Lat 56.45 N; Lon 161.64 W; Dep 217.7; Half-duration 1.8 sec; Principal axes (scale 10**17 Nm): (T) Val=4.65, Plg=29, Azm=23; (N) Val=0.17, Plg=52, Azm=158; (P) Val=-4.83, Plg=22, Azm=280; Best double couple: Mo=4.7*10**17 Nm; NP1: Strike=59, Dip=52, Slip=174; NP2: Strike=153, Dip=86, Slip=38.
20	07	11	38.2	46.130	N	7.010	E	5	G			40	SWITZERLAND. <STR>. ML 2.9 (LDG), 2.7 (STR), 2.4 (FBB).
20	07	18	16.4	34.452	N	33.255	E	15				7	CYPRUS REGION. <CSS>. ML 3.0 (CSS).
20	07	26	18.1	18.922	N	67.177	W	17				7	MONA PASSAGE. <RSPPR>. MD 3.1 (RSPPR).
20	07	46	54.4	32.907	S	70.119	W	110	D	4.4	0.9	56	CHILE-ARGENTINA BORDER REGION. MD 4.2 (GUC). Felt (III) at Colina, Concon, La Ligua, Lampa, Los Andes, Olmue, Petorca, San Felipe, Santiago, Valparaiso and Vina del Mar; (II) at Guardia Vieja, Chile.
20	07	56	52.9	3.292	N	74.417	W	33	N		1.4	9	COLOMBIA. ML 3.5 (RSNC).
20	08	03	39.5	34.295	N	116.765	W	3				33	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS). Felt (III) at Big Bear City. Also felt at Victorville and Yucca Valley.
20	08	04	47.1	20.844	S	178.852	W	623	?	4.6	0.8	35	FIJI ISLANDS REGION
20	08	49	03.2	43.742	N	7.302	E	1				6	NEAR SOUTH COAST OF FRANCE. <GEN>. ML 1.9 (GEN).
20	09	34	35.1	49.099	N	6.715	E	1				25	GERMANY. <LDG>. ML 3.4 (LDG), 3.2 (GRF). Mining induced event in the Lorraine region, France.
20	09	41	47.3	43.649	N	127.257	W	10	G	5.7 5.6	1.0	182	OFF COAST OF OREGON. Mw 6.1 (GS), 6.1 (HRV). Me 6.4 (GS). Broadband Source Parameters (GS): Dep 7; NP1: Strike=112, Dip=89, Slip=175; NP2: Strike=202, Dip=85, Slip=1; Radiated energy 8.2*10**13 Nm. Moment Tensor (GS): Dep 14; Principal axes (scale 10**18 Nm): (T) Val=1.36, Plg=4, Azm=76; (N) Val=0.18, Plg=79, Azm=188; (P) Val=-1.55, Plg=10, Azm=345; Best double couple: Mo=1.5*10**18 Nm; NP1: Strike=121, Dip=80, Slip=-176; NP2: Strike=30, Dip=86, Slip=-10. Centroid, Moment Tensor (HRV): Centroid origin time 09:41:53.7; Lat 43.58 N; Lon 127.77 W; Dep 15.0 Fix; Half-duration 2.6 sec; Principal axes (scale 10**18 Nm): (T) Val=1.50, Plg=6, Azm=71; (N) Val=-0.05, Plg=83, Azm=288;

(P) Val=-1.46, Plg=4, Azm=161; Best double couple:
Mo=1.5*10**18 Nm; NP1: Strike=206, Dip=83, Slip=1; NP2:
Strike=116, Dip=89, Slip=173.

20 10 00 16.7& 34.515 N 32.086 E 25 5 CYPRUS REGION. <CSS>. ML 2.9 (CSS).

20 10 04 55.3 38.048 N 118.692 W 5 G 1.1 18 CALIFORNIA-NEVADA BORDER REGION. ML 2.9 (GS), 3.2 (BRK).

20 10 35 58.3 40.760 N 31.369 E 10 G 4.3 1.3 84 TURKEY. MD 4.1 (ISK).

20 10 51 17.4 0.235 S 18.042 W 10 G 4.8 0.9 77 CENTRAL MID-ATLANTIC RIDGE

20 10 52 18.0* 28.324 S 176.452 W 33 N 4.8 0.8 22 KERMADEC ISLANDS REGION

20 10 56 26.4* 24.478 S 179.648 E 626 ? 4.7 0.8 30 SOUTH OF FIJI ISLANDS

20 11 25 42.3* 9.325 S 74.688 W 33 N 4.3 0.7 11 CENTRAL PERU

20 11 51 29.9? 51.42 N 176.39 W 33 N 3.7 1.5 6 ANDREANOF ISLANDS, ALEUTIAN IS.

20 12 20 47.1& 10.379 N 83.968 W 10 8 COSTA RICA. <UPA>. MD 4.5 (UPA). Felt at San Jose.

20 12 47 19.0* 1.230 N 30.443 W 10 G 4.4 0.9 12 CENTRAL MID-ATLANTIC RIDGE

20 12 54 24.3 27.785 N 85.813 E 33 N 4.4 1.2 23 NEPAL

20 13 45 48.6& 34.537 N 116.304 W 1 10 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).

20 14 26 43.9 5.333 S 153.980 E 120 * 4.6 0.9 29 NEW IRELAND REGION, P.N.G.

20 14 26 50.0& 49.160 N 6.910 E 1 G 15 GERMANY. <FBB>. ML 3.0 (LDG), 2.5 (FBB). Mining induced event in the Lorraine region, France.

20 14 55 33.9& 61.976 N 152.142 W 111 3.3 60 SOUTHERN ALASKA. <AEIC>.

20 15 45 23.2* 0.238 N 18.076 W 10 G 4.6 1.3 31 CENTRAL MID-ATLANTIC RIDGE

20 16 01 48.6 39.447 N 144.422 E 33 N 4.6 0.9 40 OFF EAST COAST OF HONSHU, JAPAN

20 17 42 11.8 23.477 N 121.526 E 33 N 4.7 1.0 38 TAIWAN. ML 5.0 (TAP). Recorded (3 TAP) in the epicentral area and (2 TAP) at Chia-i and Hua-lien.

20 17 44 46.2& 19.269 N 66.595 W 50 6 PUERTO RICO REGION. <RSRP>. MD 3.3 (RSRP).

20 18 18 54.9* 17.577 S 167.811 E 33 N 5.0 1.0 33 VANUATU ISLANDS

20 19 17 05.3* 39.329 N 72.142 E 64 * 4.0 0.9 15 KYRGYZSTAN

20 19 33 59.3& 42.850 N 0.310 W 2 G 5 PYRENEES. <STR>. ML 2.3 (STR), 1.8 (LDG).

20 20 00 41.7 51.711 N 176.912 E 51 5.3 4.9 0.8 299 RAT ISLANDS, ALEUTIAN ISLANDS. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 20:00:45.0; Lat 51.66 N; Lon 176.82 E; Dep 44.0; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.13, Plg=8, Azm=262; (N) Val=0.20, Plg=31, Azm=166; (P) Val=-1.33, Plg=57, Azm=5; Best double couple: Mo=1.2*10**17 Nm; NP1: Strike=23, Dip=46, Slip=-43; NP2: Strike=146, Dip=61, Slip=-127.

20 20 05 05.5& 49.148 N 6.851 E 1 G 12 GERMANY. <LDG>. ML 2.6 (LDG). Mining induced event in the Lorraine region, France.

20 20 16 56.4 37.430 N 11.737 E 10 G 1.0 21 SICILY, ITALY. ML 3.5 (ROM).

20 21 01 14.4* 36.539 N 70.441 E 33 N 4.0 0.9 8 HINDU KUSH REGION, AFGHANISTAN

20 23 05 39.3* 17.538 S 65.088 W 33 N 4.0 1.2 7 CENTRAL BOLIVIA

20 23 26 16.4 36.690 N 5.323 E 10 G 3.6 1.2 62 NORTHERN ALGERIA. ML 3.1 (MDD).

20 23 33 13.2& 40.166 N 124.399 W 0 6 NEAR COAST OF NORTHERN CALIF. <NC-P>. MD 3.0 (NC).

21 01 36 24.9& 24.060 N 121.410 E 8 5 TAIWAN. <TAP>. ML 4.5 (TAP). Recorded (3 TAP) at Hua-lien.

21 01 43 54.8 79.202 N 19.004 W 10 G 4.4 0.9 34 EASTERN GREENLAND

21 02 08 35.5* 36.440 N 5.403 E 10 G 3.6 1.2 38 NORTHERN ALGERIA

21 02 50 49.3& 17.734 N 99.791 W 40 16 GUERRERO, MEXICO. <UNM>. MD 3.6 (UNM).

21 03 12 00.2 13.147 N 125.755 E 33 N 5.5 5.2 1.2 147 PHILIPPINE ISLANDS REGION. Mw 5.7 (HRV), 5.5 (GS). Centroid, Moment Tensor (GS): Dep 12; Principal axes (scale 10**17 Nm): (T) Val=2.18, Plg=13, Azm=255; (N) Val=0.00, Plg=12, Azm=348; (P) Val=-2.18, Plg=72, Azm=118; Best double couple: Mo=2.2*10**17 Nm; NP1: Strike=328, Dip=33, Slip=-113; NP2: Strike=175, Dip=60, Slip=-76. Centroid, Moment Tensor (HRV): Centroid origin time 03:11:59.5; Lat 13.27 N; Lon 125.72 E; Dep 15.0 Fix; Half-duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=3.97, Plg=20, Azm=230; (N) Val=-0.16, Plg=5, Azm=322; (P) Val=-3.81, Plg=69, Azm=66; Best double couple: Mo=3.9*10**17 Nm; NP1: Strike=312, Dip=25, Slip=-102; NP2: Strike=145, Dip=65, Slip=-84.

21 03 29 05.5& 37.087 N 3.584 W 0 G 12 SPAIN. <MDD>. mbLg 2.3 (MDD).

21 04 04 58.6& 36.839 N 3.121 W 0 G 7 STRAIT OF GIBRALTAR. <MDD>. mbLg 1.7 (MDD).

21 04 22 25.4& 37.572 N 118.860 W 10 8 CALIFORNIA-NEVADA BORDER REGION. <NC-P>. MD 2.8 (NC).

21 04 39 50.1& 37.570 N 118.861 W 10 58 CALIFORNIA-NEVADA BORDER REGION. <NC-P>. MD 3.6 (NC). ML 3.8 (BRK). Felt (II) at Auberry and Mammoth Lakes, California.

21 05 04 10.6 59.287 S 17.224 W 10 G 5.0 1.0 15 EAST OF SOUTH SANDWICH ISLANDS. Mw 5.8 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 05:04:19.0; Lat 59.31 S; Lon 17.06 W; Dep 15.0 Fix; Half-duration 1.9 sec; Principal axes (scale 10**17 Nm): (T) Val=5.59, Plg=4, Azm=128; (N) Val=-0.30, Plg=83, Azm=0; (P) Val=-5.29, Plg=5, Azm=218; Best double couple: Mo=5.4*10**17 Nm; NP1: Strike=263, Dip=83, Slip=-1; NP2: Strike=353, Dip=89, Slip=-173.

21 05 28 10.1& 18.951 N 66.541 W 56 7 PUERTO RICO REGION. <RSRP>. MD 3.2 (RSRP).

21 05 40 55.8& 37.572 N 118.862 W 10 18 CALIFORNIA-NEVADA BORDER REGION. <NC-P>. MD 2.9 (NC).

21 05 42 41.3? 53.59 N 163.20 W 33 N 3.9 1.3 12 UNIMAK ISLAND REGION, ALASKA

21 05 57 41.5* 28.278 S 176.353 W 33 N 5.1 1.0 50 KERMADEC ISLANDS REGION

21 05 59 49.0& 42.990 N 71.180 W 2 6 SOUTHERN NEW ENGLAND. <WES-P>. MD 2.5 (WES). mbLg 2.6 (OTT). Felt at Chester, Derry, Fremont, Hampstead, Manchester and Raymond, New Hampshire.

21 06 02 04.6& 18.879 N 67.098 W 15 4 MONA PASSAGE. <RSRP>. MD 2.8 (RSRP).

21 07 18 56.6& 40.296 N 19.387 E 5 9 ALBANIA. <PDG>. MD 3.3 (PDG).

21 07 30 15.9* 38.304 N 73.951 E 148 * 3.9 0.9 16 TAJIKISTAN-XINJIANG BORDER REG.

21 08 04 53.3 10.355 S 74.306 W 33 N 4.4 0.8 21 CENTRAL PERU

21 08 32 14.0& 43.040 N 0.730 W 6 14 PYRENEES. <STR>. ML 2.4 (STR), 2.3 (LDG). mbLg 2.2 (MDD).

21 09 01 04.2 22.978 S 69.023 W 79 D 4.8 1.0 57 NORTHERN CHILE. Felt (IV) at Baquedano, Mejillones and Sierra Gorda; (III) at Antofagasta.

21 09 17 22.7* 27.442 S 74.376 E 10 G 4.3 0.9 9 MID-INDIAN RIDGE

21 09 48 26.6? 51.29 N 179.04 E 33 N 3.6 1.1 8 RAT ISLANDS, ALEUTIAN ISLANDS

21 10 18 33.8 38.082 N 118.709 W 5 G 0.9 19 CALIFORNIA-NEVADA BORDER REGION. ML 2.9 (GS).

21 10 20 30.7 0.025 S 123.637 E 153 * 4.9 0.7 15 MINAHASSA PENINSULA, SULAWESI

21 10 23 49.5* 17.706 N 94.197 W 148 * 3.8 1.1 20 CHIAPAS, MEXICO. MD 4.3 (UNM).

21 11 01 14.6& 42.736 N 19.145 E 17 4 NORTHWESTERN BALKAN REGION. <PDG>. MD 1.3 (PDG).

21 11 44 01.2& 44.840 N 7.202 E 9 11 NORTHERN ITALY. <GEN>. ML 2.3 (GEN).

21	13	56	12.4%	34.852 N	116.388 W	7									15	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
21	14	01	44.4%	32.585 N	118.207 W	6 G									6	OFF COAST OF CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
21	14	03	28.0%	42.038 N	20.505 E	10									11	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.3 (PDG). ML 1.8 (SKO).
21	14	13	38.0%	44.770 N	110.660 W	2									25	YELLOWSTONE REGION, WYOMING. <SLC-P>. ML 3.0 (SLC).
21	14	31	37.7*	51.098 N	178.125 W	33 N	4.2	0.8							16	ANDREANOF ISLANDS, ALEUTIAN IS.
21	14	34	11.7%	35.340 N	23.580 E	6									6	CRETE, GREECE. <ATH>. MD 2.2 (ATH).
21	14	40	17.7?	12.79 S	166.45 E	175 ?		1.1							9	SANTA CRUZ ISLANDS
21	14	42	54.6%	40.130 S	176.190 E	33 N									12	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.6 (WEL).
21	15	22	12.7%	33.922 S	70.976 W	72									11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.8 (GUC).
21	16	03	00.7%	49.170 N	6.850 E	1 G									10	GERMANY. <FBB>. MD 2.6 (LDG). ML 2.0 (FBB). Mining induced event in the Lorraine region, France.
21	16	17	26.9	1.227 S	98.877 E	33 N	5.0	4.3	0.9						40	SOUTHERN SUMATERA, INDONESIA
21	16	58	58.0%	62.112 N	148.634 W	33 N									9	CENTRAL ALASKA. <AEIC>. ML 2.5 (AEIC).
21	17	08	00.4%	34.573 N	116.264 W	0									29	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
21	17	12	10.3%	40.890 S	175.120 E	29									13	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.9 (WEL). Felt at Waikanae.
21	18	17	22.9%	61.725 N	149.724 W	41									50	SOUTHERN ALASKA. <AEIC>. ML 3.0 (AEIC), 3.0 (PMR).
21	18	22	26.3?	4.68 S	152.88 E	75 *	4.5	1.1							13	NEW BRITAIN REGION, P.N.G.
21	18	38	16.8%	36.756 N	7.368 W	15									17	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.6 (MDD).
21	19	15	38.0%	60.255 N	153.230 W	145	3.0								93	SOUTHERN ALASKA. <AEIC>.
21	19	37	58.4*	51.807 N	175.457 W	65 *	3.8	0.8							13	ANDREANOF ISLANDS, ALEUTIAN IS.
21	20	01	01.9?	43.33 N	128.10 W	10 G									20	OFF COAST OF OREGON
21	20	50	43.1%	44.660 N	3.121 E	2									10	FRANCE. <LDG>. MD 2.4 (LDG). ML 2.0 (STR).
21	21	47	52.2*	34.830 N	140.590 E	89 *	4.6	0.7							17	NEAR EAST COAST OF HONSHU, JAPAN. Recorded (2 JMA) in southern Chiba and (1 JMA) in eastern Shizuoka Prefectures. Also recorded (1 JMA) on Miyake-jima.
21	22	50	14.9%	38.900 S	175.780 E	112									14	NORTH ISLAND, NEW ZEALAND. <WEL>.
21	22	51	57.7%	44.431 N	7.306 E	10									10	NORTHERN ITALY. <GEN>. ML 2.1 (GEN).
21	23	15	26.3%	38.320 N	22.060 E	5	4.1								76	GREECE. <ATH>. ML 4.0 (ROM). MD 3.6 (ATH).
22	00	29	34.7	6.251 S	152.048 E	35 *	5.1	4.6	0.9						52	NEW BRITAIN REGION, P.N.G. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 00:29:37.6; Lat 6.53 S; Lon 152.56 E; Dep 18.8; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.78, Plg=11, Azm=345; (N) Val=0.88, Plg=2, Azm=75; (P) Val=-7.67, Plg=79, Azm=173; Best double couple: Mo=7.2*10**16 Nm; NP1: Strike=73, Dip=34, Slip=-93; NP2: Strike=256, Dip=56, Slip=-88.
22	00	48	36.6%	18.415 N	66.136 W	123									4	PUERTO RICO REGION. <RSRP>. MD 2.7 (RSRP).
22	01	56	05.7*	2.965 N	128.337 E	73 *	4.7	0.9							10	HALMAHERA, INDONESIA
22	02	01	55.0%	38.390 N	21.980 E	15									8	GREECE. <ATH>. MD 3.0 (ATH).
22	03	13	32.7*	43.591 N	127.776 W											

22	21	40	33.3	51.116 N	178.011 W	33 N	5.1	0.8	198	Strike=55, Dip=75, Slip=-22. ANDREANOF ISLANDS, ALEUTIAN IS. Mw 5.3 (HRV). ML 5.1 (PMR). Centroid, Moment Tensor (HRV): Centroid origin time 21:40:33.4; Lat 51.16 N; Lon 177.77 W; Dep 54.9; Half- duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.12, Plg=77, Azm=283; (N) Val=-0.18, Plg=13, Azm=101; (P) Val=-0.94, Plg=0, Azm=191; Best double couple: Mo=1.0*10**17 Nm; NP1: Strike=294, Dip=46, Slip=108; NP2: Strike=89, Dip=47, Slip=73.
22	22	09	46.9	31.844 S	69.914 W	143			11	SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 3.3 (GUC).
22	23	00	27.9	30.081 N	138.738 E	430 *	4.2	0.8	16	SOUTHEAST OF HONSHU, JAPAN
22	23	05	13.0	17.299 S	178.630 W	550 G	4.5	0.7	22	FIJI ISLANDS REGION
22	23	10	33.5	34.326 N	116.767 W	2			32	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
22	23	18	16.6	44.620 N	150.014 E	33 N	4.4	1.1	10	EAST OF KURIL ISLANDS
22	23	34	43.0	44.327 N	7.300 E	10			46	NORTHERN ITALY. <GEN>. ML 3.0 (GEN), 2.6 (STR), 2.6 (LDG).
22	23	39	47.7	51.475 N	16.150 E	5 G		0.7	8	POLAND. ML 3.4 (VIE).
23	00	21	24.8	25.636 N	101.066 E	33 N	4.2	1.2	13	YUNNAN, CHINA. ML 4.3 (BJI).
23	00	33	31.7	22.243 N	93.674 E	93 ?	4.3	1.2	13	MYANMAR-INDIA BORDER REGION
23	01	40	03.5	44.890 N	7.506 E	26			26	NORTHERN ITALY. <GEN>. ML 2.5 (GEN), 2.2 (STR). MD 2.5 (LDG).
23	01	40	03.9	23.100 S	67.977 W	141 *	4.6	1.3	19	CHILE-ARGENTINA BORDER REGION
23	01	43	21.3	35.790 N	22.960 E	5			4	CENTRAL MEDITERRANEAN SEA. <ATH>.
23	01	43	30.9	8.772 N	77.877 W	80 *	4.2	1.0	14	PANAMA-COLOMBIA BORDER REGION. MD 4.3 (UPA).
23	01	49	35.8	17.141 N	122.674 E	33 N	4.2	1.4	9	LUZON, PHILIPPINES
23	02	31	32.1	32.338 N	138.123 E	372 *		0.4	14	SOUTHEAST OF HONSHU, JAPAN
23	03	10	15.5	61.111 N	150.264 W	58			12	SOUTHERN ALASKA. <AEIC>. ML 2.4 (AEIC), 2.4 (PMR).
23	03	13	44.4	46.160 N	15.382 E	10 G		0.2	6	NORTHWESTERN BALKAN REGION. ML 1.3 (VIE).
23	03	14	47.5	36.561 S	73.573 W	33 N		1.1	17	NEAR COAST OF CENTRAL CHILE. MD 3.8 (GUC).
23	04	18	53.3	63.599 N	150.631 W	10 G		0.9	13	CENTRAL ALASKA. ML 3.7 (PMR).
23	04	23	53.0	57.166 N	154.666 W	42			6	KODIAK ISLAND REGION, ALASKA. <AEIC>. ML 2.7 (AEIC).
23	05	35	40.1	37.401 N	4.295 W	21			7	SPAIN. <MDD>. mbLg 1.3 (MDD).
23	05	38	15.9	34.250 N	116.439 W	6			37	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
23	05	38	30.7	49.116 N	6.753 E	1 G			10	GERMANY. <LDG>. ML 2.3 (LDG), 2.3 (UCC). Mining induced event in the Lorraine region, France.
23	05	53	43.7	28.314 S	176.663 W	80 ?	4.8	1.0	48	KERMADEC ISLANDS REGION
23	05	53	59.0	52.310 N	131.830 W	20 G	3.5		30	QUEEN CHARLOTTE ISLANDS REGION. <PGC-P>. ML 4.0 (PGC).
23	06	00	02.7	34.852 N	116.323 W	5			44	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
23	06	08	24.9	7.967 S	120.613 E	47 D	5.7 5.2	1.2	151	FLORES SEA. Mw 5.8 (HRV), 5.7 (GS). Me 5.9 (GS). Felt (III) at Ruteng, Indonesia. Broadband Source Parameters (GS): Dep 11; NP1: Strike=235, Dip=45, Slip=90; NP2: Strike=55, Dip=45, Slip=90; Radiated energy 1.4*10**13 Nm. Moment Tensor (GS): Dep 7; Principal axes (scale 10**17 Nm): (T) Val=3.59, Plg=67, Azm=21; (N) Val=0.06, Plg=17, Azm=248; (P) Val=-3.65, Plg=16, Azm=153; Best double couple: Mo=3.6*10**17 Nm; NP1: Strike=220, Dip=32, Slip=58; NP2: Strike=77, Dip=63, Slip=109. Centroid, Moment Tensor (HRV): Centroid origin time 06:08:31.1; Lat 7.77 S; Lon 120.99 E; Dep 15.0 Bdy; Half- duration 1.8 sec; Principal axes (scale 10**17 Nm): (T) Val=5.33, Plg=69, Azm=66; (N) Val=-0.68, Plg=21, Azm=249; (P) Val=-4.64, Plg=1, Azm=158; Best double couple: Mo=5.0*10**17 Nm; NP1: Strike=228, Dip=48, Slip=61; NP2: Strike=88, Dip=50, Slip=118.
23	06	18	31.0	13.183 N	88.901 W	99 *	3.9	0.8	17	EL SALVADOR. MD 4.3 (CASC).
23	06	44	31.2	43.132 N	128.135 W	10 G		0.6	25	OFF COAST OF OREGON
23	07	08	05.4	57.955 N	143.952 W	0			30	GULF OF ALASKA. <AEIC>. ML 3.1 (AEIC).
23	07	24	16.1	40.746 N	30.606 E	10 G	3.4	0.8	25	TURKEY
23	07	40	04.9	30.239 N	130.768 E	43 *	5.1 5.2	1.1	117	KYUSHU, JAPAN. Mw 5.5 (HRV). Recorded (2 JMA) in southern Kyushu and on Tanega-shima; (1 JMA) on Kuchino-Erabu-shima, Nakano-shima and Yaku-shima. Centroid, Moment Tensor (HRV): Centroid origin time 07:40:03.0; Lat 30.03 N; Lon 130.84 E; Dep 31.1; Half- duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.73, Plg=20, Azm=53; (N) Val=-0.07, Plg=64, Azm=193; (P) Val=-1.66, Plg=16, Azm=317; Best double couple: Mo=1.7*10**17 Nm; NP1: Strike=95, Dip=64, Slip=176; NP2: Strike=186, Dip=87, Slip=26.
23	07	45	41.8	45.738 N	0.616 E	2			4	FRANCE. <LDG>. MD 2.4 (LDG).
23	08	03	01.2	7.973 S	120.646 E	46 D	5.7 5.6	1.3	159	FLORES SEA. Mw 5.6 (HRV). Felt (IV) at Ruteng, Flores and (III) at Waingapu, Sumba, Indonesia. Centroid, Moment Tensor (HRV): Centroid origin time 08:03:06.9; Lat 7.70 S; Lon 121.28 E; Dep 41.1; Half- duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.86, Plg=76, Azm=42; (N) Val=-0.31, Plg=13, Azm=250; (P) Val=-2.56, Plg=6, Azm=158; Best double couple: Mo=2.7*10**17 Nm; NP1: Strike=234, Dip=40, Slip=70; NP2: Strike=80, Dip=53, Slip=106.
23	08	20	04.6	27.227 N	127.146 E	136	4.5	0.6	13	RYUKYU ISLANDS, JAPAN
23	08	29	17.3	16.69 S	177.42 W	33 N	4.6	0.8	19	FIJI ISLANDS REGION
23	08	31	17.9	21.401 S	67.217 W	199 D	4.9	1.2	113	CHILE-BOLIVIA BORDER REGION
23	08	31	49.4	32.984 S	69.796 W	129			13	MENDOZA PROVINCE, ARGENTINA. <GUC>.
23	08	42	24.0	57.527 N	149.111 W	10 G	5.6 5.0	0.8	422	GULF OF ALASKA. Mw 5.5 (HRV). ML 5.5 (PMR), 5.2 (AEIC). Centroid, Moment Tensor (HRV): Centroid origin time 08:42:29.3; Lat 57.47 N Fix; Lon 149.29 W Fix; Dep 15.0 Bdy; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=1.95, Plg=54, Azm=271; (N) Val=0.68, Plg=36, Azm=91; (P) Val=-2.63, Plg=0, Azm=181; Best double couple: Mo=2.3*10**17 Nm; NP1: Strike=302, Dip=55, Slip=136; NP2: Strike=61, Dip=55, Slip=45.
23	09	02	17.6	38.500 S	176.010 E	169			28	NORTH ISLAND, NEW ZEALAND. <WEL>.
23	09	08	58.3	32.622 S	72.160 W	37			11	OFF COAST OF CENTRAL CHILE. <GUC>.
23	09	16	21.0	38.570 S	176.170 E	90			17	NORTH ISLAND, NEW ZEALAND. <WEL>.
23	09	37	59.2	30.178 N	131.055 E	33 N		1.1	8	KYUSHU, JAPAN

23	09	57	02.4*	17.513 S	176.731 W	33 N	5.1	5.2	1.1	76	FIJI ISLANDS REGION. Mw 5.8 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 09:57:07.7; Lat 16.87 S; Lon 176.74 W; Dep 20.0; Half- duration 1.8 sec; Principal axes (scale 10**17 Nm): (T) Val=5.19, Plg=0, Azm=92; (N) Val=-0.78, Plg=78, Azm=1; (P) Val=-4.42, Plg=12, Azm=182; Best double couple: Mo=4.8*10**17 Nm; NP1: Strike=227, Dip=81, Slip=-8; NP2: Strike=318, Dip=82, Slip=-171.
23	10	00	33.3	4.965 S	151.224 E	157	5.0		0.9	128	NEW BRITAIN REGION, P.N.G.
23	10	11	21.0*	35.806 N	77.128 E	81 ?	4.3		1.2	18	EASTERN KASHMIR
23	10	12	32.6*	47.035 N	0.065 W	22				11	FRANCE. <LDG>. MD 2.5 (LDG).
23	10	18	27.1*	37.890 S	176.770 E	257				12	NORTH ISLAND, NEW ZEALAND. <WEL>.
23	10	34	00.9*	9.350 N	126.237 E	73 *	4.0		0.6	12	MINDANAO, PHILIPPINES
23	12	03	57.3*	59.268 S	26.359 W	33 N	4.5		0.8	12	SOUTH SANDWICH ISLANDS REGION
23	12	34	23.5*	32.571 N	118.204 W	6 G				33	OFF COAST OF CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
23	12	42	29.4*	23.062 N	120.831 E	33 N	4.0		1.4	15	TAIWAN. Recorded (4 TAP) in the epicentral area and (3 TAP) at Chia-i.
23	13	44	23.0	55.551 N	162.040 E	33 N	4.3		0.6	20	NEAR EAST COAST OF KAMCHATKA
23	14	01	45.0*	37.220 N	21.090 E	5				4	SOUTHERN GREECE. <ATH>. MD 3.0 (ATH).
23	14	32	07.7*	5.722 N	79.621 W	33 N	4.4		1.3	23	SOUTH OF PANAMA. MD 4.3 (UPA).
23	14	41	19.7?	28.73 S	176.20 W	33 N			1.3	12	KERMADEC ISLANDS REGION
23	14	57	49.5*	35.530 N	23.740 E	30				6	CRETE, GREECE. <ATH>. MD 3.3 (ATH).
23	18	01	43.6*	31.697 S	70.091 W	150				12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.2 (GUC).
23	18	21	01.4	24.900 S	179.561 E	514 D	5.1		0.9	238	SOUTH OF FIJI ISLANDS. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 18:21:08.5; Lat 24.72 S; Lon 179.50 E; Dep 551.8; Half- duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.31, Plg=52, Azm=68; (N) Val=0.14, Plg=37, Azm=235; (P) Val=-1.45, Plg=7, Azm=330; Best double couple: Mo=1.4*10**17 Nm; NP1: Strike=94, Dip=50, Slip=141; NP2: Strike=211, Dip=61, Slip=47.
23	18	40	37.3*	1.505 N	126.975 E	92 *	4.3		0.8	17	NORTHERN MOLUCCA SEA
23	19	58	07.0*	6.086 S	151.135 E	33 N	4.2		0.8	9	NEW BRITAIN REGION, P.N.G.
23	20	15	43.9*	38.020 N	23.670 E	4				8	GREECE. <ATH>. ML 2.1 (ATH).
23	20	16	45.8*	34.987 N	33.010 E	52				6	CYPRUS REGION. <CSS>.
23	20	56	10.2*	32.920 S	70.753 W	75				11	CHILE-ARGENTINA BORDER REGION. <GUC>.
23	21	12	54.7*	43.310 N	1.060 W	2 G				4	PYRENEES. <STR>. ML 2.1 (STR).
23	21	53	15.1*	59.857 N	153.511 W	127				64	SOUTHERN ALASKA. <AEIC>.
23	22	14	46.6*	17.207 S	177.226 W	33 N	4.8	4.8	1.0	33	FIJI ISLANDS REGION. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 22:14:48.3; Lat 17.07 S; Lon 176.76 W; Dep 18.0; Half- duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.80, Plg=1, Azm=99; (N) Val=-0.28, Plg=87, Azm=358; (P) Val=-1.52, Plg=3, Azm=189; Best double couple: Mo=1.7*10**17 Nm; NP1: Strike=234, Dip=88, Slip=-2; NP2: Strike=324, Dip=88, Slip=178.
24	00	14	03.8*	4.103 N	75.700 W	33 N			1.4	5	COLOMBIA. ML 2.7 (RSNC).
24	00	26	10.8*	35.479 N	3.335 W	0 G				17	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.4 (MDD).
24	00	41	45.7*	46.746 N	1.337 E	11				7	FRANCE. <LDG>. ML 2.0 (LDG).
24	02	17	20.1*	15.773 N	120.232 E	65 *			1.5	11	LUZON, PHILIPPINES
24	02	59	54.6*	34.296 N	116.076 W	0				9	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
24	03	23	11.0	13.053 N	88.626 W	67 D	4.8		1.2	120	EL SALVADOR. Felt at La Libertad and San Salvador.
24	03	28	29.2*	33.477 S	72.250 W	12				14	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
24	03	30	25.5*	38.731 S	46.674 E	10 G	4.8		1.2	21	SOUTHWEST INDIAN RIDGE
24	03	47	19.9*	34.853 N	116.433 W	2				33	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
24	03	54	02.3*	39.490 N	22.670 E	10				5	GREECE. <ATH>. MD 3.1 (ATH).
24	04	51	18.3	21.666 N	144.223 E	126 ?	4.6		0.9	48	MARIANA ISLANDS REGION
24	05	15	05.2	1.209 S	127.283 E	33 N	4.8		0.9	14	HALMAHERA, INDONESIA
24	05	27	29.9	16.120 N	94.946 W	79 D	4.7		1.1	83	OAXACA, MEXICO. MD 4.8 (UNM).
24	06	04	38.7*	41.562 N	142.048 E	76 D	3.6		1.1	12	HOKKAIDO, JAPAN REGION
24	06	40	50.8*	16.126 N	60.917 W	20				5	LEEWARD ISLANDS. <PDF>. MG 2.3 (PDF).
24	09	58	01.2*	43.717 N	127.005 W	10 G	2.6		0.6	37	OFF COAST OF OREGON
24	10	24	14.5*	14.961 S	167.220 E	125 ?	4.6		0.9	27	VANUATU ISLANDS
24	10	52	00.3*	32.477 S	70.239 W	104				9	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.9 (GUC).
24	12	46	22.9	30.295 N	130.758 E	33 N	4.6		1.0	43	KYUSHU, JAPAN. Recorded (1 JMA) in the Kanoya area and on Tanaga-shima.
24	12	50	29.5	37.258 N	141.338 E	33 N	4.7		0.9	40	NEAR EAST COAST OF HONSHU, JAPAN. Recorded (2 JMA) in eastern Fukushima and (1 JMA) from southern Iwate to eastern Saitama Prefectures.
24	13	38	26.0	39.574 N	143.216 E	33 N	4.7	4.6	1.0	56	OFF EAST COAST OF HONSHU, JAPAN. Recorded (1 JMA) in northeastern Miyagi Prefecture.
24	15	55	49.5*	47.460 N	7.290 E	2 G				6	SWITZERLAND. <STR>. ML 1.9 (STR).
24	15	58	57.1?	12.12 N	142.92 E	33 N	3.6		1.1	9	SOUTH OF MARIANA ISLANDS
24	16	27	50.6*	59.683 N	152.416 W	63				9	SOUTHERN ALASKA. <AEIC>. ML 2.4 (AEIC), 2.6 (PMR).
24	18	10	00.4	12.073 N	126.074 E	33 N	4.4		1.0	24	PHILIPPINE ISLANDS REGION
24	18	20	48.5*	3.882 N	74.819 W	33 N			0.9	5	COLOMBIA. ML 3.1 (RSNC).
24	18	35	29.2*	18.670 N	66.922 W	15				5	PUERTO RICO REGION. <RSPR>. MD 2.8 (RSPR).
24	19	28	41.5*	17.847 S	179.921 W	650 G	4.7		0.9	21	FIJI ISLANDS REGION
24	19	56	12.6*	35.750 N	118.010 W	9				31	CENTRAL CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
24	22	40	09.5*	51.565 N	16.115 E	5 G			0.6	9	POLAND. ML 3.2 (VIE).
24	23	33	56.0*	40.538 N	125.877 W	1				15	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.4 (BRK).
25	00	30	42.3*	16.247 N	98.166 W	7				17	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.4 (UNM).
25	00	51	11.9*	50.047 N	19.187 E	5 G			0.5	5	POLAND. ML 3.1 (VIE).
25	03	18	40.5?	43.40 N	128.07 W	10 G			0.4	32	OFF COAST OF OREGON
25	03	44	50.1*	44.091 N	6.924 E	6				29	FRANCE. <GEN>. ML 2.5 (GEN), 2.2 (LDG), 2.2 (STR).
25	04	09	36.3*	31.167 N	86.627 E	33 N	4.0		0.6	10	XIZANG
25	06	21	10.4*	36.329 N	4.509 W	84				16	STRAIT OF GIBRALTAR. <MDD>.
25	07	08	43.1*	17.825 N	66.578 W	14				5	PUERTO RICO REGION. <RSPR>. MD 2.4 (RSPR).
25	07	18	54.7	40.356 N	19.865 E	5 G	3.5		1.3	20	ALBANIA. MD 3.4 (ATH).
25	09	02	18.8	43.564 N	145.745 E	69 D	4.5		0.7	53	HOKKAIDO, JAPAN REGION. Recorded (2 JMA) in eastern Hokkaido. Felt (III) at Yuzhno-Kurilsk, Kunashir.
25	09	13	57.1*	36.485 N	7.604 W	15				44	STRAIT OF GIBRALTAR. <MDD>. ML 3.7 (MDD).
25	09	18	08.7	23.966 S	66.655 W	208	4.4		1.1	60	JUJUY PROVINCE, ARGENTINA

25	09	20	35.9%	37.094 N		4.039 W	9								5 SPAIN. <MDD>. mbLg 1.4 (MDD).
25	09	21	01.7%	37.070 N		4.150 W	16								5 SPAIN. <MDD>. mbLg 1.7 (MDD).
25	09	22	58.9%	37.025 N		4.207 W	12								7 SPAIN. <MDD>. mbLg 2.0 (MDD).
25	10	08	35.4%	40.010 N		19.900 E	5								8 ALBANIA. <ATH>. MD 3.2 (ATH).
25	10	12	09.7%	17.043 N		100.622 W	26								20 GUERRERO, MEXICO. <UNM>. MD 4.1 (UNM).
25	11	22	02.1*	15.650 S		173.145 W	33 N	4.8	4.4	0.9					TONGA ISLANDS
25	11	45	32.3*	6.524 N		125.822 E	159			0.7					30 MINDANAO, PHILIPPINES
25	12	18	17.0%	42.288 N		19.499 E	24								10 NORTHWESTERN BALKAN REGION. <PDG>. MD 2.3 (PDG).
25	13	18	03.4	45.706 N		142.356 E	315		4.4	0.7					44 HOKKAIDO, JAPAN REGION
25	13	33	03.7%	41.495 N		20.040 E	11								12 ALBANIA. <PDG>. ML 2.9 (SKO). MD 2.8 (PDG).
25	13	50	18.4?	13.98 N		89.38 W	103 ?	3.9		0.9					17 EL SALVADOR
25	14	42	35.3%	19.607 N		68.058 W	69								8 NORTH ATLANTIC OCEAN. <RSPR>. MD 4.1 (RSPR).
25	14	54	11.1%	16.599 N		98.612 W	16								5 NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.7 (UNM).
25	15	03	09.8%	15.995 N		98.602 W	10								8 OFF COAST OF GUERRERO, MEXICO. <UNM>. MD 3.8 (UNM).
25	15	04	18.1	20.964 S		179.054 W	633 D	4.8		0.8	176				FIJI ISLANDS REGION
25	15	53	12.0%	19.586 N		68.011 W	75								6 NORTH ATLANTIC OCEAN. <RSPR>. MD 3.7 (RSPR).
25	16	37	33.9*	27.208 N		92.018 E	33 N	4.3		1.0					9 EASTERN XIZANG-INDIA BORDER REG.
25	16	43	22.9	27.663 N		92.631 E	33 N	5.2		0.8	172				EASTERN XIZANG-INDIA BORDER REG.
25	17	02	16.0?	13.66 N		120.99 E	145			1.5					8 MINDORO, PHILIPPINES
25	17	16	45.3*	28.092 S		176.438 W	33 N	4.3		1.0	15				KERMADEC ISLANDS REGION
25	17	18	43.8*	3.582 S		140.061 E	33 N	4.7		1.1	20				IRIAN JAYA, INDONESIA
25	17	27	06.5%	15.932 N		96.868 W	12								9 NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 3.8 (UNM).
25	17	29	56.8*	27.609 N		92.670 E	33 N	4.2		1.2	15				EASTERN XIZANG-INDIA BORDER REG.
25	17	33	10.2?	52.09 N		179.19 W	74 ?	4.2		1.0	7				ANDREANOIS ISLANDS, ALEUTIAN IS.
25	18	10	32.1	5.953 N		127.116 E	112 *	4.6		0.9	29				PHILIPPINE ISLANDS REGION
25	18	52	26.9*	32.937 N		139.338 E	202 *	4.3		0.8	18				SOUTHEAST OF HONSHU, JAPAN
25	19	37	17.6%	47.006 N		0.582 W	11				14				FRANCE. <LDG>. ML 2.3 (LDG).
25	20	09	12.9%	60.273 N		152.539 W	93				39				SOUTHERN ALASKA. <AEIC>.
25	21	01	44.6%	10.896 N		62.192 W	49				6				NEAR COAST OF VENEZUELA. <TRN>. MD 3.5 (TRN).
25	21	04	08.5%	45.247 N		6.580 E	2				7				FRANCE. <LDG>. ML 1.9 (LDG).
25	22	31	58.6%	10.345 N		62.144 W	4				6				NEAR COAST OF VENEZUELA. <TRN>. MD 3.6 (TRN).
25	22	39	16.3%	37.628 N		2.419 W	5				10				SPAIN. <MDD>. mbLg 2.0 (MDD).
25	22	49	39.6*	2.641 S		127.454 E	33 N	4.7		1.3	8				CERAM SEA
25															

26	20	55	19.1	24.263	N	103.797	E	33	N	4.9	4.5	0.9	59	YUNNAN, CHINA. Two people injured and roads and houses damaged in the Mile-Qiubei area.
26	21	08	33.5	43.090	N	1.010	W	10	G				6	PYRENEES. <STR>. ML 2.1 (STR).
26	21	11	55.6	27.566	N	92.492	E	33	N	4.3		0.9	17	EASTERN XIZANG-INDIA BORDER REG.
26	21	37	57.7	30.973	N	95.502	E	33	N	4.9	5.0	1.0	114	XIZANG. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 21:38:02.1; Lat 30.79 N; Lon 95.72 E; Dep 33.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.39, Plg=21, Azm=317; (N) Val=0.23, Plg=67, Azm=156; (P) Val=-6.62, Plg=7, Azm=49; Best double couple: Mo=6.5*10**16 Nm; NPl: Strike=95, Dip=70, Slip=11; NP2: Strike=1, Dip=80, Slip=160.
26	22	02	25.0	34.322	N	116.766	W	2					28	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
26	22	55	19.7	45.690	N	15.207	E	10	G			0.4	5	NORTHWESTERN BALKAN REGION. ML 2.0 (VIE), 1.4 (LJU).
26	23	00	19.9	40.021	N	52.901	E	33	N	5.5	4.8	0.8	329	TURKMENISTAN. Mw 5.3 (HRV). Felt in the Gorgan area, Iran. Centroid, Moment Tensor (HRV): Centroid origin time 23:00:24.8; Lat 40.27 N; Lon 52.73 E; Dep 65.0; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.09, Plg=35, Azm=318; (N) Val=-0.20, Plg=55, Azm=141; (P) Val=-0.89, Plg=2, Azm=49; Best double couple: Mo=9.9*10**16 Nm; NPl: Strike=99, Dip=65, Slip=25; NP2: Strike=357, Dip=67, Slip=152.
26	23	34	04.5	23.722	S	66.477	W	222	D	5.0		1.1	156	JUJUY PROVINCE, ARGENTINA
27	00	03	21.3	40.705	N	25.650	E	10	G	3.8		0.9	38	AEGEAN SEA. ML 3.9 (ATH).
27	00	13	07.5	31.131	S	68.228	W	26	D	4.8	4.5	0.9	62	SAN JUAN PROVINCE, ARGENTINA. MD 4.8 (GUC).
27	00	56	31.3	44.249	N	7.451	E	14					7	NORTHERN ITALY. <GEN>. ML 1.7 (GEN).
27	01	01	51.9	36.532	N	89.499	W	8					17	NEW MADRID, MISSOURI REGION. <CERI>. MD 2.7 (CERI). mbLg 2.9 (GS).
27	01	14	22.5	42.830	N	1.460	W	1	G				10	PYRENEES. <STR>. ML 2.4 (STR). mbLg 2.3 (MDD).
27	02	49	44.9	34.807	S	105.459	W	10	G	4.9	4.7	1.0	37	SOUTHERN EAST PACIFIC RISE. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 02:49:47.8; Lat 35.18 S; Lon 105.78 W; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.26, Plg=12, Azm=230; (N) Val=-0.16, Plg=73, Azm=97; (P) Val=-1.11, Plg=12, Azm=323; Best double couple: Mo=1.2*10**17 Nm; NPl: Strike=7, Dip=73, Slip=0; NP2: Strike=277, Dip=90, Slip=163.
27	04	43	27.4	19.472	S	69.341	W	106	D	4.0		1.1	7	NORTHERN CHILE
27	05	17	14.4	64.572	N	150.833	W	16					29	CENTRAL ALASKA. <AEIC>. ML 3.4 (AEIC).
27	05	57	00.0	10.360	N	60.365	W	68					6	TRINIDAD. <TRN>. MD 3.3 (TRN).
27	06	16	36.0	40.460	N	125.430	W	3					41	OFF COAST OF NORTHERN CALIFORNIA. <BRK-P>. ML 3.8 (BRK).
27	06	51	19.1	35.519	N	23.512	E	33	N	4.5		1.4	160	CRETE, GREECE. ML 4.3 (THE), 4.2 (ATH). Felt at Chania, Kissamos and Palaiochora.
27	06	58	15.8	35.650	N	23.660	E	5		3.5			16	CRETE, GREECE. <ATH>. MD 3.6 (ATH).
27	09	21	54.9	33.700	N	116.769	W	16					7	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
27	09	22	28.4	63.224	N	148.368	W	0					38	CENTRAL ALASKA. <AEIC>. ML 2.7 (AEIC), 3.2 (PMR).
27	09	48	22.3	33.704	N	116.769	W	15					4	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
27	09	54	43.9	37.560	N	20.860	E	5					5	IONIAN SEA. <ATH>. MD 3.1 (ATH).
27	10	10	57.2	31.678	N	141.686	E	33	N	5.1	4.8	1.0	95	SOUTHEAST OF HONSHU, JAPAN. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 10:11:01.2; Lat 31.99 N; Lon 142.16 E; Dep 23.6; Half-duration 1.1 sec; Principal axes (scale 10**16 Nm): (T) Val=8.31, Plg=32, Azm=13; (N) Val=1.67, Plg=55, Azm=222; (P) Val=-9.99, Plg=14, Azm=112; Best double couple: Mo=9.1*10**16 Nm; NPl: Strike=156, Dip=57, Slip=14; NP2: Strike=59, Dip=79, Slip=146.
27	10	54	24.6	39.210	S	177.900	E	53					4	OFF E. COAST OF N. ISLAND, N.Z. <WEL>.
27	11	47	47.6	39.897	N	123.215	W	10					12	NEAR COAST OF NORTHERN CALIF. <NC-P>. MD 2.9 (NC).
27	11	47	59.6	39.270	N	22.250	E	5					4	GREECE. <ATH>. MD 3.2 (ATH).
27	12	30	13.1	37.195	N	71.531	E	120	*	4.0		0.7	13	AFGHANISTAN-TAJIKISTAN BORD REG.
27	12	44	50.1	33.528	S	72.274	W	33	N	4.5		1.3	18	OFF COAST OF CENTRAL CHILE. MD 4.6 (GUC).
27	13	33	42.2	12.84	S	166.86	E	33	N	4.4		1.4	17	SANTA CRUZ ISLANDS
27	13	46	24.6	35.918	N	4.958	W	15					8	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.3 (MDD).
27	14	43	28.4	35.321	N	1.174	W	16					23	NORTHERN ALGERIA. <MDD>. mbLg 2.7 (MDD).
27	14	49	40.0	43.000	N	71.180	W	1					7	VERMONT - NEW HAMPSHIRE REGION. <WES-P>. mbLg 3.0 (WES), 3.0 (OTT), 2.9 (GS). Felt at Atkinson, Danville, Merrimack, Raymond and West Epping, New Hampshire.
27	16	07	03.1	34.397	N	116.450	W	0					38	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS).
27	18	04	41.0	40.777	N	124.335	W	23					6	NEAR COAST OF NORTHERN CALIF. <NC-P>. MD 2.8 (NC).
27	18	40	07.8	9.955	S	124.369	E	68	*	4.5		1.1	19	TIMOR REGION
27	19	51	41.2	50.20	S	113.00	E	10	G	4.5		1.2	15	SOUTHEAST INDIAN RIDGE
27	20	00	09.9	7.201	S	154.912	E	33	N	4.2		1.1	11	SOLOMON ISLANDS
27	20	36	56.8	36.992	N	3.843	W	12					12	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.0 (MDD).
27	21	42	11.5	43.080	N	0.160	E	5	G				12	FRANCE. <STR>. ML 2.2 (STR), 2.1 (LDG).
27	21	52	00.1	7.133	S	154.759	E	33	N	4.7		1.1	19	SOLOMON ISLANDS
27	21	55	32.5	44.784	N	7.516	E	39					14	NORTHERN ITALY. <GEN>.
27	22	36	55.8	11.023	N	62.120	W	38					5	WINDWARD ISLANDS. <TRN>. MD 2.9 (TRN).
27	22	48	39.1	43.64	N	127.14	W	10	G			0.4	18	OFF COAST OF OREGON
27	22	51	55.9	60.314	N	151.958	W	86					29	KENAI PENINSULA, ALASKA. <AEIC>.
27	23	01	45.0	48.290	N	9.060	E	13					4	GERMANY. <FBB>. ML 1.5 (FBB).
28	00	00	17.7	38.170	N	20.200	E	3					4	GREECE. <ATH>. MD 3.2 (ATH).
28	01	19	43.6	31.295	N	133.529	E	33	N	4.6		1.3	39	SOUTHEAST OF SHIKOKU, JAPAN
28	01	38	05.6	44.612	N	6.725	E	0					40	FRANCE. <GEN>. ML 2.8 (GEN), 2.4 (STR). MD 2.7 (LDG).
28	02	33	04.4	49.385	N	6.976	E	1	G				6	GERMANY. <LDG>. MD 2.6 (LDG).
28	02	42	24.6	19.10	S	176.09	W	33	N	4.5		1.1	13	FIJI ISLANDS REGION
28	03	20	08.2	60.455	N	139.436	W	0					9	SOUTHEASTERN ALASKA. <AEIC>. ML 3.0 (AEIC), 2.8 (PGC).
28	03	29	17.2	37.733	N	49.053	E	33	N	4.0		1.1	18	CASPIAN SEA
28	06	05	14.7	49.102	N	6.725	E	1	G				7	GERMANY. <LDG>. MD 2.8 (LDG).
28	06	09	06.4	36.222	N	2.949	W	0	G				6	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.1 (MDD).
28	07	01	17.1	21.660	N	143.172	E	311	?	3.9		1.0	13	MARIANA ISLANDS REGION
28	07	34	35.8	15.751	N	61.429	W	18					4	LEEWARD ISLANDS. <TRN>. MD 2.9 (TRN). Felt (IV) at Portsmouth, Dominica.
28	08	21	07.7	18.101	N	101.551	W	10	G			0.7	8	GUERRERO, MEXICO. MD 3.7 (UNM).

28	08 45 21.9?	13.07 N	89.28 W	75 D	3.7	1.4	15	EL SALVADOR
28	08 49 30.8	7.457 N	77.850 W	21	4.7	1.1	93	PANAMA-COLOMBIA BORDER REGION. ML 5.4 (RSNC). MD 4.9 (UPA).
28	08 54 51.3	11.697 N	61.680 W	92			4	WINDWARD ISLANDS. <TRN>. MD 2.6 (TRN).
28	09 00 51.7*	22.113 S	179.585 W	590 D	4.4	1.1	35	SOUTH OF FIJI ISLANDS
28	09 06 39.3	15.645 N	94.996 W	67			5	NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 3.9 (UNM).
28	09 08 47.1	7.653 N	77.771 W	10 G	4.2	1.1	20	PANAMA-COLOMBIA BORDER REGION. MD 4.5 (UPA).
28	09 33 42.1	19.268 N	155.476 W	11			29	HAWAII. <HVO-P>. MD 4.1 (HVO). Felt at Glenwood, Hilo, Mountain View, Ocean View Estates and Volcano.
28	09 48 35.7*	3.404 S	137.638 E	33 N	4.0	1.4	11	IRIAN JAYA, INDONESIA
28	11 08 07.0	44.950 N	17.190 E	9			12	NORTHWESTERN BALKAN REGION. <ZAG>. ML 3.0 (VIE).
28	11 28 32.0	36.652 N	140.902 E	44 D	4.8 4.3	0.9	83	NEAR EAST COAST OF HONSHU, JAPAN. Recorded (2 JMA) in Ibaraki and eastern Fukushima; (1 JMA) from Chiba to Miyagi Prefectures.
28	12 07 54.2	42.094 N	18.962 E	10			8	NORTHWESTERN BALKAN REGION. <PDG>. MD 1.5 (PDG).
28	12 36 27.5	15.317 N	95.853 W	10			10	NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 4.1 (UNM).
28	13 07 47.5*	14.270 N	146.884 E	32 *	4.0	0.8	21	MARIANA ISLANDS
28	13 10 03.0	46.323 N	4.715 E	3 G			7	FRANCE. <LDG>. MD 2.4 (LDG).
28	13 17 52.8	7.485 S	122.678 E	575 D	5.2	1.0	180	FLORES SEA. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 13:17:59.3; Lat 7.21 S; Lon 123.00 E; Dep 596.4; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=1.63, Plg=42, Azm=90; (N) Val=0.50, Plg=46, Azm=251; (P) Val=-2.13, Plg=9, Azm=351; Best double couple: Mo=1.9*10**17 Nm; NP1: Strike=121, Dip=54, Slip=153; NP2: Strike=227, Dip=69, Slip=39.
28	13 53 07.9	9.245 N	82.591 W	10			6	PANAMA-COSTA RICA BORDER REGION. <UPA>. MD 3.7 (UPA).
28	14 21 07.3	43.046 N	146.837 E	61 D	6.7 6.6	0.9	546	KURIL ISLANDS. Mw 6.8 (GS), 6.8 (HRV), 6.4 (OBN). Me 6.8 (GS). Felt (VI) at Yuzhno-Kurilsk, Kunashir and (V) on Shikotan and at Kurilsk, Iturup. Two people injured at Nemuro, Hokkaido. Felt at Misawa and Yokosuka, Honshu. Recorded (4 JMA) at Akkeshi, Betsukai, Kushiro, Nakashibetsu and Nemuro; (3 JMA) at Kitami and Obihiro, Hokkaido. Also recorded (3 JMA) in Aomori and Iwate Prefectures, Honshu. Recorded (1 JMA) in much of Hokkaido and northern Honshu as far as the Tokyo area. Broadband Source Parameters (GS): Dep 40; NP1: Strike=65, Dip=80, Slip=120; NP2: Strike=172, Dip=31, Slip=19; Radiated energy 3.0*10**14 Nm. Moment Tensor (GS): Dep 41; Principal axes (scale 10**19 Nm): (T) Val=1.94, Plg=51, Azm=2; (N) Val=-0.01, Plg=32, Azm=221; (P) Val=-1.93, Plg=20, Azm=118; Best double couple: Mo=1.9*10**19 Nm; NP1: Strike=168, Dip=38, Slip=30; NP2: Strike=53, Dip=72, Slip=124. Centroid, Moment Tensor (HRV): Centroid origin time 14:21:12.3; Lat 43.08 N; Lon 146.81 E; Dep 50.0 Bdy; Half-duration 6.4 sec; Principal axes (scale 10**19 Nm): (T) Val=1.91, Plg=42, Azm=6; (N) Val=0.14, Plg=37, Azm=234; (P) Val=-2.05, Plg=26, Azm=123; Best double couple: Mo=2.0*10**19 Nm; NP1: Strike=163, Dip=38, Slip=15; NP2: Strike=61, Dip=81, Slip=127. Moment Tensor (OBN): Principal axes: (T) Plg=46, Azm=341; (N) Plg=42, Azm=180; (P) Plg=9, Azm=81; Best double couple: Mo=5.2*10**18 Nm; NP1: Strike=133, Dip=51, Slip=30; NP2: Strike=23, Dip=67, Slip=137. Scalar Moment (PPT): Mo=2.7*10**19 Nm.
28	15 26 35.5	1.996 N	30.651 W	10 G	4.8	0.9	67	CENTRAL MID-ATLANTIC RIDGE
28	15 54 43.1	39.270 N	20.490 E	5			10	GREECE-ALBANIA BORDER REGION. <ATH>. MD 3.3 (ATH).
28	16 00 15.7*	3.256 S	136.815 E	33 N	4.7	1.1	11	IRIAN JAYA, INDONESIA
28	16 21 41.2	42.798 N	7.018 W	2			9	SPAIN. <MDD>. mbLg 2.4 (MDD).
28	16 39 24.2	26.076 N	124.496 E	194 D	6.1	0.9	489	NORTHEAST OF TAIWAN. Mw 6.0 (GS), 6.0 (HRV). Me 5.7 (GS). Recorded (2 JMA) on Iriomote-jima, Ishigaki-jima, Miyako-jima and Tarama-jima; (1 JMA) on Kume-jima, Ryukyu Islands. Broadband Source Parameters (GS): Dep 198; NP1: Strike=75, Dip=85, Slip=90; NP2: Strike=255, Dip=5, Slip=90; Radiated energy 8.8*10**12 Nm. Moment Tensor (GS): Dep 193; Principal axes (scale 10**18 Nm): (T) Val=1.06, Plg=26, Azm=152; (N) Val=-0.03, Plg=23, Azm=253; (P) Val=-1.04, Plg=54, Azm=20; Best double couple: Mo=1.0*10**18 Nm; NP1: Strike=201, Dip=28, Slip=-146; NP2: Strike=80, Dip=74, Slip=-66. Centroid, Moment Tensor (HRV): Centroid origin time 16:39:24.5; Lat 25.92 N; Lon 124.56 E; Dep 200.8; Half-duration 2.5 sec; Principal axes (scale 10**18 Nm): (T) Val=0.93, Plg=30, Azm=182; (N) Val=0.49, Plg=9, Azm=87; (P) Val=-1.43, Plg=59, Azm=342; Best double couple: Mo=1.2*10**18 Nm; NP1: Strike=298, Dip=17, Slip=-58; NP2: Strike=84, Dip=75, Slip=-99.
28	16 49 52.1?	18.31 N	146.69 E	166 ?	3.7	1.3	8	MARIANA ISLANDS
28	16 56 17.6*	1.960 N	30.679 W	10 G	4.4	0.8	12	CENTRAL MID-ATLANTIC RIDGE
28	17 06 25.4	41.190 S	172.670 E	197			13	SOUTH ISLAND, NEW ZEALAND. <WEL>.
28	17 53 59.5*	1.406 N	127.038 E	67 *	4.9	1.0	52	HALMAHERA, INDONESIA
28	17 57 00.5	14.435 N	146.462 E	45 *	5.0 5.2	0.8	100	MARIANA ISLANDS
28	18 04 21.1*	45.776 N	151.822 E	48 D	4.7	1.0	28	KURIL ISLANDS
28	18 10 25.3*	46.188 N	12.500 E	33 N		1.1	7	NORTHERN ITALY. ML 2.1 (VIE).
28	18 33 01.7	36.518 N	70.988 E	197 *	4.3	1.1	24	HINDU KUSH REGION, AFGHANISTAN
28	19 21 15.1	60.846 N	149.206 W	43			68	KENAI PENINSULA, ALASKA. <AEIC>. ML 3.0 (AEIC).
28	20 14 39.0	34.503 N	116.254 W	1			8	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
28	20 38 14.1	44.713 N	12.567 E	10 G		0.9	11	NORTHERN ITALY. ML 3.2 (VIE), 2.8 (TRI).
28	22 42 26.2	1.347 S	89.083 E	10 G	5.4 5.2	1.0	117	SOUTH INDIAN OCEAN. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 22:42:30.0; Lat 1.35 S; Lon 88.96 E; Dep 15.0 Fix; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.31, Plg=7, Azm=241; (N) Val=-0.10, Plg=79, Azm=113;

(P) Val=-2.22, Plg=8, Azm=332; Best double couple:
Mo=2.3*10**17 Nm; NP1: Strike=17, Dip=79, Slip=-1; NP2:
Strike=107, Dip=89, Slip=-169.

28 22 57 51.7 9.691 S 118.764 E 83 * 5.4 1.1 70 SUMBAWA REGION, INDONESIA. Mw 5.6 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time
22:57:53.6; Lat 9.80 S; Lon 119.14 E; Dep 88.5; Half-
duration 1.4 sec; Principal axes (scale 10**17 Nm): (T)
Val=3.15, Plg=9, Azm=333; (N) Val=-0.50, Plg=59, Azm=79;
(P) Val=-2.66, Plg=30, Azm=238; Best double couple:
Mo=2.9*10**17 Nm; NP1: Strike=19, Dip=62, Slip=-164; NP2:
Strike=282, Dip=76, Slip=-29.

28 23 01 20.9* 50.369 N 18.872 E 5 G 3.7 1.0 10 POLAND. ML 3.6 (VIE), 3.5 (WAR).
28 23 27 16.2* 43.045 N 46.566 E 64 ? 3.9 1.4 17 EASTERN CAUCASUS. Felt (V) at Dubki, (IV) at Kizilyurt and
(II) at Makhachkala.

28 23 57 02.0& 42.170 N 19.670 E 21 10 NORTHWESTERN BALKAN REGION. <PDG>. MD 2.0 (PDG).
29 00 15 36.8* 36.467 N 70.065 E 209 * 4.2 1.2 13 HINDU KUSH REGION, AFGHANISTAN
29 00 23 18.2& 11.561 N 61.278 W 35 5 WINDWARD ISLANDS. <TRN>. MD 2.8 (TRN).
29 00 45 26.7& 11.564 N 61.257 W 35 6 WINDWARD ISLANDS. <TRN>. MD 3.2 (TRN).
29 02 53 54.8 4.857 N 126.259 E 100 G 5.1 0.9 67 TALAUD ISLANDS, INDONESIA. Mw 5.1 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time
02:53:57.9; Lat 4.98 N; Lon 126.38 E; Dep 88.2; Half-
duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
Val=4.46, Plg=49, Azm=138; (N) Val=0.33, Plg=41, Azm=329;
(P) Val=-4.79, Plg=5, Azm=234; Best double couple:
Mo=4.6*10**16 Nm; NP1: Strike=289, Dip=54, Slip=36; NP2:
Strike=176, Dip=62, Slip=138.

29 03 16 32.1 18.892 N 64.307 W 50 * 4.4 0.9 45 VIRGIN ISLANDS. MD 4.2 (RSPR), 4.2 (TRN). Felt on St. John.
29 03 35 08.8& 40.270 S 178.360 E 12 6 OFF E. COAST OF N. ISLAND, N.Z. <WEL>. ML 4.0 (WEL).
29 04 06 43.5& 44.361 N 7.208 E 1 7 NORTHERN ITALY. <GEN>. ML 1.5 (GEN).
29 04 56 54.4& 43.180 N 1.070 W 14 4 PYRENEES. <STR>. ML 2.5 (STR).
29 05 48 10.7 20.563 S 178.288 W 563 D 5.0 0.9 60 FIJI ISLANDS REGION
29 05 59 20.9& 35.420 N 23.400 E 26 4 CRETE, GREECE. <ATH>. MD 3.1 (ATH).
29 06 49 35.2 13.051 N 89.089 W 88 * 4.1 1.0 35 EL SALVADOR. MD 4.5 (CASC).
29 07 09 46.5& 43.230 N 17.776 E 10 13 NORTHWESTERN BALKAN REGION. <PDG>. MD 2.9 (PDG).
29 08 13 10.7 8.633 S 111.137 E 61 5.4 4.6 1.1 116 JAWA, INDONESIA. Mw 5.4 (HRV). Felt (III) at Kediri and
Sawahan.
Centroid, Moment Tensor (HRV): Centroid origin time
08:13:18.2; Lat 8.97 S; Lon 111.60 E; Dep 68.7; Half-
duration 1.2 sec; Principal axes (scale 10**17 Nm): (T)
Val=1.45, Plg=69, Azm=25; (N) Val=0.20, Plg=11, Azm=265;
(P) Val=-1.65, Plg=18, Azm=171; Best double couple:
Mo=1.5*10**17 Nm; NP1: Strike=244, Dip=29, Slip=67; NP2:
Strike=90, Dip=64, Slip=102.

29 09 50 30.7* 1.914 N 124.310 E 275 4.1 0.9 21 MINAHASSA PENINSULA, SULAWESI
29 10 10 18.9& 10.693 N 62.675 W 56 6 NEAR COAST OF VENEZUELA. <TRN>. MD 3.3 (TRN).
29 12 02 33.7? 4.67 S 106.21 W 10 G 4.0 1.4 13 CENTRAL EAST PACIFIC RISE
29 12 58 29.1& 40.170 N 21.570 E 5 7 GREECE. <ATH>. MD 2.9 (ATH).
29 13 16 56.2* 28.913 N 143.124 E 33 N 4.5 1.1 13 BONIN ISLANDS, JAPAN REGION
29 13 30 50.9* 28.353 S 176.536 W 33 N 4.4 1.1 20 KERMADEC ISLANDS REGION
29 14 33 20.9 51.202 N 178.652 E 33 N 4.5 1.0 44 RAT ISLANDS, ALEUTIAN ISLANDS. ML 4.4 (PMR).
29 14 43 50.4? 47.98 N 146.90 E 411 * 3.6 0.8 11 NORTHWEST OF KURIL ISLANDS
29 14 46 03.0& 42.640 N 0.690 E 10 G 10 PYRENEES. <STR>. ML 2.4 (LDG), 2.1 (STR).
29 15 42 29.7* 53.628 N 162.936 W 33 N 3.8 1.1 9 SOUTH OF ALASKA
29 15 54 08.9* 28.813 S 178.717 W 200 G 4.2 0.6 16 KERMADEC ISLANDS REGION
29 17 23 54.2? 34.28 N 25.39 E 33 N 1.3 8 CRETE, GREECE. MD 3.7 (ATH).
29 17 57 02.7* 36.237 N 71.094 E 99 ? 4.0 0.8 10 AFGHANISTAN-TAJIKISTAN BORD REG.
29 18 30 45.4* 4.869 S 153.379 E 90 * 4.2 0.7 14 NEW IRELAND REGION, P.N.G.
29 22 15 40.1 48.192 N 147.245 E 454 4.7 0.6 161 SEA OF OKHOTSK
29 23 39 45.8 52.148 N 175.778 W 102 4.6 1.0 63 ANDREANOF ISLANDS, ALEUTIAN IS.
29 23 42 38.1& 15.025 N 96.194 W 25 3.4 7 NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 4.1 (UNM).
30 00 28 16.1& 38.995 N 2.904 W 3 11 SPAIN. <MDD>. mbLg 2.1 (MDD).
30 01 38 43.0 63.453 N 150.417 W 10 G 0.7 9 CENTRAL ALASKA. ML 2.4 (PMR).
30 01 47 35.0& 48.410 N 9.020 E 12 41 GERMANY. <FBB>. ML 2.9 (VIE), 2.8 (LDG), 2.7 (STR), 2.5
(FBB), 2.4 (GRF).

30 02 20 50.8& 61.006 N 147.229 W 22 50 SOUTHERN ALASKA. <AEIC>. ML 3.3 (AEIC).
30 02 21 46.3& 36.609 N 3.400 W 2 7 STRAIT OF GIBRALTAR. <MDD>. mbLg 1.4 (MDD).
30 02 40 07.2* 6.408 S 150.667 E 33 N 4.3 1.3 9 NEW BRITAIN REGION, P.N.G.
30 03 10 21.6& 36.812 N 5.470 W 0 G 7 STRAIT OF GIBRALTAR. <MDD>. mbLg 1.8 (MDD).
30 04 34 51.0* 43.684 N 127.345 W 10 G 2.9 0.9 45 OFF COAST OF OREGON
30 04 40 05.6 46.278 N 15.135 E 10 G 0.9 8 NORTHWESTERN BALKAN REGION. ML 1.6 (VIE), 1.1 (LJU).
30 04 50 21.3* 14.639 S 167.204 E 33 N 4.0 1.0 13 VANUATU ISLANDS
30 05 18 06.1? 43.34 N 146.99 E 63 D 3.8 0.8 9 KURIL ISLANDS
30 05 24 38.1& 38.091 N 1.345 W 9 7 SPAIN. <MDD>. mbLg 2.0 (MDD).
30 05 38 39.2* 19.086 S 67.649 W 234 * 4.1 1.1 13 SOUTHERN BOLIVIA
30 06 35 04.5 29.249 N 91.981 E 33 N 4.8 4.4 1.1 22 XIZANG
30 06 57 21.6& 37.482 N 2.412 W 0 G 10 SPAIN. <MDD>. mbLg 1.9 (MDD).
30 08 23 11.7* 31.538 S 179.996 E 300 G 4.2 1.2 12 KERMADEC ISLANDS REGION
30 08 31 21.1* 0.088 N 121.379 E 117 ? 4.5 0.5 13 MINAHASSA PENINSULA, SULAWESI
30 09 04 57.0& 44.937 N 6.774 E 10 7 FRANCE. <GEN>. ML 1.9 (GEN).
30 09 12 45.2& 37.030 N 5.222 W 0 G 10 SPAIN. <MDD>. mbLg 1.9 (MDD).
30 09 14 18.7& 60.780 N 151.689 W 75 74 KENAI PENINSULA, ALASKA. <AEIC>.
30 10 29 29.6? 5.41 S 130.93 E 33 N 4.8 1.1 11 BANDA SEA
30 10 37 06.3* 23.909 S 179.993 W 550 G 4.6 0.9 21 SOUTH OF FIJI ISLANDS
30 11 45 03.7* 12.852 N 89.350 W 33 N 4.3 1.2 23 OFF COAST OF CENTRAL AMERICA
30 11 47 15.0& 57.945 N 157.330 W 0 3.0 35 ALASKA PENINSULA. <AEIC>. ML 3.3 (AEIC).
30 11 49 26.0* 17.409 S 69.460 W 169 * 4.9 1.0 17 PERU-BOLIVIA BORDER REGION
30 12 20 22.5* 30.669 S 71.932 W 33 N 4.3 1.4 19 NEAR COAST OF CENTRAL CHILE. MD 4.7 (GUC).
30 13 26 38.4& 45.441 N 6.775 E 2 6 FRANCE. <LDG>. ML 2.0 (LDG).
30 14 08 33.7 31.264 S 69.111 W 116 D 4.6 0.9 45 SAN JUAN PROVINCE, ARGENTINA. MD 4.7 (GUC).
30 14 46 51.3 41.464 N 109.679 W 1 G 4.4 1.1 68 WYOMING. Felt at Little America. Probable mine collapse.
30 15 03 06.7& 42.779 N 7.290 W 12 30 SPAIN. <MDD>. ML 3.4 (LDG). mbLg 3.1 (MDD). Felt (IV) at
Becerrea and Sarria; (III) at As Nogais.

30 15 24 37.4& 38.732 N 119.640 W 5 G 16 CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.2 (BRK), 3.0

Earthquake Focal Mechanisms for January 2000

Earthquake epicenters in Alaska and adjacent regions for January 2000

Earthquake epicenters in the conterminous United States and adjacent regions for January 2000

Earthquakes located worldwide in January 2000

SIGNIFICANT EARTHQUAKES OF THE WORLD, 1999

Earthquakes of magnitude 6.5 or greater or ones that caused fatalities, injuries or substantial damage.
BRK--Berkeley. PAS--Pasadena.

DATE	ORIGIN TIME UTC HR MN SEC	GEOGRAPHIC COORDINATES LAT LONG	DEPTH	MAGNITUDES SD GS MB Msz	NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
JAN 02	17 55 08.1	27.277 N 101.050 E	41 *	4.5 0.9	29	SICHUAN, CHINA. Two people injured and some livestock killed in Ninglang County, Yunnan Province.
JAN 19	03 35 33.8	4.596 S 153.235 E	114 D	5.8 6.4 1.3	178	NEW IRELAND REGION, P.N.G. Mw 7.0 (GS), 7.0 (HRV). Me 6.2 (GS). Es=4.6*10**13 Nm (GS). Mo=3.6*10**19 Nm (GS). Mo=3.7*10**19 Nm (HRV). Mo=3.7*10**19 Nm (PPT). Complex earthquake, with two larger events occurring about 5 and 10 seconds after onset.
JAN 25	18 19 16.8	4.461 N 75.724 W	17 G	5.9 5.7 1.0	497	COLOMBIA. Mw 6.2 (GS), 6.2 (HRV). Me 6.4 (GS). ML 6.2 (RSNC). Es=9.6*10**13 Nm (GS). Mo=2.1*10**18 Nm (GS). Mo=2.0*10**18 Nm (HRV). Mo=2.5*10**18 Nm (PPT). At least 1,185 people killed, over 700 missing and presumed killed, over 4,750 injured and about 250,000 homeless. The most affected city was Armenia where 907 people were killed and about 60 percent of the buildings were destroyed, including the police and fire stations. About 60 percent of the buildings were destroyed at Calarca and about 50 percent of the houses were destroyed at Pereira. Landslides blocked several roads including the Manizales-Bogota road. Damage occurred in Caldas, Huila, Quindio, Risaralda, Tolima and Valle del Cauca Departments.
JAN 28	08 10 05.4	52.886 N 169.123 W	67 D	6.3 6.1 0.9	586	FOX ISLANDS, ALEUTIAN ISLANDS. Mw 6.6 (GS), 6.6 (HRV). Me 6.5 (GS). Es=1.1*10**14 Nm (GS). Mo=8.1*10**18 Nm (GS). Mo=9.4*10**18 Nm (HRV). Mo=9.3*10**18 Nm (PPT). Minor damage at Nikolski. Also felt at Akutan, Dutch Harbor and Unalaska. Two events about 2 seconds apart.
JAN 30	12 24 25.0*	4.511 N 75.890 W	10 G	4.0 1.4	12	COLOMBIA. ML 4.2 (RSNC). Five people injured and five houses damaged at Buena Vista.
FEB 02	13 45 16.8	38.193 N 1.566 W	10 G	4.8 1.4	201	SPAIN. mbLg 5.2 (MDD). ML 5.2 (LDG). Twenty people injured in the Mula area. Buildings damaged (VII) at Mula and Puebla de Mula. Felt (VI) in the Archena-Bullas area; (V) in the Alhama de Murcia-Molina de Segura-Murcia area and at Abaran, Albatana, Cehegin, Cieza, Elche and Hornos; (IV) at Abanilla, Albacete, Alcoy, Alicante, Fortuna, Moratalla, Orihuela and San Pedro del Pinatar; (III) at Requena, Segorbe, Torreveja, Ubeda and Xativa. Felt in Albacete, Alicante, Almeria, Castellon, Cuenca, Madrid, Murcia and Valencia Provinces. Felt as far as Valladolid. Landslides temporarily closed Highway C-415 in the Alcantarilla-Mula area.
FEB 06	21 47 59.4	12.853 S 166.697 E	90 D	6.3 7.3 1.2	279	SANTA CRUZ ISLANDS. Mw 7.3 (GS), 7.3 (HRV). Me 7.2 (GS). mb 6.7 (BRK). Es=1.3*10**15 Nm (GS). Mo=9.1*10**19 Nm (GS). Mo=1.1*10**20 Nm (HRV). Mo=2.2*10**20 Nm (PPT). Complex earthquake, with a small event preceding a much larger one by about 2.5 seconds.
FEB 11	14 08 51.6	34.259 N 69.364 E	33 N	5.4 5.8 1.3	124	AFGHANISTAN. Mw 5.9 (GS), 6.0 (HRV). Mo=9.0*10**17 Nm (GS). Mo=1.3*10**18 Nm (HRV). Seventy people killed, 500 injured, at least 14,000 homeless and 7,000 houses destroyed in Lowgar and Vardak Provinces. Several people injured at Kabul. Felt at Islamabad and Peshawar, Pakistan.
FEB 21	18 14 37.9	43.214 N 46.825 E	65 *	5.1 1.2	252	EASTERN CAUCASUS. Mw 5.3 (HRV). Mo=1.1*10**17 Nm (HRV). At least one person killed, 20 injured and several homes badly damaged (VI) in the Kizilyurt area. Felt (VI) at Dylm; (V) at Makhachkala and Novolakskoye; (IV) at Gunib, Khasavyurt and Khunzakh; (III) at Pyatigorsk and Sergokala.
MAR 04	05 38 26.5	28.343 N 57.193 E	33 N	6.2 6.5 0.9	368	SOUTHERN IRAN. Mw 6.4 (GS), 6.6 (HRV), 6.4 (CSEM). Me 6.0 (GS). Es=2.2*10**13 Nm (GS). Mo=4.1*10**18 Nm (GS). Mo=1.0*10**19 Nm (HRV). Mo=4.7*10**18 Nm (CSEM). One person killed and at least 517 houses damaged in the Kerma area. Felt at Baft, Bam, Esfandagah, Rafsanjan, Ravar, Sirjan and Zehmakan. Also felt at Dubai, United Arab Emirates.
MAR 04	08 52 01.9	5.397 N 121.937 E	33 N	6.4 6.5 1.2	251	CELEBES SEA. Mw 7.0 (GS), 7.1 (HRV). Me 6.9 (GS). Es=5.9*10**14 Nm (GS). Mo=3.1*10**19 Nm (GS). Mo=4.9*10**19 Nm (HRV). Mo=9.2*10**19 Nm (PPT). Minor damage (V RF) at Zamboanga, Mindanao. Felt strongly on Basilan. Felt (IV RF) at Cagayan de Oro; (III RF) at Cotabato and General Santos; (II RF) at Dipolog; (I RF) at Kidapawan and Surigao, Mindanao. Also felt (I RF) at Canlaon, Negros and Iloilo, Panay.

DATE	ORIGIN TIME UTC HR MN SEC	GEOGRAPHIC COORDINATES LAT LONG		DEPTH	MAGNITUDES SD GS MB Msz			NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
MAR 07	20 35 44.1	15.766 S	179.526 W	33 N	5.4	6.1	1.0	127	FIJI ISLANDS REGION. Mw 6.1 (GS), 6.1 (HRV). Me 6.6 (GS). Es=1.9*10**14 Nm (GS). Mo=1.6*10**18 Nm (GS). Mo=1.7*10**18 Nm (HRV).
MAR 08	12 25 48.9	52.056 N	159.520 E	57 D	5.7		1.1	430	OFF EAST COAST OF KAMCHATKA. Mw 6.8 (GS), 6.9 (HRV), 7.0 (OBN). Me 6.4 (GS). Es=7.8*10**13 Nm (GS). Mo=1.8*10**19 Nm (GS). Mo=2.6*10**19 Nm (HRV). Mo=3.5*10**19 Nm (OBN). Mo=2.8*10**19 Nm (PPT). Felt (V) at Petropavlovsk-Kamchatskiy. Also felt (III) at Severo-Kurilsk, Paramushir.
MAR 11	13 18 09.3	41.131 N	114.658 E	33 N	5.1	5.2	1.0	170	NORTHEASTERN CHINA. Mw 5.1 (HRV). ML 5,3 (BJI). Mo=5.9*10**16 Nm (HRV). Three people injured, at least 200 houses destroyed and 3,000 houses damaged in Zhangbei County. Felt as far as Beijing.
MAR 20	10 47 45.9	51.587 N	177.668 W	33 N	6.3	6.8	0.9	540	ANDREANOF ISLANDS, ALEUTIAN IS. Mw 6.8 (GS), 6.9 (HRV). Me 7.0 (GS). Es=8.3*10**14 Nm (GS). Mo=1.5*10**19 Nm (GS). Mo=2.7*10**19 Nm (HRV). Mo=2.8*10**19 Nm (PPT). Felt strongly on Adak and Amchitka. This may be a delayed aftershock of the June 10, 1996 magnitude 7.9 event.
MAR 25	23 31 11.4	36.397 N	140.469 E	83	4.9		0.7	146	NEAR EAST COAST OF HONSHU, JAPAN. Mw 5.2 (HRV). Mo=8.1*10**16 Nm (HRV). One person slightly injured in Ibaraki Prefecture. Felt (IV JMA) in Ibaraki; (III JMA) in northern Chiba, southeastern Fukushima and much of Tochigi; (II JMA) in much of Gumma and eastern Saitama Prefectures. Felt (I JMA) in the Tokyo area and as far north as southern Iwate Prefecture.
MAR 28	19 05 11.0	30.512 N	79.403 E	15 G	6.4	6.6	1.0	409	XIZANG-INDIA BORDER REGION. Mw 6.6 (GS), 6.6 (HRV), 6.6 (CSEM). Me 6.6 (GS). Es=1.7*10**14 Nm (GS). Mo=7.6*10**18 Nm (GS). Mo=7.8*10**18 Nm (HRV). Mo=1.0*10**19 Nm (CSEM). At least 61 people killed and 125 injured in the Chamoli district; 34 killed and 177 injured in the Rudraprayag district; 5 killed and 60 injured in the Tehri Garhwal district; 19 injured in the Bageshwar district; 13 injured in the Pauri Garhwal district, India. Over 21,100 houses destroyed. Many landslides blocked roads in the epicentral area.
MAR 31	05 54 42.1	5.827 N	82.616 W	10 G	5.9	6.1	1.1	273	SOUTH OF PANAMA. Mw 6.4 (GS), 6.4 (HRV). Me 7.0 (GS). MD 5.9 (UPA). ML 5.8 (CASC). Es=7.1*10**14 Nm (GS). Mo=4.1*10**18 Nm (GS). Mo=4.1*10**18 Nm (HRV). Mo=3.4*10**18 Nm (PPT).
APR 03	06 17 18.3	16.660 S	72.662 W	87 D	6.1	6.2	0.9	422	NEAR COAST OF PERU. Mw 6.8 (GS), 6.8 (HRV). Me 6.5 (GS). Es=1.3*10**14 Nm (GS). Mo=2.1*10**19 Nm (GS). Mo=2.0*10**19 Nm (HRV). Mo=2.2*10**19 Nm (PPT). One person killed in the Camana area. Fifty people injured and at least 300 houses damaged (VI) in the Arequipa area. Felt (IV) at Nazca and Pisco; (III) at Ica and Moquegua; (II) at Cuzco and Lima. Also felt (V) at Arica and Putre; (IV) at Camarones, Camina, Codpa, Iquique and Pozo Almonte; (III) at Huara and Pica, Chile. Landslides temporarily blocked the Pan American Highway at four locations in southern Peru. Two events about 3.5 seconds apart.
APR 05	11 08 04.0	5.591 S	149.568 E	150 G	6.2	7.0	1.0	233	NEW BRITAIN REGION, P.N.G. Mw 7.4 (GS), 7.4 (HRV). Me 7.3 (GS). Es=1.9*10**15 Nm (GS). Mo=1.3*10**20 Nm (GS). Mo=1.5*10**20 Nm (HRV). Mo=1.0*10**20 Nm (PPT). Felt strongly at Kimbe. Also felt at Port Moresby, New Guinea. Complex event. A small event is followed by a larger one about 6 seconds later.
APR 08	13 10 34.0	43.607 N	130.350 E	566 D	6.4		0.8	645	EASTERN RUSSIA-NORTHEASTERN CHINA BORDER REG. Mw 7.1 (GS), 7.1 (HRV). Me 7.1 (GS). Es=9.0*10**14 Nm (GS). Mo=5.0*10**19 Nm (GS). Mo=5.1*10**19 Nm (HRV). Mo=3.5*10**19 Nm (PPT). Felt (IV) at Ussuriysk; (III) at Khabarovsk, Nakhodka and Vladivostok; (II) at Blagoveshchensk, Komsomolsk-na-Amure and Zeya, Russia. Felt in parts of Hebei, Heilongjiang and Jilin Provinces, China. Also felt in southern Hokkaido, northern Honshu and at Tokyo, Japan.
APR 13	10 38 48.4	21.422 S	176.460 W	164 D	6.4		0.8	464	FIJI ISLANDS REGION. Mw 6.8 (GS), 6.8 (HRV). Me 6.8 (GS). Es=4.1*10**14 Nm (GS). Mo=2.1*10**19 Nm (GS). Mo=1.9*10**19 Nm (HRV). Mo=4.0*10**19 Nm (PPT).
APR 20	19 04 08.3	31.888 S	179.040 W	96 D	6.2		0.9	385	KERMADEC ISLANDS REGION. Mw 6.5 (GS), 6.5 (HRV). Me 6.6 (GS). Es=1.6*10**14 Nm (GS). Mo=5.8*10**18 Nm (GS). Mo=5.9*10**18 Nm (HRV). Mo=1.0*10**19 Nm (PPT). Felt along the east coast of the North Island from Wairoa to Wellington
APR 22	22 19 36.9	27.953 S	26.635 E	5 G	5.7	4.7	0.7	290	REPUBLIC OF SOUTH AFRICA. Two people killed in a gold mine and some buildings damaged in the Welkom area.

DATE	ORIGIN TIME UTC HR MN SEC	GEOGRAPHIC COORDINATES LAT LONG	DEPTH	MAGNITUDES SD GS MB Msz	NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
MAY 06	23 00 53.1	29.501 N 51.880 E	33 N	5.9 6.3 1.0	358	SOUTHERN IRAN. Mw 6.1 (GS), 6.2 (HRV). Ms 6.2 (BRK). Mo=1.7*10**18 Nm (GS). Mo=2.5*10**18 Nm (HRV). At least 26 people killed, 100 injured and 800 houses destroyed in southwestern Fars Province. Felt at Kazerun and Shiraz. Also felt in parts of Bushehr and Kohkiluyeh va Buyer Ahmadi Provinces.
MAY 10	20 33 02.0	5.159 S 150.880 E	138 D	6.5 6.8 0.9	430	NEW BRITAIN REGION, P.N.G. Mw 7.1 (GS), 7.1 (HRV). Me 7.0 (GS). mb 6.5 (BRK). Es=7.7*10**14 Nm (GS). Mo=4.8*10**19 Nm (GS). Mo=4.7*10**19 Nm (HRV). Mo=4.4*10**19 Nm (PPT). Felt on New Britain. Also felt at Port Moresby, New Guinea.
MAY 12	17 59 22.4	43.032 N 143.835 E	103 D	5.9 0.8	451	HOKKAIDO, JAPAN REGION. Mw 6.2 (GS), 6.2 (HRV). Me 6.5 (GS). Es=1.2*10**14 Nm (GS). Mo=2.4*10**18 Nm (GS). Mo=2.4*10**18 Nm (HRV). Felt (IV JMA) in southeastern Hokkaido and (III JMA) in parts of Aomori, Iwate and Miyagi Prefectures, Honshu. Felt in much of Hokkaido and south to Fukushima Prefecture. Also felt (IV) at Yuzhno-Kurilsk, Kunashir.
MAY 16	00 51 20.4	4.751 S 152.486 E	74	6.0 7.0 0.9	346	NEW BRITAIN REGION, P.N.G. Mw 7.0 (GS), 7.1 (HRV). Me 6.4 (GS). Es=1.0*10**14 Nm (GS). Mo=4.0*10**19 Nm (GS). Mo=4.5*10**19 Nm (HRV). Mo=4.0*10**19 Nm (PPT). Felt strongly on the Gazelle Peninsula. Also felt in other parts of New Britain and on New Ireland. Two events about 6 seconds apart.
MAY 17	10 07 56.4	5.165 S 152.877 E	27 G	5.5 6.9 1.0	271	NEW BRITAIN REGION, P.N.G. Mw 6.4 (GS), 6.6 (HRV). Me 6.0 (GS). Es=2.2*10**13 Nm (GS). Mo=5.0*10**18 Nm (GS). Mo=8.6*10**18 Nm (HRV). Mo=2.6*10**18 Nm (PPT).
JUN 04	09 12 50.0	40.802 N 47.448 E	33 N	5.4 5.0 1.2	305	EASTERN CAUCASUS. Mw 5.4 (GS), 5.4 (HRV), 5.5 (CSEM). Me 5.6 (GS). Es=5.4*10**12 Nm (GS). Mo=1.3*10**17 Nm (GS). Mo=1.6*10**17 Nm (HRV). Mo=1.8*10**17 Nm (CSEM). Eighteen people injured, more than 50 houses damaged and estimated 5 million U.S. dollars damage in central Azerbaijan, mostly in the Agdas area. Felt (V) at Xankandi and (III) at Baku, Azerbaijan. Also felt (V) at Goris and Ijevan; (III) at Gyumri, Stepanavan, Vanadzor and Yerevan, Armenia. Felt (IV) at Tbilisi, Georgia and (II) at Derbent, Gunib and Makhachkala, Russia. Also felt in the Ardabil region, Iran.
JUN 07	07 45 49.0	8.586 N 125.854 E	33 N	5.2 5.4 1.3	72	MINDANAO, PHILIPPINE ISLANDS. Mw 5.7 (HRV). Mo=3.6*10**17 Nm (HRV). Twelve people injured and at least 20 buildings damaged or destroyed (VI RF) at Bayugan. Felt (V RF) at Butuan and San Francisco; (IV RF) at Hinatuan and Lianga; (II RF) at Bislig and Cagayan de Oro; (I RF) on Camiguin.
JUN 15	20 42 05.9	18.386 N 97.436 W	70 G	6.4 6.5 1.1	516	CENTRAL MEXICO. Mw 6.9 (GS), 7.0 (HRV). Me 6.7 (GS). Es=2.2*10**14 Nm (GS). Mo=2.6*10**19 Nm (GS). Mo=3.1*10**19 Nm (HRV). Mo=4.0*10**19 Nm (PPT). Fourteen people killed, about 200 injured and considerable damage (VIII) to thousands of buildings and several bridges in Puebla; one person killed by a landslide, dozens injured and damage to buildings and bridges in Veracruz; one person killed, dozens injured, many buildings and roads damaged in Oaxaca; one person killed and some buildings damaged in Morelos; one person died of a heart attack and some buildings damaged in Guerrero; two people died of heart attacks and minor damage to buildings in the Distrito Federal. Dozens injured and damage in the states of Mexico and Tlaxcala; two people injured in Hidalgo. A railroad was damaged between Calco and Mixquic. Felt in much of central and southern Mexico from Aguascalientes to Chiapas. Complex earthquake, with at least one event occurring about 3 seconds after the onset.
JUN 21	17 43 04.5	18.324 N 101.539 W	69 D	6.0 5.8 1.1	352	GUERRERO, MEXICO. Mw 6.2 (GS), 6.3 (HRV). Me 5.7 (GS). MD 5.8 (UNM). Es=8.5*10**12 Nm (GS). Mo=2.6*10**18 Nm (GS). Mo=3.1*10**18 Nm (HRV). More than 1,300 homes damaged including 600 at Coahuayutla, Guerrero. One church damaged at Cuitzeo, Michoacan. Minor damage in Morelos. Felt at Mexico City and in the states of Colima, Jalisco, Mexico, Oaxaca, Puebla, San Luis Potosi and Veracruz. Two events about 2 seconds apart.

DATE	ORIGIN TIME UTC HR MN SEC	GEOGRAPHIC COORDINATES LAT LONG	DEPTH	MAGNITUDES SD GS MB Msz	NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
JUL 03	01 43 54.0&	47.076 N 123.463 W	41	5.4 5.5	380	WASHINGTON. <SEA-P>. Mw 5.8 (GS), 5.8 (HRV). Me 5.3 (GS). Es=2.0*10**12 Nm (GS). Mo=6.6*10**17 Nm (GS). Mo=6.3*10**17 Nm (HRV). Mo=3.4*10**17 Nm (PPT). 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.
JUL 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). Es=8.0*10**14 Nm (GS). Mo=1.2*10**19 Nm (GS). Mo=1.2*10**19 Nm (HRV). 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.
JUL 19	02 17 03.6	28.629 S 177.608 W	39 G	6.3 6.2 0.9	411	KERMADEC ISLANDS REGION. Mw 6.4 (GS), 6.5 (HRV). Me 6.5 (GS). Es=1.1*10**14 Nm (GS). Mo=5.1*10**18 Nm (GS). Mo=5.5*10**18 Nm (HRV). Felt on Raoul.
JUL 22	10 42 11.7	21.544 N 91.895 E	10 G	5.2 4.2 0.8	154	BAY OF BENGAL. Six people killed, over 200 injured and about 700 homes damaged or destroyed on Maheshkhali Island, Bangladesh. Some damage at Cox's Bazaar. Felt at Chittagong and on Sandwip Island, Bangladesh.
AUG 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 6.2 (GS), 6.5 (HRV). Me 6.2 (GS). Es=4.5*10**13 Nm (GS). Mo=2.1*10**18 Nm (GS). Mo=6.6*10**18 Nm (HRV). Mo=8.0*10**18 Nm (PPT).
AUG 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.
AUG 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). Mo=2.9*10**17 Nm (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.
AUG 17	00 01 39.1	40.748 N 29.864 E	17 G	6.3 7.8 1.3	381	TURKEY. Mw 7.4 (GS), 7.6 (HRV), 7.6 (CSEM), 7.3 (OBN). Me 7.7 (GS). MD 6.7 (ISK). Es=8.1*10**15 Nm (GS). Mo=1.4*10**20 Nm (GS). Mo=2.9*10**20 Nm (HRV). Mo=2.4*10**20 Nm (CSEM). Mo=9.5*10**19 Nm (OBN). Mo=1.8*10**20 Nm (PPT). 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.
AUG 20	10 02 21.1&	9.044 N 84.159 W	20 G	6.1 6.9	542	COSTA RICA. <CASC>. Mw 6.8 (GS), 6.9 (HRV). Me 6.4 (GS). ML 6.1 (CASC). Es=9.3*10**13 Nm (GS). Mo=1.6*10**19 Nm (GS). Mo=2.6*10**19 Nm (HRV). Mo=2.6*10**19 Nm (PPT). Some damage in western Panama. Felt in southern Nicaragua and throughout Costa Rica. A small onset is followed by a larger event about 2 seconds later.
AUG 22	12 40 45.9	16.117 S 168.039 E	33 N	6.3 6.2 1.1	272	VANUATU ISLANDS. Mw 6.5 (GS), 6.6 (HRV). Me 6.5 (GS). Es=1.2*10**14 Nm (GS). Mo=6.9*10**18 Nm (GS). Mo=7.7*10**18 Nm (HRV). Felt strongly on Ambrym. Landslides and rockfalls occurred on the island.
AUG 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). Es=1.9*10**14 Nm (GS). Mo=1.9*10**18 Nm (GS). Mo=1.7*10**18 Nm (HRV).
AUG 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). Mo=6.6*10**16 Nm (HRV). One person killed, 166 injured and additional damage in the Izmit area. Felt at Istanbul.

DATE	ORIGIN TIME UTC HR MN SEC	GEOGRAPHIC COORDINATES LAT LONG	DEPTH	MAGNITUDES SD GS MB Msz	NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
SEP 07	11 56 49.3	38.119 N 23.605 E	10 G	5.6 5.8 1.1	416	GREECE. Mw 5.9 (GS), 6.0 (HRV). Me 5.7 (GS). Ms 5.8 (BRK). ML 5.4 (THE). Es=7.5*10**12 Nm (GS). Mo=8.9*10**17 Nm (GS). Mo=1.1*10**18 Nm (HRV). 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.
SEP 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). Es=9.5*10**12 Nm (GS). Mo=6.7*10**17 Nm (GS). Mo=6.0*10**17 Nm (HRV). 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.
SEP 20	17 47 18.4	23.772 N 120.982 E	33 N	6.5 7.7 1.1	367	TAIWAN. Mw 7.5 (GS), 7.7 (HRV), 7.5 (OBN). Me 7.2 (GS). Es=1.5*10**15 Nm (GS). Mo=1.7*10**20 Nm (GS). Mo=3.4*10**20 Nm (HRV). Mo=1.8*10**20 Nm (OBN). Mo=5.2*10**20 Nm (PPT). 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. Complex earthquake. A small event is followed by a larger one about 11 seconds later.
SEP 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.
SEP 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.
SEP 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). Mo=4.8*10**18 Nm (HRV). 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.
SEP 25	23 52 48.6	23.738 N 121.158 E	17 G	6.2 6.4 0.9	405	TAIWAN. Mw 6.4 (GS), 6.5 (HRV). Me 6.2 (GS). Es=4.9*10**13 Nm (GS). Mo=4.0*10**18 Nm (GS). Mo=6.0*10**18 Nm (HRV). Additional casualties, damage and landslides in the epicentral area. Felt (V JMA) at Chia-i; (IV JMA) at Hua-lien; (III JMA) at I-lan and Tai-tung; (II JMA) at Kao-hsiung and Taipei. Felt in much of Taiwan. Felt (IV JMA) on Peng-hu Tao and (IV) in Hong Kong. Also felt (I JMA) on Iriomote-jima and Yonaguni-jima, Ryukyu Islands.
SEP 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). Mo=6.9*10**16 Nm (HRV). One person killed at Istanbul.
SEP 30	16 31 15.6	16.059 N 96.931 W	61	6.5 7.5 0.9	631	OAXACA, MEXICO. Mw 7.4 (GS), 7.5 (HRV). Me 7.2 (GS). Es=1.3*10**15 Nm (GS). Mo=1.5*10**20 Nm (GS). Mo=1.7*10**20 Nm (HRV). Mo=2.4*10**20 Nm (PPT). At least 33 people killed, 215 injured, thousands of buildings damaged or destroyed, utilities disrupted and roads blocked by landslides in the state of Oaxaca. Maximum intensity (VIII) in southwestern Oaxaca. One person killed and minor damage to some buildings at Mexico City. One person killed at Cordoba, Veracruz. Minor damage in the states of Guerrero, Morelos, Puebla, Tlaxcala and Veracruz. Felt from the state of San Luis Potosi to Guatemala.
OCT 05	00 53 28.9	36.730 N 28.240 E	33 N	4.9 4.6 1.2	232	DODECANESE ISLANDS. Mw 5.2 (HRV), 5.6 (CSEM). ML 4.9 (THE). Mo=6.9*10**16 Nm (HRV). Mo=2.9*10**17 Nm (CSEM). At least 103 people injured in the Marmaris area, Turkey. Felt on Kos and Rhodes, Greece.

DATE	ORIGIN TIME UTC	GEOGRAPHIC COORDINATES	DEPTH	MAGNITUDES SD GS	NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
	HR MN SEC	LAT LONG		MB Msz		
OCT 16	09 46 44.1	34.594 N 116.271 W	0	6.3 7.4	527	SOUTHERN CALIFORNIA. <PAS-P>. Mw 7.1 (GS), 7.2 (HRV), 7.0 (BRK), 7.0 (OBN). Me 7.3 (GS). ML 7.3 (BRK). Es=1.9*10**15 Nm (GS). Mo=5.6*10**19 Nm (GS). Mo=6.0*10**19 Nm (HRV). Mo=4.0*10**19 Nm (BRK). Mo=3.0*10**19 Nm (OBN). Four people slightly injured when an Amtrak train derailed near Ludlow. Damage (VII) at Landers, Ludlow, Twentynine Palms and Twentynine Palms Marine Corps Base. Slight damage (VI) at Amboy, Apple Valley, Baker, Barstow, Big Bear Lake, Cima, Crest Park, Desert Center, Essex, Fawnskin, Fort Irwin, Hemet, Highland, Hinkley, Joshua Tree, Lucerne Valley, Newberry Springs, Olancho, Palm Springs, Phelan, Ridgecrest, Tecopa, Thousand Palms and Victorville. Also slight damage (VI) at Laughlin, Nevada. Felt (V) at many localities in southern California, southern Nevada and western Arizona. Also felt at Ensenada, Mexicali, Tecate and Tijuana, Baja California. Surface faulting observed along a 45-kilometer segment of the Lavic Lake Fault with as much as 2.8-4.7 meters of right-lateral displacement. Complex earthquake begins with tiny precursor followed by major events about 4 and 7 seconds after the onset.
OCT 18	02 43 23.8	56.121 S 26.578 W	33 N	6.0 6.2 0.9	152	SOUTH SANDWICH ISLANDS REGION. Mw 6.3 (GS), 6.3 (HRV). Me 6.6 (GS). Es=1.9*10**14 Nm (GS). Mo=3.2*10**18 Nm (GS). Mo=3.5*10**18 Nm (HRV).
OCT 22	02 18 58.5	23.445 N 120.506 E	33 N	5.7 5.6 1.0	299	TAIWAN. Mw 5.9 (GS), 5.9 (HRV). Me 5.7 (GS). Es=6.7*10**12 Nm (GS). Mo=6.9*10**17 Nm (GS). Mo=6.9*10**17 Nm (HRV). One person killed, 254 people injured and 15 buildings collapsed in the Chia-i area. Maximum intensity (VI JMA) in eastern Chia-i, northern Tai-nan and southern Yun-lin Counties. Felt throughout Taiwan. Also felt (IV) in Hong Kong.
OCT 31	13 27 42.4?	13.64 S 74.43 W	62 D	4.4 1.3	21	CENTRAL PERU. Thirty people injured, 210 adobe houses destroyed and 1,100 damaged (VI) in the Chuschi area. Felt (II) at Cangallo and Huancapi.
OCT 31	15 09 39.8	29.413 N 51.807 E	33 N	5.0 4.9 1.3	196	SOUTHERN IRAN. Mw 5.2 (HRV). Mo=6.9*10**16 Nm (HRV). Thirty people injured, some buildings damaged and power outages in the Kazerun area.
NOV 01	13 25 16.5	39.899 N 113.983 E	10 G	5.1 5.3 1.2	120	NORTHEASTERN CHINA. Mw 5.3 (HRV). ML 5.5 (BJI). Mo=9.1*10**16 Nm (HRV). Four people injured and 6,000 houses damaged in Shanxi Province. Some damage in Hebei Province. Felt at Hohhot and Tianjin.
NOV 07	16 54 41.7	40.693 N 30.725 E	10 G	4.9 4.2 1.1	186	TURKEY. Mw 5.0 (HRV). MD 5.0 (ISK). Mo=3.2*10**16 Nm (HRV). One person died from a heart attack at Hendek. Felt at Bursa, Eskisehir, Istanbul, Izmit and Sakarya.
NOV 08	16 45 43.0	36.522 N 71.240 E	228 D	6.2 1.0	436	AFGHANISTAN-TAJIKISTAN BORD REG. Mw 6.5 (GS), 6.5 (HRV). Me 6.2 (GS). Es=4.6*10**13 Nm (GS). Mo=6.7*10**18 Nm (GS). Mo=6.4*10**18 Nm (HRV). One person injured at Kabul; felt throughout eastern Afghanistan. Felt (VI) at Dushanbe, Tajikistan. Felt (V) at Samargand and Toshkent; (IV) at Farghona; (III) at Andijon and Namangan, Uzbekistan. Felt (III) at Chardzhev, Turkmenistan. Felt in much of Pakistan from North West Frontier Province to parts of Sindh Province. Felt at Srinagar, Jammu and Kashmir. Also felt in many parts of northern India as far south as Delhi.
NOV 11	14 41 25.6&	40.744 N 30.266 E	22	5.5 5.5	472	TURKEY. <ISK>. Mw 5.7 (GS), 5.7 (HRV), 5.7 (CSEM). MD 5.7 (ISK). ML 5.2 (THE). Mo=3.5*10**17 Nm (GS). Mo=3.6*10**17 Nm (HRV). Mo=3.8*10**17 Nm (CSEM). One person killed, one died of a heart attack and 156 injured at Sakarya. Thirteen people injured at Kocaeli and two injured at Golcuk. Felt at Istanbul and Sapanca.
NOV 12	16 57 19.5	40.758 N 31.161 E	10 G	6.3 7.5 1.1	484	TURKEY. Mw 7.1 (GS), 7.2 (HRV), 7.0 (CSEM), 7.3 (OBN). Me 7.0 (GS). ML 6.6 (THE). Es=7.4*10**14 Nm (GS). Mo=5.6*10**19 Nm (GS). Mo=6.7*10**19 Nm (HRV). Mo=4.1*10**19 Nm (CSEM). Mo=9.1*10**19 Nm (OBN). At least 894 people killed and 4,948 injured, mostly in the Bolu-Duzce area. Casualties occurred as far as Eskisehir, Yalova and Zonguldak. Extensive damage occurred in the Bolu-Duzce area. Landslides in the Bolu Pass blocked the Ankara-Istanbul highway. Felt as far as Ankara, Istanbul and Izmir. Also felt (III) at Chisinau, Moldova and (III) at Sevastopol and Simferopol, Ukraine. Two events about 2 seconds apart.

DATE	ORIGIN TIME UTC HR MN SEC	GEOGRAPHIC COORDINATES LAT LONG	DEPTH	MAGNITUDES SD GS MB Msz	NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
NOV 15	05 42 43.2	1.339 S 88.976 E	10 G	6.3 6.9 1.0	457	SOUTH INDIAN OCEAN. Mw 6.8 (GS), 7.0 (HRV), 6.7 (OBN). Me 7.7 (GS). Es=7.0*10**15 Nm (GS). Mo=1.6*10**19 Nm (GS). Mo=3.3*10**19 Nm (HRV). Mo=1.2*10**19 Nm (OBN). Felt in the Colombo area, Sri Lanka. Also felt (II) at Banda Aceh, Indonesia. Complex earthquake. A small event is followed by a larger one about 3 seconds later.
NOV 17	03 27 42.0	5.978 S 148.820 E	48	5.9 7.0 0.9	336	NEW BRITAIN REGION, P.N.G. Mw 6.9 (GS), 6.9 (HRV). Me 6.3 (GS). Es=6.4*10**13 Nm (GS). Mo=2.8*10**19 Nm (GS). Mo=2.9*10**19 Nm (HRV). Mo=2.6*10**19 Nm (PPT). Felt at Kimbe and in western New Britain. Two events about 8 seconds apart.
NOV 19	13 56 46.4	6.351 S 148.763 E	33 N	5.9 7.0 1.1	268	NEW BRITAIN REGION, P.N.G. Mw 6.8 (GS), 7.0 (HRV). Me 6.3 (GS). ML 6.3 (PMG). Es=6.6*10**13 Nm (GS). Mo=1.8*10**19 Nm (GS). Mo=4.0*10**19 Nm (HRV).
NOV 24	16 40 21.2	24.589 N 102.872 E	33 N	4.8 4.6 1.0	49	YUNNAN, CHINA. ML 5.0 (BJI). One person killed, 5 injured and 90 buildings destroyed in Chengjiang County.
NOV 26	04 27 24.7	36.920 N 54.900 E	33 N	5.2 4.8 1.0	172	NORTHERN IRAN. Mw 5.3 (HRV). Mo=1.1*10**17 Nm (HRV). About 50 buildings damaged in the Gorgan area.
NOV 26	13 21 15.5	16.423 S 168.214 E	33 N	6.4 7.3 1.2	273	VANUATU ISLANDS. Mw 7.2 (GS), 7.5 (HRV), 7.2 (OBN). Me 7.3 (GS). Es=1.7*10**15 Nm (GS). Mo=8.4*10**19 Nm (GS). Mo=1.7*10**20 Nm (HRV). Mo=7.9*10**19 Nm (OBN). Mo=4.5*10**20 Nm (PPT). At least five people killed and forty injured by collapsed buildings and landslides on Pentecost. Extensive damage to roads and telephone lines on Pentecost. At least five people killed at Mortelli Bay by a local tsunami, which was also recorded at Suva, Fiji. Damage and landslides also occurred on Ambrym, Epi and Paama. Felt strongly in much of Vanuatu.
NOV 29	03 46 30.1	1.275 S 89.043 E	10 G	5.9 6.4 1.1	324	SOUTH INDIAN OCEAN. Mw 6.4 (GS), 6.4 (HRV). Me 6.9 (GS). Es=5.2*10**14 Nm (GS). Mo=4.9*10**18 Nm (GS). Mo=4.5*10**18 Nm (HRV). Felt in parts of Sri Lanka.
NOV 30	04 01 53.2	18.901 S 69.171 W	128 D	6.2 0.9	442	NORTHERN CHILE. Mw 6.6 (GS), 6.6 (HRV). Me 6.1 (GS). Es=3.5*10**13 Nm (GS). Mo=8.2*10**18 Nm (GS). Mo=7.7*10**18 Nm (HRV). Slight damage and power outages in the epicentral area. Felt (V) at Arica, Camarones, Putre, Tarapaca and Tignamar; (IV) at Iquique; (III) at Antofagasta, Calama, Camar, Maria Elena, Mejillones, Talabre and Tocopilla. Also felt (V) at Tacna; (IV) at Ilo and Moquegua; (III) at Arequipa, Peru. Two events about 2.5 seconds apart.
DEC 03	17 06 54.7	40.358 N 42.346 E	19	5.3 5.5 1.3	261	TURKEY. Mw 5.7 (GS), 5.7 (HRV). Mo=3.8*10**17 Nm (GS). Mo=4.0*10**17 Nm (HRV). One person killed at Goresken. Six people injured, 340 houses damaged and one road closed due to a landslide in Erzurum Province. Felt at Batumi, Georgia. Felt (III) at Adler, Dagomys, Khosta and Sochi, Russia.
DEC 06	23 12 33.9	57.413 N 154.489 W	66 D	6.8 1.2	527	KODIAK ISLAND REGION. Mw 7.0 (GS), 7.0 (HRV). Me 7.0 (GS). ML 7.0 (AEIC), 6.7 (PMR). Es=7.8*10**14 Nm (GS). Mo=3.3*10**19 Nm (GS). Mo=3.5*10**19 Nm (HRV). Slight damage (VI) at Larsen Bay and Old Harbor. Felt strongly at Akhiok and Kodiak. Felt (III) at Homer and Chignik; (II) at Anchorage, Palmer and Willow. Also felt at Dillingham, Eagle River, Fairbanks, Kasilof, Nelson Lagoon and Nikiski.
DEC 07	00 19 49.6	57.362 N 154.514 W	41	6.5 6.1 1.0	478	KODIAK ISLAND REGION. Mw 6.4 (GS), 6.4 (HRV). Me 6.4 (GS). ML 6.3 (PMR), 6.1 (AEIC). Es=9.7*10**13 Nm (GS). Mo=4.9*10**18 Nm (GS). Mo=5.0*10**18 Nm (HRV). Felt at Anchorage, Ekwok, Homer, King Salmon, Kodiak and Old Harbor.
DEC 10	18 38 30.1	36.206 S 97.316 W	10 G	5.7 6.2 1.3	232	WEST CHILE RISE. Mw 6.5 (GS), 6.5 (HRV). Mo=6.5*10**18 Nm (GS). Mo=6.8*10**18 Nm (HRV).
DEC 11	18 03 36.4	15.766 N 119.740 E	33 N	6.5 7.1 1.0	516	LUZON, PHILIPPINE ISLANDS. Mw 7.1 (GS), 7.3 (HRV). Me 7.1 (GS). Ms 7.2 (BRK). Es=9.0*10**14 Nm (GS). Mo=5.8*10**19 Nm (GS). Mo=8.9*10**19 Nm (HRV). Mo=1.3*10**20 Nm (PPT). One person killed at Masinloc. Four people died from heart attacks and 40 injured on Luzon. Damage to structures (VII RF) at Santa Cruz and (VI RF) at Iba, Manila and Masinloc. Power outages occurred in the Manila area. Felt (VI RF) at Clark Air Base, Olongapo and San Fernando; (V RF) at Dagupan, Pasig, Quezon and Taguig; (IV RF) at Baguio, Lucban, Malolos, Palayan, San Jose, Santo Domingo and Tagaytay; (III RF) at Santa; (II RF) at Guinungan and Pasuquin; (I RF) at Tuguegarao.

DATE	ORIGIN TIME UTC HR MN SEC	GEOGRAPHIC COORDINATES LAT LONG	DEPTH	MAGNITUDES GS MB Msz	SD	NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
DEC 15	05 12 33.1*	11.246 N 124.657 E	33 N	4.8	1.2	28	LEYTE, PHILIPPINE ISLANDS. One person killed at Tacloban. Minor damage (VI RF) at Leyte. Felt (III RF) at Ormoc. Also felt (II RF) at Borongan, Samar and (II RF) at Lapu-Lapu, Cebu.
DEC 21	14 14 57.6	6.845 S 105.555 E	56 D	6.2 6.3	1.0	435	SUNDA STRAIT. Mw 6.5 (GS), 6.5 (HRV). Me 6.4 (GS). Es=8.3*10**13 Nm (GS). Mo=5.4*10**18 Nm (GS). Mo=5.5*10**18 Nm (HRV). Five people killed at Pandeglang, more than 220 injured and 2,800 houses damaged in western Jawa. Damage estimated at 3.9 million US dollars. Felt (V) at Jakarta and (III) at Bandung and Bekasi, Jawa; (III) at Liwa and Tanjungkarang-Telukbetung, Sumatera. Felt through out western Jawa and in southeastern Sumatera, Indonesia.
DEC 22	17 36 56.2	35.321 N 1.281 W	10 G	5.4 5.5	1.2	346	NORTHERN ALGERIA. Mw 5.6 (HRV). mbLg 5.7 (MDD). Mo=3.0*10**17 Nm (HRV). Twenty-four people killed, about 175 injured and 3,000 houses destroyed (VII) in the Ain Temouchent area. Felt at Arzew, Mascara, Oran and Tlemcen. Felt at Oujda, Morocco. Felt (III) at Almeria, Cartagena and Melilla, Spain.
DEC 29	05 19 46.9	18.244 N 101.432 W	70 D	6.1 5.4	1.0	363	GUERRERO, MEXICO. Mw 5.9 (GS), 5.9 (HRV). Me 5.9 (GS). Es=1.6*10**13 Nm (GS). Mo=8.5*10**17 Nm (GS). Mo=8.3*10**17 Nm (HRV). One person injured and minor structural damage at Coahuayutla de Guerrero. Felt at Mexico City and Zihuatanejo.
DEC 29	13 29 19.6	10.860 S 165.354 E	33 N	5.6 6.8	0.8	150	SANTA CRUZ ISLANDS. Mw 6.9 (GS), 6.9 (HRV). Me 6.5 (GS). Es=1.1*10**14 Nm (GS). Mo=2.3*10**19 Nm (GS). Mo=2.3*10**19 Nm (HRV). Mo=2.5*10**19 Nm (PPT). Complex earthquake, with the major event occurring about 18 seconds after a much smaller event.

Notable North American Earthquakes:

April 17	00 56 25.0&	19.248 N 155.489 W	11	5.6 5.1		222	HAWAII. Mw 5.8 (GS), 5.7 (HRV). MD 5.6 (HVO). Mo=6.4*10**17 Nm (GS). Mo=3.9*10**17 Nm (HRV). Some damage to homes at Pahala. Felt throughout the Island of Hawaii.
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Compiled by Waverly J. Person

Corrections to Previous Monthly Listings

1. Delete event at 19:24:12.0 UTC on July 10, 1997.
2. Delete event at 19:17:24.8 UTC on August 8, 1997.
3. Delete event at 09:27:45.3 UTC on September 4, 1997.
4. Delete event at 11:46:08.5 UTC on September 7, 1997.
5. Delete event at 06:04:30.0 UTC on October 10, 1997.
6. Delete event at 02:01:35.2 UTC on October 15, 1997. Event occurred at 02:01:35.45 UTC on October 21, 1997, located by ISC.
7. Delete event at 07:13:43.0 UTC on October 15, 1997. Event occurred at 07:13:40.58 UTC on October 20, 1997, located by ISC.
8. Delete event at 07:57:58.9 UTC on October 15, 1997. Event occurred at 07:57:58.08 UTC on October 22, 1997, located by ISC.
9. Delete event at 08:27:29.2 UTC on October 15, 1997.
10. Delete misassociated phase readings from EDR: eP from station MAT and P from MJAR for event at 19:47:04.2 UTC in Eastern New Guinea Region on October 23, 1997. Data belong to event at 19:54:02 UTC in South of Honshu, located by ISC.
11. Delete event at 17:50:22.3 UTC on November 1, 1997. Event occurred at 17:51:19.7 UTC, located by ISC.
12. Delete event at 05:06:36.1 UTC on November 3, 1997. Event occurred at 05:08:30.5 UTC, located by ISC.
13. Delete event at 22:15:38.9 UTC on November 6, 1997. Event occurred at 22:17:50.8 UTC, located by ISC.
14. Delete event at 07:26:47.5 UTC on November 10, 1997. Event occurred at 07:28:46.5 UTC, located by ISC.
15. Delete event at 08:21:22.3 UTC on November 10, 1997. Event occurred at 08:23:23.2 UTC, located by ISC.
16. Delete event at 17:07:06.9 UTC on November 10, 1997. Event occurred at 17:09:22.1 UTC, located by ISC.
17. Delete event at 17:39:08.1 UTC on November 10, 1997. Event occurred at 17:41:28.8 UTC, located by ISC.
18. Delete event at 04:07:12.7 UTC on November 12, 1997. Event occurred at 04:07:13.2 UTC on November 11, 1997, located by ISC.
19. Delete event at 05:10:02.2 UTC on November 12, 1997. Event occurred at 05:10:04.9 UTC on November 11, 1997, located by ISC.
20. Delete event at 05:16:38.8 UTC on November 12, 1997. Event occurred at 05:16:39.3 UTC on November 11, 1997, located by ISC.
21. Delete event at 14:32:39.2 UTC on November 12, 1997. Event occurred at 14:32:40.5 UTC on November 11, 1997, located by ISC.
22. Delete misassociated phase readings from EDR: (P) from station MAT, P from MJAR, P from KSAR, P from WRA and P from ASAR for event at 12:21:01.4 UTC on December 5, 1997. Data belong to event at 12:20:59.5 UTC.
23. Delete event at 12:21:01.4 UTC on December 5, 1997.
24. Delete event at 21:55:28.4 UTC on February 7, 1998.
25. Delete event at 17:56:16.7 UTC on April 2, 1998.
26. Delete event at 05:34:24.3 UTC on May 27, 1998.

The corrections shown above are based on information supplied by M. Andrianirina, E.L. Banganan, A.L. Bird and D.A. Storchak from the International Seismological Centre.

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.
 APT University of Connecticut.
 AUST Australian Geological Survey Organisation, Canberra, Australia.
 BGS British Geological Survey, Edinburgh, United Kingdom.
 BLA Virginia Polytechnic Institute and State University, Blacksburg.
 BOU University of Colorado, Boulder.
 BRK University of California, Berkeley.
 BSE Boise State University, Idaho.
 BUT Montana Bureau of Mines and Geology, Butte.
 CASC Central America Seismic Center, Costa Rica.
 CERI Center for Earthquake Research and Information, Memphis, Tennessee. (formerly TEIC)
 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. (formerly JER)
 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. (formerly SAN)
 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).
 KGS Kansas Geological Survey, Lawrence.
 LDG Laboratoire de Detection et de Geophysique, Bruyeres-le-Chatel, France.
 MACRO Hypocenter based upon macroseismic information.
 MD Duration magnitude (shown as DUR prior to 1986).
 MDD Instituto Geografico Nacional, Madrid, Spain.
 ME Energy Magnitude.
 MG Contributed local or regional magnitude of unspecified type (see "Contributed Magnitudes" below).
 MW Moment Magnitude.
 NC Northern California Seismic Network, University of California, Berkeley and U.S. Geological Survey, Menlo Park, California.
 OTT Geological Survey of Canada, Earth Physics Branch, Ottawa.
 PAL Columbia University, Lamont-Doherty Earth 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 West Coast and 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.
 RSPR Red Sismica de Puerto Rico, Mayaguez. (formerly MPR)
 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.
 TAP Central Weather Bureau, Taipei, China (Taiwan).
 TUL Oklahoma Geological Survey, Leonard.
 TVA Tennessee Valley Authority, Knoxville.
 UNM Universidad Nacional Autonoma de Mexico (UNAM), Mexico City, Mexico.
 USBR U. S. Bureau of Reclamation.
 UVC Universidad del Valle, Cali, Colombia.
 WES Weston Observatory, Massachusetts.
- Roman Used to indicate intensity (when not followed by RF or JMA they refer to the Modified Mercalli Scale or Numerals 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
Japan (JMA), 1996-present [†]	0-1	1	2	3	4	5L	5U	6L	6U	7	7	7
Japan (JMA), 1950-1993	0	I	II	II- III	III	IV	IV-V	V	V-VI	VI	VII	VII
Taiwan (TAP) [†]	-	1	2	3	4	5	5	6	6	6	6	6
Rossi-Forel (RF), 1873	I	I-II	III	IV-V	V-VI	VI- VII	VIII- VIII+	VIII+ -IX	IX+	X	X	X
Europe (MCS, MKS, EMS)	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII

[†] The Japan and Taiwan scales are now based on instrumental data. In 1993-1996, either instrumental or macroseismic data may have been used for JMA intensities.

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 the worldwide web (Internet), 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 automatically generated names from the Flinn-Engdahl (F-E) seismic and geographical regionalization scheme, proposed in 1965, defined in 1974 and revised in 1995. The boundaries of these regions are defined at one-degree intervals and therefore differ from irregular political boundaries. For example, F-E region 545 (Northern Italy) also includes small parts of France, Switzerland, Austria and Slovenia and F-E region 493 (Chesapeake Bay Region) includes all of the State of Delaware, plus parts of the District of Columbia, Maryland, New Jersey, Pennsylvania and Virginia. Beginning with January 2000, the 1995 revision to the F-E code has been used in the QED and PDE listings. This revision includes 28 additional regions, which were defined by subdividing larger regions to provide better coverage for Northwest Africa, Southeast Asia and seismic zones along oceanic ridges.

Young, J. B., Presgrave, B. W., Aichele, H., Wiens, D. A. and Flinn, E. A., 1996, The Flinn-Engdahl Regionalisation Scheme: the 1995 revision, *Physics of the Earth and Planetary Interiors*, v. 96, p. 223-297.

Flinn, E. A., Engdahl, E. R. and Hill, A. R., 1974, Seismic and geographical regionalization: *Bulletin of the Seismological Society of America*, v. 64, p. 771-993.

Flinn, E. A. and Engdahl, E. R., 1965, A proposed basis for geographical and seismic regionalization: *Reviews of Geophysics*, v. 3, p. 123-149.

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.

NEIS MAGNITUDES

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

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

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

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

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

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

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

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

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

where:

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

T is the period in seconds.

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

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

If the uncertainty of the computed depth is considered great enough that the depth could be less than 50 km, an M_s value may still be published, computed by the IASPEI formula and not corrected for depth.

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

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

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

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

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 M_b 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:

$$M_L = \log A - \log A_0$$

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^{11} dyne-cm).
 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, Raymond and Okal (1987 and 1990).
- Talandier, J., Raymond, 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

FEBRUARY 2000

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	01	05.4	4.358 S	151.907 E	189	5.2	0.9	33	NEW BRITAIN REGION, P.N.G.		
01	00	11	07.9	45.190 N	120.113 W	0			54	WASHINGTON-OREGON BORDER REGION. <SEA-P>. MD 3.6 (SEA).		
01	01	17	15.4	18.328 N	68.205 W	47			7	MONA PASSAGE. <RSPR>. MD 3.2 (RSPR).		
01	02	00	10.6	13.010 N	88.847 W	55 D	4.9 4.4	1.2	110	EL SALVADOR. Mw 5.2 (HRV). MD 4.6 (CASC). Centroid, Moment Tensor (HRV): Centroid origin time 02:00:12.3; Lat 12.69 N; Lon 88.98 W; Dep 64.6; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.91, Plg=53, Azm=114; (N) Val=-0.52, Plg=37, Azm=289; (P) Val=-6.39, Plg=2, Azm=21; Best double couple: Mo=6.7*10**16 Nm; NP1: Strike=142, Dip=54, Slip=138; NP2: Strike=260, Dip=58, Slip=45.		
01	02	05	52.2?	52.76 N	170.42 W	92 ?	3.8	1.0	7	FOX ISLANDS, ALEUTIAN ISLANDS		
01	02	08	29.2	9.608 N	126.585 E	33 N	4.6	1.2	28	MINDANAO, PHILIPPINES		
01	02	22	16.4	31.259 S	69.099 W	121		0.8	29	SAN JUAN PROVINCE, ARGENTINA		
01	02	26	29.6*	5.803 S	146.545 E	120 *	4.4	1.3	13	EASTERN NEW GUINEA REG., P.N.G.		
01	03	25	20.2	32.647 S	70.725 W	99			12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.8 (GUC).		
01	03	25	40.3	43.119 N	146.819 E	60 D	4.1	0.9	25	KURIL ISLANDS		
01	04	49	18.7?	24.08 S	179.90 E	600 G	4.3	1.1	14	SOUTH OF FIJI ISLANDS		
01	05	14	00.5	38.128 N	2.760 W	19			5	SPAIN. <MDD>. mbLg 1.8 (MDD).		
01	06	11	00.9*	20.488 S	68.820 W	145 *	3.8	1.1	14	CHILE-BOLIVIA BORDER REGION		
01	07	09	43.9*	43.844 N	21.379 E	10 G		0.7	10	NORTHWESTERN BALKAN REGION. MG 2.9 (SKO).		
01	07	40	27.5	32.601 N	116.161 W	9			4	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 2.8 (PAS). MD 2.7 (ECX).		
01	09	25	36.4	45.187 N	120.118 W	0			31	WASHINGTON-OREGON BORDER REGION. <SEA-P>. MD 2.8 (SEA).		
01	09	45	08.9	59.799 N	153.388 W	133			25	SOUTHERN ALASKA. <AEIC>.		
01	11	44	40.3*	18.438 N	80.109 W	10 G	4.1	0.6	13	NORTH OF HONDURAS. MD 3.7 (JSN).		
01	11	54	30.2*	31.592 S	69.299 W	150 G		0.9	14	SAN JUAN PROVINCE, ARGENTINA. MD 3.4 (GUC).		
01	12	39	41.3	8.906 S	116.270 E	80 D	4.9	1.1	45	SUMBAWA REGION, INDONESIA. Power outages occurred on Lombok. Felt (III) at Mataram, Lombok and at Denpasar, Bali.		
01	12	59	38.5	37.820 S	177.490 E	97			16	OFF E. COAST OF N. ISLAND, N.Z. <WEL>.		
01	13	11	39.8*	3.144 S	136.004 E	33 N	4.2	0.9	11	IRIAN JAYA, INDONESIA		
01	13	34	10.3*	48.816 N	10.210 E	5 G		0.9	6	GERMANY. ML 2.4 (STR), 2.3 (VIE).		
01	14	13	10.4	17.014 N	62.306 W	22			9	LEeward ISLANDS. <TRN>. MD 3.5 (TRN), 3.5 (FDF).		
01	14	58	14.9	19.571 N	64.859 W	15			7	VIRGIN ISLANDS. <RSPR>. MD 3.7 (RSPR).		
01	16	14	32.9*	67.967 N	159.307 W	10 G		1.0	7	NORTHERN ALASKA. ML 3.6 (PMR).		
01	16	28	07.4	47.203 N	14.572 E	10 G		1.1	7	AUSTRIA. ML 2.6 (VIE), 2.0 (LJU).		
01	16	46	23.8?	68.15 N	159.48 W	10 G		0.5	6	NORTHERN ALASKA. ML 3.6 (PMR).		
01	17	43	51.6	47.183 N	14.528 E	10 G		0.6	7	AUSTRIA. ML 2.7 (VIE).		
01	17	48	06.0	34.012 S	70.727 W	98			12	CHILE-ARGENTINA BORDER REGION. <GUC>.		
01	19	46	53.7*	28.740 S	177.519 W	33 N		0.9	13	KERMADEC ISLANDS REGION		
01	20	29	19.0	49.150 N	6.860 E	1 G			17	GERMANY. <FBB>. ML 2.8 (LDG), 2.2 (FBB). Mining induced event in the Lorraine region, France.		
01	20	59	28.7	35.063 N	120.849 W	0			6	CENTRAL CALIFORNIA. <PAS-P>. ML 2.9 (PAS).		
01	21	20	16.2	63.323 N	150.963 W	33 N		0.9	9	CENTRAL ALASKA. ML 3.0 (PMR).		
01	21	45	45.0	51.605 N	16.192 E	5 G		0.9	13	POLAND. ML 3.2 (VIE), 2.6 (CLL).		
01	22	15	45.3	42.240 N	106.732 W	5 G		0.9	15	WYOMING. ML 3.0 (GS).		
01	22	47	53.4	59.740 N	152.984 W	90			89	SOUTHERN ALASKA. <AEIC>.		
02	00	48	37.8	30.507 S	70.179 W	118			14	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.7 (GUC).		
02	00	49	52.9*	45.528 N	14.261 E	10 G		0.5	5	NORTHWESTERN BALKAN REGION. ML 1.9 (VIE).		
02	00	55	36.7	14.037 N	14.823 E	10 G		1.0	9	NORTHWESTERN BALKAN REGION. ML 2.1 (VIE), 1.6 (LJU).		
02	01	57	09.6	30.039 S	71.413 W	25			15	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.2 (GUC).		
02	02	11	03.4	6.371 S	128.068 E	398 *	4.3	0.7	17	BANDA SEA		
02	02	29	10.9	39.210 S	174.920 E	33 N			6	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.4 (WEL).		
02	03	05	57.9	44.373 N	7.304 E	14			9	NORTHERN ITALY. <GEN>. ML 1.9 (GEN).		
02	03	18	27.6*	20.041 N	72.782 W	10 G	4.1	1.0	24	HAITI REGION		
02	03	24	58.4	63.248 N	148.640 W	0	2.7		34	CENTRAL ALASKA. <AEIC>. ML 3.1 (AEIC), 3.3 (PMR).		
02	03	27	18.2	44.380 S	167.890 E	12			6	SOUTH ISLAND, NEW ZEALAND. <WEL>. ML 4.4 (WEL).		
02	03	42	16.2	44.127 N	147.304 E	72 *	4.6	1.1	68	KURIL ISLANDS		
02	03	46	29.1	18.561 N	66.792 W	81			5	PUERTO RICO REGION. <RSPR>. MD 3.1 (RSPR).		
02	04	32	22.0	48.240 N	9.010 E	6			12	GERMANY. <FBB>. ML 2.1 (VIE), 2.0 (STR), 1.7 (FBB).		
02	04	47	22.1*	16.494 S	168.121 E	33 N	4.8	1.3	45	VANUATU ISLANDS		

02	07	14	20.2*	32.582 N	104.629 W	5 G	0.9	7	NEW MEXICO. mblg 2.7 (GS).	
02	07	33	27.4&	44.723 N	7.595 E	2		22	NORTHERN ITALY. <LDG>. ML 2.5 (GEN), 2.3 (LDG).	
02	09	13	40.2&	37.159 N	4.292 W	0 G		6	SPAIN. <MDD>. mblg 2.6 (MDD).	
02	09	18	29.0&	18.276 N	66.232 W	75		10	PUERTO RICO REGION. <RSPR>. MD 3.0 (RSPR).	
02	10	07	04.1*	44.112 N	143.575 E	180 *	4.4	0.5	10	HOKKAIDO, JAPAN REGION
02	10	07	36.3*	51.952 N	177.891 E	143 *	4.4	0.9	31	RAT ISLANDS, ALEUTIAN ISLANDS
02	10	41	50.6	12.832 N	92.992 E	33 N	4.7	0.8	29	ANDAMAN ISLANDS, INDIA REGION
02	10	53	31.6*	12.758 N	92.966 E	33 N	3.9	0.8	10	ANDAMAN ISLANDS, INDIA REGION
02	11	40	13.5?	37.12 S	179.99 E	132 *	4.7	0.9	23	OFF E. COAST OF N. ISLAND, N.Z.
02	12	25	21.9*	49.024 S	124.979 E	10 G	4.7 4.7	1.3	27	WESTERN INDIAN-ANTARCTIC RIDGE. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 12:25:27.9; Lat 49.16 S; Lon 124.96 E; Dep 15.0 Fix; Half- duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.05, Plg=32, Azm=4; (N) Val=0.24, Plg=2, Azm=273; (P) Val=-1.29, Plg=58, Azm=180; Best double couple: Mo=1.2*10**17 Nm; NP1: Strike=100, Dip=13, Slip=-82; NP2: Strike=272, Dip=77, Slip=-92.
02	13	31	27.1	14.696 N	92.668 W	71 D	4.6	1.4	68	NEAR COAST OF CHIAPAS, MEXICO. MD 4.6 (UNM).
02	13	36	06.9*	45.570 N	13.334 E	10 G		1.0	8	NORTHERN ITALY. ML 2.8 (VIE).
02	14	08	06.0*	2.707 S	138.885 E	33 N	4.6 4.2	1.3	33	IRIAN JAYA, INDONESIA
02	16	16	55.2&	34.267 S	70.673 W	101			14	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.6 (GUC).
02	17	04	50.8	49.212 N	119.150 E	10 G	4.5	1.1	14	E. RUSSIA-N.E. CHINA BORDER REG.
02	17	19	59.9?	26.92 N	55.39 E	33 N	4.1	0.7	9	SOUTHERN IRAN
02	17	37	20.0&	40.371 N	28.845 E	28			6	TURKEY. <ISK>. MD 2.6 (ISK).
02	17	49	25.0*	13.570 N	121.359 E	33 N	4.6	1.3	14	MINDORO, PHILIPPINES
02	18	05	32.2	63.619 N	150.477 W	33 N		1.4	8	CENTRAL ALASKA. ML 3.3 (PMR).
02	18	24	09.7&	43.050 N	0.690 W	10 G			10	PYRENEES. <STR>. ML 2.2 (STR), 2.0 (LDG).
02	18	49	34.9	13.608 N	121.602 E	33 N	4.7 4.2	1.1	24	MINDORO, PHILIPPINES
02	21	08	21.3*	37.498 N	72.549 E	182 *	3.3	0.8	11	TAJIKISTAN
02	21	29	33.3&	18.033 N	101.795 W	31			6	GUERRERO, MEXICO. <UNM>. MD 4.0 (UNM).
02	21	58	49.7	5.730 S	148.932 E	113 D	5.4	1.1	76	NEW BRITAIN REGION, P.N.G. Mw 5.3 (GS), 5.3 (HRV). Moment Tensor (GS): Dep 106; Principal axes (scale 10**16 Nm): (T) Val=9.34, Plg=12, Azm=178; (N) Val=0.14, Plg=32, Azm=81; (P) Val=-9.48, Plg=55, Azm=286; Best double couple: Mo=9.4*10**16 Nm; NP1: Strike=303, Dip=43, Slip=-39; NP2: Strike=63, Dip=65, Slip=-126. Centroid, Moment Tensor (HRV): Centroid origin time 21:58:53.7; Lat 5.96 S; Lon 148.98 E; Dep 118.6; Half- duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.08, Plg=19, Azm=159; (N) Val=-0.17, Plg=37, Azm=54; (P) Val=-0.91, Plg=47, Azm=271; Best double couple: Mo=1.0*10**17 Nm; NP1: Strike=291, Dip=41, Slip=-26; NP2: Strike=41, Dip=73, Slip=-128.
02	22	30	54.4?	13.23 N	88.40 W	249 ?	3.9	1.1	13	EL SALVADOR
02	22	36	40.3	28.274 N	138.835 E	540	4.3	0.8	28	BONIN ISLANDS, JAPAN REGION
02	22	43	40.4&	42.540 N	1.670 E	10 G			8	PYRENEES. <STR>. ML 2.3 (STR), 2.2 (LDG).
02	22	58	01.5	35.288 N	58.218 E	33 N	5.1 5.3	0.9	116	NORTHERN AND CENTRAL IRAN. Mw 5.3 (HRV), 5.2 (GS). ML 5.4 (TEH). One person killed and at least 15 injured; 100 houses destroyed and 300 houses slightly damaged in the Bardaskan-Kashmar area. Moment Tensor (GS): Dep 20; Principal axes (scale 10**16 Nm): (T) Val=6.17, Plg=67, Azm=205; (N) Val=-0.18, Plg=4, Azm=107; (P) Val=-5.99, Plg=23, Azm=16; Best double couple: Mo=6.1*10**16 Nm; NP1: Strike=99, Dip=22, Slip=81; NP2: Strike=289, Dip=68, Slip=94. Centroid, Moment Tensor (HRV): Centroid origin time 22:58:03.0; Lat 35.46 N; Lon 58.19 E; Dep 26.8 Fix; Half- duration 1.2 sec; Principal axes (scale 10**16 Nm): (T) Val=9.87, Plg=82, Azm=250; (N) Val=0.01, Plg=8, Azm=91; (P) Val=-9.88, Plg=3, Azm=1; Best double couple: Mo=9.9*10**16 Nm; NP1: Strike=83, Dip=43, Slip=79; NP2: Strike=278, Dip=48, Slip=100.
02	23	03	23.8&	39.208 N	123.462 W	7			12	NEAR COAST OF NORTHERN CALIF. <NC-P>. ML 3.3 (NC), 3.3 (BRK). Felt at Boonville.
02	23	14	32.6&	40.514 N	124.447 W	24			22	NEAR COAST OF NORTHERN CALIF. <NC-P>. Mw 3.8 (BRK). ML 3.6 (NC), 3.6 (BRK). Felt (III) at Arcata, College of the Redwoods, Cullen, Eureka, Ferndale, Fortuna, McKinleyville and Samoa. Moment Tensor (BRK): Dep 24; Principal axes (scale 10**14 Nm): (T) Val=5.28, Plg=15, Azm=89; (N) Val=0.00, Plg=75, Azm=271; (P) Val=-5.28, Plg=1, Azm=179; Best double couple: Mo=5.3*10**14 Nm; NP1: Strike=133, Dip=80, Slip=169; NP2: Strike=225, Dip=79, Slip=10.
02	23	40	20.0	2.082 N	76.519 W	62 *	4.5	0.9	43	COLOMBIA
03	00	58	21.5	39.876 N	70.052 E	33 N	4.7	1.0	55	TAJIKISTAN. Felt (II) at Toshkent, Uzbekistan.
03	01	02	52.0&	48.310 N	9.030 E	10			26	GERMANY. <FBB>. ML 2.4 (LDG), 2.2 (STR), 2.2 (VIE), 2.0 (FBB).
03	01	21	17.5&	46.747 N	2.221 E	15			9	FRANCE. <LDG>. ML 2.2 (LDG).
03	01	59	40.8&	59.990 N	153.474 W	147			65	SOUTHERN ALASKA. <AEIC>.
03	02	00	17.7&	45.080 N	16.310 E	14			12	NORTHWESTERN BALKAN REGION. <ZAG>. ML 3.0 (ZAG), 2.7 (VIE).
03	02	14	39.1&	10.286 N	60.415 W	69			6	TRINIDAD. <TRN>. MD 2.9 (TRN).
03	02	36	28.8&	47.940 N	3.414 W	6 G			10	FRANCE. <LDG>. ML 2.6 (LDG).
03	03	57	13.1	46.212 N	15.406 E	10 G		0.2	6	NORTHWESTERN BALKAN REGION. ML 1.7 (LJU), 1.5 (VIE).
03	04	28	13.8	0.550 S	19.442 W	10 G	4.7	0.8	66	CENTRAL MID-ATLANTIC RIDGE
03	04	32	45.5&	34.724 N	121.467 W	6 G			19	OFF COAST OF CALIFORNIA. <PAS-P>. ML 3.4 (PAS), 3.6 (BRK).
03	05	13	39.1&	63.142 N	149.860 W	96			75	CENTRAL ALASKA. <AEIC>.
03	06	10	53.8?	12.56 N	70.84 W	33 N	3.5	1.5	8	NEAR COAST OF VENEZUELA
03	06	51	27.3&	39.166 N	2.023 E	0 G			15	BALEARIC ISLANDS, SPAIN. <MDD>. mblg 2.8 (MDD).
03	06	53	47.3&	28.651 N	14.994 W	16			4	CANARY ISLANDS, SPAIN REGION. <MDD>. ML 2.7 (MDD).
03	07	17	09.0	46.006 N	13.377 E	10 G		1.3	24	AUSTRIA. ML 3.2 (VIE), 3.0 (LDG), 2.8 (TRI), 2.6 (LJU). Felt (IV) at Anhovo, Deskle, Kobarid and Nova Gorica, Slovenia.
03	08	29	29.4*	24.197 N	122.137 E	33 N	4.2	1.5	12	TAIWAN REGION. ML 4.8 (TAP). Recorded (4 TAP) in the epicentral area, (2 TAP) at I-lan and (1 TAP) at Taipei.

03	08	33	44.9*	26.435 N	96.758 E	122 ?	4.3	1.0	20	MYANMAR
03	08	39	18.7&	34.164 S	70.986 W	75			11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
03	09	19	55.3?	46.09 N	15.18 E	10 G		0.3	4	NORTHWESTERN BALKAN REGION. ML 1.7 (VIE).
03	09	56	45.4&	43.120 N	1.220 W	3			7	PYRENEES. <STR>. ML 2.3 (STR).
03	10	15	44.1&	36.969 N	3.796 W	0 G			5	STRAIT OF GIBRALTAR. <MDD>. mbLg 1.8 (MDD).
03	10	24	59.0&	65.015 N	154.238 W	7	5.4 5.2		400	NORTHERN ALASKA. <AEIC>. Mw 5.7 (GS), 5.6 (HRV). ML 5.7 (AEIC), 6.1 (PMR). Felt at Manley Hot Springs and Tanana. Also felt (III) at Fairbanks and Nenana. Moment Tensor (GS): Dep 14; Principal axes (scale 10**17 Nm): (T) Val=3.68, Plg=8, Azm=207; (N) Val=-0.17, Plg=81, Azm=48; (P) Val=-3.52, Plg=3, Azm=297; Best double couple: Mo=3.6*10**17 Nm; NP1: Strike=342, Dip=82, Slip=4; NP2: Strike=251, Dip=86, Slip=172. Centroid, Moment Tensor (HRV): Centroid origin time 10:25:01.8; Lat 65.03 N; Lon 154.76 W; Dep 15.0 Fix; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=3.10, Plg=26, Azm=216; (N) Val=0.38, Plg=57, Azm=354; (P) Val=-3.48, Plg=19, Azm=116; Best double couple: Mo=3.3*10**17 Nm; NP1: Strike=254, Dip=57, Slip=175; NP2: Strike=347, Dip=86, Slip=33.
03	11	00	43.0&	63.176 N	149.083 W	63			34	CENTRAL ALASKA. <AEIC>. ML 2.7 (AEIC).
03	11	11	23.8&	19.174 N	66.522 W	10			10	PUERTO RICO REGION. <RSFR>. MD 3.6 (RSFR).
03	11	21	52.4&	19.093 N	66.446 W	49			8	PUERTO RICO REGION. <RSFR>. MD 3.0 (RSFR).
03	11	23	31.4&	19.139 N	66.512 W	15			8	PUERTO RICO REGION. <RSFR>. MD 3.2 (RSFR).
03	11	27	42.4&	38.384 N	26.758 E	15			5	AEGEAN SEA. <ISK>. MD 3.3 (ISK).
03	11	32	01.1*	19.848 S	68.533 W	153 *		0.4	9	CHILE-BOLIVIA BORDER REGION
03	11	46	29.4*	20.989 N	120.099 E	33 N	4.0	1.3	13	PHILIPPINE ISLANDS REGION
03	12	15	00.8&	45.420 N	15.880 E	24			10	NORTHWESTERN BALKAN REGION. <ZAG>. ML 2.7 (VIE), 2.3 (ZAG), 2.0 (LJU).
03	12	41	58.7&	30.600 S	71.439 W	39			9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.1 (GUC).
03	12	49	57.8&	63.414 N	149.809 W	105			30	CENTRAL ALASKA. <AEIC>.
03	13	20	18.9*	0.963 S	137.081 E	33 N	4.6	1.0	17	IRIAN JAYA REGION, INDONESIA
03	13	37	29.0&	32.702 S	71.762 W	16			8	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
03	13	42	25.0	13.572 N	121.546 E	33 N	5.3 5.0	1.0	85	MINDORO, PHILIPPINES. Mw 5.5 (HRV). Felt at Manila and in other parts of Luzon. Centroid, Moment Tensor (HRV): Centroid origin time 13:42:24.8; Lat 13.72 N; Lon 121.70 E; Dep 26.6; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=1.87, Plg=12, Azm=318; (N) Val=-0.15, Plg=9, Azm=226; (P) Val=-1.72, Plg=75, Azm=99; Best double couple: Mo=1.8*10**17 Nm; NP1: Strike=60, Dip=34, Slip=-74; NP2: Strike=220, Dip=57, Slip=-101.
03	14	18	28.3*	45.762 N	15.612 E	10 G		1.4	5	NORTHWESTERN BALKAN REGION. ML 2.1 (VIE).
03	15	53	12.9	75.271 N	10.195 E	10 G	5.5 5.0	0.8	413	SVALBARD REGION. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 15:53:16.7; Lat 75.16 N; Lon 9.45 E; Dep 16.4; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=1.83, Plg=55, Azm=198; (N) Val=-0.24, Plg=32, Azm=348; (P) Val=-1.59, Plg=14, Azm=87; Best double couple: Mo=1.7*10**17 Nm; NP1: Strike=212, Dip=41, Slip=142; NP2: Strike=332, Dip=66, Slip=55.
03	16	21	52.4*	63.944 N	153.021 W	10 G		1.2	7	CENTRAL ALASKA. ML 2.9 (PMR).
03	16	33	41.3	44.778 N	10.732 E	10 G		1.2	70	NORTHERN ITALY. ML 3.7 (LDG), 3.7 (STR), 3.6 (ZAG), 3.5 (GEN), 3.4 (VIE), 3.0 (TRI).
03	17	31	35.8*	56.953 S	27.104 W	139 ?	4.5	0.6	18	SOUTH SANDWICH ISLANDS REGION
03	18	22	36.2	13.553 N	121.479 E	33 N	4.6	1.4	25	MINDORO, PHILIPPINES
03	18	29	45.6	28.125 N	111.435 W	10 G		1.1	9	GULF OF CALIFORNIA
03	18	30	06.2*	13.523 N	121.416 E	33 N	4.7	1.4	28	MINDORO, PHILIPPINES
03	18	48	09.8	22.754 N	121.213 E	33 N	4.4	1.2	25	TAIWAN REGION. Felt in much of Taiwan. Recorded (5 TAP) at Tai-tung, (2 TAP) at Cheng-kung and (1 TAP) at Kao-hsiung.
03	18	57	51.0*	22.697 N	121.677 E	33 N	3.5	1.3	7	TAIWAN REGION
03	19	55	42.1	11.171 N	140.142 E	33 N	4.7 4.0	0.8	23	W. CAROLINE ISLANDS, MICRONESIA
03	20	26	47.5&	48.049 N	3.736 W	13 G			5	FRANCE. <LDG>. ML 1.9 (LDG).
03	20	32	49.1*	11.209 N	140.281 E	33 N	4.6	0.9	13	W. CAROLINE ISLANDS, MICRONESIA
03	20	36	20.4*	11.271 N	140.203 E	33 N	4.5	0.9	15	W. CAROLINE ISLANDS, MICRONESIA
03	21	00	44.0&	10.436 N	60.814 W	48			5	TRINIDAD. <TRN>. MD 2.7 (TRN).
03	21	02	07.5&	38.405 N	0.829 W	11			19	SPAIN. <MDD>. mbLg 2.9 (MDD). Felt (III) at Aspe, Crevillente, Hondon de las Nieves, La Romana and Novelda.
03	21	43	48.0*	51.082 N	15.832 E	10 G		0.9	6	POLAND. ML 3.2 (VIE).
03	22	15	49.3&	43.397 N	6.312 W	0 G			5	SPAIN. <MDD>. mbLg 2.1 (MDD).
03	23	57	51.7	31.182 S	68.904 W	100 G		0.9	21	SAN JUAN PROVINCE, ARGENTINA. MD 3.7 (GUC).
04	00	17	10.4*	27.919 S	176.546 W	37 D	4.9	1.0	26	KERMADEC ISLANDS REGION
04	00	30	21.4&	19.479 N	68.049 W	16			8	NORTH ATLANTIC OCEAN. <RSFR>. MD 3.7 (RSFR).
04	00	54	39.0&	43.920 N	110.160 W	0			14	WYOMING. <USBR>. MD 3.0 (USBR).
04	01	00	18.6*	11.182 N	140.212 E	33 N	4.5	1.1	19	W. CAROLINE ISLANDS, MICRONESIA
04	01	36	26.8*	39.092 N	99.417 W	5 G		0.7	5	KANSAS. mbLg 2.8 (GS). Felt at Palco and in northern Ellis County.
04	01	37	42.2&	36.550 N	9.758 W	5			9	WEST OF GIBRALTAR. <MDD>. ML 2.1 (MDD).
04	01	38	33.4*	36.495 N	70.855 E	192 *	3.9	1.1	13	HINDU KUSH REGION, AFGHANISTAN
04	01	54	27.5	50.159 N	178.797 W	33 N	4.6	0.9	39	ANDREANOF ISLANDS, ALEUTIAN IS.
04	02	56	48.9*	20.883 S	178.859 W	584 ?	4.4	0.8	22	FIJI ISLANDS REGION
04	03	11	43.6*	31.327 S	117.438 E	10 G		0.3	5	WESTERN AUSTRALIA
04	06	25	38.6&	44.342 N	7.297 E	15			4	NORTHERN ITALY. <GEN>. ML 1.5 (GEN).
04	07	02	11.3?	40.63 S	85.92 W	10 G	4.6 4.8	1.4	15	WEST CHILE RISE. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 07:02:11.5; Lat 41.38 S; Lon 86.56 W; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.15, Plg=18, Azm=37; (N) Val=-0.08, Plg=67, Azm=258; (P) Val=-1.07, Plg=14, Azm=132; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=175, Dip=67, Slip=3; NP2: Strike=84, Dip=87, Slip=157.
04	07	23	52.7*	4.208 S	152.536 E	72 *	4.7	1.3	21	NEW BRITAIN REGION, P.N.G.
04	07	35	18.2&	58.691 N	153.001 W	63	3.0		27	KODIAK ISLAND REGION, ALASKA. <AEIC>. ML 2.8 (AEIC).

04	07	36	05.4*	51.158 N	169.305 W	33 N	3.8	1.2	21	FOX ISLANDS, ALEUTIAN ISLANDS
04	07	50	11.7&	62.219 N	151.010 W	76			47	CENTRAL ALASKA. <AEIC>.
04	07	52	27.6	53.674 N	156.410 E	330 D	4.7	0.7	144	KAMCHATKA PENINSULA, RUSSIA
04	08	59	24.6?	33.36 N	141.16 E	33 N		1.3	5	OFF EAST COAST OF HONSHU, JAPAN
04	10	00	00.3*	38.891 S	177.219 E	10 G		1.3	15	NORTH ISLAND, NEW ZEALAND
04	10	29	03.5*	14.673 N	93.959 W	27 D	4.4	1.3	32	NEAR COAST OF CHIAPAS, MEXICO. MD 4.7 (UNM).
04	11	04	03.9	49.201 N	155.522 E	57 D	4.5	1.0	27	KURIL ISLANDS
04	11	04	56.8&	45.250 N	5.524 E	2			5	FRANCE. <LDG>. MD 2.6 (LDG).
04	11	16	23.6?	34.09 N	91.51 E	33 N	3.5	1.0	5	QINGHAI, CHINA
04	12	10	52.2*	59.496 S	25.858 W	33 N	4.4	0.8	16	SOUTH SANDWICH ISLANDS REGION
04	12	28	36.8	19.594 N	120.252 E	33 N	4.1	0.6	14	PHILIPPINE ISLANDS REGION
04	13	25	36.6?	45.74 N	141.84 E	306 *	3.3	0.7	6	HOKKAIDO, JAPAN REGION
04	14	03	23.4&	57.301 N	154.271 W	10			42	KODIAK ISLAND REGION, ALASKA. <AEIC>. ML 3.4 (AEIC), 4.0 (PMR).
04	15	10	41.5*	12.142 N	93.635 E	134 ?	4.2	1.1	15	ANDAMAN ISLANDS, INDIA REGION
04	15	41	53.0*	14.312 N	92.360 W	92 D	4.7	1.2	56	NEAR COAST OF CHIAPAS, MEXICO. MD 4.8 (UNM).
04	16	14	25.1?	28.16 N	143.23 E	33 N	3.5	1.4	6	BONIN ISLANDS, JAPAN REGION
04	16	18	20.7&	34.103 N	116.932 W	8			9	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.7 (PAS).
04	16	27	06.7?	29.56 S	177.82 W	33 N	4.8	1.6	14	KERMADEC ISLANDS, NEW ZEALAND
04	17	20	44.0	13.546 S	76.233 W	47 D	4.7	0.7	48	NEAR COAST OF PERU. Felt (IV) at Chincha Alta and Pisco; (III) at Ica and San Vicente de Canete; (II) at Chilca.
04	18	43	08.1*	20.742 S	68.823 W	143 *	4.2	0.4	8	CHILE-BOLIVIA BORDER REGION
04	18	45	56.7&	42.870 N	0.220 E	10 G			5	PYRENEES. <STR>. ML 2.1 (STR).
04	20	06	08.5&	46.721 N	0.037 E	2			15	FRANCE. <LDG>. MD 2.4 (LDG).
04	20	16	32.1&	35.339 S	71.574 W	91			8	CENTRAL CHILE. <GUC>.
04	22	06	01.6*	10.222 N	125.440 E	211 *	3.6	1.3	11	LEYTE, PHILIPPINES
04	23	04	54.7*	12.313 N	95.168 E	33 N	4.7	0.5	10	ANDAMAN ISLANDS, INDIA REGION
04	23	17	39.0&	17.856 N	67.042 W	29			10	MONA PASSAGE. <RSR>. MD 3.2 (RSR).
04	23	27	35.3*	36.292 N	71.200 E	103 *	4.0	1.2	16	AFGHANISTAN-TAJIKISTAN BORD REG.
05	01	49	29.0*	2.897 S	147.620 E	33 N	4.5	0.9	18	ADMIRALTY ISLANDS REGION, P.N.G.
05	02	02	30.0*	3.015 S	147.883 E	33 N	4.0	0.6	7	BISMARCK SEA
05	02	14	55.4&	10.043 N	126.291 E	33 N		0.4	6	PHILIPPINE ISLANDS REGION
05	02	36	35.7*	11.423 S	165.417 E	33 N	4.5	1.1	17	SANTA CRUZ ISLANDS
05	02	40	40.2*	7.400 N	127.172 E	33 N		1.2	12	PHILIPPINE ISLANDS REGION
05	02	54	57.0&	46.149 N	6.895 E	2			9	SWITZERLAND. <LDG>. ML 2.1 (LDG).
05	03	18	14.7&	40.420 S	175.600 E	52			12	NORTH ISLAND, NEW ZEALAND. <WEL>.
05	04	21	31.0*	6.334 S	148.128 E	33 N	4.2	0.7	9	NEW BRITAIN REGION, P.N.G.
05	04	24	22.7	47.159 N	152.362 E	137 D	4.7	0.9	137	KURIL ISLANDS
05	04	51	08.2*	3.078 S	148.009 E	33 N	4.4 4.4	1.1	17	BISMARCK SEA
05	05	03	43.8&	19.264 N	77.954 W	15			5	CUBA REGION. <JSN>. MD 3.1 (JSN).
05	05	04	32.3&	62.869 N	150.591 W	91			7	CENTRAL ALASKA. <AEIC>.
05	05	24	16.0?	42.85 N	146.94 E	33 N	4.2	1.2	12	OFF COAST OF HOKKAIDO, JAPAN
05	06	09	10.5&	40.450 S	176.730 E	12			4	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 2.8 (WEL).
05	06	27	49.2&	37.840 S	177.180 E	124			14	OFF E. COAST OF N. ISLAND, N.Z. <WEL>.
05	07	13	50.0&	57.743 N	153.251 W	54			49	KODIAK ISLAND REGION, ALASKA. <AEIC>. ML 2.8 (AEIC).
05	07	40	33.4*	24.382 N	126.961 E	33 N	4.1	1.2	11	RYUKYU ISLANDS, JAPAN
05	07	51	41.9&	16.885 N	99.887 W	36			11	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.9 (UNM).
05	08	13	26.2&	43.983 N	7.445 E	13 G			20	NEAR SOUTH COAST OF FRANCE. <LDG>. MD 2.2 (LDG). ML 2.1 (STR), 2.0 (GEN).
05	08	18	31.7&	33.895 S	70.457 W	13			6	CHILE-ARGENTINA BORDER REGION. <GUC>.
05	08	22	42.3&	59.961 N	152.747 W	124			66	SOUTHERN ALASKA. <AEIC>.
05	08	30	11.1&	34.019 S	70.978 W	72			15	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.8 (GUC). Felt (III) at Curacavi, Melipilla, San Antonio and Santiago, Chile.
05	08	49	05.8	19.526 N	144.706 E	455 *	4.1	0.9	40	MARIANA ISLANDS
05	09	15	35.1&	28.709 S	67.537 W	148 ?		0.4	6	LA RIOJA PROVINCE, ARGENTINA
05	11	28	28.8&	45.350 S	167.480 E	116			6	SOUTH ISLAND, NEW ZEALAND. <WEL>.
05	11	48	25.4&	18.404 N	77.454 W	10			6	JAMAICA REGION. <JSN>. MD 2.5 (JSN).
05	12	41	24.4&	47.299 N	2.174 W	15			7	FRANCE. <LDG>. ML 1.8 (LDG).
05	12	53	55.8&	62.196 N	151.156 W	84			10	CENTRAL ALASKA. <AEIC>.
05	13	05	58.5?	10.05 N	125.67 E	112 *		1.0	7	LEYTE, PHILIPPINES
05	13	32	51.6&	40.366 N	124.240 W	29			5	NEAR COAST OF NORTHERN CALIF. <NC-P>. MD 2.8 (NC).
05	14	25	27.4&	17.960 N	68.329 W	62			6	MONA PASSAGE. <RSR>. MD 3.2 (RSR).
05	14	44	28.7&	37.647 N	6.236 W	16			6	SPAIN. <MDD>. mbLg 2.2 (MDD).
05	14	56	47.0*	5.627 S	131.149 E	72 *	4.1	0.9	8	BANDA SEA
05	15	49	32.5	9.984 S	118.980 E	33 N		1.1	13	SUMBAWA REGION, INDONESIA
05	17	27	23.5&	44.355 N	7.300 E	14			5	NORTHERN ITALY. <GEN>. ML 1.6 (GEN).
05	17	39	49.5&	15.412 N	60.918 W	160	3.9		33	LEEWARD ISLANDS. <TRN>. MD 4.0 (TRN).
05	19	43	49.5*	36.676 N	139.355 E	33 N	4.2	1.2	22	EASTERN HONSHU, JAPAN. Recorded (4 JMA) in the epicentral area.
05	21	06	48.1&	38.792 N	1.529 W	0 G			7	SPAIN. <MDD>. mbLg 1.8 (MDD).
05	21	41	54.1&	18.720 N	66.507 W	74			10	PUERTO RICO REGION. <RSR>. MD 2.8 (RSR).
05	21	51	50.9*	21.583 S	169.665 E	33 N	4.3	0.9	23	SOUTHEAST OF LOYALTY ISLANDS
05	21	52	03.0	6.761 N	72.927 W	160 D	4.8	0.9	221	NORTHERN COLOMBIA. Felt in the epicentral area.
05	22	05	19.1*	14.896 S	167.271 E	115 D	4.8	0.9	84	VANUATU ISLANDS
05	22	30	40.0	24.797 S	179.729 E	450 G	4.3	0.9	42	SOUTH OF FIJI ISLANDS
05	22	39	31.1*	43.154 N	146.557 E	99 *	3.7	1.2	18	KURIL ISLANDS
05	22	58	13.9&	13.620 N	121.428 E	33 N		1.3	5	MINDORO, PHILIPPINES
06	00	19	13.9&	34.414 N	116.170 W	6			10	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
06	00	33	12.0*	2.740 N	144.937 E	10 G	4.3	1.1	14	NINIGO ISLANDS REGION, P.N.G.
06	00	47	00.0	51.577 N	16.134 E	5 G		1.2	18	POLAND. ML 3.6 (GRF), 3.5 (VIE).
06	02	08	07.1	1.295 N	126.272 E	33 N	5.4 4.9	1.1	132	NORTHERN MOLUCCA SEA. Mw 5.5 (HRV), 5.4 (GS). Felt (III) on Ternate, Indonesia.

Moment Tensor (GS): Dep 20; Principal axes (scale 10**17 Nm): (T) Val=1.15, Plg=48, Azm=48; (N) Val=0.02, Plg=39, Azm=200; (P) Val=-1.18, Plg=14, Azm=301; Best double couple: Mo=1.2*10**17 Nm; NP1: Strike=71, Dip=46, Slip=151; NP2: Strike=182, Dip=70, Slip=48.

Centroid, Moment Tensor (HRV): Centroid origin time 02:08:14.1; Lat 1.52 N; Lon 126.38 E; Dep 37.2; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.70, Plg=73, Azm=78; (N) Val=0.10, Plg=7, Azm=191; (P) Val=-1.80, Plg=16, Azm=283; Best double couple:

Mo=1.8*10**17 Nm; NP1: Strike=23, Dip=30, Slip=104; NP2: Strike=187, Dip=61, Slip=82.

06 02 37 25.9& 9.917 N 60.177 W 78 7 NEAR COAST OF VENEZUELA. <TRN>. MD 3.5 (TRN).

06 02 52 43.2 18.047 S 175.554 W 261 D 4.7 0.9 74 TONGA ISLANDS

06 02 55 04.0* 7.513 S 120.212 E 386 * 4.4 0.5 11 FLORES SEA

06 02 58 39.1& 10.978 N 61.141 W 26 6 TRINIDAD. <TRN>. MD 3.0 (TRN).

06 03 52 18.2? 17.05 S 69.69 W 178 ? 3.6 0.2 5 PERU-BOLIVIA BORDER REGION

06 04 02 52.6 45.648 N 151.440 E 55 * 4.0 0.9 26 KURIL ISLANDS

06 04 21 51.4 40.640 N 78.855 E 33 N 4.3 1.0 33 SOUTHERN XINJIANG, CHINA

06 04 32 18.6? 13.56 N 88.32 W 250 G 3.9 1.2 20 EL SALVADOR

06 04 55 16.8* 42.323 N 143.028 E 73 * 4.2 1.1 14 HOKKAIDO, JAPAN REGION. Recorded (1 JMA) in the epicentral area.

06 05 02 13.2* 44.309 S 81.717 W 10 G 4.7 4.7 1.1 27 WEST CHILE RISE

06 05 41 28.9* 20.537 S 177.892 W 400 G 4.1 1.1 26 FIJI ISLANDS REGION

06 05 44 03.3* 0.726 N 30.242 W 10 G 4.5 1.3 26 CENTRAL MID-ATLANTIC RIDGE

06 07 12 38.4 4.257 S 80.361 W 75 D 4.8 0.8 105 PERU-ECUADOR BORDER REGION. Felt (III) at Chulucanas and (II) at Piura and Sullana, Peru.

06 07 12 49.8 30.660 N 50.412 E 33 N 4.3 0.6 22 NORTHERN AND CENTRAL IRAN

06 07 28 53.1* 31.879 S 68.365 W 111 * 1.1 8 SAN JUAN PROVINCE, ARGENTINA

06 08 50 27.2* 35.146 S 110.771 W 10 G 4.5 0.9 13 SOUTHERN EAST PACIFIC RISE

06 09 22 40.8& 43.110 N 1.230 W 2 G 4 PYRENEES. <STR>. ML 2.1 (STR).

06 09 41 27.9* 33.450 N 137.342 E 366 * 3.9 1.2 12 NEAR S. COAST OF HONSHU, JAPAN

06 10 16 52.9& 32.676 N 116.094 W 11 5 CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.1 (PAS).

06 10 36 06.1* 25.248 S 76.195 E 10 G 4.6 0.5 13 SOUTH INDIAN OCEAN

06 10 42 09.2 63.603 N 150.776 W 10 G 0.8 13 CENTRAL ALASKA. ML 2.7 (AEIC).

06 10 43 09.3& 36.805 N 4.606 W 31 8 STRAIT OF GIBRALTAR. <MDD>. mbLg 2.4 (MDD).

06 11 33 13.0* 6.644 S 129.950 E 33 N 4.8 1.3 25 BANDA SEA

06 11 33 52.2 5.844 S 150.876 E 33 N 6.6 6.8 0.9 493 NEW BRITAIN REGION, P.N.G. Mw 6.6 (GS), 6.6 (HRV). Me 6.4 (GS). Felt strongly at Kimbe and Rabaul. Also felt at Port Moresby, New Guinea.

Broadband Source Parameters (GS): Dep 39; NP1: Strike=70, Dip=68, Slip=90; NP2: Strike=250, Dip=22, Slip=90; Radiated energy 7.8*10**13 Nm.

Moment Tensor (GS): Dep 36; Principal axes (scale 10**19 Nm): (T) Val=1.04, Plg=73, Azm=322; (N) Val=-0.13, Plg=3, Azm=62; (P) Val=-0.91, Plg=16, Azm=153; Best double couple: Mo=9.7*10**18 Nm; NP1: Strike=247, Dip=29, Slip=96; NP2: Strike=60, Dip=62, Slip=87.

Centroid, Moment Tensor (HRV): Centroid origin time 11:34:01.7; Lat 6.06 S; Lon 151.19 E; Dep 45.0 Bdy; Half-duration 5.4 sec; Principal axes (scale 10**18 Nm): (T) Val=9.42, Plg=67, Azm=340; (N) Val=0.02, Plg=4, Azm=241; (P) Val=-9.44, Plg=22, Azm=149; Best double couple: Mo=9.4*10**18 Nm; NP1: Strike=232, Dip=23, Slip=80; NP2: Strike=62, Dip=67, Slip=94.

06 12 51 27.3& 17.254 S 121.969 E 10 G 0.9 6 WESTERN AUSTRALIA. ML 3.2 (AUST).

06 13 16 16.2? 52.79 N 173.82 W 218 ? 4.1 1.0 8 ANDREANOF ISLANDS, ALEUTIAN IS.

06 13 40 40.6? 6.52 S 151.96 E 33 N 4.5 1.3 7 NEW BRITAIN REGION, P.N.G.

06 13 49 31.9& 37.001 N 3.733 W 4 13 SPAIN. <MDD>. mbLg 1.9 (MDD).

06 14 51 58.3? 22.98 N 142.67 E 150 G 3.4 0.9 10 VOLCANO ISLANDS, JAPAN REGION

06 15 07 09.5* 42.922 N 146.824 E 33 N 3.3 0.9 9 OFF COAST OF HOKKAIDO, JAPAN

06 15 31 29.0& 60.256 N 149.243 W 16 3.9 65 KENAI PENINSULA, ALASKA. <AEIC>. ML 3.9 (AEIC), 4.2 (PMR). Felt at Seward.

06 16 00 31.3 27.473 N 129.358 E 33 N 4.9 4.0 1.2 83 RYUKYU ISLANDS, JAPAN. Recorded (1 JMA) on Amami-O-shima and on Okinoerabu-jima.

06 18 17 44.2& 34.840 N 116.332 W 4 15 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).

06 18 25 37.4* 22.976 S 179.624 W 550 G 4.3 1.0 26 SOUTH OF FIJI ISLANDS

06 18 40 16.2* 23.675 N 121.192 E 33 N 1.4 9 TAIWAN

06 20 31 03.8* 8.643 S 118.633 E 77 ? 4.0 1.4 9 SUMBAWA REGION, INDONESIA

06 20 41 45.1& 59.280 N 152.591 W 69 30 SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).

06 21 15 09.2* 5.963 S 130.992 E 33 N 4.5 0.9 9 BANDA SEA

06 21 34 36.0& 17.991 N 65.553 W 4 9 PUERTO RICO REGION. <RSRP>. MD 3.1 (RSRP).

06 22 23 20.3& 40.930 S 174.950 E 33 N 11 COOK STRAIT, NEW ZEALAND. <WEL>. ML 3.5 (WEL).

06 22 29 43.8& 40.930 S 174.950 E 33 N 10 COOK STRAIT, NEW ZEALAND. <WEL>. ML 3.6 (WEL).

06 22 51 58.5 31.618 S 68.667 W 117 D 4.0 0.8 33 SAN JUAN PROVINCE, ARGENTINA

06 23 24 18.8? 23.33 N 121.79 E 33 N 4.1 1.1 12 TAIWAN

06 23 26 19.4* 3.061 S 129.914 E 33 N 4.6 0.9 11 SERAM, INDONESIA

06 23 50 13.3& 38.479 N 1.760 W 0 G 5 SPAIN. <MDD>. mbLg 2.2 (MDD).

07 00 12 52.1& 42.450 S 173.750 E 33 N 7 SOUTH ISLAND, NEW ZEALAND. <WEL>. ML 3.6 (WEL).

07 00 13 45.7& 17.922 N 78.088 W 5 4.4 40 JAMAICA REGION. <JSN>. MD 3.8 (JSN). Felt (IV) on Jamaica.

07 00 16 39.6* 32.562 N 48.751 E 33 N 4.2 0.9 11 WESTERN IRAN

07 00 39 51.1& 17.940 N 78.089 W 5 5 JAMAICA REGION. <JSN>. MD 2.6 (JSN).

07 00 43 33.9* 3.080 S 129.965 E 33 N 4.1 0.8 9 SERAM, INDONESIA

07 00 47 48.3& 34.845 N 116.327 W 3 13 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).

07 00 50 20.6* 15.097 N 54.300 E 33 N 4.4 1.3 10 OWEN FRACTURE ZONE REGION

07 01 30 36.5 38.203 N 21.325 E 52 * 4.0 1.0 43 GREECE

07 02 06 01.5* 51.218 N 15.837 E 5 G 0.9 8 POLAND. ML 3.2 (VIE).

07 02 20 48.9& 45.574 N 0.756 E 2 4 FRANCE. <LDG>. ML 1.9 (LDG).

07 02 37 37.7& 34.366 N 116.133 W 6 10 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).

07 04 17 53.2 64.706 N 149.205 W 10 G 1.0 13 CENTRAL ALASKA. ML 4.1 (PMR). Double event. Felt strongly at Nenana.

07 05 39 21.7& 35.744 N 118.007 W 8 10 CENTRAL CALIFORNIA. <PAS-P>. ML 2.7 (PAS).

07 06 06 40.9& 8.769 N 78.291 W 38 4 PANAMA. <UPA>. MD 3.6 (UPA).

07 06 34 49.6 43.368 N 147.433 E 62 D 5.2 0.7 243 KURIL ISLANDS. Mw 5.2 (HRV). Felt (II) at Yuzhno-Kurilsk.

Centroid, Moment Tensor (HRV): Centroid origin time 06:34:49.2; Lat 42.98 N; Lon 148.02 E; Dep 98.6; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.03, Plg=52, Azm=81; (N) Val=0.17, Plg=24, Azm=204; (P) Val=-6.21, Plg=28, Azm=308; Best double couple: Mo=6.1*10**16 Nm; NP1: Strike=83, Dip=27, Slip=151; NP2: Strike=199, Dip=77, Slip=66.

07 08 31 28.1* 2.704 S 138.945 E 33 N 1.3 9 IRIAN JAYA, INDONESIA

07 08 53 09.9 25.259 S 179.689 E 539 4.4 0.9 46 SOUTH OF FIJI ISLANDS

07	09	47	24.7	18.736	N	98.676	W	4				9	CENTRAL MEXICO. <UNM>. MD 3.2 (UNM).
07	11	54	31.5	24.481	S	68.224	W	124	*	4.3	0.9	28	CHILE-ARGENTINA BORDER REGION
07	12	13	37.9	47.759	N	147.632	E	407	*	3.7	1.0	19	NORTHWEST OF KURIL ISLANDS
07	12	27	15.7	37.586	N	142.000	E	33	N	4.3	1.0	32	OFF EAST COAST OF HONSHU, JAPAN
07	12	35	48.3	10.301	S	161.445	E	33	N	4.2	1.0	14	SOLOMON ISLANDS
07	12	40	01.0	13.034	N	145.021	E	71	*	3.3	1.0	10	MARIANA ISLANDS
07	12	40	42.5	6.335	S	151.276	E	33	N	4.1	1.1	10	NEW BRITAIN REGION, P.N.G.
07	12	47	48.4	5.998	S	151.657	E	33	N	3.9	0.8	8	NEW BRITAIN REGION, P.N.G.
07	13	10	19.5	45.171	N	5.487	E	2				16	FRANCE. <LDG>. ML 2.5 (STR), 2.3 (LDG).
07	14	38	18.3	17.204	S	121.783	E	10	G		1.3	8	WESTERN AUSTRALIA. ML 3.2 (AUST).
07	15	32	47.0	40.880	S	175.930	E	43				10	NORTH ISLAND, NEW ZEALAND. <WEL>.
07	16	28	19.7	45.048	N	9.251	E	5				23	NORTHERN ITALY. <GEN>. ML 2.8 (GEN), 2.5 (LDG).
07	16	41	04.5	31.037	N	141.694	E	33	N	5.2 5.0	0.9	172	SOUTHEAST OF HONSHU, JAPAN. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 16:41:08.3; Lat 31.08 N; Lon 141.88 E; Dep 20.0 Bdy; Half- duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.65, Plg=52, Azm=213; (N) Val=-0.37, Plg=25, Azm=340; (P) Val=-1.27, Plg=26, Azm=83; Best double couple: Mo=1.5*10**17 Nm; NP1: Strike=216, Dip=29, Slip=150; NP2: Strike=333, Dip=76, Slip=64.
07	17	24	54.3	40.601	N	106.666	W	5	G		0.6	9	COLORADO. ML 3.0 (GS). Felt in the Steamboat Springs area.
07	17	50	43.5	44.191	N	128.644	W	10	G	4.1	1.1	86	OFF COAST OF OREGON
07	19	13	54.8	44.230	N	128.535	W	10	G	4.3	0.9	38	OFF COAST OF OREGON
07	19	20	45.6	39.989	N	34.176	E	10	G		0.8	6	TURKEY
07	19	34	57.0	26.288	S	30.888	E	5	G	4.5	0.9	21	SOUTH AFRICA. One person injured, moderate damage and landslides in the Mbabane-Manzini area, Swaziland. Also felt at Paulpietersburg.
07	19	42	50.1	34.279	N	31.533	E	33	N	4.4	0.7	15	CYPRUS REGION
07	20	11	49.0	39.898	N	34.019	E	33	N	4.6	0.9	10	TURKEY
07	20	53	22.3	9.811	S	149.965	E	33	N	4.6	0.8	15	EASTERN NEW GUINEA REG., P.N.G.
07	20	54	18.5	38.079	N	118.801	W	10	G		0.8	11	CALIFORNIA-NEVADA BORDER REGION. ML 2.9 (GS).
07	21	05	04.7	44.184	N	7.120	E	10				8	NORTHERN ITALY. <GEN>. ML 2.0 (GEN).
07	21	19	25.2	44.174	N	7.120	E	9				20	NORTHERN ITALY. <GEN>. ML 2.1 (GEN), 1.9 (LDG), 1.9 (STR).
07	22	32	54.2	50.143	N	18.969	E	5	G		1.4	7	POLAND. MG 2.6 (WAR).
07	22	52	04.4	40.855	N	116.404	W	10	G		0.7	24	NEVADA. ML 3.2 (GS).
07	23	13	51.4	38.639	N	1.682	W	15				12	SPAIN. <MDD>. mbLg 2.3 (MDD).
07	23	21	46.6	52.66	N	174.56	W	204	*	3.3	0.6	7	ANDREANOF ISLANDS, ALEUTIAN IS.
07	23	25	44.8	63.155	N	150.852	W	149				42	CENTRAL ALASKA. <AEIC>.
08	00	04	38.5	37.189	N	3.766	W	0	G			7	SPAIN. <MDD>. mbLg 1.7 (MDD).
08	00	20	19.1	48.010	N	2.660	W	10	G			6	FRANCE. <LDG>. ML 2.0 (LDG).
08	00	42	27.2	22.066	S	175.078	W	33	N	4.8	1.0	25	TONGA ISLANDS REGION
08	01	28	16.8	17.35	S	179.15	W	500	G	4.1	0.9	17	FIJI ISLANDS REGION
08	01	28	46.2	44.321	N	128.837	W	10	G	3.5	1.3	13	OFF COAST OF OREGON
08	02	57	14.0	43.724	N	7.666	E	2				23	NEAR SOUTH COAST OF FRANCE. <GEN>. ML 2.2 (GEN), 2.0 (LDG) 1.9 (STR).
08	04	26	32.1	23.937	S	128.571	E	10	G		1.4	8	WESTERN AUSTRALIA. ML 3.1 (AUST).
08	04	52	30.1	8.789	S	118.395	E	33	N	3.4	1.3	9	SUMBAWA REGION, INDONESIA
08	06	04	09.1	15.569	N	120.101	E	84	*	3.8	0.8	9	LUZON, PHILIPPINES
08	06	22	23.9	31.024	N	132.110	E	10	G	3.8	1.3	10	SOUTHEAST OF SHIKOKU, JAPAN
08	06	57	28.4	47.486	N	152.542	E	117	*	4.0	0.6	17	KURIL ISLANDS
08	06	59	01.4	59.975	S	27.824	W	114	?	4.3	0.5	19	SOUTH SANDWICH ISLANDS REGION
08	07	01	45.7	18.069	N	65.886	W	1				5	PUERTO RICO REGION. <RSR>. MD 3.0 (RSR).
08	07	09	14.2	4.290	S	80.381	W	74	D	4.7	0.7	10	PERU-ECUADOR BORDER REGION
08	07	51	55.5	51.910	N	105.330	E	10				7	LAKE BAYKAL REGION, RUSSIA. <OBN>.
08	09	19	39.9	63.242	N	147.506	W	60				41	CENTRAL ALASKA. <AEIC>. ML 3.1 (AEIC), 3.4 (PMR).
08	09	38	49.9	13.34	S	166.26	E	33	N	4.2	1.5	8	VANUATU ISLANDS
08	09	46	12.3	39.410	S	175.620	E	81				15	NORTH ISLAND, NEW ZEALAND. <WEL>.
08	10	09	52.3	46.416	N	10.363	E	10	G		1.1	11	NORTHERN ITALY. ML 2.0 (VIE).
08	10	23	19.2	39.990	S	175.440	E	5				12	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.4 (WEL).
08	11	40	27.3	45.576	N	151.838	E	50	D	4.6	1.0	45	KURIL ISLANDS
08	11	44	01.5	46.251	N	15.125	E	10	G		0.7	11	NORTHWESTERN BALKAN REGION. ML 2.6 (VIE), 2.0 (LJU), 2.0 (TRI). Felt (IV) at Polzela, Sempeter and Zalec, Slovenia.
08	12	50	20.3	10.940	N	61.439	W	49				5	TRINIDAD. <TRN>. MD 2.4 (TRN).
08	13	20	53.3	44.383	N	149.228	E	33	N	4.0	1.1	21	KURIL ISLANDS
08	13	30	21.9	26.476	S	27.402	E	5	G	4.5	1.2	32	SOUTH AFRICA
08	13	37	05.6	13.435	S	122.265	E	33	N	4.2	1.4	16	NORTHWEST OF AUSTRALIA. ML 4.1 (AUST).
08	14	18	00.4	60.062	N	153.151	W	131				51	SOUTHERN ALASKA. <AEIC>.
08	14	24	23.1	6.539	N	72.225	W	122	*	3.8	1.2	17	NORTHERN COLOMBIA
08	14	27	27.0	38.140	S	179.780	E	12				7	OFF E. COAST OF N. ISLAND, N.Z. <WEL>. ML 4.0 (WEL).
08	14	49	15.3	15.544	N	61.089	W	33	N		0.9	12	LEEWARD ISLANDS. MD 2.8 (PDF).
08	14	54	07.2	62.255	N	150.862	W	74				10	CENTRAL ALASKA. <AEIC>.
08	16	10	55.9	5.876	S	145.859	E	119	*	3.7	0.6	8	EASTERN NEW GUINEA REG., P.N.G.
08	17	30	15.4	9.589	S	112.900	E	56	*	4.5	1.2	27	SOUTH OF JAWA, INDONESIA
08	18	01	27.1	21.936	S	170.068	E	33	N	5.1 5.1	1.0	53	SOUTHEAST OF LOYALTY ISLANDS. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 18:01:33.7; Lat 22.03 S; Lon 169.76 E; Dep 29.0; Half- duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.36, Plg=74, Azm=38; (N) Val=0.03, Plg=4, Azm=142; (P) Val=-1.39, Plg=15, Azm=233; Best double couple: Mo=1.4*10**17 Nm; NP1: Strike=329, Dip=30, Slip=98; NP2: Strike=140, Dip=60, Slip=86.
08	18	20	04.5	29.385	S	69.483	W	121		4.5	1.2	54	CHILE-ARGENTINA BORDER REGION
08	19	20	05.8	33.666	S	70.722	W	79				11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).
08	19	22	04.9	44.785	N	7.216	E	5				6	NORTHERN ITALY. <GEN>. ML 1.7 (GEN).
08	19	47	11.0	59.777	N	152.023	W	67				38	SOUTHERN ALASKA. <AEIC>. ML 3.0 (AEIC).
08	20	34	35.2	11.649	S	118.907	E	33	N	4.8	1.2	7	SOUTH OF SUMBAWA, INDONESIA
08	20	58	37.4	51.537	N	176.259	W	59	D	4.8	1.1	121	ANDREANOF ISLANDS, ALEUTIAN IS. Felt strongly on Adak.
08	21	29	04.1	40.560	S	174.240	E	63				13	COOK STRAIT, NEW ZEALAND. <WEL>.
08	22	24	45.5	17.485	N	101.188	W	16				8	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.0 (UNM).
08	23	21	28.6	37.667	N	3.787	W	10				11	SPAIN. <MDD>. mbLg 2.2 (MDD).
08	23	26	23.0	16.464	N	98.776	W	8				8	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.0 (UNM).
08	23	27	06.7	47.836	N	128.553	W	10	G	4.0	1.1	78	OFF COAST OF WASHINGTON. ML 4.1 (PGC).
08	23	44	17.7	29.012	N	66.815	E	33	N	3.8	1.3	13	PAKISTAN

10	06	20	32.9&	31.815 N	116.172 W	15				5	BAJA CALIFORNIA, MEXICO. <ECK>. MD 3.1 (ECK). ML 3.0 (PAS).
10	06	42	53.9&	34.109 N	117.009 W	5				11	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
10	06	43	34.7&	33.902 S	70.882 W	76				7	CHILE-ARGENTINA BORDER REGION. <GUC>.
10	07	16	33.9&	33.584 S	71.967 W	13				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
10	07	18	09.7&	37.009 N	118.270 W	12				12	CALIFORNIA-NEVADA BORDER REGION. <NC-P>. MD 2.8 (NC).
10	07	20	55.0&	49.160 N	6.860 E	1 G				12	GERMANY. <FBB>. ML 2.7 (LDG), 2.1 (FBB). Mining induced event in the Lorraine region, France.
10	07	27	24.1&	60.964 N	151.079 W	22				27	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.6 (AEIC).
10	08	31	15.0&	34.796 N	116.286 W	5				13	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
10	09	21	32.2*	7.075 S	129.383 E	135 *	4.7	1.1		14	BANDA SEA
10	10	11	15.6*	6.589 S	153.155 E	33 N	4.7	1.0		23	NEW BRITAIN REGION, P.N.G.
10	10	21	30.1&	38.609 N	1.603 W	33				8	SPAIN. <MDD>. mbLg 2.1 (MDD).
10	11	12	14.8*	52.132 N	173.947 E	33 N	4.1	0.9		20	NEAR ISLANDS, ALEUTIAN ISLANDS
10	11	15	40.7&	39.280 S	173.650 E	12				7	OFF W. COAST OF N. ISLAND, N.Z. <WEL>. ML 3.4 (WEL).
10	11	27	36.1&	44.273 N	7.332 E	13				4	NORTHERN ITALY. <GEN>. ML 1.6 (GEN).
10	11	45	19.1&	37.710 S	176.960 E	232				15	NORTH ISLAND, NEW ZEALAND. <WEL>.
10	11	55	10.8*	44.202 N	128.635 W	10 G		1.2		9	OFF COAST OF OREGON
10	12	07	19.5*	22.087 S	169.980 E	33 N	4.5	1.0		22	SOUTHEAST OF LOYALTY ISLANDS
10	12	54	12.2&	49.413 N	7.137 E	1 G				8	GERMANY. <LDG>. ML 2.6 (LDG). Mining induced event in the Lorraine region, France.
10	13	06	02.1	2.940 N	128.562 E	236 D	5.2	1.0	114	HALMAHERA, INDONESIA. Mw 5.2 (HRV).	
											Centroid, Moment Tensor (HRV): Centroid origin time 13:06:03.7; Lat 3.05 N; Lon 128.41 E; Dep 214.2; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.67, Plg=46, Azm=96; (N) Val=-0.72, Plg=13, Azm=352; (P) Val=-5.95, Plg=41, Azm=250; Best double couple: Mo=6.3*10**16 Nm; NP1: Strike=273, Dip=13, Slip=11; NP2: Strike=173, Dip=87, Slip=103.
10	13	21	33.3*	6.356 S	130.145 E	142 *	4.4	0.6	11	BANDA SEA	
10	13	38	01.2&	63.414 N	151.232 W	0			11	CENTRAL ALASKA. <AEIC>. ML 2.4 (AEIC), 2.5 (PMR).	
10	14	18	41.2	27.585 S	65.728 E	10 G	5.4 5.2	0.9	118	INDIAN OCEAN TRIPLE JUNCTION. Mw 5.6 (HRV), 5.5 (GS). Moment Tensor (GS): Dep 7; Principal axes (scale 10**17 Nm): (T) Val=2.30, Plg=15, Azm=190; (N) Val=-0.63, Plg=27, Azm=92; (P) Val=-1.67, Plg=58, Azm=305; Best double couple: Mo=2.0*10**17 Nm; NP1: Strike=313, Dip=39, Slip=-43; NP2: Strike=78, Dip=65, Slip=-121.	
											Centroid, Moment Tensor (HRV): Centroid origin time 14:18:48.6; Lat 27.64 S Fix; Lon 65.43 E Fix; Dep 15.0 Fix; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.70, Plg=21, Azm=359; (N) Val=-0.46, Plg=13, Azm=94; (P) Val=-2.24, Plg=65, Azm=215; Best double couple: Mo=2.5*10**17 Nm; NP1: Strike=67, Dip=27, Slip=-120; NP2: Strike=280, Dip=67, Slip=-76.
10	14	44	24.8	7.378 N	78.186 W	33 N	4.3	0.7	18	PANAMA. MD 4.6 (UPA).	
10	14	57	00.9&	36.647 N	3.230 W	6			6	STRAIT OF GIBRALTAR. <MDD>. mbLg 1.9 (MDD).	
10	15	05	11.8	53.799 N	160.759 E	60	4.9	0.8	137	NEAR EAST COAST OF KAMCHATKA	
10	15	22	28.3&	10.846 N	62.380 W	73			6	NEAR COAST OF VENEZUELA. <TRN>. MD 3.1 (TRN).	
10	16	10	34.1&	44.281 N	7.323 E	13			9	NORTHERN ITALY. <GEN>. ML 2.1 (GEN).	
10	16	56	58.1*	50.898 N	179.338 W	33 N	3.9	1.0	14	ANDREANOF ISLANDS, ALEUTIAN IS.	
10	17	51	12.9&	17.169 N	94.832 W	71			8	CHIAPAS, MEXICO. <UNM>. MD 4.2 (UNM).	
10	19	08	12.2*	48.683 N	155.120 E	33 N	3.8	1.5	20	KURIL ISLANDS	
10	19	32	30.0&	49.150 N	6.870 E	1 G			19	GERMANY. <FBB>. ML 3.0 (LDG), 2.4 (FBB). Mining induced event in the Lorraine region, France.	
10	19	58	36.4*	53.158 N	164.194 W	33 N	3.2	0.8	6	UNIMAK ISLAND REGION, ALASKA	
10	20	10	36.6&	16.112 N	98.823 W	20			11	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.2 (UNM).	
10	21	00	03.2&	44.810 N	6.595 E	8			18	FRANCE. <GEN>. ML 2.2 (GEN), 2.0 (LDG).	
10	22	16	12.1&	34.405 S	70.627 W	110			11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.2 (GUC).	
10	22	39	02.3*	27.427 S	65.712 E	10 G	4.4	0.9	15	INDIAN OCEAN TRIPLE JUNCTION	
10	23	00	57.5	27.582 S	65.781 E	10 G	5.5 5.1	0.9	148	INDIAN OCEAN TRIPLE JUNCTION. Mw 5.3 (HRV), 5.2 (GS). Moment Tensor (GS): Dep 6; Principal axes (scale 10**16 Nm): (T) Val=7.05, Plg=30, Azm=170; (N) Val=-1.29, Plg=11, Azm=73; (P) Val=-5.75, Plg=58, Azm=325; Best double couple: Mo=6.4*10**16 Nm; NP1: Strike=290, Dip=18, Slip=-52; NP2: Strike=70, Dip=76, Slip=-101.	
											Centroid, Moment Tensor (HRV): Centroid origin time 23:01:04.9; Lat 27.61 S; Lon 65.57 E; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.04, Plg=0, Azm=192; (N) Val=-0.18, Plg=47, Azm=102; (P) Val=-0.86, Plg=43, Azm=282; Best double couple: Mo=9.5*10**16 Nm; NP1: Strike=319, Dip=61, Slip=-33; NP2: Strike=66, Dip=61, Slip=-147.
10	23	14	08.1	25.638 N	122.689 E	264	4.4	0.9	35	TAIWAN REGION	
11	00	00	29.6*	35.801 N	34.748 W	10 G	4.3	1.5	13	AZORES ISLANDS REGION	
11	00	53	57.0&	32.746 S	71.509 W	17			12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).	
11	01	31	53.2&	31.823 S	71.941 W	18			8	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).	
11	02	43	00.5*	52.421 N	174.027 E	54 *	4.2	0.9	18	NEAR ISLANDS, ALEUTIAN ISLANDS	
11	02	55	25.0*	27.913 S	65.713 E	10 G	4.7	1.0	19	INDIAN OCEAN TRIPLE JUNCTION	
11	03	10	00.5&	18.283 N	100.913 W	33 N		1.0	18	GUERRERO, MEXICO. MD 3.9 (UNM).	
11	04	34	24.0&	49.160 N	6.850 E	1 G			18	GERMANY. <FBB>. ML 2.8 (LDG), 2.2 (FBB). Mining induced event in the Lorraine region, France.	
11	05	31	40.8&	32.766 S	71.511 W	14			13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).	
11	05	38	23.7*	6.267 S	129.332 E	106 ?	4.2	1.1	10	BANDA SEA	
11	06	23	03.6	49.012 N	6.546 E	5 G		0.8	9	GERMANY. MD 2.8 (LDG). Mining induced event in the Lorraine region, France.	
11	07	08	38.8	39.047 N	140.781 E	33 N	5.1 4.8	0.8	194	EASTERN HONSHU, JAPAN. Recorded (3 JMA) in the epicentral area and (1 JMA) in Akita, Aomori, Iwate, Miyagi and Yamagata Prefectures.	
11	08	10	43.0&	32.738 S	71.525 W	17			13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).	
11	08	27	30.8?	9.25 S	79.06 W	59 D	3.3	0.8	6	OFF COAST OF NORTHERN PERU. Felt (III) at Chimbote.	
11	09	58	45.3&	44.837 N	7.482 E	1			6	NORTHERN ITALY. <GEN>. ML 1.9 (GEN).	
11	10	34	05.1&	42.080 S	174.660 E	27			13	OFF E. COAST OF S. ISLAND, N.Z. <WEL>. ML 4.2 (WEL).	
11	10	39	16.5*	30.963 N	7.360 W	10 G		1.2	16	MOROCCO	
11	11	32	38.3*	42.197 N	142.366 E	75 *	4.3	1.5	31	HOKKAIDO, JAPAN REGION. Recorded (2 JMA) in the Shizunai-	

12	11	36	30.0	48.230 N	125.020 W	10 G				8	VANCOUVER ISLAND, CANADA REGION. <PGC-P>. ML 2.0 (PGC).
12	12	58	28.6	56.181 N	114.043 E	10 G				5	EAST OF LAKE BAYKAL, RUSSIA
12	13	23	44.0	47.920 N	9.210 E	20 G			0.5	11	GERMANY. <FBB>. ML 2.0 (STR), 2.0 (LDG), 1.7 (FBB).
12	13	44	08.8	13.531 N	124.885 E	58 *	4.4		1.1	15	LUZON, PHILIPPINES
12	14	14	34.9	32.634 S	71.732 W	6				11	NEAR COAST OF CENTRAL CHILE. <GUC>.
12	14	17	12.4	3.503 S	135.293 E	33 N	4.5		1.4	11	IRIAN JAYA REGION, INDONESIA
12	14	31	05.0	48.240 N	125.010 W	10 G	2.6			15	VANCOUVER ISLAND, CANADA REGION. <PGC-P>. ML 2.5 (PGC).
12	14	32	22.0	48.180 N	125.030 W	10 G				4	VANCOUVER ISLAND, CANADA REGION. <PGC-P>. ML 2.0 (PGC).
12	15	34	40.1	33.879 N	90.880 E	33 N	4.2		1.5	11	QINGHAI, CHINA
12	16	19	55.6	46.048 N	14.788 E	10 G			0.2	8	NORTHWESTERN BALKAN REGION. ML 2.0 (VIE).
12	16	29	20.2	6.573 S	155.009 E	33 N	5.6	5.7	1.0	236	SOLOMON ISLANDS. Mw 5.9 (GS), 5.9 (HRV). Me 5.4 (GS). Broadband Source Parameters (GS): Dep 35; NP1: Strike=140, Dip=45, Slip=100; NP2: Strike=306, Dip=46, Slip=80; Radiated energy 2.4*10**12 Nm. Moment Tensor (GS): Dep 36; Principal axes (scale 10**17 Nm): (T) Val=7.88, Plg=79, Azm=145; (N) Val=0.60, Plg=11, Azm=328; (P) Val=-8.48, Plg=0, Azm=238; Best double couple: Mo=8.2*10**17 Nm; NP1: Strike=317, Dip=46, Slip=75; NP2: Strike=158, Dip=46, Slip=105. Centroid, Moment Tensor (HRV): Centroid origin time 16:29:26.6; Lat 6.71 S; Lon 155.06 E; Dep 44.0 Bdy; Half-duration 2.0 sec; Principal axes (scale 10**17 Nm): (T) Val=7.04, Plg=81, Azm=41; (N) Val=-0.10, Plg=1, Azm=135; (P) Val=-6.94, Plg=9, Azm=225; Best double couple: Mo=7.0*10**17 Nm; NP1: Strike=316, Dip=36, Slip=91; NP2: Strike=135, Dip=54, Slip=89.
12	16	52	08.7	1.824 N	125.223 E	198	4.4		0.9	16	NORTHERN MOLUCCA SEA
12	17	17	11.6	39.060 S	175.630 E	5				4	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 1.9 (WEL).
12	17	58	38.3	39.070 S	175.660 E	5				4	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 2.5 (WEL).
12	18	27	37.6	13.582 S	73.152 W	58 *	4.2		0.8	15	CENTRAL PERU
12	18	51	49.3	17.39 S	173.50 W	33 N	4.6		1.2	17	TONGA ISLANDS
12	20	26	46.1	51.556 N	16.165 E	5 G			0.4	11	POLAND. ML 3.4 (VIE).
12	20	34	08.9	39.805 N	15.486 E	283	4.2		1.0	184	SOUTHERN ITALY
12	21	30	31.3	51.587 N	16.227 E	5 G			0.6	11	POLAND. ML 3.4 (VIE).
12	23	49	34.8	53.233 N	156.710 E	265	4.2		0.9	39	KAMCHATKA PENINSULA, RUSSIA
12	23	58	33.6	44.585 N	7.235 E	12				8	NORTHERN ITALY. <GEN>. ML 1.9 (GEN).
13	00	18	44.6	60.536 N	151.721 W	74				45	KENAI PENINSULA, ALASKA. <AEIC>.
13	00	59	21.8	15.644 S	167.983 E	34 *	5.3	4.9	0.9	112	VANUATU ISLANDS. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 00:59:25.9; Lat 15.45 S; Lon 167.92 E; Dep 24.7; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.59, Plg=67, Azm=321; (N) Val=-0.24, Plg=18, Azm=181; (P) Val=-1.36, Plg=14, Azm=87; Best double couple: Mo=1.5*10**17 Nm; NP1: Strike=153, Dip=35, Slip=57; NP2: Strike=12, Dip=61, Slip=111.
13	01	00	12.0	44.115 N	5.980 E	4 G				26	FRANCE. <LDG>. ML 2.1 (LDG), 2.1 (STR).
13	01	22	49.7	24.00 S	67.24 W	212 ?	4.2		1.4	12	CHILE-ARGENTINA BORDER REGION
13	02	57	08.7	42.853 N	131.572 E	514 D	5.4		0.8	487	E. RUSSIA-N.E. CHINA BORDER REG. Mw 6.0 (GS), 6.0 (HRV). Moment Tensor (GS): Dep 530; Principal axes (scale 10**18 Nm): (T) Val=1.19, Plg=4, Azm=15; (N) Val=0.03, Plg=64, Azm=113; (P) Val=-1.23, Plg=26, Azm=283; Best double couple: Mo=1.2*10**18 Nm; NP1: Strike=62, Dip=69, Slip=-164; NP2: Strike=326, Dip=75, Slip=-22. Centroid, Moment Tensor (HRV): Centroid origin time 02:57:12.7; Lat 42.77 N; Lon 131.64 E; Dep 524.3; Half-duration 2.4 sec; Principal axes (scale 10**18 Nm): (T) Val=1.02, Plg=4, Azm=19; (N) Val=0.16, Plg=63, Azm=116; (P) Val=-1.18, Plg=27, Azm=287; Best double couple: Mo=1.1*10**18 Nm; NP1: Strike=66, Dip=69, Slip=-163; NP2: Strike=330, Dip=74, Slip=-22.
13	03	35	13.6	38.818 S	74.837 W	33 N	4.3		0.8	11	OFF COAST OF CENTRAL CHILE
13	04	33	12.8	39.978 N	143.107 E	33 N	4.9	4.2	1.1	53	

Mo=3.5*10**17 Nm; NP1: Strike=136, Dip=45, Slip=59; NP2: Strike=356, Dip=53, Slip=117.
Centroid, Moment Tensor (HRV): Centroid origin time 18:19:42.2; Lat 5.73 N; Lon 126.88 E; Dep 133.3; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=3.70, Plg=83, Azm=289; (N) Val=0.08, Plg=7, Azm=111; (P) Val=-3.78, Plg=0, Azm=21; Best double couple: Mo=3.7*10**17 Nm; NP1: Strike=104, Dip=45, Slip=81; NP2: Strike=297, Dip=46, Slip=99.

13	18	31	26.8*	3.638 S	127.208 E	75 ?	4.7	1.2	11	SERAM, INDONESIA	
13	19	07	39.0*	63.045 N	151.021 W	125			48	CENTRAL ALASKA. <AEIC>.	
13	19	12	36.2*	9.549 S	113.994 E	57 ?	4.3	1.5	15	SOUTH OF JAWA, INDONESIA	
13	19	13	37.9*	8.483 N	125.630 E	33 N		0.4	5	MINDANAO, PHILIPPINES	
13	19	38	00.4*	6.938 S	154.495 E	33 N	4.0	0.6	7	SOLOMON ISLANDS	
13	20	05	54.2	52.870 N	159.495 E	48		0.8	13	OFF EAST COAST OF KAMCHATKA	
13	21	01	02.5	35.217 N	58.175 E	33 N	4.9	4.6	1.2	39	NORTHERN AND CENTRAL IRAN. ML 4.7 (TEH). Felt at Kashmar.
13	22	14	39.5*	4.652 N	125.518 E	67 *	4.2	1.2	14	TALAUD ISLANDS, INDONESIA	
13	22	42	15.8*	44.526 N	7.126 E	8			20	NORTHERN ITALY. <GEN>. ML 2.3 (GEN), 1.8 (STR).	
13	23	16	55.4	39.512 N	74.645 E	82	4.5	0.9	43	SOUTHERN XINJIANG, CHINA	
13	23	18	01.4*	47.192 N	7.306 E	7 G			11	SWITZERLAND. <LDG>. ML 1.9 (LDG), 1.9 (STR).	
13	23	29	55.2*	39.180 S	175.420 E	13			7	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 2.8 (WEL).	
14	00	00	16.6*	15.694 N	60.749 W	26			8	LEEWARD ISLANDS. <TRN>. MD 3.0 (TRN), 2.8 (PDF).	
14	00	23	03.6*	40.739 N	124.492 W	20			4	NEAR COAST OF NORTHERN CALIF. <NC-P>. MD 2.8 (NC). ML 3.0 (BRK).	
14	00	49	39.8*	63.264 N	149.349 W	85	2.5		43	CENTRAL ALASKA. <AEIC>.	
14	01	22	04.7*	43.19 N	148.46 E	33 N	4.2	1.5	11	EAST OF KURIL ISLANDS	
14	01	58	57.4*	63.682 N	148.966 W	0			47	CENTRAL ALASKA. <AEIC>. ML 3.4 (AEIC), 3.9 (PMR). Felt at Healy.	
14	02	35	56.6*	33.219 N	116.075 W	2			4	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).	
14	04	23	57.1*	17.201 N	94.633 W	160			8	CHIAPAS, MEXICO. <UNM>. MD 4.1 (UNM).	
14	06	38	27.4	11.904 N	46.061 E	10 G	5.0	4.7	1.3	36	WESTERN GULF OF ADEN. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 06:38:30.8; Lat 11.89 N; Lon 46.30 E; Dep 15.0 Bdy; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.74, Plg=18, Azm=2; (N) Val=-0.37, Plg=19, Azm=266; (P) Val=-1.37, Plg=63, Azm=134; Best double couple: Mo=1.5*10**17 Nm; NP1: Strike=120, Dip=31, Slip=-52; NP2: Strike=257, Dip=66, Slip=-111.
14	06	56	34.3	41.016 N	31.757 E	10 G	4.9	4.8	1.2	233	TURKEY. MD 5.0 (ISK). Some buildings destroyed at Mengen. Felt strongly in other parts of Bolu Province. Telephone service was interrupted in Zonguldak Province. Felt at Ankara, Bolu, Cankiri, Duzce, Istanbul, Izmit and Sakarya.
14	07	12	54.2*	40.859 N	31.880 E	16			10	TURKEY. <ISK>. MD 3.8 (ISK).	
14	09	28	54.3	45.762 S	72.812 W	33 N	5.1	0.8	37	SOUTHERN CHILE	
14	09	51	50.2*	5.448 S	131.244 E	33 N	4.7	1.2	15	BANDA SEA	
14	09	57	42.0*	34.803 N	116.372 W	2			46	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.4 (PAS).	
14	11	22	32.5*	37.620 S	177.400 E	213			8	OFF E. COAST OF N. ISLAND, N.Z. <WEL>.	
14	11	28	33.5*	46.161 N	16.004 E	10 G		1.1	7	NORTHWESTERN BALKAN REGION. ML 2.2 (VIE).	
14	11	31	35.2*	40.006 N	28.792 E	17			8	TURKEY. <ISK>. MD 3.0 (ISK).	
14	11	55	32.0*	24.016 N	122.539 E	33 N	3.4	1.0	9	TAIWAN REGION	
14	11	58	26.9	21.837 S	68.348 W	121 *	4.8	1.1	64	CHILE-BOLIVIA BORDER REGION	
14	12	02	08.2*	34.803 N	116.364 W	3			9	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).	
14	12	02	49.9*	34.799 N	116.371 W	2			11	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).	
14	12	06	15.9*	41.080 S	174.520 E	61			8	COOK STRAIT, NEW ZEALAND. <WEL>.	
14	12	22	54.3*	28.722 S	71.153 W	55 *	4.7	1.3	20	NEAR COAST OF CENTRAL CHILE	
14	12	38	16.0*	34.802 N	116.370 W	3			17	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).	
14	12	44	07.5*	15.74 S	71.67 W	106 *	4.2	0.7	10	SOUTHERN PERU. Felt (IV) at La Joya and Vitor; (III) at Arequipa.	
14	12	52	45.5	16.616 N	86.295 W	33 N	4.5	1.1	34	NORTH OF HONDURAS. Felt at Roatan.	
14	13	12	23.2*	12.131 N	46.030 E	10 G	3.9	1.1	14	WESTERN GULF OF ADEN	
14	13	22	48.3	41.509 N	142.170 E	60 *	4.3	1.0	29	HOKKAIDO, JAPAN REGION. Felt at Misawa, Honshu. Recorded (2 JMA) in eastern Aomori and (1 JMA) in northern Iwate Prefectures, Honshu. Also recorded (1 JMA) in parts of southern Hokkaido.	
14	13	32	35.7*	19.952 N	100.105 W	5			11	MICHOACAN, MEXICO. <UNM>. MD 3.4 (UNM).	
14	13	39	56.4	48.834 N	155.442 E	61 D	4.8	1.1	95	KURIL ISLANDS	
14	13	45	23.1	55.549 N	162.311 E	33 N	4.8	4.6	1.2	91	NEAR EAST COAST OF KAMCHATKA
14	13	54	02.8*	10.945 N	62.292 W	49			8	NEAR COAST OF VENEZUELA. <TRN>. MD 3.5 (TRN).	
14	13	55	30.2	16.651 N	86.261 W	33 N	4.6	0.9	49	NORTH OF HONDURAS. Felt at Roatan.	
14	15	03	11.9*	16.397 N	86.084 W	33 N	3.7	1.3	15	NORTH OF HONDURAS. Felt at Roatan.	
14	15	27	53.5*	34.010 S	70.981 W	66			8	CHILE-ARGENTINA BORDER REGION. <GUC>.	
14	16	51	52.1*	60.051 N	153.144 W	3	3.8		38	SOUTHERN ALASKA. <AEIC>. ML 3.7 (AEIC), 3.8 (PMR).	
14	17	43	53.3	22.328 N	93.892 E	56 *	4.2	0.8	20	MYANMAR-INDIA BORDER REGION	
14	17	49	13.7*	33.081 S	70.368 W	101			13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.7 (GUC). Felt (II) at Rancagua and Santiago, Chile.	
14	17	51	55.1	5.643 S	77.296 W	33 N	4.8	0.7	50	NORTHERN PERU	
14	18	20	56.8*	11.947 N	45.947 E	10 G	4.6	1.3	16	WESTERN GULF OF ADEN	
14	18	24	52.1*	33.978 N	91.375 E	33 N		0.9	6	QINGHAI, CHINA	
14	18	30	59.2*	18.825 N	66.426 W	23			4	PUERTO RICO REGION. <RSR>. MD 2.8 (RSR).	
14	19	56	48.8*	14.15 N	145.44 E	116 *	4.0	1.0	7	MARIANA ISLANDS	
14	20	22	23.6	31.040 N	141.622 E	33 N	5.0	5.0	1.0	103	SOUTHEAST OF HONSHU, JAPAN. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 20:22:27.9; Lat 31.05 N; Lon 141.84 E; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=0.88, Plg=63, Azm=326; (N) Val=0.15, Plg=23, Azm=182; (P) Val=-1.03, Plg=14, Azm=86; Best double couple: Mo=9.6*10**16 Nm; NP1: Strike=147, Dip=36, Slip=49; NP2: Strike=14, Dip=63, Slip=116.
14	20	47	39.0*	16.99 S	173.86 W	33 N		1.2	12	TONGA ISLANDS	
14	20	50	34.4*	6.481 S	150.889 E	73 *	4.7	1.0	20	NEW BRITAIN REGION, P.N.G.	
14	21	18	17.6	0.279 S	124.943 E	33 N	4.8	1.2	35	SOUTHERN MOLUCCA SEA	
14	21	39	46.3*	45.791 S	72.604 W	33 N	5.0	4.6	1.0	34	SOUTHERN CHILE
14	22	01	13.3*	51.688 N	175.349 W	33 N		0.8	13	ANDREANOF ISLANDS, ALEUTIAN IS.	

14	22	50	42.7&	9.260 N	81.610 W	8			4	PANAMA. <UPA>. MD 4.1 (UPA).
14	23	01	54.3*	56.124 N	164.353 E	33 N	3.2	1.4	9	KOMANDORSKY ISLANDS REGION
14	23	07	39.9*	52.912 N	159.491 E	74	3.4	1.2	14	OFF EAST COAST OF KAMCHATKA
15	00	37	07.0*	13.918 S	72.094 W	52 *	4.6	1.3	38	CENTRAL PERU. Felt (III) at Cusco and Urcos.
15	01	27	35.2?	23.20 S	179.77 E	600 G	4.1	1.0	13	SOUTH OF FIJI ISLANDS
15	02	01	18.9*	27.951 N	111.645 W	10 G		1.0	13	GULF OF CALIFORNIA
15	02	05	00.5	17.675 N	145.401 E	522 D	5.9	0.9	374	MARIANA ISLANDS. Mw 5.9 (GS), 5.9 (HRV). Me 5.7 (GS). Broadband Source Parameters (GS): Dep 520; NP1: Strike=50, Dip=70, Slip=-80; NP2: Strike=203, Dip=22, Slip=-116; Radiated energy 7.1*10**12 Nm. Moment Tensor (GS): Dep 520; Principal axes (scale 10**17 Nm): (T) Val=8.21, Plg=22, Azm=106; (N) Val=-1.92, Plg=10, Azm=200; (P) Val=-6.29, Plg=66, Azm=314; Best double couple: Mo=7.2*10**17 Nm; NP1: Strike=178, Dip=25, Slip=-114; NP2: Strike=24, Dip=67, Slip=-79. Centroid, Moment Tensor (HRV): Centroid origin time 02:05:05.1; Lat 17.67 N; Lon 145.54 E; Dep 525.5; Half- duration 2.2 sec; Principal axes (scale 10**17 Nm): (T) Val=7.24, Plg=18, Azm=128; (N) Val=-0.83, Plg=11, Azm=222; (P) Val=-6.42, Plg=69, Azm=343; Best double couple: Mo=6.8*10**17 Nm; NP1: Strike=201, Dip=29, Slip=-114; NP2: Strike=48, Dip=64, Slip=-77.
15	02	54	16.7&	34.042 S	72.288 W	37			7	NEAR COAST OF CENTRAL CHILE. <GUC>.
15	03	10	22.4?	27.96 N	111.68 W	10 G		1.2	9	GULF OF CALIFORNIA
15	05	12	42.8&	61.516 N	146.289 W	5	3.7		104	SOUTHERN ALASKA. <AEIC>. ML 3.9 (AEIC), 4.2 (PMR). Felt (III) at Valdez.
15	05	31	35.9*	13.090 S	71.744 W	33 N	3.7	0.5	7	CENTRAL PERU. Felt (III) at Cusco.
15	07	07	40.9	40.152 N	72.244 E	67 *	4.1	1.3	20	KYRGYZSTAN
15	07	27	00.0&	47.470 N	128.850 W	10 G			9	OFF COAST OF WASHINGTON. <PGC-P>. ML 3.4 (PGC).
15	07	40	55.9&	33.945 S	71.718 W	41			8	NEAR COAST OF CENTRAL CHILE. <GUC>.
15	08	14	44.8&	47.188 N	121.217 W	10			66	WASHINGTON. <SEA-P>. MD 2.6 (SEA). ML 2.6 (PGC).
15	09	27	06.3&	47.170 N	6.320 E	2 G			6	FRANCE. <STR>. ML 2.2 (STR).
15	09	27	26.8*	7.246 S	106.741 E	84 ?	4.2	0.9	21	JAWA, INDONESIA
15	09	40	22.8&	42.891 N	0.240 E	2			7	PYRENEES. <LDG>. ML 2.1 (LDG), 2.1 (STR).
15	11	39	39.9&	33.490 S	70.051 W	8			7	CHILE-ARGENTINA BORDER REGION. <GUC>.
15	11	50	14.1*	36.467 N	70.583 E	33 N	3.8	0.4	7	HINDU KUSH REGION, AFGHANISTAN
15	13	21	18.4&	60.237 N	153.738 W	180			39	SOUTHERN ALASKA. <AEIC>.
15	13	30	36.3?	6.42 S	154.75 E	102 ?	4.1	1.3	15	SOLOMON ISLANDS
15	13	44	39.8*	39.038 N	20.297 E	33 N		1.1	10	GREECE-ALBANIA BORDER REGION
15	13	50	32.7*	37.424 S	178.923 E	100 G		0.7	18	OFF E. COAST OF N. ISLAND, N.Z.
15	14	35	24.6&	40.420 S	177.140 E	33 N			11	OFF E. COAST OF N. ISLAND, N.Z. <WEL>. ML 3.9 (WEL).
15	14	49	08.6	22.737 S	66.102 W	254	4.5	0.9	41	JUJUY PROVINCE, ARGENTINA
15	15	34	01.2?	14.76 S	167.29 E	144 ?	4.7	0.9	8	VANUATU ISLANDS
15	15	58	41.6	3.529 S	137.858 E	67 *	4.5	1.0	23	IRIAN JAYA, INDONESIA
15	16	14	36.7?	12.25 N	45.97 E	10 G	4.0	0.5	5	WESTERN GULF OF ADEN
15	16	56	07.9	43.956 N	128.484 W	10 G	4.1	0.8	39	OFF COAST OF OREGON
15	17	10	25.4&	46.252 N	7.244 E	2			30	SWITZERLAND. <LDG>. ML 2.6 (LDG), 2.6 (VIE), 2.3 (STR).
15	17	24	37.2&	19.112 N	65.082 W	60			6	PUERTO RICO REGION. <RSR>. MD 3.8 (RSR).
15	17	26	19.9*	43.959 N	85.056 E	33 N	4.7	1.3	25	NORTHERN XINJIANG, CHINA
15	17	35	32.5*	65.620 N	152.604 W	10 G		1.4	7	NORTHERN ALASKA. ML 3.2 (PMR).
15	18	07	43.0*	18.159 N	102.004 W	66 *		1.2	24	MICHOACAN, MEXICO. MD 4.1 (UNM).
15	18	37	19.9	72.750 N	5.139 E	10 G	4.9	1.0	14	NORWEGIAN SEA
15	18	57	35.1	38.538 N	26.831 E	10 G	3.7	1.1	36	AEGEAN SEA. MD 4.0 (ISK). ML 3.8 (THE). Felt at Aydin, Balikesir and Izmir, Turkey.
15	18	57	43.9&	43.922 N	7.653 E	8			6	NEAR SOUTH COAST OF FRANCE. <GEN>. ML 1.8 (GEN).
15	19	46	25.8	51.631 N	16.367 E	5 G		1.0	14	POLAND. ML 3.6 (VIE).
15	20	25	01.1*	43.996 N	127.180 W	10 G	3.6	0.6	28	OFF COAST OF OREGON
15	20	48	44.2*	48.091 N	153.999 E	72 *	4.2	0.9	17	KURIL ISLANDS
15	20	57	38.0	3.847 N	126.380 E	33 N	4.6	0.8	21	TALAU ISLANDS, INDONESIA
15	21	33	19.0	23.351 N	120.926 E	33 N	5.3 4.9	1.0	171	TAIWAN. Mw 5.3 (HRV). Felt at Hua-lien, Tai-chung, Taipei, Tai-tung and on Peng-hu Tao. Recorded (5 TAP) at Tao-yuan; (4 TAP) at Chia-i; (2 TAP) at Cheng-kung, Tai-chung and Tai- tung; (1 TAP) at Hua-lien. Also recorded (2 TAP) at Ma- kung, Peng-hu Tao. Centroid, Moment Tensor (HRV): Centroid origin time 21:33:17.4; Lat 22.93 N; Lon 120.57 E; Dep 29.2; Half- duration 1.1 sec; Principal axes (scale 10**16 Nm): (T) Val=9.10, Plg=69, Azm=11; (N) Val=-1.17, Plg=20, Azm=210; (P) Val=-7.94, Plg=6, Azm=118; Best double couple: Mo=8.5*10**16 Nm; NP1: Strike=187, Dip=43, Slip=60; NP2: Strike=45, Dip=54, Slip=115.
15	22	07	58.9&	36.136 N	7.461 W	7			13	STRAIT OF GIBALTAR. <MDD>. ML 2.2 (MDD).
15	23	00	20.3&	40.873 N	122.306 W	13			5	NORTHERN CALIFORNIA. <NC-P>. MD 2.8 (NC).
15	23	41	37.2*	36.331 N	70.354 E	183 ?	4.6	1.3	9	HINDU KUSH REGION, AFGHANISTAN
15	23	55	51.6&	46.635 N	1.293 W	5 G			9	FRANCE. <LDG>. ML 2.4 (LDG).
16	00	23	59.7&	18.823 N	99.200 W	8			9	GUERRERO, MEXICO. <UNM>. MD 3.3 (UNM).
16	00	24	01.1?	30.50 N	140.77 E	99 ?	4.2	1.2	18	SOUTHEAST OF HONSHU, JAPAN
16	00	40	55.9&	61.461 N	149.146 W	25			8	SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).
16	01	04	25.3&	15.891 N	98.261 W	10			10	OFF COAST OF GUERRERO, MEXICO. <UNM>. MD 4.0 (UNM).
16	01	44	12.1?	43.63 N	128.26 W	10 G		0.3	29	OFF COAST OF OREGON
16	01	45	03.6&	36.944 N	9.478 W	1			19	WEST OF GIBALTAR. <MDD>. ML 2.8 (MDD).
16	03	59	23.6&	47.937 N	6.499 E	15			5	FRANCE. <LDG>. ML 1.7 (STR), 1.4 (LDG).
16	04	34	56.2*	20.214 S	179.037 W	688 ?	4.1	0.9	29	FIJI ISLANDS REGION
16	05	28	30.0&	8.516 N	82.815 W	1			5	PANAMA-COSTA RICA BORDER REGION. <UPA>. MD 3.6 (UPA).
16	05	33	35.7*	6.499 N	125.461 E	168 ?	4.4	0.6	20	MINDANAO, PHILIPPINES
16	05	48	17.9*	27.449 N	129.288 E	33 N	4.0	0.6	7	RYUKYU ISLANDS, JAPAN
16	05	58	10.6&	37.310 N	1.937 W	6			12	SPAIN. <MDD>. mbLg 2.4 (MDD).
16	06	30	44.6&	34.804 N	116.281 W	5			6	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
16	06	33	48.4&	36.752 N	3.628 W	2			8	STRAIT OF GIBALTAR. <MDD>. mbLg 1.9 (MDD).
16	06	56	03.8	17.798 N	60.931 W	33 N	4.1	1.2	24	LEEWARD ISLANDS. MD 4.1 (TRN), 3.9 (FDF).
16	06	58	32.1	17.736 N	60.863 W	33 N	4.5	0.9	29	LEEWARD ISLANDS. MD 4.0 (FDF).
16	07	03	10.4	17.804 N	60.871 W	33 N	5.1 4.8	0.9	115	LEEWARD ISLANDS. Mw 5.4 (HRV). MD 4.8 (TRN). Centroid, Moment Tensor (HRV): Centroid origin time

07:03:14.2; Lat 17.92 N; Lon 61.00 W; Dep 15.0 Bdy; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.18, Plg=55, Azm=250; (N) Val=0.01, Plg=3, Azm=156; (P) Val=-1.19, Plg=35, Azm=64; Best double couple: Mo=1.2*10**17 Nm; NP1: Strike=139, Dip=11, Slip=73; NP2: Strike=336, Dip=80, Slip=93.

16 07 16 11.4 17.826 N 60.855 W 33 N 4.4 1.2 28 LEEWARD ISLANDS. MD 3.9 (TRN), 3.9 (FDF).

16 08 17 39.8& 17.203 N 101.182 W 26 21 NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.2 (UNM).

16 09 50 53.2 17.504 N 60.822 W 33 N 4.3 0.8 29 LEEWARD ISLANDS

16 10 41 18.3* 25.237 N 101.644 E 33 N 4.1 1.1 16 YUNNAN, CHINA. ML 4.0 (BJI).

16 11 27 19.2& 61.713 N 150.743 W 52 14 SOUTHERN ALASKA. <AEIC>. ML 2.4 (AEIC), 2.5 (PMR).

16 11 52 13.3 37.269 N 145.178 E 33 N 5.4 4.9 0.8 269 OFF EAST COAST OF HONSHU, JAPAN. Mw 5.4 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 11:52:12.7; Lat 37.21 N; Lon 145.20 E; Dep 16.4; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.32, Plg=2, Azm=2; (N) Val=0.05, Plg=1, Azm=92; (P) Val=-1.36, Plg=88, Azm=206; Best double couple: Mo=1.3*10**17 Nm; NP1: Strike=91, Dip=43, Slip=-91; NP2: Strike=273, Dip=47, Slip=-89.

16 12 01 39.6 17.810 N 60.720 W 33 N 4.2 0.9 24 LEEWARD ISLANDS. MD 3.8 (TRN), 3.4 (FDF).

16 12 38 27.5? 17.63 S 178.22 W 560 ? 4.0 1.1 38 FIJI ISLANDS REGION

16 14 23 48.0* 28.517 N 139.609 E 448 * 3.4 0.4 11 BONIN ISLANDS, JAPAN REGION

16 14 37 38.0 20.034 S 68.890 W 134 4.4 0.8 30 CHILE-BOLIVIA BORDER REGION

16 14 43 23.6 17.792 N 60.854 W 33 N 4.1 0.8 24 LEEWARD ISLANDS. MD 3.5 (FDF).

16 17 32 29.1? 4.86 N 77.21 W 33 N 4.2 0.6 10 NEAR WEST COAST OF COLOMBIA

16 17 59 26.4& 36.173 N 5.097 W 0 G 6 STRAIT OF GIBRALTAR. <MDD>. mbLg 2.2 (MDD).

16 18 14 32.4& 46.338 N 1.533 E 19 G 5 FRANCE. <LDG>. ML 1.6 (LDG).

16 18 53 03.9* 9.591 S 107.764 E 33 N 4.5 1.0 18 SOUTH OF JAWA, INDONESIA

16 22 14 09.2 10.906 S 166.609 E 33 N 5.1 4.7 1.0 48 SANTA CRUZ ISLANDS. Mw 5.1 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 22:14:12.6; Lat 10.98 S; Lon 167.09 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.37, Plg=14, Azm=256; (N) Val=0.37, Plg=15, Azm=162; (P) Val=-4.74, Plg=69, Azm=27; Best double couple: Mo=4.6*10**16 Nm; NP1: Strike=6, Dip=33, Slip=-62; NP2: Strike=153, Dip=61, Slip=-107.

16 22 30 06.1* 10.680 S 166.674 E 33 N 4.8 1.0 26 SANTA CRUZ ISLANDS

16 22 35 21.4 10.806 S 166.570 E 33 N 5.4 5.6 0.9 117 SANTA CRUZ ISLANDS. Mw 5.7 (HRV), 5.6 (GS).

Moment Tensor (GS): Dep 7; Principal axes (scale 10**17 Nm): (T) Val=3.03, Plg=12, Azm=91; (N) Val=0.21, Plg=20, Azm=357; (P) Val=-3.24, Plg=66, Azm=210; Best double couple: Mo=3.1*10**17 Nm; NP1: Strike=206, Dip=37, Slip=-55; NP2: Strike=344, Dip=60, Slip=-114.

Centroid, Moment Tensor (HRV): Centroid origin time 22:35:24.5; Lat 10.89 S; Lon 166.97 E; Dep 15.0 Bdy; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=3.67, Plg=5, Azm=65; (N) Val=-0.03, Plg=12, Azm=156; (P) Val=-3.64, Plg=77, Azm=311; Best double couple: Mo=3.7*10**17 Nm; NP1: Strike=142, Dip=41, Slip=-109; NP2: Strike=346, Dip=52, Slip=-75.

16 22 38 18.2? 10.50 S 166.61 E 33 N 4.6 1.0 12 SANTA CRUZ ISLANDS

16 22 39 22.0& 47.840 N 7.570 E 14 12 SWITZERLAND. <FBB>. ML 2.1 (LDG), 2.0 (STR), 1.9 (FBB).

16 23 42 35.1* 44.190 N 15.481 E 10 G 1.5 49 NORTHWESTERN BALKAN REGION. ML 3.9 (ZAG), 3.7 (VIE), 3.4 (TRI), 3.3 (ROM).

16 23 52 33.3 10.910 S 166.570 E 33 N 5.2 5.3 0.9 57 SANTA CRUZ ISLANDS. Mw 5.4 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 23:52:34.1; Lat 10.98 S; Lon 166.66 E; Dep 15.0 Bdy; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.59, Plg=10, Azm=76; (N) Val=0.10, Plg=16, Azm=169; (P) Val=-1.70, Plg=71, Azm=315; Best double couple: Mo=1.6*10**17 Nm; NP1: Strike=147, Dip=37, Slip=-117; NP2: Strike=0, Dip=57, Slip=-71.

16 23 54 46.3 44.209 N 15.466 E 10 G 1.5 35 NORTHWESTERN BALKAN REGION. ML 3.6 (ZAG), 3.5 (VIE), 3.1 (TRI).

17 00 20 03.8 10.856 S 166.711 E 33 N 4.8 0.7 27 SANTA CRUZ ISLANDS

17 00 35 30.7& 17.327 N 101.512 W 10 12 NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.9 (UNM).

17 02 55 51.7? 10.57 S 166.55 E 33 N 4.3 1.5 7 SANTA CRUZ ISLANDS

17 03 13 58.7 10.760 N 41.417 W 10 G 4.5 0.8 30 NORTHERN MID-ATLANTIC RIDGE

17 03 34 11.5? 4.49 S 78.31 W 33 N 4.2 1.3 15 PERU-ECUADOR BORDER REGION

17 04 36 42.6 14.625 N 145.300 E 151 * 4.5 1.0 36 MARIANA ISLANDS. Felt on Saipan.

17 04 54 26.5 10.905 S 166.687 E 33 N 5.5 5.8 1.0 128 SANTA CRUZ ISLANDS. Mw 5.9 (GS), 5.9 (HRV).

Moment Tensor (GS): Dep 3; Principal axes (scale 10**17 Nm): (T) Val=7.40, Plg=8, Azm=250; (N) Val=1.08, Plg=6, Azm=159; (P) Val=-8.49, Plg=80, Azm=34; Best double couple: Mo=8.0*10**17 Nm; NP1: Strike=346, Dip=38, Slip=-81; NP2: Strike=155, Dip=53, Slip=-97.

Centroid, Moment Tensor (HRV): Centroid origin time 04:54:31.7; Lat 10.88 S; Lon 167.06 E; Dep 15.0 Fix; Half-duration 2.2 sec; Principal axes (scale 10**17 Nm): (T) Val=8.09, Plg=4, Azm=240; (N) Val=0.82, Plg=1, Azm=150; (P) Val=-8.91, Plg=86, Azm=46; Best double couple: Mo=8.5*10**17 Nm; NP1: Strike=331, Dip=41, Slip=-88; NP2: Strike=149, Dip=49, Slip=-91.

17 05 20 39.0* 10.839 S 166.645 E 33 N 4.2 1.2 14 SANTA CRUZ ISLANDS

17 05 57 30.4& 38.090 S 176.670 E 5 7 NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.4 (WEL). Felt at Kawerau.

17 06 22 12.1& 44.581 N 7.445 E 8 4 NORTHERN ITALY. <GEN>. ML 1.7 (GEN).

17 07 10 01.4& 38.090 S 176.670 E 5 7 NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.4 (WEL). Felt at Kawerau.

17 08 17 17.4 10.961 S 166.670 E 33 N 4.7 0.7 27 SANTA CRUZ ISLANDS

17 08 57 18.9& 41.130 N 31.610 E 5 6 TURKEY. <ISK>. MD 3.2 (ISK).

17 09 32 31.9& 17.879 N 60.906 W 7 10 LEEWARD ISLANDS. <TRN>. MD 3.8 (TRN), 3.4 (FDF).

17 09 44 09.9 29.581 N 67.121 E 33 N 4.6 1.2 33 PAKISTAN

17	10	14	07.3&	43.878 N	7.749 E	6				10	NEAR SOUTH COAST OF FRANCE. <GEN>. ML 2.1 (GEN).
17	11	15	59.8&	17.388 N	101.389 W	32				7	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.6 (UNM).
17	13	25	36.6	63.354 N	151.154 W	33 N	2.4	0.5		9	CENTRAL ALASKA. ML 2.6 (PMR).
17	14	01	42.3*	32.770 N	130.106 E	33 N		1.5		8	KYUSHU, JAPAN. Recorded (1 JMA) in Kumamoto and Nagasaki Prefectures.
17	14	44	27.6&	17.946 N	100.688 W	89				7	GUERRERO, MEXICO. <UNM>. MD 3.5 (UNM).
17	14	56	18.5&	60.003 N	145.550 W	67				9	SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).
17	15	03	58.6*	6.441 N	73.242 W	221 *	3.7	1.1		19	NORTHERN COLOMBIA
17	15	26	47.9&	17.384 N	67.267 W	25				7	MONA PASSAGE. <RSRP>. MD 3.2 (RSRP).
17	15	36	23.4&	39.190 S	174.440 E	12				13	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 4.1 (WEL).
17	15	39	20.6&	39.200 S	174.460 E	12				9	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.4 (WEL).
17	16	12	24.4&	36.081 N	117.881 W	3				12	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 2.9 (PAS).
17	18	19	00.3&	34.321 N	116.764 W	3				6	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
17	18	26	21.9	34.945 S	109.279 W	10 G	5.1	4.6	0.9	70	SOUTHERN EAST PACIFIC RISE. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 18:26:25.2; Lat 35.51 S; Lon 109.47 W; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=8.00, Plg=25, Azm=70; (N) Val=-1.42, Plg=59, Azm=210; (P) Val=-6.58, Plg=17, Azm=331; Best double couple: Mo=7.3*10**16 Nm; NP1: Strike=109, Dip=60, Slip=174; NP2: Strike=202, Dip=85, Slip=30.
17	18	58	24.4&	39.180 S	174.370 E	5				11	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.5 (WEL).
17	19	03	18.5&	39.180 S	174.510 E	12				11	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.8 (WEL).
17	19	19	48.4&	37.271 N	4.157 W	1				7	SPAIN. <MDD>. mbLg 1.9 (MDD).
17	20	04	53.1&	53.554 N	164.600 W	24	4.8	4.1		138	UNIMAK ISLAND REGION, ALASKA. <AEIC>. ML 4.6 (AEIC), 4.7 (PMR).
17	20	55	44.5?	43.71 N	17.25 E	10 G			1.0	13	NORTHWESTERN BALKAN REGION. ML 3.1 (VIE), 2.6 (LJU).
17	21	44	33.8*	7.097 S	129.140 E	33 N	4.6	1.4		15	BANDA SEA
17	22	00	30.3	5.025 S	153.102 E	65 *	5.1	4.8	0.9	67	NEW IRELAND REGION, P.N.G. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 22:00:30.5; Lat 4.73 S; Lon 153.56 E; Dep 65.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=0.54, Plg=0, Azm=187; (N) Val=0.47, Plg=84, Azm=277; (P) Val=-1.01, Plg=6, Azm=97; Best double couple: Mo=7.8*10**16 Nm; NP1: Strike=232, Dip=86, Slip=-176; NP2: Strike=142, Dip=86, Slip=-4.
17	22	06	46.0&	44.486 N	6.846 E	4				26	FRANCE. <GEN>. ML 2.3 (GEN), 2.2 (STR), 2.1 (LDG).
17	23	47	33.0	80.961 N	3.114 W	10 G	4.4	1.1		23	NORTH OF SVALBARD
18	00	19	28.8&	19.317 N	155.270 W	33	4.0			33	HAWAII. <HVO-P>. MD 4.5 (HVO). Felt throughout the Island of Hawaii.
18	00	22	04.8&	43.948 N	7.602 E	6				20	NEAR SOUTH COAST OF FRANCE. <GEN>. MD 2.3 (LDG). ML 2.2 (STR), 2.1 (GEN).
18	00	33	04.0&	31.031 S	72.362 W	7				13	OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.1 (GUC).
18	00	56	03.4	31.346 N	49.544 E	33 N	4.3	0.8		24	WESTERN IRAN
18	01	08	59.0&	11.046 N	62.360 W	73				4	WINDWARD ISLANDS. <TRN>. MD 2.7 (TRN).
18	01	16	23.8&	32.230 S	71.762 W	28				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).
18	01	41	43.8&	51.428 N	6.824 E	1 G				14	GERMANY. <LDG>. MD 3.0 (LDG). ML 2.6 (STR), 2.3 (UCC).
18	02	36	44.2&	36.513 N	7.123 W	11				12	STRAIT OF GIBRALTAR. <MDD>. ML 2.1 (MDD).
18	03	11	23.2&	34.287 S	70.226 W	12				8	CHILE-ARGENTINA BORDER REGION. <GUC>.
18	03	15	26.8*	51.160 N	15.962 E	5 G		0.8		8	POLAND. ML 3.1 (VIE).
18	03	45	27.7	43.467 N	17.262 E	10 G	3.9	1.			

18	13	38	49.8*	39.086 N	140.852 E	33 N	4.1	0.9	17	EASTERN HONSHU, JAPAN. Recorded (2 JMA) in northern Miyagi Prefecture.
18	13	53	15.3?	40.01 N	142.98 E	33 N	3.4	0.8	5	NEAR EAST COAST OF HONSHU, JAPAN
18	14	23	49.4*	51.452 N	157.570 E	112 *	3.3	1.2	10	NEAR EAST COAST OF KAMCHATKA
18	14	30	21.2*	5.246 S	153.990 E	150 *	4.2	0.7	18	NEW IRELAND REGION, P.N.G.
18	14	53	24.6*	10.616 S	164.246 E	89 ?	4.8	1.1	36	SANTA CRUZ ISLANDS REGION
18	14	59	34.6*	48.040 N	7.080 E	2 G			8	FRANCE. <STR>. ML 1.9 (STR).
18	15	09	03.4	55.854 N	110.240 E	10 G	3.6	0.9	18	LAKE BAYKAL REGION, RUSSIA
18	15	41	32.1*	40.700 S	174.240 E	47			12	COOK STRAIT, NEW ZEALAND. <WEL>.
18	16	12	44.2	10.780 N	71.078 W	33 N	4.5	0.9	58	LAKE MARACAIBO, VENEZUELA
18	16	42	32.8*	50.285 N	155.124 E	139	3.9	1.0	16	KURIL ISLANDS
18	17	02	39.5*	60.161 N	152.913 W	103			31	SOUTHERN ALASKA. <AEIC>.
18	17	34	08.6*	47.147 N	7.427 E	2			14	SWITZERLAND. <LDG>. MD 2.3 (LDG). ML 1.9 (STR).
18	20	10	35.4?	45.49 N	15.75 E	10 G		0.5	8	NORTHWESTERN BALKAN REGION. ML 2.4 (VIE), 1.8 (LJU).
18	20	17	43.5?	3.85 N	127.13 E	76 ?	4.3	0.8	7	TALAUD ISLANDS, INDONESIA
18	20	21	24.2*	40.450 S	173.630 E	139			6	COOK STRAIT, NEW ZEALAND. <WEL>.
18	21	27	21.6*	36.764 N	79.773 E	33 N	4.2	1.5	8	SOUTHERN XINJIANG, CHINA
18	22	38	07.0*	3.432 S	135.436 E	33 N	4.5	0.7	9	IRIAN JAYA REGION, INDONESIA
18	23	29	16.0*	49.170 N	6.800 E	1 G			33	GERMANY. <FBB>. MD 3.2 (LDG). ML 2.5 (FBB). Mining induced event in the Lorraine region, France.
19	00	01	32.0*	49.180 N	130.130 W	10 G			26	VANCOUVER ISLAND, CANADA REGION. <PGC-P>. ML 3.4 (PGC).
19	00	06	37.9*	37.174 N	3.616 W	0 G			11	SPAIN. <MDD>. mbLg 1.5 (MDD).
19	00	38	41.4*	37.175 N	3.622 W	0 G			10	SPAIN. <MDD>. mbLg 1.9 (MDD).
19	02	24	08.5*	37.183 N	3.646 W	0 G			6	SPAIN. <MDD>. mbLg 1.1 (MDD).
19	02	24	28.7*	37.163 N	3.599 W	0 G			7	SPAIN. <MDD>. mbLg 1.5 (MDD).
19	02	51	31.2*	15.105 S	173.805 W	33 N	4.1	0.9	25	TONGA ISLANDS
19	02	51	44.6*	15.937 N	97.774 W	16			4	NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 3.8 (UNM).
19	03	32	39.0*	27.777 N	140.714 E	33 N	3.9	1.4	14	BONIN ISLANDS, JAPAN REGION
19	04	26	46.9*	36.084 N	117.886 W	3			11	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 2.9 (PAS).
19	04	49	28.7	44.513 N	149.379 E	55 D	5.2 4.6	1.0	170	KURIL ISLANDS. Mw 5.0 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 04:49:28.6; Lat 44.48 N; Lon 150.06 E; Dep 48.5; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=3.15, Plg=80, Azm=282; (N) Val=-0.28, Plg=7, Azm=52; (P) Val=-2.87, Plg=8, Azm=143; Best double couple: Mo=3.0*10**16 Nm; NP1: Strike=241, Dip=38, Slip=101; NP2: Strike=47, Dip=53, Slip=82.
19	05	23	28.6	44.499 N	149.393 E	52 D	5.1 4.9	1.1	186	KURIL ISLANDS. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 05:23:31.6; Lat 44.44 N; Lon 149.85 E; Dep 21.9; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=0.83, Plg=78, Azm=149; (N) Val=0.34, Plg=5, Azm=35; (P) Val=-1.17, Plg=11, Azm=304; Best double couple: Mo=1.0*10**17 Nm; NP1: Strike=28, Dip=34, Slip=81; NP2: Strike=218, Dip=56, Slip=96.
19	05	28	59.3*	47.450 N	7.420 E	2 G			7	SWITZERLAND. <STR>. ML 1.7 (STR), 1.7 (LDG).
19	05	29	17.2*	5.233 S	151.903 E	73 *	5.2	1.1	39	NEW BRITAIN REGION, P.N.G. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 05:29:16.4; Lat 5.72 S; Lon 152.22 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.84, Plg=77, Azm=266; (N) Val=-1.72, Plg=4, Azm=158; (P) Val=-5.12, Plg=12, Azm=67; Best double couple: Mo=6.0*10**16 Nm; NP1: Strike=152, Dip=33, Slip=83; NP2: Strike=341, Dip=57, Slip=95.
19	05	44	24.9*	34.315 S	70.684 W	98			9	CHILE-ARGENTINA BORDER REGION. <GUC>.
19	05	47	13.5?	27.82 N	140.49 E	33 N	4.8	0.9	6	BONIN ISLANDS, JAPAN REGION
19	06	06	09.0	44.476 N	149.401 E	50 D	5.2 4.6	1.0	172	KURIL ISLANDS. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 06:06:14.7; Lat 44.48 N; Lon 149.54 E; Dep 29.5; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.33, Plg=60, Azm=245; (N) Val=-1.68, Plg=16, Azm=3; (P) Val=-3.65, Plg=26, Azm=101; Best double couple: Mo=4.5*10**16 Nm; NP1: Strike=222, Dip=24, Slip=131; NP2: Strike=358, Dip=72, Slip=74.
19	07	32	18.1*	17.619 N	60.291 W	33 N	3.4	0.5	8	LEEWARD ISLANDS. MD 3.3 (FDF).
19	07	48	06.1	36.519 N	69.953 E	294 *	4.0	0.9	23	HINDU KUSH REGION, AFGHANISTAN
19	07	49	03.0*	47.520 N	7.530 E	5 G			25	SWITZERLAND. <FBB>. ML 2.4 (LDG), 2.3 (STR), 2.1 (FBB).
19	07	54	44.6*	17.564 N	60.922 W	33 N	3.6	0.7	8	LEEWARD ISLANDS. MD 3.2 (FDF).
19	08	09	04.4	51.489 N	179.405 W	33 N	4.4		50	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.4 (PMR).
19	08	27	34.9*	33.728 S	70.207 W	15			6	CHILE-ARGENTINA BORDER REGION. <GUC>.
19	08	50	18.5?	18.05 S	175.38 W	33 N	4.3	1.0	23	TONGA ISLANDS
19	09	48	39.4	14.028 N	92.004 W	51	4.6	1.4	78	NEAR COAST OF CHIAPAS, MEXICO. MD 4.9 (UNM).
19	10	27	20.3*	6.757 N	126.410 E	33 N	4.7	1.1	17	MINDANAO, PHILIPPINES
19	10	44	07.2*	7.506 S	128.122 E	112 ?	4.3	0.9	13	BANDA SEA
19	11	23	14.7*	31.122 N	141.694 E	36 D	4.1	1.0	18	SOUTHEAST OF HONSHU, JAPAN
19	11	46	59.0*	25.205 N	126.861 E	42 D	4.0	0.7	15	RYUKYU ISLANDS, JAPAN
19	11	49	50.9	33.979 N	25.417 E	33 N	3.9	1.2	35	EASTERN MEDITERRANEAN SEA
19	12	15	12.2?	14.25 N	91.65 W	33 N	3.8	0.7	12	GUATEMALA
19	13	33	10.1	42.359 N	142.967 E	62	4.7 4.6	1.0	88	HOKKAIDO, JAPAN REGION. Recorded (3 JMA) in the epicentral area.
19	13	55	45.5*	44.301 N	11.686 E	10 G	3.6		143	NORTHERN ITALY. <ROM>. ML 4.2 (VIE), 4.1 (STR), 4.1 (ZAG), 4.1 (GRF), 3.9 (LDG), 3.6 (TRI), 3.6 (FBB). MD 3.6 (ROM).
19	15	19	43.6?	48.21 N	148.62 E	382 ?		1.2	9	NORTHWEST OF KURIL ISLANDS
19	15	24	38.3*	37.158 N	3.615 W	0 G			14	SPAIN. <MDD>. mbLg 2.4 (MDD).
19	15	40	04.9*	61.533 N	150.761 W	98			61	SOUTHERN ALASKA. <AEIC>.
19	16	36	06.5*	11.794 N	86.075 W	182 *	4.0	1.4	25	NEAR COAST OF NICARAGUA. MD 4.2 (CASC).
19	16	38	31.2?	17.28 S	179.16 W	550 G		1.0	17	FIJI ISLANDS REGION
19	17	45	21.0*	32.715 S	71.867 W	14			13	NEAR COAST OF CENTRAL CHILE. <GUC>.
19	18	53	24.4	50.280 N	156.929 E	40 D	4.9 4.6	1.1	105	KURIL ISLANDS. Felt (III) at Severo-Kurilsk.
19	18	55	19.1*	10.348 N	93.817 E	177 ?	4.7	1.1	22	ANDAMAN ISLANDS, INDIA REGION
19	18	55	51.5	23.952 S	179.989 W	550 G	4.7	0.8	36	SOUTH OF FIJI ISLANDS
19	19	01	55.1	1.263 N	120.836 E	33 N	5.6 4.9	1.1	100	MINAHASSA PENINSULA, SULAWESI. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time

19:01:59.5; Lat 1.28 N; Lon 121.25 E; Dep 17.0 Bdy; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.19, Plg=9, Azm=305; (N) Val=-0.09, Plg=8, Azm=214; (P) Val=-1.10, Plg=78, Azm=83; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=45, Dip=37, Slip=-76; NP2: Strike=208, Dip=55, Slip=-100.

19 19 10 44.6* 50.587 N 154.339 E 188 * 4.1 1.0 15 KURIL ISLANDS
 19 19 13 59.9 31.285 S 68.505 W 115 4.1 1.0 34 SAN JUAN PROVINCE, ARGENTINA
 19 19 31 37.3 49.656 N 155.859 E 48 D 5.4 4.9 0.8 312 KURIL ISLANDS. Mw 5.4 (HRV). Felt (IV) at Severo-Kurilsk. Centroid, Moment Tensor (HRV): Centroid origin time 19:31:44.1; Lat 49.87 N; Lon 156.33 E; Dep 59.4; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.20, Plg=81, Azm=335; (N) Val=0.44, Plg=4, Azm=220; (P) Val=-1.64, Plg=8, Azm=130; Best double couple: Mo=1.4*10**17 Nm; NP1: Strike=215, Dip=37, Slip=84; NP2: Strike=43, Dip=53, Slip=95.

19 20 05 09.5& 36.791 N 3.090 W 16 21 STRAIT OF GIBRALTAR. <MDD>. mbLg 2.8 (MDD). Felt (II) at Adra, Spain.

19 20 15 49.2? 10.48 S 167.17 E 33 N 3.8 0.8 7 SANTA CRUZ ISLANDS
 19 21 11 40.0& 47.520 N 7.530 E 5 G 18 SWITZERLAND. <FBB>. ML 2.1 (STR), 2.1 (LDG), 2.0 (FBB).
 19 21 20 48.4 51.626 N 16.256 E 5 G 1.1 29 POLAND. ML 3.6 (VIE), 3.5 (FUR).
 19 21 54 26.5 19.905 S 173.110 W 33 N 5.2 4.6 0.8 71 TONGA ISLANDS. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 21:54:25.8; Lat 20.11 S; Lon 172.45 W; Dep 60.2; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.22, Plg=11, Azm=22; (N) Val=0.63, Plg=78, Azm=226; (P) Val=-5.84, Plg=5, Azm=113; Best double couple: Mo=5.5*10**16 Nm; NP1: Strike=158, Dip=79, Slip=4; NP2: Strike=67, Dip=86, Slip=169.

19 22 22 21.3& 34.250 S 70.516 W 111 9 CHILE-ARGENTINA BORDER REGION. <GUC>.
 19 23 14 40.0? 24.25 N 121.59 E 33 N 1.3 5 TAIWAN
 19 23 51 12.0 45.939 N 15.180 E 10 G 0.2 8 NORTHWESTERN BALKAN REGION. ML 1.8 (VIE), 1.4 (LJU).
 20 00 07 45.8& 37.161 N 3.614 W 0 G 10 SPAIN. <MDD>. mbLg 1.8 (MDD).
 20 00 19 59.9 31.078 N 95.478 E 33 N 4.3 1.1 19 XIZANG
 20 00 55 49.0* 16.357 N 145.765 E 185 ? 4.1 1.2 21 MARIANA ISLANDS
 20 01 25 37.5& 45.291 N 4.036 E 2 11 FRANCE. <LDG>. ML 1.8 (STR), 1.7 (LDG).
 20 02 35 05.9& 32.789 S 70.594 W 88 12 CHILE-ARGENTINA BORDER REGION. <GUC>.
 20 02 42 10.8& 32.437 S 71.584 W 47 13 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
 20 02 50 18.1& 36.982 N 4.790 W 30 9 STRAIT OF GIBRALTAR. <MDD>. mbLg 1.5 (MDD).
 20 02 51 20.6& 36.922 N 4.738 W 22 10 STRAIT OF GIBRALTAR. <MDD>. mbLg 1.9 (MDD).
 20 02 59 44.3 17.374 N 60.638 W 33 N 4.2 0.9 22 LEEWARD ISLANDS. MD 4.0 (TRN), 3.8 (FDF).
 20 03 36 40.3& 63.245 N 150.517 W 129 57 CENTRAL ALASKA. <AEIC>.
 20 04 01 27.1* 10.635 N 71.369 W 10 G 3.9 1.4 10 LAKE MARACAIBO, VENEZUELA. Felt at Maracaibo.
 20 04 03 14.4& 17.142 N 94.685 W 186 7 CHIAPAS, MEXICO. <UNM>. MD 4.1 (UNM).
 20 04 29 21.8& 60.440 S 176.430 E 33 N 13 NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.9 (WEL).
 20 05 16 30.7& 63.241 N 150.681 W 3 38 CENTRAL ALASKA. <AEIC>. ML 2.9 (AEIC), 3.4 (PMR).
 20 05 29 31.0& 10.979 N 62.289 W 69 8 NEAR COAST OF VENEZUELA. <TRN>. MD 3.6 (TRN).
 20 05 31 46.9 51.379 N 15.888 E 5 G 0.6 11 POLAND. ML 3.3 (VIE).
 20 05 53 23.9 8.135 S 74.244 W 156 D 4.1 0.7 34 PERU-BRAZIL BORDER REGION
 20 06 05 04.0& 15.905 N 98.275 W 5 7 OFF COAST OF GUERRERO, MEXICO. <UNM>. MD 4.0 (UNM).
 20 06 17 05.2& 44.275 N 7.335 E 15 5 NORTHERN ITALY. <GEN>. ML 1.5 (GEN).
 20 06 18 13.7& 44.289 N 7.356 E 14 10 NORTHERN ITALY. <GEN>. ML 2.1 (GEN).
 20 06 18 56.8& 44.284 N 7.358 E 15 9 NORTHERN ITALY. <GEN>. ML 2.0 (GEN).
 20 07 26 30.6 55.954 N 34.600 W 10 G 4.5 4.3 1.0 36 REYKJANES RIDGE
 20 07 46 11.8* 55.821 N 34.808 W 10 G 4.4 4.2 1.4 31 REYKJANES RIDGE
 20 08 27 22.4& 8.854 N 84.126 W 20 G 5.1 5.2 267 OFF COAST OF COSTA RICA. <CASC>. Mw 5.7 (HRV). MD 5.3 (CASC). Centroid, Moment Tensor (HRV): Centroid origin time 08:27:25.8; Lat 8.85 N; Lon 84.17 W; Dep 16.2; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=3.34, Plg=24, Azm=197; (N) Val=0.14, Plg=2, Azm=287; (P) Val=-3.49, Plg=66, Azm=22; Best double couple: Mo=3.4*10**17 Nm; NP1: Strike=282, Dip=21, Slip=-95; NP2: Strike=108, Dip=69, Slip=-88.

20 08 46 58.5* 9.086 N 83.984 W 33 N 4.4 1.3 26 COSTA RICA
 20 09 18 42.0& 48.220 N 10.000 E 24 7 GERMANY. <FBB>. ML 2.0 (FBB).
 20 09 45 31.5* 56.027 N 34.564 W 10 G 4.4 1.1 16 REYKJANES RIDGE
 20 09 48 11.8& 8.586 N 84.374 W 20 G 13 OFF COAST OF COSTA RICA. <CASC>. MD 4.4 (CASC).
 20 09 55 09.3& 56.264 N 34.796 W 10 G 0.5 6 REYKJANES RIDGE
 20 10 00 59.2* 55.705 N 34.842 W 10 G 4.5 1.1 22 REYKJANES RIDGE
 20 10 15 34.9? 55.76 N 34.71 W 10 G 3.2 1.1 5 REYKJANES RIDGE
 20 10 42 37.5 56.008 N 34.454 W 10 G 4.9 4.6 1.0 140 REYKJANES RIDGE. Mw 4.9 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 10:42:38.2; Lat 55.95 N; Lon 34.39 W; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=2.56, Plg=6, Azm=84; (N) Val=0.42, Plg=12, Azm=353; (P) Val=-2.98, Plg=77, Azm=199; Best double couple: Mo=2.8*10**16 Nm; NP1: Strike=187, Dip=41, Slip=-71; NP2: Strike=343, Dip=52, Slip=-105.

20 11 23 01.9? 11.18 N 140.40 E 33 N 3.7 1.3 9 W. CAROLINE ISLANDS, MICRONESIA
 20 12 08 39.3& 60.167 N 152.396 W 85 44 SOUTHERN ALASKA. <AEIC>.
 20 12 24 33.9* 6.840 N 73.121 W 216 4.1 0.8 30 NORTHERN COLOMBIA
 20 13 13 46.3& 48.964 N 0.993 W 3 G 6 FRANCE. <LDG>. ML 2.0 (LDG).
 20 13 49 50.3& 8.875 N 84.225 W 12 17 OFF COAST OF COSTA RICA. <CASC>. MD 4.1 (CASC).
 20 13 52 59.8& 39.380 S 177.680 E 40 11 OFF E. COAST OF N. ISLAND, N.Z. <WEL>.
 20 13 58 44.8 42.716 N 143.953 E 57 4.8 3.9 1.0 108 HOKKAIDO, JAPAN REGION. Felt (II) at Yuzhno-Kurilsk, Kunashir. Recorded (3 JMA) in the epicentral area.

20 14 04 22.4 24.304 N 141.509 E 33 N 4.7 1.0 46 VOLCANO ISLANDS, JAPAN REGION
 20 14 39 47.0& 71.320 N 136.470 W 35 G 6 BEAUFORT SEA. <PGC-P>. ML 3.9 (PGC).
 20 15 09 51.8 31.169 N 141.818 E 33 N 4.6 1.1 50 SOUTHEAST OF HONSHU, JAPAN
 20 15 11 39.7& 17.912 N 100.080 W 86 9 GUERRERO, MEXICO. <UNM>. MD 4.0 (UNM).
 20 16 15 36.1? 30.96 N 95.17 E 33 N 4.0 0.6 6 XIZANG
 20 17 13 48.6& 44.286 N 7.358 E 15 4 NORTHERN ITALY. <GEN>. ML 1.4 (GEN).
 20 17 14 03.3& 44.280 N 7.348 E 15 5 NORTHERN ITALY. <GEN>. ML 1.5 (GEN).

20	17	15	09.7&	44.309	N	7.382	E	12					4	NORTHERN ITALY. <GEN>. ML 1.4 (GEN).
20	17	20	56.0&	37.165	N	3.725	W	3					7	SPAIN. <MDD>. mbLg 1.8 (MDD).
20	17	45	14.4	17.888	N	60.831	W	33	N	4.2		0.7	24	LEEWARD ISLANDS. MD 3.8 (TRN).
20	17	51	46.2&	60.285	N	153.607	W	179					7	SOUTHERN ALASKA. <AEIC>.
20	18	20	38.3&	39.270	S	177.660	E	51					8	OFF E. COAST OF N. ISLAND, N.Z. <WEL>.
20	18	57	28.4	21.458	S	178.841	W	550	G	4.4		0.8	64	FIJI ISLANDS REGION
20	19	27	11.1&	47.516	N	7.509	E	2					9	SWITZERLAND. <LDG>. ML 1.6 (LDG), 1.6 (STR).
20	19	36	38.2*	30.607	N	69.738	E	10	G	4.1		1.3	12	PAKISTAN
20	20	13	30.8&	37.616	N	3.538	W	0	G				7	SPAIN. <MDD>. mbLg 2.0 (MDD).
20	20	20	48.4&	39.370	S	177.680	E	39					11	OFF E. COAST OF N. ISLAND, N.Z. <WEL>.
20	20	45	32.5&	37.129	N	2.592	W	6					12	SPAIN. <MDD>. mbLg 2.1 (MDD).
20	21	01	58.6	63.324	N	151.203	W	5	G			0.7	34	CENTRAL ALASKA. ML 3.5 (PMR).
20	21	18	06.6*	8.565	S	108.414	E	33	N			0.4	6	JAWA, INDONESIA
20	21	22	23.3?	17.65	N	60.63	W	33	N	3.7		0.7	8	LEEWARD ISLANDS. MD 3.6 (FDF).
20	21	26	52.0&	33.477	S	72.204	W	6					11	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
20	23	03	53.4&	55.395	S	159.289	W	1		3.1			22	ALASKA PENINSULA. <AEIC>. ML 3.4 (AEIC).
20	23	20	04.0*	34.750	N	25.285	E	33	N	3.1		1.0	9	CRETE, GREECE
20	23	57	22.2*	21.739	N	143.560	E	33	N	4.9	4.2	1.1	31	MARIANA ISLANDS REGION. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 23:57:22.6; Lat 21.30 N; Lon 143.65 E; Dep 64.6; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.85, Plg=6, Azm=247; (N) Val=-1.84, Plg=78, Azm=125; (P) Val=-4.01, Plg=10, Azm=338; Best double couple: Mo=4.9*10**16 Nm; NP1: Strike=22, Dip=78, Slip=-3; NP2: Strike=113, Dip=87, Slip=-168.
21	00	09	52.4&	37.681	N	3.544	W	0	G				14	SPAIN. <MDD>. mbLg 1.7 (MDD).
21	00	36	21.8	6.279	S	154.758	E	55	D	5.6	5.3	1.0	233	SOLOMON ISLANDS. Mw 5.7 (GS), 5.7 (HRV). Moment Tensor (GS): Dep 39; Principal axes (scale 10**17 Nm): (T) Val=3.56, Plg=82, Azm=209; (N) Val=0.16, Plg=3, Azm=321; (P) Val=-3.72, Plg=8, Azm=52; Best double couple: Mo=3.6*10**17 Nm; NP1: Strike=145, Dip=37, Slip=95; NP2: Strike=319, Dip=53, Slip=86. Centroid, Moment Tensor (HRV): Centroid origin time 00:36:25.9; Lat 6.44 S; Lon 154.82 E; Dep 71.3; Half- duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=3.59, Plg=85, Azm=281; (N) Val=-0.12, Plg=4, Azm=132; (P) Val=-3.47, Plg=2, Azm=42; Best double couple: Mo=3.5*10**17 Nm; NP1: Strike=128, Dip=43, Slip=84; NP2: Strike=316, Dip=47, Slip=95.
21	01	41	31.9	4.757	S	153.137	E	71	*	5.3		0.9	128	NEW IRELAND REGION, P.N.G.
21	02	26	52.6&	37.257	N	2.684	W	14					7	SPAIN. <MDD>. mbLg 1.3 (MDD).
21	02	48	14.8?	21.66	N	144.18	E	33	N	3.8		0.5	7	MARIANA ISLANDS REGION
21	02	57	20.3*	5.866	S	106.254	E	136	*	4.8		1.1	51	JAWA, INDONESIA
21	02	58	25.5&	35.668	N	117.625	W	3					7	CENTRAL CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
21	03	34	39.1&	44.505	N	6.936	E	5					10	FRANCE. <GEN>. ML 2.0 (GEN).
21	03	38	21.9&	61.588	N	147.014	W	10					7	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).
21	04	08	05.1&	34.499	S	70.656	W	107					8	CHILE-ARGENTINA BORDER REGION. <GUC>.
21	05	03	06.1&	44.436	N	7.171	E	13					27	NORTHERN ITALY. <GEN>. ML 2.3 (GEN), 2.1 (LDG), 2.0 (STR).
21	05	11	12.4&	44.436	N	7.172	E	14					9	NORTHERN ITALY. <GEN>. ML 2.1 (GEN).
21	05	23	06.2	51.527	N	179.377	W	33	N	4.3		0.9	48	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.5 (PMR).
21	05	26	54.8*	3.459	S	135.497	E	33	N			0.9	8	IRIAN JAYA REGION, INDONESIA
21	05	46	25.3&	44.670	N	8.434	E	19					4	NORTHERN ITALY. <GEN>. ML 1.6 (GEN).
21	05	54	11.0&	44.432	N	7.160	E	15					25	NORTHERN ITALY. <GEN>. ML 2.2 (GEN), 2.1 (LDG), 2.0 (STR).
21	08	06	58.1*	21.755	N	143.916	E	33	N	4.6	4.1	1.1	33	MARIANA ISLANDS REGION
21	09	48	10.6&	35.667	N	117.627	W	3					7	CENTRAL CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
21	10	18	12.7	33.720	N	136.954	E	370		4.3		0.8	56	NEAR S. COAST OF WESTERN HONSHU
21	12	15	17.6*	21.565	N	144.005	E	33	N			0.5	8	MARIANA ISLANDS REGION
21	13	00	13.4&	44.443	N	7.213	E	9					4	NORTHERN ITALY. <GEN>. ML 1.3 (GEN).
21	13	49	43.1&	34.047	N	117.255	W	15					41	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.5 (PAS). Felt (IV) at Calimesa, Fontana, Moreno Valley, Riverside and San Bernardino. Felt in Los Angeles, Riverside, San Bernardino and San Diego Counties.
21	14	13	50.7&	44.210	N	7.730	E	5	G				6	NORTHERN ITALY. <STR>. ML 2.1 (STR).
21	14	16	25.5&	37.104	N	4.221	W	0	G				5	SPAIN. <MDD>. mbLg 1.7 (MDD).
21	14	24	35.3?	12.30	N	144.23	E	33	N	3.5		0.8	5	SOUTH OF MARIANA ISLANDS
21	14	33	31.8&	34.863	S	71.194	W	90					11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.9 (GUC).
21	14	36	22.4	29.807	S	71.461	W	33	N	5.1	4.9	1.0	106	NEAR COAST OF CENTRAL CHILE. Mw 5.2 (HRV). MD 5.0 (GUC). Felt (IV) at Coquimbo, Hurtado, La Serena, Monte Patria and Ovalle; (III) at Punitaqui; (II) at Copiapo and Vallenar. Centroid, Moment Tensor (HRV): Centroid origin time 14:36:31.5; Lat 29.54 S; Lon 71.80 W; Dep 51.6; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.83, Plg=70, Azm=229; (N) Val=0.44, Plg=12, Azm=355; (P) Val=-6.26, Plg=16, Azm=89; Best double couple: Mo=6.0*10**16 Nm; NP1: Strike=196, Dip=31, Slip=114; NP2: Strike=349, Dip=62, Slip=76.
21	14	45	16.2&	46.420	N	4.880	E	5	G				4	FRANCE. <STR>. ML 2.2 (STR).
21	15	28	27.9&	32.491	S	71.821	W	15					9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
21	15	46	37.0	0.312	N	122.178	E	191	D	4.8		1.0	51	MINAHASSA PENINSULA, SULAWESI
21	16	29	40.0	18.562	N	107.074	W	33	N	5.3	5.1	0.8	175	OFF COAST OF JALISCO, MEXICO. Mw 5.7 (HRV). MD 5.0 (UNM). Centroid, Moment Tensor (HRV): Centroid origin time 16:29:43.2; Lat 18.96 N; Lon 107.19 W; Dep 15.0 Fix; Half- duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=4.34, Plg=1, Azm=59; (N) Val=-0.02, Plg=88, Azm=309; (P) Val=-4.32, Plg=2, Azm=149; Best double couple: Mo=4.3*10**17 Nm; NP1: Strike=194, Dip=88, Slip=-1; NP2: Strike=284, Dip=89, Slip=-178.
21	16	31	23.2*	18.651	N	107.219	W	33	N	5.0		1.2	56	OFF COAST OF JALISCO, MEXICO
21	16	36	34.1	18.323	N	67.881	W	108		4.4		1.1	55	MONA PASSAGE. MD 4.2 (RSRP).
21	17	13	46.5&	43.940	N	6.880	E	18					5	NEAR SOUTH COAST OF FRANCE. <STR>. ML 1.9 (STR).
21	17	30	06.4*	39.688	N	74.717	E	61	?	4.0		1.4	15	SOUTHERN XINJIANG, CHINA
21	18	21	36.1*	28.442	N	86.578	E	33	N	4.1		1.2	14	XIZANG
21	18	51	16.6	4.289	N	124.765	E	33	N	5.0		1.3	30	CELEBES SEA. Mw 5.2 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 18:51:24.0; Lat 4.64 N; Lon 124.71 E; Dep 28.0; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.84, Plg=15, Azm=159; (N) Val=2.02, Plg=56, Azm=272; (P) Val=-7.85, Plg=30, Azm=60; Best double couple: Mo=6.8*10**16 Nm; NP1: Strike=203, Dip=58, Slip=-168; NP2: Strike=107, Dip=80, Slip=33.

21 19 20 54.5 36.883 N 69.853 E 33 N 4.3 1.0 25 HINDU KUSH REGION, AFGHANISTAN

21 19 25 28.0 39.260 S 174.900 E 109 14 NORTH ISLAND, NEW ZEALAND. <WEL>.

21 19 26 48.7 22.54 N 143.94 E 33 N 4.0 1.2 12 VOLCANO ISLANDS, JAPAN REGION

21 19 32 03.1 2.638 S 133.960 E 33 N 4.1 0.9 8 IRIAN JAYA REGION, INDONESIA

21 19 35 39.5 34.574 N 115.963 W 4 8 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).

21 19 42 44.5 5.614 N 125.467 E 250 G 4.1 0.8 12 MINDANAO, PHILIPPINES

21 20 00 00.4 21.718 N 143.941 E 33 N 4.4 4.2 1.2 29 MARIANA ISLANDS REGION

21 20 06 24.0 4.326 S 144.635 E 33 N 4.8 1.1 21 NEAR N COAST OF NEW GUINEA, PNG.

21 22 05 21.5 43.103 N 0.511 W 2 22 PYRENEES. <LDG>. ML 2.8 (LDG), 2.4 (STR). mbLg 2.3 (MDD).

21 22 12 32.6 22.118 N 143.677 E 117 ? 4.3 1.2 17 VOLCANO ISLANDS, JAPAN REGION

21 22 35 50.0 49.190 N 130.060 W 10 G 4.7 109 VANCOUVER ISLAND, CANADA REGION. <PGC-P>. ML 4.1 (PGC).

21 22 37 26.7 38.989 N 70.500 E 33 N 4.2 1.5 15 AFGHANISTAN-TAJIKISTAN BORD REG.

21 22 49 17.4 20.58 S 178.38 W 500 G 4.1 1.0 13 FIJI ISLANDS REGION

21 22 49 39.4 39.608 N 26.184 E 4 3.8 22 TURKEY. <ISK>. MD 3.7 (ISK). Felt at Edremit and Ezine.

21 22 58 58.9 31.786 S 119.572 E 10 G 0.9 6 WESTERN AUSTRALIA

21 23 11 35.1 15.824 N 60.610 W 10 G 0.2 10 LEeward ISLANDS. MD 2.8 (FDF).

21 23 28 06.0 49.170 N 130.220 W 10 G 14 VANCOUVER ISLAND, CANADA REGION. <PGC-P>. ML 3.2 (PGC).

21 23 29 38.1 39.506 N 120.575 W 5 G 1.0 13 NORTHERN CALIFORNIA. ML 3.2 (BRK), 3.0 (GS).

22 00 00 22.2 28.263 S 179.249 W 369 ? 4.7 1.0 59 KERMADEC ISLANDS REGION

22 00 01 41.1 31.767 S 71.879 W 28 11 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.2 (GUC).

22 00 29 19.5 21.941 N 143.542 E 33 N 4.9 1.1 56 MARIANA ISLANDS REGION. Mw 5.3 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 00:29:18.9; Lat 21.19 N; Lon 143.63 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.08, Plg=35, Azm=236; (N) Val=-0.08, Plg=23, Azm=129; (P) Val=-1.00, Plg=46, Azm=12; Best double couple: Mo=1.0*10**17 Nm; NP1: Strike=23, Dip=24, Slip=-15; NP2: Strike=126, Dip=84, Slip=-114.

22 00 37 24.7 32.052 S 111.856 W 10 G 4.7 0.7 11 SOUTHERN EAST PACIFIC RISE

22 01 27 53.3 2.018 S 139.270 E 33 N 5.1 5.1 1.1 31 NEAR NORTH COAST OF IRIAN JAYA. Mw 5.4 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 01:27:58.4; Lat 1.82 S; Lon 139.02 E; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.15, Plg=49, Azm=207; (N) Val=0.31, Plg=12, Azm=103; (P) Val=-1.46, Plg=38, Azm=3; Best double couple: Mo=1.3*10**17 Nm; NP1: Strike=39, Dip=13, Slip=26; NP2: Strike=284, Dip=84, Slip=102.

22 01 27 58.4 45.021 N 9.707 E 10 G 0.9 36 NORTHERN ITALY. ML 2.6 (LDG).

22 02 37 55.0 21.611 N 143.631 E 33 N 5.0 1.0 108 MARIANA ISLANDS REGION. Mw 5.5 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 02:37:55.2; Lat 21.48 N; Lon 143.52 E; Dep 15.0 Fix; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.82, Plg=2, Azm=260; (N) Val=-0.23, Plg=87, Azm=135; (P) Val=-1.60, Plg=3, Azm=350; Best double couple: Mo=1.7*10**17 Nm; NP1: Strike=35, Dip=87, Slip=-1; NP2: Strike=125, Dip=89, Slip=-177.

22 03 03 21.3 51.87 N 175.55 W 33 N 1.1 5 ANDREANOF ISLANDS, ALEUTIAN IS.

22 03 19 57.0 47.307 N 27.281 W 10 G 3.9 1.2 12 NORTHERN MID-ATLANTIC RIDGE

22 03 21 51.8 60.785 N 151.607 W 83 6 KENAI PENINSULA, ALASKA. <AEIC>.

22 03 47 24.0 34.047 N 117.257 W 17 9 SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).

22 03 54 14.4 51.813 N 175.126 E 33 N 4.1 0.8 14 RAT ISLANDS, ALEUTIAN ISLANDS

22 04 36 47.5 15.400 N 91.839 W 181 D 4.4 1.0 113 MEXICO-GUATEMALA BORDER REGION. MD 4.9 (UNM), 4.2 (CASC).

22 05 41 49.7 21.24 S 175.99 W 33 N 0.5 10 TONGA ISLANDS

22 06 48 21.1 16.750 N 46.401 W 10 G 4.8 1.0 32 NORTHERN MID-ATLANTIC RIDGE

22 09 09 11.3 51.488 N 15.992 E 5 G 0.8 14 POLAND. ML 3.3 (VIE).

22 09 42 59.0 8.515 S 109.225 W 10 G 4.1 1.0 14 CENTRAL EAST PACIFIC RISE

22 10 27 19.4 6.730 S 102.033 E 33 N 5.1 4.5 1.0 48 SOUTHWEST OF SUMATERA, INDONESIA. Mw 5.1 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 10:27:20.1; Lat 7.14 S; Lon 102.19 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=3.66, Plg=15, Azm=45; (N) Val=2.78, Plg=49, Azm=153; (P) Val=-6.44, Plg=37, Azm=303; Best double couple: Mo=5.1*10**16 Nm; NP1: Strike=90, Dip=52, Slip=-162; NP2: Strike=349, Dip=76, Slip=-39.

22 11 42 40.4 41.670 N 2.580 E 10 G 16 SPAIN. <STR>. ML 3.1 (STR), 2.6 (LDG). mbLg 2.4 (MDD).

22 11 55 25.6 34.598 N 25.599 E 33 N 5.1 4.9 1.2 342 CRETE, GREECE. Mw 5.3 (HRV). ML 4.9 (THE).

Centroid, Moment Tensor (HRV): Centroid origin time 11:55:31.4; Lat 34.15 N; Lon 25.35 E; Dep 33.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=0.99, Plg=48, Azm=332; (N) Val=0.27, Plg=31, Azm=104; (P) Val=-1.26, Plg=26, Azm=210; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=347, Dip=34, Slip=157; NP2: Strike=96, Dip=77, Slip=58.

22 12 00 20.6 18.747 N 66.873 W 63 7 PUERTO RICO REGION. <RSRP>. MD 2.9 (RSRP).

22 12 03 20.7 37.176 N 3.630 W 0 11 SPAIN. <MDD>. mbLg 2.0 (MDD).

22 13 33 24.3 44.946 N 10.685 E 10 G 1.4 17 NORTHERN ITALY. ML 2.8 (LDG).

22 15 29 41.4 36.411 N 71.151 E 90 ? 3.5 1.3 10 AFGHANISTAN-TAJIKISTAN BORD REG.

22 15 42 31.5 22.409 N 121.331 E 33 N 4.1 1.1 20 TAIWAN REGION. Recorded (2 TAP) at Cheng-kung, Tai-tung and Ta-wu.

22 16 00 01.5 43.023 N 146.730 E 57 * 4.6 3.7 0.7 48 KURIL ISLANDS

22 16 01 26.2 6.827 N 72.981 W 171 * 3.6 0.6 11 NORTHERN COLOMBIA

22 17 29 36.9 5.971 S 130.693 E 33 N 5.0 1.2 31 BANDA SEA

22 17 53 45.9 33.456 N 75.604 E 33 N 3.3 1.0 10 EASTERN KASHMIR

22 19 26 34.5 31.958 S 69.787 W 130 11 SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 3.2 (GUC).

22 19 28 10.1 39.160 S 174.930 E 222 15 NORTH ISLAND, NEW ZEALAND. <WEL>.

22 20 17 18.1 2.366 S 27.919 E 33 N 1.4 9 DEMOCRATIC REPUBLIC OF CONGO

22	20	53	41.4*	31.320 N	77.099 E	33 N	3.6	0.9	8	NORTHERN INDIA
22	20	53	49.4&	32.152 S	70.580 W	123			12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.8 (GUC).
22	21	01	40.0&	44.467 N	6.815 E	5			6	FRANCE. <GEN>. ML 1.8 (GEN).
22	21	36	51.7&	44.530 N	6.791 E	14			4	FRANCE. <GEN>. ML 1.6 (GEN).
22	22	21	02.3*	43.745 N	12.008 E	10 G		1.2	16	CENTRAL ITALY. ML 2.9 (LDG).
22	22	26	31.2*	43.603 N	12.144 E	10 G		1.1	15	CENTRAL ITALY. ML 2.9 (LDG).
22	22	38	15.9&	63.095 N	150.906 W	130			8	CENTRAL ALASKA. <AEIC>.
22	22	45	34.2	46.936 N	9.970 E	5 G		1.1	105	SWITZERLAND. ML 3.6 (FUR), 3.5 (VIE), 3.4 (FBB), 3.4 (LDG), 3.4 (STR).
22	23	54	50.6	32.306 S	69.776 W	136 ?		0.7	17	MENDOZA PROVINCE, ARGENTINA. MD 4.1 (GUC).
22	23	54	55.3*	31.397 N	140.723 E	104 ?	4.7	0.9	19	SOUTHEAST OF HONSHU, JAPAN
23	00	06	40.9&	40.309 N	124.550 W	21			6	NEAR COAST OF NORTHERN CALIF. <NC-P>. ML 3.2 (NC), 3.1 (BRK).
23	00	43	39.0&	18.010 N	66.668 W	36			5	PUERTO RICO REGION. <RSPR>. MD 2.2 (RSPR).
23	01	11	29.8	59.957 S	31.010 W	33 N	4.8 4.8	1.2	20	SCOTIA SEA. Mw 5.3 (HRV).
										Centroid, Moment Tensor (HRV): Centroid origin time 01:11:29.8; Lat 60.46 S; Lon 30.51 W; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.07, Plg=11, Azm=139; (N) Val=-0.21, Plg=75, Azm=277; (P) Val=-0.86, Plg=10, Azm=47; Best double couple: Mo=9.6*10**16 Nm; NP1: Strike=182, Dip=75, Slip=179; NP2: Strike=273, Dip=89, Slip=15.
23	01	31	26.9&	44.411 N	7.232 E	14			6	NORTHERN ITALY. <GEN>. ML 1.8 (GEN).
23	01	59	43.2*	60.459 S	30.941 W	33 N	4.5	1.4	16	SOUTH SANDWICH ISLANDS REGION
23	02	01	46.8*	15.624 S	167.744 E	133 ?	4.6	1.4	83	VANUATU ISLANDS
23	02	08	43.6*	49.919 N	19.264 E	5 G		1.5	6	POLAND. MG 2.6 (WAR).
23	02	50	36.3*	60.910 S	31.756 W	33 N	4.1	0.9	9	SCOTIA SEA
23	03	57	58.9	5.322 S	154.160 E	99 D	5.1	1.2	65	SOLOMON ISLANDS. Mw 5.6 (HRV).
										Centroid, Moment Tensor (HRV): Centroid origin time 03:58:04.1; Lat 5.23 S; Lon 154.04 E; Dep 98.9; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=2.93, Plg=68, Azm=223; (N) Val=0.05, Plg=3, Azm=320; (P) Val=-2.97, Plg=22, Azm=51; Best double couple: Mo=3.0*10**17 Nm; NP1: Strike=147, Dip=23, Slip=97; NP2: Strike=319, Dip=67, Slip=87.
23	04	07	06.6	47.118 N	9.491 E	5 G		1.3	111	GERMANY. ML 3.9 (VIE), 3.8 (GRF), 3.7 (FUR), 3.7 (FBB), 3.6 (LDG), 3.5 (STR). Felt (IV) in western Vorarlberg, Austria. Also felt in Liechtenstein.
23	04	44	59.1&	61.509 N	146.433 W	30			59	SOUTHERN ALASKA. <AEIC>. ML 2.8 (AEIC), 3.1 (PMR).
23	06	35	20.9*	20.726 N	143.536 E	33 N	4.7	1.2	35	MARIANA ISLANDS REGION
23	07	14	00.9&	62.422 N	151.015 W	94			60	CENTRAL ALASKA. <AEIC>.
23	07	22	24.5&	43.610 N	7.780 E	10 G			21	NEAR SOUTH COAST OF FRANCE. <STR>. ML 2.4 (GEN), 2.1 (STR), 2.1 (LDG).
23	08	34	35.4&	33.162 S	70.325 W	102			7	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
23	09	21	04.7*	38.815 N	142.220 E	33 N	3.6	1.3	13	NEAR EAST COAST OF HONSHU, JAPAN. Recorded (2 JMA) in southern Iwate and (1 JMA) in northern Miyagi Prefectures.
23	10	01	23.5&	49.451 N	5.997 E	1 G			5	FRANCE. <LDG>. ML 2.4 (LDG). Mining induced event in the Lorraine region.
23	11	27	11.5&	60.018 N	153.509 W	152			81	SOUTHERN ALASKA. <AEIC>.
23	14	46	18.8*	40.477 N	23.601 E	33 N	3.7	1.5	9	GREECE
23	15	27	42.1&	63.063 N	149.340 W	78			23	CENTRAL ALASKA. <AEIC>.
23	15	46	38.0	45.410 N	0.410 E	10 G		1.0	54	FRANCE. ML 4.1 (LDG), 3.9 (STR).
23	16	07	11.4&	61.600 N	151.940 W	115			62	SOUTHERN ALASKA. <AEIC>.
23	16	14	07.1?	5.32 S	154.09 E	111 ?	4.1	1.5	8	SOLOMON ISLANDS
23	16	15	48.2*	44.070 N	141.092 E	224 *	3.4	0.3	10	HOKKAIDO, JAPAN REGION
23	18	10	08.0&	40.610 N	109.410 W	8			12	UTAH. <SLC-P>. ML 2.9 (SLC).
23	18	56	39.8*	32.204 S	69.871 W	100 G		0.8	14	MENDOZA PROVINCE, ARGENTINA. MD 4.1 (GUC).
23	19	20	26.3	17.387 N	60.763 W	33 N	5.0 5.2	0.8	185	LEEWARD ISLANDS. Mw 5.5 (HRV).
										Centroid, Moment Tensor (HRV): Centroid origin time 19:20:32.6; Lat 17.37 N; Lon 60.43 W; Dep 28.5; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.86, Plg=57, Azm=221; (N) Val=-0.01, Plg=6, Azm=321; (P) Val=-1.85, Plg=33, Azm=55; Best double couple: Mo=1.9*10**17 Nm; NP1: Strike=167, Dip=14, Slip=117; NP2: Strike=319, Dip=78, Slip=84.
23	19	25	12.3&	46.180 N	4.320 E	5 G			15	FRANCE. <STR>. ML 2.1 (LDG), 2.1 (STR).
23	20	19	18.4*	54.809 N	159.902 W	33 N	4.0	1.2	22	SOUTH OF ALASKA
23	21	00	10.5	3.436 S	148.834 E	33 N	4.7	1.0	27	BISMARCK SEA
23	22	41	42.2*	18.680 S	178.171 W	478 ?	5.0	1.0	33	FIJI ISLANDS REGION
23	22	45	41.1*	51.683 N	16.118 E	10 G		1.2	11	POLAND. ML 3.3 (VIE).
23	23	08	07.0*	21.072 S	178.221 W	522 ?	4.5	0.9	48	FIJI ISLANDS REGION
24	00	16	57.0&	49.185 N	6.836 E	1 G			12	GERMANY. <LDG>. ML 2.2 (LDG). Mining induced event in the Lorraine region, France.
24	00	18	40.1&	32.734 S	71.744 W	13			16	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.5 (GUC).
24	00	35	13.6&	34.028 S	70.126 W	7			13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 4.0 (GUC).
24	00	44	33.5*	23.939 N	121.987 E	64 *	4.3	0.9	18	TAIWAN
24	01	13	54.4&	32.712 S	71.716 W	9			10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
24	01	50	33.6*	46.132 N	143.780 E	333	4.3	0.9	48	SAKHALIN ISLAND, RUSSIA
24	01	54	28.7&	32.737 S	71.726 W	19			7	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
24	02	36	53.1&	39.390 S	177.740 E	33 N			5	OFF E. COAST OF N. ISLAND, N.Z. <WEL>. ML 3.4 (WEL).
24	03	16	51.4*	59.178 S	26.168 W	33 N	4.4	0.9	26	SOUTH SANDWICH ISLANDS REGION
24	03	29	00.6&	33.251 S	68.638 W	4			17	MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 4.3 (GUC).
24	03	37	39.5&	46.228 N	2.076 E	5 G			10	FRANCE. <LDG>. ML 2.2 (LDG).
24	04	07	41.6?	3.49 S	148.69 E	33 N	4.5	1.4	7	BISMARCK SEA
24	05	43	21.9?	12.43 N	143.80 E	33 N	3.8	1.0	6	SOUTH OF MARIANA ISLANDS
24	05	55	14.8*	37.970 N	140.061 E	33 N	3.5	0.8	8	EASTERN HONSHU, JAPAN
24	07	17	28.7*	20.992 S	66.418 W	247 *	3.9	1.1	11	SOUTHERN BOLIVIA
24	07	20	54.9&	40.452 N	30.203 E	9			6	TURKEY. <ISK>. MD 3.0 (ISK).
24	07	48	28.2&	40.300 S	173.610 E	168			14	COOK STRAIT, NEW ZEALAND. <WEL>.
24	08	17	25.5&	49.138 N	6.822 E	1 G			8	GERMANY. <LDG>. ML 2.5 (LDG). Mining induced event in the Lorraine region, France.
24	08	26	07.7&	32.668 S	71.686 W	43			6	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
24	08	47	08.6	17.377 N	60.684 W	33 N	3.6	0.8	21	LEEWARD ISLANDS. MD 4.2 (TRN).
24	10	33	13.6&	39.292 N	29.434 E	11			6	TURKEY. <ISK>. MD 3.5 (ISK).

24	10	39	26.0%	16.730 N		93.836 W	153									9	CHIAPAS, MEXICO. <UNM>. MD 4.2 (UNM).
24	10	41	33.6%	34.788 N		116.351 W	7									26	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.9 (PAS). Felt in the epicentral area.
24	12	24	24.1%	61.704 N		150.782 W	64									63	SOUTHERN ALASKA. <AEIC>. ML 3.7 (AEIC), 3.8 (PMR).
24	12	38	40.5%	44.604 N		7.211 E	17									5	NORTHERN ITALY. <GEN>. ML 1.8 (GEN).
24	13	15	27.4%	44.622 N		7.219 E	15									11	NORTHERN ITALY. <GEN>. ML 2.0 (GEN), 2.0 (STR).
24	13	21	04.9%	44.626 N		7.239 E	15									27	NORTHERN ITALY. <GEN>. ML 2.6 (GEN), 2.6 (LDG), 2.1 (STR).
24	13	23	04.7%	44.610 N		7.173 E	24									4	NORTHERN ITALY. <GEN>. ML 1.5 (GEN).
24	13	32	26.2	51.459 N		178.379 W	50	5.1	4.4	0.9	230						ANDREANOF ISLANDS, ALEUTIAN IS. Mw 5.1 (HRV). ML 5.1 (PMR). Felt (III) on Adak. Centroid, Moment Tensor (HRV): Centroid origin time 13:32:31.1; Lat 51.57 N; Lon 178.34 W; Dep 37.1; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.23, Plg=68, Azm=340; (N) Val=-0.40, Plg=1, Azm=249; (P) Val=-4.83, Plg=22, Azm=159; Best double couple: Mo=5.0*10**16 Nm; NP1: Strike=248, Dip=23, Slip=89; NP2: Strike=69, Dip=67, Slip=91.
24	13	35	56.0%	44.620 N		7.224 E	17									4	NORTHERN ITALY. <GEN>. ML 1.5 (GEN).
24	13	48	21.9*	48.252 N		15.047 E	10 G				1.5					6	AUSTRIA. ML 2.2 (VIE).
24	13	54	05.6%	40.310 S		176.470 E	33 N									17	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 4.3 (WEL). Felt at Dannevirke.
24	13	58	07.0%	44.628 N		7.226 E	14									17	NORTHERN ITALY. <GEN>. ML 2.2 (GEN), 1.9 (LDG).
24	14	04	45.6%	32.537 S		71.774 W	4									9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
24	15	27	07.9	20.166 S		177.838 W	552 D	4.9			1.0				124	FIJI ISLANDS REGION	
24	16	17	10.6	13.448 N		89.664 W	63 D	4.7			1.3				75	EL SALVADOR	
24	17	01	07.0%	45.100 N		14.560 E	9								5	NORTHWESTERN BALKAN REGION. <ZAG>. ML 2.6 (VIE).	
24	17	04	01.5%	44.635 N		7.172 E	2								5	NORTHERN ITALY. <LDG>. ML 1.6 (LDG).	
24	17	48	39.5?	33.65 N		139.21 E	199 *	4.3			0.8				12	SOUTHEAST OF HONSHU, JAPAN	
24	18	17	44.6%	45.028 N		6.684 E	9								10	FRANCE. <GEN>. ML 2.0 (GEN), 1.7 (LDG).	
24	18	59	45.0%	19.037 N		65.395 W	25								6	Puerto Rico Region. <RSRP>. MD 3.1 (RSRP).	
24	19	24	26.3*	45.163 N		17.126 E	10 G				1.0				10	NORTHWESTERN BALKAN REGION. ML 3.2 (ZAG).	
24	20	01	50.4*	12.571 S		25.258 E	10 G	3.9			1.3				8	ZAMBIA	
24	20	19	55.8%	60.225 N		152.935 W	128								52	Southern Alaska. <AEIC>.	
24	20	22	38.1%	33.741 S		71.892 W	19								9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).	
24	21	10	04.7*	14.897 S		167.371 E	123 ?	4.6			0.7				21	VANUATU ISLANDS	
24	22	54	39.3*	56.183 S		27.637 W	148 ?	4.3			0.8				13	SOUTH SANDWICH ISLANDS REGION	
24	22	57	23.5*	6.657 S		129.899 E	33 N	4.4			0.7				10	BANDA SEA	
24	23	02	54.3%	57.650 N		156.468 W	121								18	Alaska Peninsula. <AEIC>.	
24	23	28	24.2*	52.915 N		165.030 W	33 N				1.2				10	south of Aleutian Islands	
25	00	14															

Mo=2.8*10**17 Nm; NP1: Strike=303, Dip=77, Slip=170; NP2: Strike=35, Dip=81, Slip=13.

25 14 10 24.7 6.208 S 105.194 E 52 ? 4.9 0.7 25 SUNDRA STRAIT, INDONESIA

25 14 16 01.6 19.826 S 174.195 E 33 N 5.4 5.1 1.3 142 VANUATU ISLANDS REGION. Mw 5.5 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 14:16:03.2; Lat 19.77 S; Lon 174.39 E; Dep 32.4; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.63, Plg=30, Azm=268; (N) Val=0.33, Plg=51, Azm=44; (P) Val=-1.96, Plg=22, Azm=164; Best double couple: Mo=1.8*10**17 Nm; NP1: Strike=304, Dip=51, Slip=173; NP2: Strike=38, Dip=85, Slip=39.

25 14 39 49.7* 45.300 N 16.541 E 10 G 1.0 14 NORTHWESTERN BALKAN REGION. ML 3.2 (ZAG).

25 14 41 55.9* 48.904 N 149.846 E 370 * 4.1 0.5 15 NORTHWEST OF KURIL ISLANDS

25 15 51 49.4* 55.773 N 158.324 W 33 N 3.0 1.4 11 ALASKA PENINSULA

25 15 57 27.8* 16.913 N 95.513 W 137 24 OAXACA, MEXICO. <UNM>. MD 4.5 (UNM).

25 16 54 47.8* 6.013 N 126.125 E 158 * 4.4 0.8 20 MINDANAO, PHILIPPINES

25 17 22 45.7* 22.116 S 179.714 W 608 ? 4.5 0.9 32 SOUTH OF FIJI ISLANDS

25 18 00 24.3* 23.993 S 179.849 E 550 ? 4.4 0.8 23 SOUTH OF FIJI ISLANDS

25 18 35 36.5* 40.810 N 32.950 E 10 3.8 34 TURKEY. <ISK>. MD 4.0 (ISK).

25 20 03 01.2* 11.190 N 61.975 W 100 5 WINDWARD ISLANDS. <TRN>. MD 3.0 (TRN).

25 20 05 51.2* 33.845 S 71.840 W 26 9 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).

25 20 27 14.7* 49.176 N 6.853 E 1 G 8 GERMANY. <LDG>. MD 2.4 (LDG). Mining induced event in the Lorraine region, France.

25 21 15 13.2 48.472 N 15.003 E 5 G 1.2 8 AUSTRIA. ML 2.5 (VIE), 2.2 (FUR).

25 21 17 04.6* 8.890 N 39.943 W 10 G 4.3 1.0 10 CENTRAL MID-ATLANTIC RIDGE

25 21 34 36.4* 8.78 N 39.77 W 10 G 4.2 1.4 8 CENTRAL MID-ATLANTIC RIDGE

25 22 24 36.2* 10.922 N 62.847 W 3 6 NEAR COAST OF VENEZUELA. <TRN>. MD 3.7 (TRN).

25 22 48 02.0* 9.845 S 158.944 E 33 N 4.7 1.1 27 SOLOMON ISLANDS

25 23 20 03.5* 14.572 N 144.279 E 33 N 4.2 1.0 9 MARIANA ISLANDS

25 23 34 12.8* 44.859 N 6.705 E 5 18 FRANCE. <GEN>. MD 2.3 (LDG). ML 2.1 (GEN).

25 23 38 52.6* 57.340 N 145.997 W 10 G 2.7 0.6 25 GULF OF ALASKA

25 23 52 20.0* 49.160 N 6.810 E 1 G 16 GERMANY. <FBB>. ML 2.5 (LDG), 2.0 (FBB). Mining induced event in the Lorraine region, France.

25 23 56 36.3* 44.864 N 6.696 E 8 17 FRANCE. <GEN>. MD 2.3 (LDG). ML 2.2 (GEN).

26 00 43 48.4* 37.216 N 44.654 E 33 N 4.1 1.2 9 TURKEY-IRAN BORDER REGION. Felt at Orumiyeh, Iran and at Semdinli and Yuksekova, Turkey.

26 00 46 53.5* 44.853 N 6.692 E 4 9 FRANCE. <GEN>. ML 1.9 (GEN).

26 00 50 02.8* 44.861 N 6.653 E 5 16 FRANCE. <GEN>. MD 2.4 (LDG). ML 2.2 (GEN).

26 00 55 01.3* 44.844 N 6.689 E 7 4 FRANCE. <GEN>. ML 1.7 (GEN).

26 01 21 54.0 54.897 N 161.019 E 100 4.3 0.9 26 NEAR EAST COAST OF KAMCHATKA

26 01 31 59.3 54.495 N 161.124 W 33 N 4.8 1.1 66 ALASKA PENINSULA. ML 4.3 (PMR).

26 01 39 26.3* 18.139 N 65.648 W 0 8 PUERTO RICO REGION. <RSFR>. MD 2.7 (RSFR).

26 02 17 42.3* 43.050 N 0.620 W 1 G 7 PYRENEES. <STR>. ML 2.2 (STR), 1.7 (LDG).

26 02 56 04.3* 40.910 S 174.480 E 71 16 COOK STRAIT, NEW ZEALAND. <WEL>.

26 03 01 00.8* 30.243 N 103.612 W 5 G 1.3 6 WESTERN TEXAS. mbLg 2.8 (GS). Felt at Alpine.

26 03 03 40.4* 40.785 N 30.832 E 10 G 3.8 1.2 7 TURKEY

26 03 26 18.0* 31.799 S 69.989 W 150 11 SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 3.5 (GUC).

26 03 39 51.5 41.706 N 19.499 E 10 G 0.9 22 ALBANIA

26 03 53 15.6* 44.733 N 7.297 E 22 18 NORTHERN ITALY. <GEN>. MD 2.4 (LDG). ML 2.2 (GEN).

26 04 04 34.8 28.494 N 82.145 E 33 N 4.6 1.1 75 NEPAL

26 04 32 59.6* 38.608 N 66.145 E 33 N 0.7 7 SOUTHEASTERN UZBEKISTAN

26 04 52 44.4* 14.019 N 92.107 W 28 21 NEAR COAST OF CHIAPAS, MEXICO. <UNM>. MD 4.6 (UNM).

26 06 19 02.7* 62.586 S 162.066 E 33 N 4.9 1.0 9 BALLENY ISLANDS REGION

26 06 52 16.1* 19.32 S 173.96 E 33 N 4.2 1.2 13 VANUATU ISLANDS REGION

26 07 02 28.0* 10.791 N 62.443 W 31 5 NEAR COAST OF VENEZUELA. <TRN>. MD 3.1 (TRN).

26 07 15 54.2* 44.865 N 149.449 E 52 * 4.1 1.2 22 KURIL ISLANDS

26 07 41 13.3* 45.581 N 13.221 E 10 G 0.8 13 NORTHERN ITALY

26 07 44 08.7* 33.836 N 6.095 W 0 G 13 MOROCCO. <MDD>. ML 2.2 (MDD).

26 08 11 48.4 13.795 N 144.782 E 132 D 6.0 5.4 1.1 320 MARIANA ISLANDS. Mw 6.2 (GS), 6.2 (HRV). Me 5.6 (GS). Several people slightly injured on Guam. Minor damage to one school at Santa Rita. Power outage and water line broken in the Yona area. Felt strongly on Guam and Saipan. Broadband Source Parameters (GS): Dep 114; NP1: Strike=240, Dip=90, Slip=-130; NP2: Strike=150, Dip=40, Slip=0; Radiated energy 6.4*10**12 Nm. Two events about 1.5 seconds apart. Depth based on first event. Moment Tensor (GS): Dep 116; Principal axes (scale 10**18 Nm): (T) Val=2.19, Plg=26, Azm=20; (N) Val=0.00, Plg=48, Azm=258; (P) Val=-2.19, Plg=31, Azm=127; Best double couple: Mo=2.2*10**18 Nm; NP1: Strike=161, Dip=48, Slip=-4; NP2: Strike=254, Dip=87, Slip=-138. Centroid, Moment Tensor (HRV): Centroid origin time 08:11:53.2; Lat 13.79 N; Lon 144.98 E; Dep 125.9; Half-duration 3.1 sec; Principal axes (scale 10**18 Nm): (T) Val=2.07, Plg=24, Azm=21; (N) Val=0.04, Plg=45, Azm=264; (P) Val=-2.11, Plg=35, Azm=129; Best double couple: Mo=2.1*10**18 Nm; NP1: Strike=161, Dip=46, Slip=-9; NP2: Strike=257, Dip=83, Slip=-135.

26 08 18 37.6 37.304 N 44.760 E 33 N 4.6 5.2 0.9 71 TURKEY-IRAN BORDER REGION. MD 5.0 (ISK). Felt at Orumiyeh, Iran and at Semdinli and Yuksekova, Turkey.

26 08 23 22.7* 22.241 N 121.374 E 33 N 4.1 0.7 11 TAIWAN REGION

26 08 39 06.6* 45.889 N 6.671 E 2 19 FRANCE. <LDG>. MD 2.6 (LDG). ML 2.6 (STR).

26 08 59 44.0 46.087 N 14.338 E 10 G 0.2 8 NORTHWESTERN BALKAN REGION. ML 2.3 (VIE), 1.7 (LJU).

26 10 41 38.8* 37.269 N 44.539 E 33 N 4.1 1.4 12 TURKEY-IRAN BORDER REGION. Felt at Orumiyeh, Iran and at Semdinli and Yuksekova, Turkey.

26 12 00 47.0* 18.934 N 65.903 W 77 9 PUERTO RICO REGION. <RSFR>. MD 3.9 (RSFR).

26 12 11 57.8 11.538 N 142.073 E 33 N 5.2 5.1 1.2 123 SOUTH OF MARIANA ISLANDS

26 12 13 56.9* 37.33 N 143.96 E 33 N 3.8 0.8 9 OFF EAST COAST OF HONSHU, JAPAN

26 12 46 49.5* 8.73 S 74.60 W 154 ? 3.5 0.9 8 PERU-BRAZIL BORDER REGION

26 13 11 16.8* 62.840 N 150.844 W 94 45 CENTRAL ALASKA. <AEIC>.

26 13 33 51.6* 60.608 N 146.581 W 18 2.7 35 SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC), 2.9 (PMR).

26 13 35 31.2* 59.374 N 152.928 W 90 18 SOUTHERN ALASKA. <AEIC>.

26 13 37 07.9 54.556 N 161.625 W 57 4.7 1.0 135 ALASKA PENINSULA. ML 5.0 (AEIC), 4.8 (PMR).

26	14	07	23.6	35.431 N	26.642 E	75 *	3.9	1.0	51	CRETE, GREECE. MD 3.8 (ISK).
26	14	39	36.1	38.510 S	175.750 E	159			18	NORTH ISLAND, NEW ZEALAND. <WEL>.
26	15	03	25.1*	34.575 N	135.921 E	33 N	4.2	1.1	6	NEAR S. COAST OF WESTERN HONSHU. Felt at Kyoto. Recorded (2 JMA) in Kyoto, southern Fukui, eastern Hyogo, northern Nara and northern Osaka Prefectures.
26	15	05	48.0	18.134 N	100.891 W	92			18	GUERRERO, MEXICO. <UNM>. MD 3.9 (UNM).
26	15	40	57.9*	46.901 N	10.237 E	5 G		0.2	5	NORTHERN ITALY. ML 2.0 (VIE).
26	17	03	16.8	10.188 S	161.016 E	86 D	5.3	0.9	95	SOLOMON ISLANDS. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 17:03:19.4; Lat 10.36 S; Lon 161.43 E; Dep 100.2; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.48, Plg=3, Azm=243; (N) Val=2.69, Plg=42, Azm=151; (P) Val=-8.17, Plg=48, Azm=336; Best double couple: Mo=6.8*10**16 Nm; NP1: Strike=8, Dip=56, Slip=-36; NP2: Strike=120, Dip=61, Slip=-140.
26	18	23	42.0	32.744 S	71.708 W	15			9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
26	18	24	39.2	9.406 N	78.532 W	65 G	5.8 5.4	1.1	343	PANAMA. Mw 6.1 (GS), 6.1 (HRV). Me 6.0 (GS). Minor damage to some buildings at Panama City. Felt strongly in Colon and San Blas Provinces. Also felt at Cartagena, Colombia. Broadband Source Parameters (GS): Dep 65; NP1: Strike=345, Dip=65, Slip=-120; NP2: Strike=219, Dip=38, Slip=-43; Radiated energy 2.3*10**13 Nm. Moment Tensor (GS): Dep 65; Principal axes (scale 10**18 Nm): (T) Val=1.90, Plg=17, Azm=93; (N) Val=-0.34, Plg=20, Azm=356; (P) Val=-1.56, Plg=63, Azm=220; Best double couple: Mo=1.7*10**18 Nm; NP1: Strike=212, Dip=33, Slip=-50; NP2: Strike=347, Dip=65, Slip=-113. Centroid, Moment Tensor (HRV): Centroid origin time 18:24:46.0; Lat 9.45 N; Lon 78.47 W; Dep 68.0 Bdy; Half-duration 2.7 sec; Principal axes (scale 10**18 Nm): (T) Val=1.61, Plg=18, Azm=101; (N) Val=0.06, Plg=29, Azm=1; (P) Val=-1.67, Plg=55, Azm=219; Best double couple: Mo=1.6*10**18 Nm; NP1: Strike=228, Dip=37, Slip=-37; NP2: Strike=349, Dip=69, Slip=-121.
26	19	27	59.4*	4.019 S	68.420 E	10 G	4.6	1.2	15	CHAGOS ARCHIPELAGO REGION
26	20	04	12.9	49.201 N	6.850 E	1 G			6	GERMANY. <LDG>. ML 2.0 (LDG). Mining induced event in the Lorraine region, France.
26	20	29	00.8	43.560 N	127.651 W	10 G	3.7	0.5	54	OFF COAST OF OREGON
26	21	07	58.9	61.374 N	146.726 W	22			44	SOUTHERN ALASKA. <AEIC>. ML 2.9 (AEIC), 3.2 (PMR).
26	22	03	01.5*	43.27 N	149.86 E	33 N		1.4	10	EAST OF KURIL ISLANDS
26	22	45	11.5	40.600 S	173.540 E	161			14	COOK STRAIT, NEW ZEALAND. <WEL>.
26	23	03	00.4*	16.849 S	167.270 E	33 N	4.6	1.1	33	VANUATU ISLANDS
27	00	06	08.7	39.834 N	140.218 E	144	3.9	0.8	37	EASTERN HONSHU, JAPAN
27	00	51	14.9*	14.454 S	166.949 E	33 N	4.4	1.0	28	VANUATU ISLANDS
27	01	27	12.1	15.213 N	93.420 W	32	3.8		16	NEAR COAST OF CHIAPAS, MEXICO. <UNM>. MD 4.3 (UNM).
27	02	22	14.6	60.292 N	146.072 W	33 N	5.0 4.5	0.9	268	SOUTHERN ALASKA. Mw 5.1 (HRV). ML 5.2 (PMR), 4.8 (AEIC). Felt at Cordova and Glennallen. Centroid, Moment Tensor (HRV): Centroid origin time 02:22:19.0; Lat 60.83 N; Lon 145.20 W; Dep 33.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.75, Plg=46, Azm=5; (N) Val=-0.49, Plg=10, Azm=264; (P) Val=-4.26, Plg=42, Azm=165; Best double couple: Mo=4.5*10**16 Nm; NP1: Strike=184, Dip=10, Slip=10; NP2: Strike=85, Dip=88, Slip=100.
27	03	05	18.2*	12.90 N	88.90 W	33 N	4.1	1.0	14	OFF COAST OF CENTRAL AMERICA
27	04	22	47.7*	52.007 N	173.292 W	55 D	4.2	1.0	13	ANDREANOF ISLANDS, ALEUTIAN IS.
27	04	40	33.3	45.130 N	3.320 E	2 G			8	FRANCE. <STR>. ML 1.8 (STR), 1.5 (LDG).
27	06	24	09.0*	32.27 S	179.76 E	350 G		1.5	17	SOUTH OF KERMADEC ISLANDS
27	06	53	59.4	62.121 N	150.283 W	59			73	CENTRAL ALASKA. <AEIC>. ML 3.1 (AEIC), 3.3 (PMR).
27	07	18	39.9	63.106 N	151.212 W	25			43	CENTRAL ALASKA. <AEIC>. ML 2.5 (AEIC), 3.1 (PMR).
27	07	39	59.8	59.892 N	153.319 W	126			55	SOUTHERN ALASKA. <AEIC>.
27	09	06	48.1*	47.449 N	147.012 E	397 *	3.4	1.0	12	NORTHWEST OF KURIL ISLANDS
27	09	08	51.2	17.307 N	101.540 W	6			16	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.1 (UNM).
27	09	19	01.8	14.072 N	60.372 W	85			17	WINDWARD ISLANDS. <TRN>.
27	09	20	01.1	44.738 N	15.148 E	10 G		0.8	13	NORTHWESTERN BALKAN REGION. ML 2.9 (ZAG).
27	09	51	57.6*	22.89 S	171.46 E	33 N		1.3	11	SOUTHEAST OF LOYALTY ISLANDS
27	10	12	00.4	60.302 N	146.047 W	0			7	SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).
27	11	16	43.2*	51.575 N	175.649 W	33 N	4.1	1.1	14	ANDREANOF ISLANDS, ALEUTIAN IS.
27	11	26	33.4	31.725 S	70.553 W	105			13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.5 (GUC).
27	11	29	40.8	14.986 S	167.348 E	127 *	4.5	0.8	49	VANUATU ISLANDS
27	12	03	59.3	10.645 N	121.970 E	33 N	4.9 5.0	1.2	56	PANAY, PHILIPPINES. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 12:04:02.8; Lat 11.35 N; Lon 122.17 E; Dep 54.8; Half-duration 1.4 sec; Principal axes (scale 10**16 Nm): (T) Val=6.70, Plg=83, Azm=188; (N) Val=1.17, Plg=6, Azm=26; (P) Val=-7.88, Plg=2, Azm=296; Best double couple: Mo=7.3*10**16 Nm; NP1: Strike=19, Dip=43, Slip=81; NP2: Strike=212, Dip=47, Slip=99.
27	14	12	18.4	43.870 N	7.440 E	2 G			12	NEAR SOUTH COAST OF FRANCE. <STR>. ML 1.8 (STR), 1.7 (LDG).
27	15	10	26.1	21.612 N	143.593 E	33 N	4.9 4.9	1.0	83	MARIANA ISLANDS REGION
27	15	27	35.9*	6.622 S	147.799 E	81 *	4.4	0.8	17	EASTERN NEW GUINEA REG., P.N.G.
27	15	59	05.0	43.160 N	0.650 W	10			12	PYRENEES. <STR>. ML 2.3 (STR), 1.8 (LDG). mbLg 2.0 (MDD).
27	16	10	41.7	7.917 N	82.873 W	33 N	5.4 4.7	0.9	359	SOUTH OF PANAMA. Mw 5.4 (HRV). MD 5.0 (CASC). Felt in Bocas del Toro, Chiriqui and Veraguas Provinces. Also felt at Coto Brus, Golfito, Neily and Puerto Jimenez, Costa Rica. Centroid, Moment Tensor (HRV): Centroid origin time 16:10:45.0; Lat 7.96 N; Lon 82.88 W; Dep 15.0 Fix; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.43, Plg=71, Azm=37; (N) Val=0.08, Plg=4, Azm=139; (P) Val=-1.51, Plg=18, Azm=230; Best double couple: Mo=1.5*10**17 Nm; NP1: Strike=326, Dip=27, Slip=99; NP2: Strike=137, Dip=63, Slip=86.
27	16	34	00.0*	54.979 N	165.478 E	33 N	3.1	1.1	7	KOMANDORSKY ISLANDS REGION

27	17	06	20.6?	36.65 N	71.08 E	240 ?	3.1	1.1	9	AFGHANISTAN-TAJIKISTAN BORD REG.
27	17	21	28.0	23.070 N	94.196 E	74 D	5.1	0.8	243	MYANMAR-INDIA BORDER REGION
27	17	49	02.9%	34.43? S	148.356 E	10 G		1.1	8	NEW SOUTH WALES, AUSTRALIA. ML 3.1 (AUST). Felt.
27	18	02	58.1	10.835 S	166.096 E	83 D	5.0	0.8	43	SANTA CRUZ ISLANDS
27	18	30	16.8*	17.547 N	60.469 W	28	3.3	0.6	13	LEEWARD ISLANDS
27	19	15	53.6%	60.309 N	152.693 W	117	3.2		83	SOUTHERN ALASKA. <AEIC>.
27	20	05	16.2%	59.553 N	153.395 W	121			40	SOUTHERN ALASKA. <AEIC>.
27	22	00	00.4	9.625 N	77.819 W	33 N	3.7	0.8	18	NEAR NORTH COAST OF COLOMBIA. MD 4.3 (CASC).
27	22	05	42.6%	61.925 N	148.564 W	21			55	SOUTHERN ALASKA. <AEIC>. ML 2.9 (AEIC), 3.2 (PMR).
27	22	20	15.9?	5.43 S	80.47 W	100 G	4.2	1.0	12	NEAR COAST OF NORTHERN PERU
27	22	26	24.0%	44.310 N	116.250 W	10 G			7	WESTERN IDAHO. <BSE-P>. ML 3.1 (BSE).
27	23	26	30.5%	33.160 S	72.005 W	6			11	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
27	23	26	45.9%	36.074 N	117.605 W	0			7	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 2.8 (PAS).
27	23	29	46.3%	36.077 N	117.604 W	0			9	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 2.8 (PAS).
27	23	38	09.8%	17.827 N	60.985 W	16	5.0 4.6	1.0	160	LEEWARD ISLANDS. <TRN>. MD 4.6 (TRN).
28	00	55	15.8*	57.735 S	25.502 W	33 N	4.5	0.9	10	SOUTH SANDWICH ISLANDS REGION
28	01	52	02.7*	27.593 S	65.570 E	10 G	4.7	1.0	15	INDIAN OCEAN TRIPLE JUNCTION
28	03	32	16.0*	44.014 N	11.565 E	10 G		0.9	15	NORTHERN ITALY. ML 2.8 (LDG).
28	04	00	31.5%	37.170 N	3.620 W	0 G			9	SPAIN. <MDD>. mbLg 1.8 (MDD).
28	04	24	33.5%	60.596 N	152.126 W	111	3.9		73	SOUTHERN ALASKA. <AEIC>.
28	04	24	39.9	36.100 N	26.517 E	129	4.4	0.9	129	DODECANESE ISLANDS, GREECE. MD 3.8 (ISK).
28	05	20	32.4*	21.630 N	143.895 E	33 N	4.3	1.2	23	MARIANA ISLANDS REGION
28	05	20	47.4%	44.459 N	7.347 E	4			7	NORTHERN ITALY. <GEN>. ML 1.8 (GEN).
28	07	42	02.7%	18.737 N	66.642 W	75			6	PUERTO RICO REGION. <RSPPR>. MD 3.0 (RSPPR).
28	07	45	00.6	37.051 N	27.495 E	10 G	4.3	1.2	39	TURKEY. MD 3.8 (ISK). ML 3.8 (CSS).
28	07	53	57.0*	53.105 N	171.021 E	33 N	4.2	1.0	23	NEAR ISLANDS, ALEUTIAN ISLANDS. ML 3.9 (PMR).
28	08	57	30.9*	39.587 N	73.803 E	52 *	4.2	1.1	10	TAJIKISTAN-XINJIANG BORDER REG.
28	09	08	54.0*	51.743 N	104.882 E	10 G	3.7	1.5	8	LAKE BAYKAL REGION, RUSSIA
28	09	33	12.9*	31.421 S	69.659 W	100 G		0.8	11	SAN JUAN PROVINCE, ARGENTINA
28	09	45	08.2	21.762 S	175.290 W	33 N	5.4 5.3	1.0	144	TONGA ISLANDS. Mw 5.7 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 09:45:12.6; Lat 22.11 S; Lon 174.44 W; Dep 15.0 Fix; Half- duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=3.89, Plg=70, Azm=297; (N) Val=0.35, Plg=2, Azm=201; (P) Val=-4.24, Plg=20, Azm=111; Best double couple: Mo=4.1*10**17 Nm; NP1: Strike=197, Dip=25, Slip=85; NP2: Strike=22, Dip=65, Slip=92.										
28	09	45	34.6%	43.791 N	11.687 E	10 G		0.7	8	CENTRAL ITALY
28	10	17	00.3%	33.900 S	72.220 W	15			9	OFF COAST OF CENTRAL CHILE. <GUC>.
28	11	08	14.0	53.973 N	163.803 E	33 N	3.6	0.5	12	OFF EAST COAST OF KAMCHATKA
28	11	54	31.2%	44.519 N	6.945 E	6			24	FRANCE. <GEN>. ML 2.3 (GEN), 2.2 (LDG), 2.1 (STR).
28	12	47	15.9%	44.515 N	6.941 E	4			6	FRANCE. <GEN>. ML 1.8 (GEN).
28	12	47	28.1%	44.490						

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 February 2000

Earthquake epicenters in Alaska and adjacent regions for February 2000

Earthquake epicenters in the conterminous United States and adjacent regions for February 2000

Earthquakes located worldwide in February 2000

Preliminary Determination of Epicenters

Monthly Listing

National Earthquake Information Center

MARCH 2000

ORIGIN TIME				GEOGRAPHIC		DEPTH	MAGNITUDE	SD	NO.	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS		
UTC				COORDINATES			GS		STA			
DAY	HR	MIN	SEC	LAT	LONG		MB Msz		USED			
01	01	17	47.1*	51.340 N	16.024 E	5 G		1.5	8	POLAND. ML 3.2 (VIE).		
01	02	05	00.4	11.577 N	142.110 E	33 N	5.1 4.7	1.0	77	SOUTH OF MARIANA ISLANDS. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 02:05:01.4; Lat 11.36 N; Lon 142.45 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.00, Plg=60, Azm=112; (N) Val=-0.48, Plg=28, Azm=311; (P) Val=-0.53, Plg=8, Azm=217; Best double couple: Mo=7.6*10**16 Nm; NPl: Strike=278, Dip=44, Slip=48; NP2: Strike=150, Dip=59, Slip=123.		
01	02	06	23.7?	17.88 N	83.33 W	33 N	4.0	0.7	10	NORTH OF HONDURAS		
01	04	21	01.3	19.005 S	179.361 W	675 D	5.3	0.9	221	FIJI ISLANDS REGION. Mw 5.8 (GS), 5.8 (HRV). Moment Tensor (GS): Dep 679; Principal axes (scale 10**17 Nm): (T) Val=5.49, Plg=83, Azm=166; (N) Val=0.21, Plg=4, Azm=44; (P) Val=-5.69, Plg=6, Azm=313; Best double couple: Mo=5.6*10**17 Nm; NPl: Strike=39, Dip=39, Slip=84; NP2: Strike=227, Dip=51, Slip=95. Centroid, Moment Tensor (HRV): Centroid origin time 04:21:07.1; Lat 19.04 S; Lon 179.08 W; Dep 686.4; Half-duration 1.9 sec; Principal axes (scale 10**17 Nm): (T) Val=4.98, Plg=84, Azm=182; (N) Val=1.32, Plg=3, Azm=60; (P) Val=-6.30, Plg=5, Azm=330; Best double couple: Mo=5.6*10**17 Nm; NPl: Strike=56, Dip=40, Slip=85; NP2: Strike=243, Dip=51, Slip=94.		
01	04	46	29.5	19.103 S	179.361 W	672 D	5.2	0.9	164	FIJI ISLANDS REGION. Mw 5.6 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 04:46:33.5; Lat 19.19 S; Lon 179.20 W; Dep 687.7; Half-duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=2.86, Plg=24, Azm=58; (N) Val=0.76, Plg=65, Azm=223; (P) Val=-3.63, Plg=6, Azm=325; Best double couple: Mo=3.2*10**17 Nm; NPl: Strike=99, Dip=69, Slip=166; NP2: Strike=194, Dip=77, Slip=22.		
01	06	03	00.3	40.453 N	127.264 W	10 G	4.2	1.1	41	OFF COAST OF NORTHERN CALIFORNIA		
01	06	05	16.1*	4.756 S	140.362 E	33 N	4.4	1.4	17	IRIAN JAYA, INDONESIA		
01	06	19	15.4*	44.519 N	6.922 E				5	FRANCE. <GEN>. ML 1.7 (GEN).		
01	06	42	25.2?	65.19 N	152.16 W	5 G		1.8	7	NORTHERN ALASKA. ML 2.7 (PMR), 2.5 (AEIC).		
01	06	43	35.7*	44.510 N	6.934 E				5	FRANCE. <GEN>. ML 2.3 (GEN), 2.2 (STR), 2.2 (LDG).		
01	06	48	40.6*	60.244 N	141.919 W				0	SOUTHEASTERN ALASKA. <AEIC>. ML 2.9 (AEIC).		
01	06	50	54.6*	44.517 N	6.984 E				8	FRANCE. <GEN>. ML 1.9 (GEN).		
01	06	51	15.4*	60.211 N	141.850 W				0	SOUTHEASTERN ALASKA. <AEIC>. ML 2.5 (AEIC).		
01	07	00	28.5*	44.503 N	6.875 E				1	FRANCE. <GEN>. ML 1.9 (GEN).		
01	08	06	01.8*	44.515 N	6.941 E				4	FRANCE. <GEN>. ML 1.8 (GEN).		
01	08	09	10.5*	33.836 S	71.226 W				59	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.2 (GUC).		
01	08	48	00.6*	52.306 S	14.510 E	10 G	5.0 4.6	1.1	35	SOUTHWEST OF AFRICA. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 08:48:06.4; Lat 52.18 S; Lon 14.18 E; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**16 Nm): (T) Val=5.25, Plg=20, Azm=30; (N) Val=0.31, Plg=9, Azm=123; (P) Val=-5.56, Plg=68, Azm=236; Best double couple: Mo=5.4*10**16 Nm; NPl: Strike=105, Dip=26, Slip=-110; NP2: Strike=307, Dip=65, Slip=-80.		
01	08	52	39.4*	59.250 N	152.673 W	67			19	SOUTHERN ALASKA. <AEIC>. ML 2.8 (AEIC).		
01	09	26	40.5*	49.459 N	157.069 E	33 N	3.5	1.5	12	EAST OF KURIL ISLANDS		
01	09	28	27.3*	49.615 N	156.054 E	86 *	4.0	1.3	17	KURIL ISLANDS		
01	09	31	07.0?	21.11 S	68.13 W	160 ?	3.6	1.2	6	CHILE-BOLIVIA BORDER REGION		
01	09	39	17.2*	54.853 N	159.495 E	232		0.9	12	NEAR EAST COAST OF KAMCHATKA		
01	10	39	58.1*	4.701 S	140.211 E	33 N	4.4	1.2	16	IRIAN JAYA, INDONESIA		
01	10	52	15.3*	60.309 N	148.289 W	8	2.7		36	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.7 (AEIC), 3.2 (PMR).		
01	12	23	58.7*	52.692 N	160.270 E	50 *		1.1	11	OFF EAST COAST OF KAMCHATKA		
01	13	32	32.9	49.232 N	156.321 E	33 N	4.7 4.3	1.1	73	KURIL ISLANDS		
01	13	45	46.5*	45.701 N	15.242 E	10 G		0.8	5	NORTHWESTERN BALKAN REGION. ML 1.8 (VIE), 1.4 (LJU). Felt (III) at Podgrad, Slovenia.		

01	14	28	58.7°	3.712 S	131.313 E	33 N	4.4	1.1	16	IRIAN JAYA REGION, INDONESIA
01	14	52	55.5°	14.563 N	146.709 E	33 N	4.6	4.4	0.8	36
01	16	01	20.1°	48.450 N	7.230 E	2 G				6
01	17	29	05.1°	32.721 S	71.752 W	15				12
01	18	48	01.6°	23.301 S	168.732 E	33 N	4.6	1.3	22	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.2 (GUC).
01	19	37	57.6°	35.611 S	71.828 W	130				11
01	20	06	27.9°	28.400 N	52.846 E	33 N	5.1	4.7	1.0	163
CENTROID, MOMENT TENSOR (HRV): Centroid origin time 20:06:32.2; Lat 28.40 N Fix; Lon 52.85 E Fix; Dep 15.0; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.60, Plg=63, Azm=201; (N) Val=-1.13, Plg=14, Azm=81; (P) Val=-3.47, Plg=23, Azm=345; Best double couple: Mo=4.0*10**16 Nm; NP1: Strike=49, Dip=26, Slip=55; NP2: Strike=267, Dip=69, Slip=106.										
01	20	44	38.1°	10.59 S	75.19 W	33 N	4.1	0.6	10	CENTRAL PERU. Felt (IV) at Oxapampa and (III) at Villa Rica.
01	23	05	14.5°	60.167 N	145.887 W	20 G	5.5	5.0	406	SOUTHERN ALASKA. <AEIC>. Mw 5.5 (GS), 5.5 (HRV). ML 5.2 (AEIC), 5.3 (PMR). Felt (IV) at Cordova and (III) at Anchorage. Also felt at Valdez.
Moment Tensor (GS): Dep 17; Principal axes (scale 10**17 Nm): (T) Val=1.77, Plg=47, Azm=346; (N) Val=0.00, Plg=11, Azm=244; (P) Val=-1.77, Plg=41, Azm=144; Best double couple: Mo=1.8*10**17 Nm; NP1: Strike=168, Dip=12, Slip=14; NP2: Strike=64, Dip=87, Slip=101.										
Centroid, Moment Tensor (HRV): Centroid origin time 23:05:16.9; Lat 60.15 N; Lon 145.60 W; Dep 15.0 Bdy; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.58, Plg=53, Azm=330; (N) Val=0.15, Plg=2, Azm=62; (P) Val=-1.74, Plg=37, Azm=153; Best double couple: Mo=1.7*10**17 Nm; NP1: Strike=253, Dip=8, Slip=101; NP2: Strike=62, Dip=82, Slip=88.										
01	23	18	39.6°	13.91 N	91.42 W	70 D	3.9	1.4	16	NEAR COAST OF GUATEMALA
01	23	31	21.5°	16.218 N	96.848 W	33 N	4.9	1.3	88	OAXACA, MEXICO. MD 4.7 (UNM). Felt at Puerto Escondido.
01	23	37	05.4°	14.356 N	146.623 E	48 *	4.9	4.9	0.9	60
02	00	20	37.3°	61.565 N	148.721 W	29				9
02	01	43	13.1°	59.703 N	153.240 W	105	3.1			56
02	01	53	14.1°	23.335 S	66.673 W	215 *	3.4	1.2	11	SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).
02	02	44	51.7°	2.58 S	27.83 E	10 G	5.4	4.5	0.9	115
02	02	56	30.6°	51.143 N	15.762 E	5 G				8
02	03	10	57.0°	10.01 N	104.13 W	10 G	4.0	1.3	8	DEMOCRATIC REPUBLIC OF CONGO
02	03	50	37.5°	34.044 S	72.048 W	46				12
02	04	14	26.7°	28.435 S	69.120 W	108 *			1.2	12
02	04	24	18.8°	13.561 N	57.341 E	10 G	4.7	1.4	18	CHILE-ARGENTINA BORDER REGION
02	04	29	48.5°	2.371 S	28.026 E	10 G	5.0	4.1	0.9	69
02	04	43	37.2°	37.797 S	74.900 W	33 N	4.2	0.6	24	OWEN FRACTURE ZONE REGION
02	04	46	16.1°	32.809 S	70.180 W	105				14
02	04	51	14.9°	60.154 N	152.388 W	81				50
02	05	15	25.0°	32.033 S	71.526 W	26				16
02	06	03	03.8°	26.111 N	111.670 W	10 G	4.4	1.2	51	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
02	06	22	18.3°	44.519 N	9.655 E	0				88
02	07	27	19.0°	44.499 N	9.641 E	6				51
02	09	31	56.4°	59.937 N	152.688 W	87				45
02	11	45	07.9°	55.589 N	162.378 E	33 N				11
02	13	13	11.4°	63.211 N	150.617 W	132	4.3			127
02	13	27	43.0°	40.280 N	124.410 W	21				8
02	14	58	15.2°	18.885 N	65.178 W	42				8
02	15	00	34.0°	36.081 N	117.601 W	0				40
02	16	10	40.4°	37.850 S	177.780 E	245				9
02	17	09	27.9°	36.075 N	117.601 W	0				22
02	17	20	59.4°	10.886 N	62.395 W	84				7
02	18	15	34.1°	13.890 N	145.251 E	119	4.6	0.9	27	NEAR COAST OF VENEZUELA. <TRN>. MD 3.2 (TRN).
02	19	04	27.6°	51.142 N	15.775 E	5 G			0.5	6
02	19	20	15.6°	16.072 N	97.027 W	16				18
CENTRAL ALASKA. <AEIC>. ML 3.4 (LDG), 3.4 (STR).										
NORTHERN ITALY. <GEN>. ML 3.2 (LDG), 3.0 (GEN), 2.9 (STR).										
SOUTHERN ALASKA. <AEIC>.										
NEAR EAST COAST OF KAMCHATKA										
NEAR COAST OF NORTHERN CALIF. <NC-P>. ML 2.9 (NC), 3.2 (BRK).										
PUERTO RICO REGION. <RSRP>. MD 3.7 (RSRP).										
CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 4.0 (PAS).										
OFF E. COAST OF N. ISLAND, N.Z. <WEL>.										
CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.5 (PAS).										
NEAR COAST OF VENEZUELA. <TRN>. MD 3.2 (TRN).										
MARIANA ISLANDS										
POLAND. ML 3.0 (VIE), 2.4 (CLL).										
OAXACA, MEXICO. <UNM>. MD 4.3 (UNM). Felt at Puerto Escondido.										
STRAIT OF GIBRALTAR. <MDD>. mbLg 1.9 (MDD).										
OFF COAST OF COSTA RICA. MD 4.1 (CASC).										
FIJI ISLANDS REGION										
OFF COAST OF COSTA RICA. <CASC>. MD 4.3 (CASC).										
PHILIPPINE ISLANDS REGION										
NORTHERN SUMATERA, INDONESIA										
PHILIPPINE ISLANDS REGION										
MARIANA ISLANDS										
NORTHERN MID-ATLANTIC RIDGE										
SPAIN. <MDD>. mbLg 2.2 (MDD).										
KURIL ISLANDS										
PRIMORYE, RUSSIA										
NORTHERN SUMATERA, INDONESIA										
SANTA CRUZ ISLANDS										
KODIAK ISLAND REGION, ALASKA. <AEIC>. ML 3.0 (AEIC).										
SOUTH OF FIJI ISLANDS										
NORTH ISLAND, NEW ZEALAND. <WEL>.										
LAKE TANGANYIKA REGION										
STRAIT OF GIBRALTAR. <MDD>.										
SPAIN. <MDD>. mbLg 1.6 (MDD).										
HINDU KUSH REGION, AFGHANISTAN										
CALIFORNIA-NEVADA BORDER REGION. <NC-P>. MD 2.7 (NC).										
LUZON, PHILIPPINES										
FRANCE. <LDG>. ML 1.8 (LDG).										
NEAR EAST COAST OF KAMCHATKA										
POLAND. ML 3.4 (VIE), 2.8 (FUR).										
GERMANY. <LDG>. ML 3.0 (LDG).										
SOUTHEAST OF HONSHU, JAPAN										
NORTHWESTERN BALKAN REGION. ML 2.1 (VIE).										
FLORES SEA										

03	13	57	40.3	59.938	N	151.148	W	50								28	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.6 (AEIC).
03	14	03	22.0	61.106	N	151.231	W	68								39	SOUTHERN ALASKA. <AEIC>. ML 3.3 (AEIC), 3.7 (PMR).
03	15	50	52.9	8.801	S	108.484	E	68	?	4.4	1.0					15	JAWA, INDONESIA
03	15	51	16.3	36.597	N	71.400	E	191	D	4.8	0.9					96	AFGHANISTAN-TAJIKISTAN BORD REG.
03	16	19	08.2	10.661	N	62.477	W	77								5	NEAR COAST OF VENEZUELA. <TRN>. MD 2.8 (TRN).
03	16	58	14.4	21.339	N	143.588	E	33	N	4.7	4.1	1.1				39	MARIANA ISLANDS REGION
03	17	24	04.1	22.760	N	94.566	E	132	*	4.5		1.3				20	MYANMAR
03	17	34	35.4	29.946	N	138.925	E	449	*	4.0		0.3				8	SOUTHEAST OF HONSHU, JAPAN
03	17	56	18.9	37.620	N	6.265	W	2								15	SPAIN. <MDD>. mbLg 2.5 (MDD).
03	18	29	41.4	43.776	N	7.689	E	2								7	NEAR SOUTH COAST OF FRANCE. <GEN>. ML 1.9 (GEN).
03	19	31	58.4	36.071	N	117.612	W	0								7	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 2.7 (PAS).
03	19	34	26.5	44.083	N	7.220	E	2								9	NORTHERN ITALY. <GEN>. ML 2.0 (GEN).
03	19	45	05.2	12.116	N	59.237	W	10	G	4.5		0.8				39	WINDWARD ISLANDS. MD 4.0 (TRN).
03	19	51	03.9	13.343	N	120.981	E	76	D	5.0		1.1				71	MINDORO, PHILIPPINES. Mw 5.0 (HRV).
																	Centroid, Moment Tensor (HRV): Centroid origin time
																	19:51:05.3; Lat 13.01 N; Lon 120.43 E; Dep 109.0; Half-
																	duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
																	Val=4.39, Plg=62, Azm=242; (N) Val=-0.35, Plg=2, Azm=336;
																	(P) Val=-4.04, Plg=28, Azm=67; Best double couple:
																	Mo=4.2*10**16 Nm; NP1: Strike=163, Dip=17, Slip=97; NP2:
																	Strike=335, Dip=73, Slip=88.
03	19	51	44.9	58.523	N	156.789	W	191		3.7						36	ALASKA PENINSULA. <AEIC>.
03	20	24	40.3	45.058	N	13.316	E	10	G			1.2				35	NORTHERN ITALY. ML 4.0 (VIE), 3.4 (ZAG).
03	21	35	13.2	43.662	N	144.387	E	117	D			0.6				15	HOKKAIDO, JAPAN REGION
03	21	50	50.4	18.011	N	101.186	W	64								20	GUERRERO, MEXICO. <UNM>. MD 4.2 (UNM).
03	21	54	08.1	18.561	N	65.778	W	4								4	PUERTO RICO REGION. <RSPR>. MD 3.0 (RSPR).
03	22	09	13.7	7.321	S	128.491	E	142	D	6.4	5.8	0.9				478	BANDA SEA. Mw 6.4 (GS), 6.4 (HRV). Me 6.4 (GS). Felt at
																	Darwin, Australia.
																	Broadband Source Parameters (GS): Dep 142; NP1: Strike=185,
																	Dip=45, Slip=90; NP2: Strike=5, Dip=45, Slip=90; Radiated
																	energy 9.3*10**13 Nm.
																	Moment Tensor (GS): Dep 143; Principal axes (scale 10**18
																	Nm): (T) Val=4.01, Plg=87, Azm=337; (N) Val=-0.17, Plg=3,
																	Azm=168; (P) Val=-3.84, Plg=1, Azm=78; Best double couple:
																	Mo=3.9*10**18 Nm; NP1: Strike=165, Dip=45, Slip=86; NP2:
																	Strike=351, Dip=46, Slip=94.
																	Centroid, Moment Tensor (HRV): Centroid origin time
																	22:09:20.1; Lat 7.37 S; Lon 128.55 E; Dep 162.0; Half-
																	duration 3.8 sec; Principal axes (scale 10**18 Nm): (T)
																	Val=4.28, Plg=85, Azm=176; (N) Val=-0.35, Plg=5, Azm=347;
																	(P) Val=-3.93, Plg=1, Azm=77; Best double couple:
																	Mo=4.1*10**18 Nm; NP1: Strike=171, Dip=44, Slip=96; NP2:
																	Strike=342, Dip=46, Slip=84.
03	22	11	52.6	17.79	S	69.63	W	142	?	3.8		1.3				6	PERU-BOLIVIA BORDER REGION
03	22	22	40.7	6.817	S	143.807	E	10	G	6.3	6.7	1.1				356	NEW GUINEA, PAPUA NEW GUINEA. Mw 6.6 (HRV), 6.5 (GS). Me 6.4
																	(GS). ML 6.1 (PMG). Felt in the Lake Kutubu area.
																	Broadband Source Parameters (GS): Dep 17; NP1: Strike=295,
																	Dip=40, Slip=105; NP2: Strike=96, Dip=52, Slip=78; Radiated
																	energy 9.6*10**13 Nm.
																	Moment Tensor (GS): Dep 19; Principal axes (scale 10**18
																	Nm): (T) Val=6.92, Plg=75, Azm=174; (N) Val=-0.02, Plg=12,
																	Azm=316; (P) Val=-6.90, Plg=9, Azm=48; Best double couple:
																	Mo=6.9*10**18 Nm; NP1: Strike=153, Dip=37, Slip=110; NP2:
																	Strike=307, Dip=55, Slip=75.
																	Centroid, Moment Tensor (HRV): Centroid origin time
																	22:22:49.9; Lat 6.92 S; Lon 143.85 E; Dep 16.0 Bdy; Half-
																	duration 4.7 sec; Principal axes (scale 10**18 Nm): (T)
																	Val=8.40, Plg=77, Azm=352; (N) Val=0.25, Plg=9, Azm=123;
																	(P) Val=-8.64, Plg=10, Azm=214; Best double couple:
																	Mo=8.5*10**18 Nm; NP1: Strike=315, Dip=36, Slip=105; NP2:
																	Strike=117, Dip=56, Slip=79.
03	22	53	00.3	6.42	S	143.82	E	10	G			0.5				5	NEW GUINEA, PAPUA NEW GUINEA
03	23	06	34.2	2.985	N	127.520	E	53	?	4.4		1.2				12	NORTHERN MOLUCCA SEA
04	00	31	16.8	6.800	S	143.600	E	33	N	4.8		1.4				12	NEW GUINEA, PAPUA NEW GUINEA
04	00	53	30.7	32.598	S	71.769	W	19								16	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.3 (GUC).
04	01	27	24.8	6.974	S	144.020	E	33	N	4.0		0.6				12	NEW GUINEA, PAPUA NEW GUINEA
04	02	24	22.4	60.167	S	149.868	E	10	G	5.5	6.2	1.1				125	WEST OF MACQUARIE ISLAND. Mw 6.4 (GS), 6.3 (HRV).
																	Moment Tensor (GS): Dep 12; Principal axes (scale 10**18
																	Nm): (T) Val=3.76, Plg=3, Azm=202; (N) Val=0.35, Plg=87,
																	Azm=11; (P) Val=-4.10, Plg=1, Azm=112; Best double couple:
																	Mo=3.9*10**18 Nm; NP1: Strike=247, Dip=87, Slip=178; NP2:
																	Strike=337, Dip=88, Slip=3.
																	Centroid, Moment Tensor (HRV): Centroid origin time
																	02:24:29.6; Lat 60.20 S; Lon 150.21 E; Dep 15.0 Fix; Half-
																	duration 3.4 sec; Principal axes (scale 10**18 Nm): (T)
																	Val=3.80, Plg=0, Azm=205; (N) Val=-0.16, Plg=83, Azm=113;
																	(P) Val=-3.65, Plg=7, Azm=295; Best double couple:
																	Mo=3.7*10**18 Nm; NP1: Strike=339, Dip=85, Slip=-5; NP2:
																	Strike=70, Dip=85, Slip=-175.
04	02	37	54.4	10.705	N	86.695	W	33	N	4.6		1.1				26	OFF COAST OF COSTA RICA. MD 4.3 (CASC).
04	02	42	01.0	49.170	N	114.030	W	1	G							48	BRITISH COLUMBIA, CANADA. <BUT-P>. ML 4.6 (BUT), 4.3 (PGC).
																	MD 3.9 (SEA). Felt in Waterton Lakes National Park, Alberta.
04	02	54	32.3	10.517	N	122.012	E	33	N	4.6		1.2				17	PANAY, PHILIPPINES
04	03	10	53.8	32.983	N	115.556	W	11								4	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.0 (PAS).
04	04	06	02.0	18.046	N	98.202	W	10	G			0.6				6	CENTRAL MEXICO. MD 3.6 (UNM).
04	04	31	07.8	44.754	N	129.100	W	10	G	2.9		0.8				38	OFF COAST OF OREGON
04	05	18	52.8	15.639	N	98.806	W	11								6	OFF COAST OF GUERRERO, MEXICO. <UNM>. MD 3.7 (UNM).
04	05	56	55.4	40.484	N	1.234	W	0	G							8	SPAIN. <MDD>. mbLg 1.9 (MDD).
04	06	38	38.8	36.011	N	69.522	E	109	*	4.1		1.4				16	HINDU KUSH REGION, AFGHANISTAN
04	08	53	26.4</														

04	12	54	27.4?	27.31	N	66.13	E	33	N	3.9	1.2	7	PAKISTAN
04	13	21	42.4*	3.053	S	137.182	E	33	N		1.1	9	IRIAN JAYA, INDONESIA
04	14	09	50.4	34.317	S	179.131	E	33	N	5.2 5.6	1.3	61	SOUTH OF KERMADEC ISLANDS. Mw 5.9 (GS), 5.8 (HRV). Moment Tensor (GS): Dep 15; Principal axes (scale 10**17 Nm): (T) Val=7.68, Plg=5, Azm=269; (N) Val=0.05, Plg=84, Azm=117; (P) Val=-7.74, Plg=3, Azm=359; Best double couple: Mo=7.7*10**17 Nm; NP1: Strike=44, Dip=84, Slip=2; NP2: Strike=314, Dip=88, Slip=174. Centroid, Moment Tensor (HRV): Centroid origin time 14:09:53.4; Lat 34.14 S; Lon 178.99 E; Dep 15.0 Fix; Half-duration 2.0 sec; Principal axes (scale 10**17 Nm): (T) Val=6.41, Plg=4, Azm=95; (N) Val=-1.08, Plg=76, Azm=349; (P) Val=-5.33, Plg=13, Azm=186; Best double couple: Mo=5.9*10**17 Nm; NP1: Strike=230, Dip=78, Slip=-7; NP2: Strike=321, Dip=83, Slip=-168.
04	14	22	11.7&	38.037	N	3.678	W	4				18	SPAIN. <MDD>. mbLg 2.4 (MDD).
04	14	38	40.9	6.915	S	143.992	E	33	N	4.3	0.5	12	NEW GUINEA, PAPUA NEW GUINEA
04	14	41	22.6&	42.710	N	0.700	E	10	G			18	PYRENEES. <STR>. ML 2.6 (LDG), 2.5 (STR). mbLg 2.3 (MDD).
04	14	59	09.5&	44.543	N	7.225	E	13				9	NORTHERN ITALY. <GEN>. ML 2.0 (GEN).
04	15	43	20.2	47.274	N	9.475	E	10	G		1.1	66	GERMANY. ML 4.1 (VIE), 3.8 (LDG), 3.6 (FUR), 3.6 (CLL), 3.5 (FBB), 3.5 (STR).
04	16	01	37.7	6.840	S	143.867	E	33	N	4.7	1.0	20	NEW GUINEA, PAPUA NEW GUINEA
04	16	12	41.1	28.636	S	66.443	W	36	D	4.3	0.9	30	CATAMARCA PROVINCE, ARGENTINA
04	16	13	22.0&	37.850	N	118.200	W	2				58	CALIFORNIA-NEVADA BORDER REGION. <BRK-P>. Mw 4.1 (BRK). ML 4.4 (BRK). Moment Tensor (BRK): Dep 14; Principal axes (scale 10**15 Nm): (T) Val=1.72, Plg=6, Azm=280; (N) Val=0.00, Plg=80, Azm=49; (P) Val=-1.72, Plg=8, Azm=189; Best double couple: Mo=1.7*10**15 Nm; NP1: Strike=235, Dip=89, Slip=-10; NP2: Strike=325, Dip=80, Slip=-179.
04	18	13	21.4*	3.905	N	96.431	E	33	N	3.8	1.4	10	NORTHERN SUMATERA, INDONESIA
04	18	14	31.4&	34.222	S	70.574	W	112				6	CHILE-ARGENTINA BORDER REGION. <GUC>.
04	18	42	46.4	38.374	N	26.646	W	10	G	4.6	1.0	95	AZORES ISLANDS, PORTUGAL
04	19	35	39.7&	32.451	S	70.368	W	100				8	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.9 (GUC).
04	19	48	40.5	0.201	S	124.392	E	68	*	4.7	1.1	22	SOUTHERN MOLUCCA SEA
04	20	05	49.1&	45.063	N	5.733	E	3	G			14	FRANCE. <LDG>. ML 2.2 (LDG).
04	20	55	23.9&	18.858	N	98.576	W	0				23	CENTRAL MEXICO. <UNM>. MD 4.1 (UNM).
04	21	11	32.8&	34.514	S	72.074	W	30				9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
04	21	50	43.8&	38.669	N	2.506	W	0	G			16	SPAIN. <MDD>. mbLg 2.0 (MDD).
04	21	59	21.3	7.339	S	128.705	E	145		4.8	0.9	76	BANDA SEA
04	22	31	43.3	46.235	N	14.994	E	10	G		0.6	10	NORTHWESTERN BALKAN REGION. ML 2.2 (VIE), 1.6 (LJU).
04	23	10	18.7&	33.235	S	72.236	W	29				12	OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.1 (GUC).
04	23	23	12.8*	85.804	N	27.998	E	10	G	3.8	1.4	9	NORTH OF SVALBARD
05	01	02	20.6&	33.024	S	69.598	W	162				12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
05	01	19	05.1&	63.139	N	149.318	W	85				37	CENTRAL ALASKA. <AEIC>.
05	02	26	48.1	51.618	N	16.190	E	5	G		0.6	26	POLAND. ML 3.6 (GRF), 3.5 (VIE), 3.1 (FUR).
05	02	29	47.8&	32.470	S	71.798	W	15				8	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
05	02	54	22.9?	30.50	N	67.83	E	33	N	3.8	0.7	6	PAKISTAN
05	03	03	08.9&	32.488	S	71.828	W	26				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
05	03	34	38.8&	33.107	S	71.268	W	54				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
05	03	49	39.7&	41.100	S	172.670	E	173				9	SOUTH ISLAND, NEW ZEALAND. <WEL>.
05	03	56	33.0	10.212	N	86.090	W	33	N	4.1	1.2	38	OFF COAST OF COSTA RICA. MD 4.3 (CASC).
05	04	15	44.7&	37.895	N	5.275	W	0	G			11	SPAIN. <MDD>. mbLg 2.0 (MDD).
05	04	40	57.0*	51.325	N	178.776	E	41	D	4.2	1.3	22	RAT ISLANDS, ALEUTIAN ISLANDS
05	06	45	02.7&	18.935	N	66.866	W	5				6	PUERTO RICO REGION. <RSR>.
05	06	45	42.2&	18.910	N	66.848	W	11				4	PUERTO RICO REGION. <RSR>. MD 3.2 (RSR).
05	06	51	20.3&	19.059	N	66.849	W	32				7	PUERTO RICO REGION. <RSR>. MD 3.5 (RSR).
05	07	03	09.8*	22.349	S	68.299	W	111	?	3.9	0.9	8	NORTHERN CHILE
05	09	07	57.8	14.356	N	92.821	W	61		4.5	0.9	81	NEAR COAST OF CHIAPAS, MEXICO. MD 4.7 (UNM).
05	09	09	42.8?	31.18	N	141.67	E	33	N	4.1	0.7	6	SOUTHEAST OF HONSHU, JAPAN
05	09	40	06.0	27.946	N	56.467	E	33	N	5.6 5.3	0.9	354	SOUTHERN IRAN. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 09:40:08.9; Lat 27.61 N; Lon 56.40 E; Dep 33.0 Fix; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.67, Plg=79, Azm=282; (N) Val=-0.08, Plg=11, Azm=99; (P) Val=-1.59, Plg=1, Azm=189; Best double couple: Mo=1.6*10**17 Nm; NP1: Strike=290, Dip=45, Slip=106; NP2: Strike=88, Dip=47, Slip=74.
05	09	50	38.5*	14.265	N	53.765	E	10	G	3.9	0.7	6	OWEN FRACTURE ZONE REGION
05	09	50	54.2?	27.87	N	56.46	E	33	N	3.9	0.9	11	SOUTHERN IRAN
05	09	53	44.7&	16.998	N	100.653	W	5				6	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.5 (UNM).
05	09	55	01.3*	14.282	N	53.803	E	10	G	4.7	1.2	14	OWEN FRACTURE ZONE REGION
05	10	24	10.5&	11.008	N	62.540	W	3				4	WINDWARD ISLANDS. <TRN>. MD 3.2 (TRN).
05	10	35	40.2*	4.357	N	126.961	E	33	N	4.4	1.0	9	TALAUD ISLANDS, INDONESIA
05	10	37	29.6*	12.529	S	14.985	W	10	G	4.6	1.0	22	SOUTHERN MID-ATLANTIC RIDGE
05	10	40	06.6&	33.655	S	70.530	W	102		4.0		21	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 4.0 (GUC). Felt (II) at Santiago, Chile.
05	10	50	36.8*	27.863	N	111.796	W	10	G		0.9	17	GULF OF CALIFORNIA
05	10	51	43.6*	6.074	S	126.628	E	394	?	3.6	1.2	9	BANDA SEA
05	10	55	30.2	12.551	N	86.626	W	162	D	4.7	1.1	173	NICARAGUA. MD 4.8 (CASC).
05	11	57	25.2&	63.459	N	150.056	W	124				35	CENTRAL ALASKA. <AEIC>.
05	12	15	02.0&	40.591	N	0.072	E	0	G			9	SPAIN. <MDD>. mbLg 2.0 (MDD).
05	12	24	57.0*	46.232	N	27.764	W	10	G	4.0	1.2	21	NORTHERN MID-ATLANTIC RIDGE
05	13	06	22.6*	7.254	S	128.670	E	132		4.3	0.9	13	BANDA SEA
05	13	55	40.9&	16.638	N	97.530	W	43				12	OAXACA, MEXICO. <UNM>. MD 4.0 (UNM).
05	13	56	07.4?	21.73	S	69.09	E	10	G	4.5	1.0	8	MID-INDIAN RIDGE
05	13	58	13.6*	21.747	S	69.024	E	10	G	4.6	1.0	9	MID-INDIAN RIDGE
05	14	21	22.5*	2.848	S	130.330	E	33	N		1.1	6	SERAM, INDONESIA
05	14	30	13.4	3.899	N	126.603	E	33	N	4.8	0.9	29	TALAUD ISLANDS, INDONESIA
05	14	36	30.6	47.026	N	154.156	E	33	N	4.7	1.3	71	KURIL ISLANDS
05	15	14	45.4&	17.767	N	98.162	W	16				15	GUERRERO, MEXICO. <UNM>. MD 3.6 (UNM).
05	15	37	09.3	46.624	N	15.106	E	10	G		0.5	8	NORTHWESTERN BALKAN REGION. ML 2.4 (VIE), 2.1 (LJU).
05	15	42	57.1*	11.209	N	86.951	W	102	*	3.8	1.3	22	NEAR COAST OF NICARAGUA. MD 4.2 (CASC).

06	21	29	33.9*	54.039	N	163.256	W	33	N	3.2	1.2	7	UNIMAK ISLAND REGION, ALASKA
06	22	13	09.7&	10.634	N	61.543	W	36				4	TRINIDAD. <TRN>. MD 2.7 (TRN).
06	22	16	51.7&	38.580	S	175.590	E	190				11	NORTH ISLAND, NEW ZEALAND. <WEL>.
06	22	19	13.1*	21.636	N	143.536	E	33	N	4.7 4.1	1.3	25	MARIANA ISLANDS REGION
07	00	20	28.1&	33.806	N	117.715	W	11				21	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.0 (PAS). Felt throughout Orange County and in parts of Los Angeles, Riverside, San Bernardino and San Diego Counties.
07	01	05	02.1	31.956	N	50.797	E	48	*	4.4	0.9	50	NORTHERN AND CENTRAL IRAN
07	02	16	04.0&	39.750	N	110.840	W	2		4.3		72	UTAH. <SLC-P>. ML 4.2 (SLC). Felt at Helper, Kenilworth and Price. The earthquake caused a rockslide which blocked the highway about 8 kilometers north of Helper.
07	04	32	16.5	19.146	N	104.205	W	10	G	5.0 4.7	1.3	157	NEAR COAST OF JALISCO, MEXICO. Mw 5.4 (HRV). MD 5.3 (UNM). Felt at Ciudad Guzman, Colima, Guadalajara, Manzanillo and Puerto Vallarta. Centroid, Moment Tensor (HRV): Centroid origin time 04:32:22.1; Lat 19.46 N; Lon 104.08 W; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.08, Plg=10, Azm=108; (N) Val=0.23, Plg=14, Azm=15; (P) Val=-1.31, Plg=72, Azm=233; Best double couple: Mo=1.2*10**17 Nm; NP1: Strike=215, Dip=37, Slip=-66; NP2: Strike=6, Dip=57, Slip=-107.
07	05	48	19.1	49.162	S	164.669	E	10	G	4.8 5.1	1.2	38	AUCKLAND ISLANDS, N.Z. REGION. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 05:48:27.0; Lat 49.13 S; Lon 164.01 E; Dep 15.0 Fix; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.60, Plg=46, Azm=355; (N) Val=-0.71, Plg=43, Azm=164; (P) Val=-1.89, Plg=6, Azm=259; Best double couple: Mo=2.2*10**17 Nm; NP1: Strike=26, Dip=54, Slip=147; NP2: Strike=137, Dip=64, Slip=40.
07	06	28	28.7	23.399	N	142.524	E	204	?	4.5	0.8	62	VOLCANO ISLANDS, JAPAN REGION
07	07	23	23.4	8.960	N	84.214	W	10	G		0.9	17	OFF COAST OF COSTA RICA
07	07	45	19.7&	34.155	S	71.201	W	64				14	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
07	08	10	07.0	39.714	N	141.149	E	33	N	4.1	0.9	13	EASTERN HONSHU, JAPAN
07	08	15	23.6&	10.965	N	62.229	W	47				6	NEAR COAST OF VENEZUELA. <TRN>. MD 3.2 (TRN).
07	10	35	39.8&	34.328	N	116.768	W	2				18	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS). Felt at Big Bear Lake.
07	11	23	34.0&	37.059	N	3.987	W	1				11	SPAIN. <MDD>. mbLg 2.4 (MDD).
07	12	39	27.9*	20.276	S	168.729	E	33	N	4.7	1.2	30	LOYALTY ISLANDS
07	13	41	52.0*	17.935	N	120.855	E	33	N	3.8	0.8	5	LUZON, PHILIPPINES
07	14	42	05.3	35.958	N	28.240	E	33	N		0.9	15	EASTERN MEDITERRANEAN SEA. ML 3.8 (CSS).
07	14	48	37.2*	14.976	N	147.008	E	33	N	3.8	0.9	7	MARIANA ISLANDS REGION
07	15	16	02.4	33.590	N	12.629	W	10	G		0.9	23	MADEIRA ISLANDS, PORTUGAL REGION. mbLg 4.5 (MDD).
07	15	53	24.0*	6.224	N	5.147	E	10	G	4.5	1.4	18	NIGERIA. Felt at Ibadan.
07	15	55	41.2?	21.91	S	179.67	W	600	G	4.5	1.1	19	FIJI ISLANDS REGION
07	17	40	31.0	2.044	S	68.000	E	10	G	5.2 5.1	1.0	156	CARLSBERG RIDGE. Mw 5.3 (HRV), 5.1 (GS). Moment Tensor (GS): Dep 17; Principal axes (scale 10**16 Nm): (T) Val=6.55, Plg=12, Azm=26; (N) Val=-1.20, Plg=4, Azm=296; (P) Val=-5.34, Plg=77, Azm=188; Best double couple: Mo=5.9*10**16 Nm; NP1: Strike=121, Dip=33, Slip=-83; NP2: Strike=293, Dip=57, Slip=-95. Centroid, Moment Tensor (HRV): Centroid origin time 17:40:36.6; Lat 2.16 S; Lon 68.14 E; Dep 20.0 Bdy; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.01, Plg=17, Azm=40; (N) Val=-0.07, Plg=2, Azm=309; (P) Val=-0.94, Plg=73, Azm=212; Best double couple: Mo=9.7*10**16 Nm; NP1: Strike=133, Dip=28, Slip=-85; NP2: Strike=308, Dip=62, Slip=-92.
07	17	49	42.9&	33.813	N	117.712	W	11				8	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS). Felt in the epicentral area.
07	18	49	17.5	3.605	N	96.101	E	77	*	4.8	1.1	48	NORTHERN SUMATERA, INDONESIA
07	19	52	51.8*	62.603	N	152.049	W	10	G		1.3	9	CENTRAL ALASKA. ML 2.5 (PMR).
07	20	09	57.4*	12.163	S	166.793	E	33	N	4.6	1.3	33	SANTA CRUZ ISLANDS
07	20	31	35.9*	6.412	S	148.934	E	33	N	4.4	1.2	9	NEW BRITAIN REGION, P.N.G.
07	20	59	29.1&	13.754	N	60.701	W	72				5	WINDWARD ISLANDS. <TRN>.
07	21	08	35.5&	10.858	N	62.148	W	100				10	NEAR COAST OF VENEZUELA. <TRN>. MD 3.6 (TRN).
07	21	52	25.5*	5.221	S	154.117	E	126	?	4.1	0.9	11	SOLOMON ISLANDS
07	21	58	25.0&	49.170	N	6.820	E	1	G			21	GERMANY. <PBB>. ML 2.8 (LDG), 2.3 (FBB). Mining induced event in the Lorraine region, France.
07	22	14	04.9&	44.034	N	10.113	E	2				6	NORTHERN ITALY. <LDG>. ML 2.4 (LDG).
07	22	19	46.0*	20.728	S	178.976	W	600	G	4.4	0.9	23	FIJI ISLANDS REGION
07	23	06	48.2&	63.644	N	149.849	W	141				31	CENTRAL ALASKA. <AEIC>.
07	23	19	43.3	50.462	N	19.070	E	5	G		1.4	10	POLAND. ML 3.3 (VIE). Felt at Katowice.
08	00	21	12.2	47.393	N	13.280	E	10	G		0.9	7	AUSTRIA. ML 2.0 (VIE).
08	00	22	07.9*	17.819	S	167.539	E	33	N	4.1	1.1	28	VANUATU ISLANDS
08	01	13	56.4	50.348	N	6.254	E	10	G		1.4	15	GERMANY. ML 2.8 (LDG), 2.4 (STR).
08	01	34	00.0*	21.877	S	66.357	W	257	*	4.2	1.2	17	SOUTHERN BOLIVIA
08	01	45	53.3	40.697	N	51.936	E	50	D	4.7	0.9	93	CASPIAN SEA
08	02	22	05.4?	28.28	N	112.99	W	10	G	4.0	1.3	13	GULF OF CALIFORNIA
08	02	23	03.6&	18.077	N	67.115	W	19				5	MONA PASSAGE. <RSRP>. MD 3.0 (RSRP).
08	03	29	38.8&	18.006	N	103.356	W	10				11	NEAR COAST OF MICHOACAN, MEXICO. <UNM>. MD 4.1 (UNM).
08	03	39	09.9*	11.184	N	125.278	E	33	N	4.8	0.9	20	SAMAR, PHILIPPINES
08	03	43	01.4&	34.543	N	116.308	W	1				16	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
08	04	53	45.9*	34.406	N	136.150	E	388		4.3	0.7	12	WESTERN HONSHU, JAPAN
08	04	53	52.9&	36.975	N	3.727	W	1				15	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.4 (MDD).
08	05	44	52.6	25.954	S	70.884	W	62	*	4.8	1.3	63	NEAR COAST OF NORTHERN CHILE. Felt (IV) at Chanaral and (II) at Copiapo.
08	06	34	52.9&	17.926	N	101.927	W	10				7	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.9 (UNM).
08	09	19	13.7	55.803	N	163.709	E	33	N	4.0	1.2	17	OFF EAST COAST OF KAMCHATKA
08	09	21	02.3&	19.155	N	66.484	W	41				7	PUERTO RICO REGION. <RSRP>. MD 3.6 (RSRP).
08	09	57	22.7&	38.285	N	21.905	E	0		4.3		65	GREECE. <THE>. ML 4.1 (THE). Felt at Navpakto and Patrai.
08	10	40	05.3?	62.88	N	153.08	W	10	G		1.0	4	CENTRAL ALASKA. ML 2.7 (PMR).
08	11	10	38.0&	61.460	N	146.576	W	18				62	SOUTHERN ALASKA. <AEIC>. ML 2.9 (AEIC).
08	11	44	35.4*	51.289	N	15.782	E	5	G		1.0	10	POLAND. ML 3.2 (VIE).

08	11	53	43.1*	1.879	N	128.630	E	33	N	4.8	1.2	13	HALMAHERA, INDONESIA
08	12	14	48.3?	13.62	N	92.16	W	33	N		1.2	9	OFF COAST OF CHIAPAS, MEXICO. MD 4.2 (UNM).
08	13	15	20.3*	55.840	N	165.023	E	33	N	3.5	1.1	12	KOMANDORSKY ISLANDS REGION
08	13	16	43.0&	47.800	N	113.880	W	3				22	MONTANA. <BUT-P>. ML 3.2 (BUT).
08	14	00	15.8&	59.819	N	153.329	W	143				66	SOUTHERN ALASKA. <AEIC>.
08	14	20	57.9&	57.407	N	154.266	W	46		5.6 4.7	542	KODIAK ISLAND REGION, ALASKA. <AEIC>. Mw 5.4 (GS), 5.4 (HRV). ML 5.2 (AEIC), 5.4 (PMR). Felt (IV) on Kodiak. Moment Tensor (GS): Dep 46; Principal axes (scale 10**17 Nm): (T) Val=1.62, Plg=29, Azm=296; (N) Val=-0.37, Plg=14, Azm=34; (P) Val=-1.24, Plg=57, Azm=148; Best double couple: Mo=1.4*10**17 Nm; NP1: Strike=352, Dip=21, Slip=-134; NP2: Strike=218, Dip=75, Slip=-75. Centroid, Moment Tensor (HRV): Centroid origin time 14:20:58.1; Lat 57.41 N; Lon 154.44 W; Dep 42.7; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.47, Plg=38, Azm=302; (N) Val=-0.01, Plg=7, Azm=38; (P) Val=-1.46, Plg=51, Azm=137; Best double couple: Mo=1.5*10**17 Nm; NP1: Strike=350, Dip=10, Slip=-139; NP2: Strike=219, Dip=84, Slip=-83.	
08	14	22	26.3*	28.834	N	34.731	E	10	G	4.9	1.5	32	EGYPT. ML 4.9 (GII).
08	14	55	04.2?	64.25	N	149.45	W	10	G		1.0	4	CENTRAL ALASKA. ML 2.7 (PMR).
08	15	04	36.0&	38.890	N	111.980	W	4				10	UTAH. <SLC-P>. ML 2.8 (SLC).
08	15	12	28.9*	12.999	N	144.060	E	80	*	4.8	0.6	17	SOUTH OF MARIANA ISLANDS
08	15	17	06.0&	38.860	N	111.970	W	5				18	UTAH. <SLC-P>. ML 2.9 (SLC). Double event.
08	15	25	04.0&	38.880	N	111.980	W	4				30	UTAH. <SLC-P>. ML 3.4 (SLC).
08	16	07	34.3&	60.016	N	152.372	W	87				58	SOUTHERN ALASKA. <AEIC>.
08	17	14	45.4	37.203	N	35.254	E	10	G	3.6	1.3	31	TURKEY. MD 4.0 (ISK). Felt at Adana.
08	17	41	32.0	44.089	N	11.711	E	10	G		1.3	26	NORTHERN ITALY. ML 3.1 (VIE), 2.9 (LDG).
08	17	45	55.8&	37.700	S	176.250	E	334				12	NORTH ISLAND, NEW ZEALAND. <WEL>.
08	18	12	29.6*	10.517	S	123.435	E	33	N	4.5	1.5	9	TIMOR REGION
08	18	26	23.2	37.083	N	12.210	W	10	G	4.0	1.0	89	AZORES-CAPE ST. VINCENT RIDGE. ML 4.4 (MDD).
08	18	49	27.2&	34.800	N	33.058	E	5				7	CYPRUS REGION. <CSS>. ML 2.3 (CSS).
08	20	00	05.9*	12.524	S	166.298	E	89	D	4.2	1.3	10	SANTA CRUZ ISLANDS
08	21	34	51.0&	32.157	S	71.212	W	44				15	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
08	21	37	17.7	23.908	S	67.040	W	184		4.9	1.0	122	CHILE-ARGENTINA BORDER REGION. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 21:37:27.0; Lat 23.43 S; Lon 67.15 W; Dep 197.6; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=8.40, Plg=2, Azm=251; (N) Val=-1.11, Plg=41, Azm=343; (P) Val=-7.30, Plg=49, Azm=158; Best double couple: Mo=7.8*10**16 Nm; NP1: Strike=307, Dip=56, Slip=-142; NP2: Strike=193, Dip=60, Slip=-41.
08	22	11	28.5	45.792	N	26.767	E	63	D	4.4 4.1	1.3	166	ROMANIA. Felt at Bucharest.
08	22	37	16.7*	26.816	N	66.568	E	33	N	4.6	1.4	12	PAKISTAN
08	22	41	05.6&	16.922	N	100.108	W	30				20	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.2 (UNM).
08	22	45	24.2&	35.648	N	117.628	W	4				11	CENTRAL CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
08	23	07	13.2&	62.307	N	151.370	W	90		5.2	410	CENTRAL ALASKA. <AEIC>. Mw 5.4 (GS), 5.4 (HRV). Felt (V) at Talkeetna. Felt from Anchorage to Fairbanks. Moment Tensor (GS): Dep 98; Principal axes (scale 10**17 Nm): (T) Val=1.80, Plg=27, Azm=317; (N) Val=-0.45, Plg=60, Azm=107; (P) Val=-1.34, Plg=13, Azm=220; Best double couple: Mo=1.6*10**17 Nm; NP1: Strike=356, Dip=62, Slip=169; NP2: Strike=91, Dip=81, Slip=29. Centroid, Moment Tensor (HRV): Centroid origin time 23:07:15.1; Lat 62.26 N; Lon 151.69 W; Dep 107.3; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.56, Plg=33, Azm=310; (N) Val=-0.19, Plg=55, Azm=106; (P) Val=-1.37, Plg=11, Azm=212; Best double couple: Mo=1.5*10**17 Nm; NP1: Strike=346, Dip=59, Slip=163; NP2: Strike=85, Dip=75, Slip=33.	
08	23	08	12.3&	40.020	S	174.100	E	143				15	COOK STRAIT, NEW ZEALAND. <WEL>.
09	00	10	25.5*	46.626	N	16.385	E	10	G		1.0	11	NORTHWESTERN BALKAN REGION. ML 2.9 (VIE), 2.7 (ZAG).
09	00	36	28.4&	17.171	N	100.047	W	20				8	GUERRERO, MEXICO. <UNM>. MD 3.9 (UNM).
09	00	46	39.3&	17.825	N	65.660	W	9				6	PUERTO RICO REGION. <RSPR>. MD 3.4 (RSPR).
09	00	53	21.1&	37.138	N	3.407	W	0	G			6	SPAIN. <MDD>. mbLg 1.5 (MDD).
09	00	54	43.7*	51.043	N	15.793	E	5	G		0.6	7	POLAND. ML 3.1 (VIE).
09	04	08	04.8	3.749	S	151.338	E	33	N	5.0 4.9	1.2	52	NEW IRELAND REGION, P.N.G.
09	04	12	54.7&	43.094	N	0.527	W	3	G			23	PYRENEES. <LDG>. ML 2.9 (LDG), 2.4 (STR). mbLg 2.5 (MDD).
09	04	14	59.6	3.876	S	151.359	E	33	N	5.2 5.2	1.1	68	NEW IRELAND REGION, P.N.G. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 04:15:03.4; Lat 3.49 S; Lon 151.61 E; Dep 15.0 Fix; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=2.42, Plg=11, Azm=347; (N) Val=-0.34, Plg=78, Azm=141; (P) Val=-2.08, Plg=5, Azm=256; Best double couple: Mo=2.2*10**17 Nm; NP1: Strike=32, Dip=79, Slip=176; NP2: Strike=122, Dip=86, Slip=11.
09	04	20	38.4?	3.75	S	151.60	E	33	N	4.4	1.1	9	NEW IRELAND REGION, P.N.G.
09	04	25	42.0&	16.671	N	99.214	W	16				10	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.9 (UNM).
09	05	08	43.6	23.102	N	121.563	E	33	N	4.8	1.2	54	TAIWAN. Recorded (4 TAP) at Cheng-kung; (2 TAP) at Chia-i and Hua-lien; (1 TAP) at Tai-chung and Tai-tung.
09	05	56	53.4&	61.538	N	146.520	W	30				29	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).
09	06	05	42.6	6.702	S	68.427	E	10	G	4.9 4.4	1.1	91	CHAGOS ARCHIPELAGO REGION
09	06	19	08.2&	33.324	S	71.150	W	57				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
09	07	10	48.4	58.288	S	25.475	W	33	N	4.6	0.7	29	SOUTH SANDWICH ISLANDS REGION
09	07	25	27.2	10.805	N	86.521	W	33	N	4.2	1.3	41	OFF COAST OF COSTA RICA. MD 4.5 (CASC).
09	12	17	07.3&	34.857	N	116.403	W	6				13	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
09	12	29	40.7*	35.647	N	22.066	E	33	N	3.7	0.9	16	CENTRAL MEDITERRANEAN SEA
09	13	25	23.6&	40.010	S	175.050	E	12				13	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.7 (WEL). Felt at Wanganui.
09	13	53	00.6*	5.357	S	154.153	E	123	*	4.4	0.9	17	SOLOMON ISLANDS
09	13	54	53.4&	44.455	N	7.082	E	2				8	NORTHERN ITALY. <GEN>. ML 2.1 (GEN).
09	14	08	42.9*	15.561	S	174.856	W	33	N	4.5	1.0	35	TONGA ISLANDS
09	14	21	03.9*	10.722	N	86.562	W	33	N	4.1	1.3	22	OFF COAST OF COSTA RICA

09	14	29	42.9*	40.984	N	47.666	E	33	N	1.4	12	EASTERN CAUCASUS. Felt (III) at Sochi.		
09	14	47	21.4&	40.010	S	175.020	E	12			12	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.7 (WEL). Felt at Marton.		
09	15	09	49.9&	40.194	N	29.316	E	24			4	TURKEY. <ISK>. MD 2.6 (ISK).		
09	16	02	53.0*	46.160	N	15.954	E	10	G	1.0	6	NORTHWESTERN BALKAN REGION. ML 2.3 (VIE).		
09	17	02	37.1&	34.111	N	117.476	W	16			9	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).		
09	17	34	38.1	5.378	S	154.123	E	100	D	4.8	1.0	31	SOLOMON ISLANDS	
09	19	08	13.6&	39.864	N	38.858	E	5			5	5	TURKEY. <ISK>. MD 3.4 (ISK).	
09	19	17	38.4	49.176	N	147.247	E	579	D	4.8	0.7	259	SEA OF OKHOTSK	
09	19	21	27.3&	43.753	N	7.672	E	3			18	18	NEAR SOUTH COAST OF FRANCE. <GEN>. ML 1.9 (GEN), 1.7 (STR), 1.6 (LDG).	
09	19	57	53.5&	35.615	N	31.058	E	25			16	16	CYPRUS REGION. <CSS>. ML 3.6 (CSS).	
09	19	58	04.7*	33.817	S	179.910	W	33	N	4.9	1.1	19	SOUTH OF KERMADEC ISLANDS	
09	19	58	04.7*	51.102	N	15.772	E	5	G		0.6	7	POLAND. ML 2.4 (CLL).	
09	20	25	17.8&	10.923	N	62.259	W	69			6	6	NEAR COAST OF VENEZUELA. <TRN>. MD 2.7 (TRN).	
09	20	46	22.6?	47.27	N	154.30	E	33	N	4.1	1.5	8	KURIL ISLANDS	
09	20	52	53.6&	34.399	N	32.151	E	25			8	8	CYPRUS REGION. <CSS>. ML 2.6 (CSS).	
09	20	58	12.9&	47.202	N	7.485	E	3	G		17	17	SWITZERLAND. <LDG>. ML 2.5 (LDG), 2.3 (STR), 2.2 (FBB).	
09	21	29	28.9*	12.167	N	95.234	E	33	N	4.8	1.0	21	ANDAMAN ISLANDS, INDIA REGION	
09	21	29	56.3*	5.806	S	130.774	E	76	*	4.4	0.8	8	BANDA SEA	
09	22	51	43.3*	38.501	S	179.019	E	33	N	4.5	1.2	26	OFF E. COAST OF N. ISLAND, N.Z. ML 4.8 (WEL).	
09	23	37	36.6?	29.74	S	177.90	W	33	N	4.8	1.3	14	KERMADEC ISLANDS, NEW ZEALAND	
09	23	55	13.5&	61.702	N	149.669	W	40			24	24	SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).	
10	00	29	59.8?	21.61	S	179.59	W	621	?	4.8	1.0	23	FIJI ISLANDS REGION	
10	00	35	16.5*	28.116	S	68.676	W	133	*		1.1	9	LA RIOJA PROVINCE, ARGENTINA	
10	00	36	42.1*	34.003	N	138.917	E	33	N	4.0	1.3	10	NEAR S. COAST OF HONSHU, JAPAN. Recorded (3 JMA) on Kozu-shima and (1 JMA) on Miyake-jima.	
10	00	48	22.3&	48.457	N	7.660	E	4	G		9	9	FRANCE. <LDG>. MD 2.0 (LDG). ML 1.6 (STR).	
10	01	44	34.3&	44.517	N	6.694	E	4			15	15	FRANCE. <GEN>. MD 2.3 (LDG). ML 1.9 (GEN).	
10	02	52	50.7*	44.490	N	148.227	E	33	N	4.3	0.7	26	KURIL ISLANDS	
10	03	13	09.3*	46.640	N	10.361	E	5	G		1.1	8	NORTHERN ITALY. ML 2.0 (VIE).	
10	03	43	55.6&	37.707	N	1.638	W	5			7	7	SPAIN. <MDD>. mblg 1.6 (MDD).	
10	03	44	00.6?	16.02	S	167.90	E	183	?	4.2	1.2	18	VANUATU ISLANDS	
10	04	00	18.4	50.822	N	157.105	E	55	D	5.0	0.8	199	KURIL ISLANDS. Felt (IV) at Severo-Kurilsk. Also felt (III) at Petropavlovsk-Kamchatskiy.	
10	04	04	10.9*	24.875	S	69.688	W	45	?	3.8	1.3	10	NORTHERN CHILE	
10	05	31	14.7	44.591	N	10.424	E	10	G		1.2	64	NORTHERN ITALY. ML 3.3 (LDG), 3.2 (STR), 2.9 (TRI).	
10	05	54	51.2&	32.746	S	71.324	W	53			9	9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).	
10	06	13	40.7?	14.92	S	172.51	W	33	N		0.9	12	SAMOA ISLANDS	
10	06	25	49.0&	43.810	N	8.299	E	7			9	9	CORSICA, FRANCE. <GEN>. ML 2.3 (GEN).	
10	06	43	16.6&	39.220	S	174.480	E	12			8	8	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.7 (WEL).	
10	07	00	09.7&	9.249	N	84.011	W	21			17	17	COSTA RICA. <CASC>. MD 4.0 (CASC).	
10	07	28	35.4?	21.71	S	68.12	W	162	?	4.0	0.9	6	CHILE-BOLIVIA BORDER REGION	
10	08	20	15.0&	10.516	N	86.571	W	20	G		10	10	OFF COAST OF COSTA RICA. <CASC>. MD 4.0 (CASC).	
10	09	01	34.9&	41.010	N	20.298	E	0		4.3	91	91	ALBANIA. <THE>. ML 4.2 (ROM), 4.0 (PDG), 3.7 (THE). Felt (VI) in the epicentral area.	
10	12	34	24.7&	31.904	S	71.563	W	33			8	8	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).	
10	12	55	10.7?	22.94	S	66.56	W	272	*	3.9	0.5	6	JUJUY PROVINCE, ARGENTINA	
10	13	04	31.2*	2.987	N	122.404	E	587	?	3.4	0.7	9	CELEBES SEA	
10	13	57	23.5?	2.08	S	99.40	E	33	N		0.8	5	SOUTHERN SUMATERA, INDONESIA	
10	14	02	40.9&	39.190	S	174.400	E	12			12	12	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 4.6 (WEL). Felt in the epicentral area.	
10	15	51	42.6&	17.180	N	95.080	W	89		4.2	46	46	OAXACA, MEXICO. <UNM>. MD 4.5 (UNM).	
10	15	56	44.1&	34.015	N	116.312	W	4			12	12	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS). Felt in the Joshua Tree area.	
10	16	22	47.1	8.701	S	106.379	E	33	N	5.6	4.7	1.2	123	SOUTH OF JAWA, INDONESIA. Mw 5.5 (GS), 5.2 (HRV). Moment Tensor (GS): Dep 6; Principal axes (scale 10**17 Nm): (T) Val=1.78, Plg=33, Azm=73; (N) Val=0.80, Plg=38, Azm=313; (P) Val=-2.58, Plg=35, Azm=190; Best double couple: Mo=2.2*10**17 Nm; NP1: Strike=221, Dip=38, Slip=-1; NP2: Strike=312, Dip=89, Slip=-128. Centroid, Moment Tensor (HRV): Centroid origin time 16:22:52.9; Lat 8.92 S Fix; Lon 106.20 E Fix; Dep 22.4 Fix; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=0.61, Plg=25, Azm=94; (N) Val=0.40, Plg=56, Azm=321; (P) Val=-1.01, Plg=22, Azm=195; Best double couple: Mo=8.1*10**16 Nm; NP1: Strike=235, Dip=56, Slip=2; NP2: Strike=144, Dip=88, Slip=146.
10	17	10	12.5&	38.804	N	122.792	W	5			14	14	NORTHERN CALIFORNIA. <NC-P>. MD 3.0 (NC). ML 3.2 (BRK).	
10	17	28	30.6&	15.830	N	93.665	W	98			7	7	NEAR COAST OF CHIAPAS, MEXICO. <UNM>. MD 4.0 (UNM).	
10	18	05	31.2&	37.276	N	2.140	W	16			7	7	SPAIN. <MDD>. mblg 2.2 (MDD).	
10	18	47	35.7*	36.505	N	71.335	E	158	?		1.1	7	AFGHANISTAN-TAJIKISTAN BORD REG.	
10	19	00	25.3&	16.017	N	97.090	W	54			5	5	OAXACA, MEXICO. <UNM>. MD 3.8 (UNM).	
10	19	31	41.0*	3.425	S	139.273	E	78	*	4.3	1.1	12	IRIAN JAYA, INDONESIA	
10	19	44	23.9	6.738	S	143.744	E	10	G	5.2	5.2	0.9	122	NEW GUINEA, PAPUA NEW GUINEA. Mw 5.4 (HRV). ML 4.8 (PMG). Centroid, Moment Tensor (HRV): Centroid origin time 19:44:33.8; Lat 6.36 S; Lon 143.76 E; Dep 16.0 Bdy; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.53, Plg=63, Azm=144; (N) Val=-0.32, Plg=26, Azm=308; (P) Val=-1.20, Plg=6, Azm=41; Best double couple: Mo=1.4*10**17 Nm; NP1: Strike=157, Dip=45, Slip=128; NP2: Strike=289, Dip=56, Slip=59.
10	20	00	41.7&	39.250	S	176.070	E	62			12	12	NORTH ISLAND, NEW ZEALAND. <WEL>.	
10	20	02	19.0*	37.128	N	69.790	E	33	N		1.1	10	AFGHANISTAN-TAJIKISTAN BORD REG.	
10	20	39	56.3	6.829	S	143.763	E	33	N		1.0	10	NEW GUINEA, PAPUA NEW GUINEA	
10	21	32	12.6	4.738	N	96.007	E	33	N	5.1	5.2	1.3	121	NORTHERN SUMATERA, INDONESIA. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 21:32:15.7; Lat 4.99 N; Lon 96.31 E; Dep 15.5; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=2.11, Plg=16, Azm=266; (N) Val=0.18, Plg=63, Azm=142; (P) Val=-2.28, Plg=21, Azm=3; Best double couple: Mo=2.2*10**17 Nm; NP1: Strike=44, Dip=63, Slip=-4; NP2: Strike=135, Dip=86, Slip=-153.

10	22	01	45.9	34.356 N	26.029 E	10 G	5.1 5.1	1.0	311	CRETE, GREECE. Mw 5.3 (HRV). ML 4.6 (CSS). Centroid, Moment Tensor (HRV): Centroid origin time 22:01:48.7; Lat 34.13 N; Lon 25.98 E; Dep 15.0 Fix; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=8.14, Plg=65, Azm=18; (N) Val=1.03, Plg=7, Azm=273; (P) Val=-9.17, Plg=24, Azm=180; Best double couple: Mo=8.7*10**16 Nm; NP1: Strike=256, Dip=22, Slip=72; NP2: Strike=96, Dip=69, Slip=97.
10	22	47	36.5	61.888 N	149.597 W	10 G		0.8	9	SOUTHERN ALASKA
10	23	56	36.5?	34.26 N	25.80 E	33 N	4.1	1.0	5	CRETE, GREECE
11	00	12	33.0&	48.100 N	7.650 E	12			22	FRANCE. <FBB>. ML 2.4 (LDG), 2.0 (STR), 1.8 (FBB).
11	00	56	45.7	45.979 N	16.156 E	10 G		0.8	12	NORTHWESTERN BALKAN REGION. ML 2.8 (ZAG), 2.8 (VIE).
11	01	06	18.0*	29.988 N	140.821 E	140 D	4.0	1.1	22	SOUTHEAST OF HONSHU, JAPAN
11	01	07	11.8?	4.59 N	76.21 W	141 ?	3.8	1.4	12	COLOMBIA
11	01	37	12.8*	34.198 N	26.156 E	10 G		0.6	7	CRETE, GREECE
11	01	52	49.5*	28.918 N	51.762 E	33 N	3.9	1.0	15	SOUTHERN IRAN
11	02	20	34.7	48.444 N	14.831 E	5 G		1.4	8	AUSTRIA. ML 2.6 (VIE), 2.3 (FUR).
11	02	31	29.2	48.455 N	15.061 E	10 G		0.8	20	AUSTRIA. ML 3.4 (FUR), 3.3 (VIE), 3.3 (LDG). Felt (IV) at Schonbach.
11	03	29	32.6%	34.035 S	138.537 E	10 G		1.1	5	NEAR COAST OF SOUTH AUSTRALIA. ML 3.0 (AUST).
11	03	56	53.4&	39.250 S	174.730 E	12			9	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.9 (WEL).
11	04	04	39.7&	44.518 N	6.664 E	0			19	FRANCE. <GEN>. MD 2.2 (LDG). ML 2.1 (GEN), 1.8 (STR).
11	04	16	36.5	23.045 S	69.348 W	92 D	4.4	1.0	26	NORTHERN CHILE
11	05	26	45.1&	45.416 N	6.550 E	2			4	FRANCE. <LDG>. ML 2.0 (LDG).
11	05	58	27.8*	8.156 S	74.273 W	148 ?	3.8	0.6	16	PERU-BRAZIL BORDER REGION
11	06	11	59.7&	36.380 N	3.230 W	15			14	STRAIT OF GIBRALTAR. <MDD>. mblg 2.8 (MDD).
11	06	22	14.7*	37.095 S	71.235 E	128 ?	3.2	0.5	10	AFGHANISTAN-TAJIKISTAN BORD REG.
11	06	31	16.1&	31.641 S	69.801 W	165			15	SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 3.2 (GUC).
11	06	59	43.8	18.311 N	146.574 E	73 ?	4.2	1.0	24	MARIANA ISLANDS
11	07	03	56.8*	51.160 N	15.774 E	5 G		1.1	10	POLAND. ML 3.0 (VIE).
11	07	08	33.0	28.673 N	51.346 E	33 N	4.6	0.8	93	SOUTHERN IRAN
11	07	54	31.4&	41.236 N	6.947 W	0 G			8	PORTUGAL. <MDD>. mblg 2.5 (MDD).
11	07	55	26.4*	21.455 N	108.453 W	54 ?	4.0	1.1	38	REVILLA GIGEDO ISLANDS REGION
11	09	32	20.7*	4.999 S	133.825 E	33 N	4.5	1.2	16	IRIAN JAYA REGION, INDONESIA
11	10	05	10.4	0.938 N	126.544 E	33 N	4.4	1.1	22	NORTHERN MOLUCCA SEA
11	10	33	44.1	4.987 S	134.210 E	33 N	4.7 4.3	1.3	20	IRIAN JAYA REGION, INDONESIA
11	10	35	26.8	41.932 N	12.916 E	10 G	4.7 4.1	1.2	202	SOUTHERN ITALY. ML 4.5 (TRI), 4.1 (LDG), 3.9 (ROM), 3.9 (LJU). Some buildings damaged at Agosta, Cerreto Laziale, Cervaro and Gerano. Felt in the Rome area.
11	11	03	58.0&	33.153 S	69.027 W	11			9	CHILE-ARGENTINA BORDER REGION. <GUC>.
11	11	12	13.9*	44.280 N	148.782 E	53 ?	4.0	1.2	15	KURIL ISLANDS
11	11	39	15.7&	41.780 S	174.280 E	35			10	COOK STRAIT, NEW ZEALAND. <WEL>.
11	12	18	37.7&	47.068 N	1.557 E	12 G			8	FRANCE. <LDG>. ML 1.8 (LDG).
11	12	27	02.3&	43.110 N	0.590 W	5 G			4	PYRENEES. <STR>. ML 2.2 (STR).
11	12	43	37.8*	36.516 N	70.966 E	207 *	3.9	1.1	13	HINDU KUSH REGION, AFGHANISTAN
11	12	47	29.9?	25.50 S	179.75 E	559 ?	4.2	0.9	15	SOUTH OF FIJI ISLANDS
11	13	35	46.0&	37.537 N	118.815 W	6			16	CALIFORNIA-NEVADA BORDER REGION. <NC-P>. MD 3.0 (NC). ML 3.0 (BRK).
11	14	23	16.3?	21.39 N	120.79 E	33 N	3.9	0.8	5	TAIWAN REGION
11	14	58	16.7&	33.508 S	70.872 W	72			20	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 4.3 (GUC). Felt (III) at Melocoton, Rancagua, San Antonio and Santiago; (II) at Casablanca, Concon, Los Andes, Quillota and Valparaiso, Chile.
11	16	28	23.1?	17.61 S	70.30 W	117 ?	4.1	1.2	17	NEAR COAST OF PERU. Felt (III) at Moquegua.
11	17	19	13.5	27.535 N	139.709 E	460 D	5.0	0.8	247	BONIN ISLANDS, JAPAN REGION. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 17:19:17.7; Lat 27.52 N; Lon 139.82 E; Dep 455.2; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.15, Plg=17, Azm=71; (N) Val=1.09, Plg=16, Azm=166; (P) Val=-7.23, Plg=66, Azm=297; Best double couple: Mo=6.7*10**16 Nm; NP1: Strike=138, Dip=31, Slip=-122; NP2: Strike=354, Dip=64, Slip=72.
11	17	58	33.7	45.922 N	15.212 E	10 G		0.2	7	NORTHWESTERN BALKAN REGION. ML 1.9 (VIE), 1.4 (LJU).
11	18	12	39.5*	1.227 N	126.355 E	33 N	4.4	1.0	10	NORTHERN MOLUCCA SEA
11	19	08	28.7&	48.050 N	7.580 E	5 G			12	FRANCE. <STR>. MD 2.4 (LDG). ML 1.8 (STR).
11	19	09	55.9&	47.619 N	1.340 W	3 G			8	FRANCE. <LDG>. MD 2.3 (LDG).
11	19	54	13.2*	30.333 S	178.984 W	33 N	4.9 4.6	1.2	27	KERMADEC ISLANDS, NEW ZEALAND. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 19:54:14.3; Lat 30.13 S; Lon 179.19 W; Dep 16.0; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.37, Plg=18, Azm=103; (N) Val=1.81, Plg=6, Azm=195; (P) Val=-8.18, Plg=71, Azm=303; Best double couple: Mo=7.3*10**16 Nm; NP1: Strike=183, Dip=28, Slip=-103; NP2: Strike=18, Dip=63, Slip=-83.
11	20	27	52.4	28.574 N	130.643 E	33 N	4.6 4.2	1.0	44	RYUKYU ISLANDS, JAPAN. Recorded (1 JMA) on Amami-O-shima and Kikai-jima.
11	21	13	15.8	51.655 N	16.081 E	5 G	3.8	1.1	45	POLAND. ML 4.0 (GRF), 3.8 (VIE), 3.7 (FUR).
11	21	41	28.0	11.357 N	125.776 E	33 N	4.7 3.9	0.9	46	SAMAR, PHILIPPINES
11	21	46	07.8&	33.839 N	117.744 W	4			13	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS). Felt at Anaheim and in the Yorba Linda area.
11	21	58	47.9*	11.244 N	125.727 E	33 N	4.4	0.4	12	SAMAR, PHILIPPINES
11	21	59	37.2*	11.302 N	125.783 E	33 N	3.8	0.5	9	SAMAR, PHILIPPINES
11	22	01	38.1&	31.708 S	69.752 W	161			11	SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 3.7 (GUC).
11	23	15	00.0*	9.622 S	155.395 E	33 N	4.9 4.3	1.1	24	D'ENTRECASTEAUX ISLANDS REGION. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 23:15:00.2; Lat 9.62 S; Lon 155.40 E; Dep 33.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.28, Plg=8, Azm=195; (N) Val=-1.53, Plg=42, Azm=97; (P) Val=-4.75, Plg=47, Azm=294; Best double couple: Mo=5.5*10**16 Nm; NP1: Strike=322, Dip=51, Slip=-32; NP2: Strike=73, Dip=65, Slip=-137.
11	23	25	02.6&	40.480 S	174.910 E	37			11	COOK STRAIT, NEW ZEALAND. <WEL>. Felt in Stratford County on the North Island.

12	00	00	59.7?	43.53	N	147.80	E	250	G	0.8	10	KURIL ISLANDS
12	00	27	26.4	10.462	N	61.803	W	3			8	TRINIDAD. <TRN>. MD 3.6 (TRN).
12	00	28	46.1	45.145	N	14.841	E	10	G	0.9	70	NORTHWESTERN BALKAN REGION. ML 4.0 (FUR), 4.0 (STR), 4.0 (GRF), 3.9 (ZAG), 3.7 (VIE), 3.5 (TRI), 3.5 (LDG). Felt at Gospic, Josipdol, Otocac, Rijeka and Senj, Croatia.
12	00	39	34.1	35.291	N	23.369	E	33	N 4.0	1.0	62	CRETE, GREECE
12	00	45	58.5	34.405	N	32.096	E	25			5	CYPRUS REGION. <CSS>. ML 3.0 (CSS).
12	01	26	05.9	31.647	S	69.977	W	164			13	SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 3.3 (GUC).
12	01	57	07.5	58.898	S	29.637	W	33	N 4.5	1.4	14	SOUTH SANDWICH ISLANDS REGION
12	02	09	46.0	38.118	N	11.188	E	10	G 3.5	0.8	32	SICILY, ITALY. ML 3.3 (ROM).
12	02	28	07.9	38.543	N	68.967	E	49	* 4.1	0.6	12	TAJIKISTAN
12	03	36	04.3	42.958	N	146.747	E	51	* 4.2	0.7	23	OFF COAST OF HOKKAIDO, JAPAN
12	03	44	49.0	20.076	N	99.270	W	5			16	CENTRAL MEXICO. <UNM>. MD 4.1 (UNM).
12	04	30	39.8	47.632	N	1.354	W	4	G		7	FRANCE. <LDG>. ML 1.8 (LDG).
12	04	40	54.7	5.394	S	154.140	E	128	? 4.2	1.0	13	SOLOMON ISLANDS
12	05	48	39.7?	2.25	S	139.80	E	33	N 4.0	1.1	4	NEAR NORTH COAST OF IRIAN JAYA
12	05	51	41.9	62.520	N	150.446	W	71			36	CENTRAL ALASKA. <AEIC>.
12	05	58	37.3	36.998	N	4.031	W	0	G		33	STRAIT OF GIBALTAR. <MDD>. mbLg 2.9 (MDD). Felt (III) at Alhama de Granada and (II) at Santa Cruz de Alhama and Zafarraya, Spain.
12	06	14	25.0	6.674	N	73.035	W	188	* 4.1	0.9	28	NORTHERN COLOMBIA
12	06	59	36.0	34.965	N	120.727	W	6	G 3.5		25	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.7 (PAS). Felt in the Grover Beach-Los Osos area.
12	08	32	42.6	40.625	N	23.153	E	2			16	GREECE. <THE>. ML 2.8 (THE).
12	08	37	25.2	15.329	N	95.767	W	11			8	NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 4.0 (UNM).
12	08	42	23.5	16.619	S	67.400	E	10	G 4.9 4.3	1.3	60	MID-INDIAN RIDGE. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 08:42:27.7; Lat 16.12 S; Lon 66.90 E; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.15, Plg=4, Azm=103; (N) Val=-0.11, Plg=71, Azm=1; (P) Val=-1.04, Plg=19, Azm=194; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=237, Dip=74, Slip=-11; NP2: Strike=330, Dip=80, Slip=-164.
12	08	59	02.0	16.266	N	93.784	W	131	4.2	0.8	40	CHIAPAS, MEXICO. MD 4.5 (UNM).
12	09	36	13.5	34.666	N	116.211	W	6	G		11	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
12	09	40	18.4	41.786	N	126.224	W	10	G	0.5	37	OFF COAST OF NORTHERN CALIFORNIA
12	10	11	33.1	8.715	N	83.347	W	20	G		18	COSTA RICA. <CASC>. MD 4.2 (CASC).
12	10	23	24.4	53.451	N	34.524	W	10	G 4.2	1.1	8	REYKJANES RIDGE
12	10	50	58.4	46.369	N	152.151	E	53	*	1.1	13	KURIL ISLANDS
12	11	37	27.0?	11.71	S	166.13	E	146	? 4.4	1.1	14	SANTA CRUZ ISLANDS
12	12	14	50.5	31.826	N	50.016	E	33	N 4.5 3.8	1.0	45	NORTHERN AND CENTRAL IRAN
12	13	14	09.5	43.639	N	150.520	E	33	N	1.0	15	EAST OF KURIL ISLANDS
12	13	34	47.6	12.804	S	166.564	E	88	* 4.9	1.1	67	SANTA CRUZ ISLANDS. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 13:34:42.1; Lat 12.80 S Fix; Lon 166.56 E Fix; Dep 87.9 Fix; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.11, Plg=13, Azm=104; (N) Val=-0.04, Plg=68, Azm=339; (P) Val=-1.06, Plg=18, Azm=198; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=241, Dip=68, Slip=-3; NP2: Strike=332, Dip=87, Slip=-158.
12	15	02	33.1	37.377	N	140.044	E	33	N 4.2	0.4	11	EASTERN HONSHU, JAPAN
12	17	06	44.1	27.897	S	73.965	E	10	G	0.8	10	MID-INDIAN RIDGE
12	18	03	56.2	17.099	N	73.672	E	33	N 4.9 4.4	1.1	93	SOUTHERN INDIA. Mw 5.0 (HRV). Several houses destroyed and some buildings damaged at Dahivadi. Felt at Alibag, Bombay, Goa, Karad, Kolhapur, Koynanagar, Pune, Satara and Solapur. Centroid, Moment Tensor (HRV): Centroid origin time 18:03:56.5; Lat 17.45 N; Lon 73.93 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=3.55, Plg=22, Azm=265; (N) Val=1.00, Plg=2, Azm=356; (P) Val=-4.55, Plg=68, Azm=90; Best double couple: Mo=4.1*10**16 Nm; NP1: Strike=352, Dip=23, Slip=-95; NP2: Strike=176, Dip=67, Slip=-88.
12	18	15	10.9	12.517	N	87.912	W	200	G 4.6	0.9	11	NEAR COAST OF NICARAGUA
12	18	20	18.7	11.995	N	87.912	W	33	N 4.8 4.3	1.1	67	NEAR COAST OF NICARAGUA. MD 4.7 (CASC).
12	18	25	41.6	51.571	N	143.162	E	10	G 4.1	1.3	20	SAKHALIN ISLAND, RUSSIA. Felt (IV) at Aleksandrovsk-Sakhalinskiy, Mgachi and Nysh.
12	18	34	27.7?	24.39	S	66.96	W	150	G 4.1	0.9	5	SALTA PROVINCE, ARGENTINA
12	18	50	54.6	41.909	N	20.425	E	10	G	1.0	17	ALBANIA
12	18	58	09.6	45.805	N	16.116	E	10	G	0.6	13	NORTHWESTERN BALKAN REGION. ML 3.2 (VIE).
12	19	01	57.7?	46.03	N	14.80	E	10	G	0.2	4	NORTHWESTERN BALKAN REGION. ML 0.7 (LUJ).
12	19	22	59.2	41.793	N	126.171	W	10	G	0.7	36	OFF COAST OF NORTHERN CALIFORNIA
12	19	32	24.6	12.500	N	88.568	W	101	* 4.5	1.3	23	OFF COAST OF CENTRAL AMERICA
12	19	33	11.3?	3.01	N	127.95	E	33	N 4.5	1.0	5	TALAUD ISLANDS, INDONESIA
12	19	51	40.0	42.900	N	8.658	W	11			5	SPAIN. <MDD>. mbLg 2.2 (MDD).
12	20	23	16.6	34.861	N	116.404	W	5			4	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
12	20	24	35.7	33.314	N	139.515	E	33	N	1.2	16	SOUTHEAST OF HONSHU, JAPAN
12	21	53	12.7	13.631	N	88.948	W	200	G 4.3	1.0	18	EL SALVADOR
12	22	11	24.3?	12.32	N	88.62	W	33	N 4.4	1.2	15	OFF COAST OF CENTRAL AMERICA
12	22	21	30.4	14.975	N	92.444	W	62	D 5.5 5.8	0.9	396	NEAR COAST OF CHIAPAS, MEXICO. Mw 6.3 (GS), 6.3 (HRV). Me 5.8 (GS). MD 5.4 (UNM), 5.4 (CASC). Some damage at Quezaltenango and San Marcos, Guatemala. Felt at Guatemala City and in other parts of Guatemala. Also felt as far as Mexico City, Mexico and San Salvador, El Salvador. Broadband Source Parameters (GS): Dep 53; NP1: Strike=115, Dip=80, Slip=100; NP2: Strike=250, Dip=14, Slip=45; Radiated energy 1.3*10**13 Nm. Moment Tensor (GS): Dep 56; Principal axes (scale 10**18 Nm): (T) Val=3.24, Plg=52, Azm=35; (N) Val=-0.02, Plg=9, Azm=137; (P) Val=-3.23, Plg=36, Azm=234; Best double couple: Mo=3.2*10**18 Nm; NP1: Strike=5, Dip=12, Slip=139; NP2: Strike=136, Dip=82, Slip=81. Centroid, Moment Tensor (HRV): Centroid origin time 22:21:36.0; Lat 14.84 N; Lon 93.02 W; Dep 66.7; Half-

duration 3.6 sec; Principal axes (scale 10**18 Nm): (T) Val=3.09, Plg=52, Azm=63; (N) Val=0.07, Plg=16, Azm=310; (P) Val=-3.16, Plg=33, Azm=210; Best double couple: Mo=3.1*10**18 Nm; NP1: Strike=254, Dip=19, Slip=32; NP2: Strike=133, Dip=80, Slip=107.

12	22	35	22.1*	15.073 N	92.556 W	88 *				1.4	14	MEXICO-GUATEMALA BORDER REGION. MD 4.2 (UNM).
12	23	28	17.8*	28.806 S	178.809 W	350 G	4.3			1.2	15	KERMADEC ISLANDS REGION
12	23	49	29.2	6.942 S	144.064 E	33 N	4.8			0.9	18	NEW GUINEA, PAPUA NEW GUINEA
13	01	09	20.6	61.835 N	147.929 W	26					34	SOUTHERN ALASKA. <AEIC>. ML 2.8 (AEIC), 2.9 (PMR).
13	01	22	44.5*	14.079 N	92.584 W	33 N	3.8			0.9	14	NEAR COAST OF CHIAPAS, MEXICO. MD 4.5 (UNM).
13	03	51	24.6	45.046 N	5.420 E	3 G					11	FRANCE. <LDG>. ML 2.2 (STR), 1.9 (LDG).
13	04	04	28.0	42.360 S	174.580 E	33 N					11	OFF E. COAST OF S. ISLAND, N.Z. <WEL>. ML 3.5 (WEL).
13	04	16	07.7	43.297 N	0.946 W	13					90	PYRENEES. <LDG>. ML 4.2 (STR), 3.8 (LDG). Felt (VI) in the Pays Basque, France.
13	04	37	15.4*	50.804 N	158.406 E	33 N				1.4	11	EAST OF KURIL ISLANDS
13	05	17	59.4	47.156 N	0.248 E	3 G					16	FRANCE. <LDG>. ML 2.3 (LDG).
13	05	32	09.9	40.010 S	175.180 E	5					11	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.1 (WEL).
13	05	44	26.6*	13.76 N	92.58 W	33 N				0.8	13	OFF COAST OF CHIAPAS, MEXICO. MD 4.6 (UNM).
13	05	44	37.1	78.523 N	13.057 W	10 G				0.5	12	GREENLAND SEA
13	06	34	55.6	33.720 S	71.268 W	42					10	NEAR COAST OF CENTRAL CHILE. <GUC>.
13	07	10	28.6	19.021 N	145.360 E	228 *	4.5			0.8	62	MARIANA ISLANDS
13	08	02	35.7	45.890 N	1.435 W	3 G					18	FRANCE. <LDG>. ML 2.7 (LDG).
13	08	15	13.2	19.672 N	105.133 W	68	4.4			0.9	92	NEAR COAST OF JALISCO, MEXICO. MD 4.7 (UNM).
13	08	47	38.9	15.297 N	92.012 W	202					14	MEXICO-GUATEMALA BORDER REGION. <UNM>. MD 4.2 (UNM).
13	09	51	47.6*	5.435 S	154.119 E	134 *	4.7			0.6	13	SOLOMON ISLANDS
13	10	47	33.7*	14.888 S	177.589 W	400 G	4.2			0.8	39	FIJI ISLANDS REGION
13	10	48	16.4	44.685 N	8.598 E	3					8	NORTHERN ITALY. <GEN>. ML 2.0 (GEN).
13	11	02	20.4	59.313 N	153.490 W	108					24	SOUTHERN ALASKA. <AEIC>.
13	12	06	47.2	51.677 N	16.167 E	5 G	4.1			1.2	50	POLAND. ML 4.0 (GRF), 3.9 (FUR), 3.8 (VIE), 3.7 (CLL).
13	12	18	04.7	12.518 N	88.791 W	33 N	4.3			1.3	57	OFF COAST OF CENTRAL AMERICA. MD 4.6 (CASC).
13	12	27	46.9*	7.344 S	74.371 W	100 G	4.2			0.8	21	PERU-BRAZIL BORDER REGION
13	13	48	21.6*	20.313 N	121.380 E	33 N	4.0			0.9	8	PHILIPPINE ISLANDS REGION
13	14	18	46.4	35.356 N	23.381 E	50 D	4.7			1.4	222	CRETE, GREECE. MD 4.5 (ATH).
13	15	57	32.0	6.442 S	130.173 E	33 N	4.9			1.5	38	BANDA SEA
13	16	55	17.6	44.712 N	6.771 E	7					6	FRANCE. <GEN>. ML 2.0 (GEN).
13	17	05	59.5*	16.98 S	67.21 E	10 G	4.6			1.2	12	MID-INDIAN RIDGE
13	19	57	54.8	34.083 N	26.081 E	33 N	4.1 3.7			1.3	100	CRETE, GREECE
13	20	32	13.1	78.351 N	7.642 E	10 G	4.2			1.1	15	SVALBARD REGION
13	20	44	21.5	46.658 N	0.456 E	4 G					5	FRANCE. <LDG>. ML 1.7 (LDG).
13	20	44	31.5	27.656 N	87.852 E	33 N	4.3			1.2	19	NEPAL
13	22	35	42.2*	46.472 N	150.852 E	100 *	3.3			0.8	11	KURIL ISLANDS
13	22	46	12.6*	7.155 S	129.057 E	33 N	4.1			1.1	15	BANDA SEA
13	23	09	14.9*	29.526 N	81.373 E	33 N				1.1	17	NEPAL
13	23	14	36.8*	26.296 S	70.066 W	33 N				1.1	6	NEAR COAST OF NORTHERN CHILE
13	23	16	19.0	29.204 N	51.440 E	33 N	4.7			1.0	127	SOUTHERN IRAN
14	00	02	20.6	6.078 S	149.325 E	73	4.9			0.8	38	NEW BRITAIN REGION, P.N.G. Mw 5.2 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 00:02:24.8; Lat 5.92 S; Lon 149.42 E; Dep 18.6; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=7.50, Plg=73, Azm=321; (N) Val=-1.34, Plg=17, Azm=131; (P) Val=-6.17, Plg=3, Azm=222; Best double couple: Mo=6.8*10**16 Nm; NP1: Strike=329, Dip=45, Slip=115; NP2: Strike=116, Dip=50, Slip=67.												
14	00	20	46.7*	16.613 S	69.498 W	183 *	3.7			1.3	8	PERU-BOLIVIA BORDER REGION
14	00	52	25.3*	54.380 N	86.205 E	10 G	4.1			1.4	16	SOUTHWESTERN SIBERIA, RUSSIA
14	01	08	21.9	63.474 N	151.021 W	3					21	CENTRAL ALASKA. <AEIC>. ML 2.6 (AEIC), 2.9 (PMR).
14	01	08	55.5	60.071 N	153.146 W	121	2.8				21	SOUTHERN ALASKA. <AEIC>.
14	01	46	10.0	21.013 S	178.715 W	584 D	4.7			0.9	149	FIJI ISLANDS REGION
14	02	14	11.0	4.914 S	130.066 E	33 N	5.4 4.8			0.8	114	BANDA SEA. Mw 5.4 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 02:14:12.2; Lat 4.45 S; Lon 129.96 E; Dep 63.8; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=1.12, Plg=55, Azm=0; (N) Val=0.53, Plg=1, Azm=91; (P) Val=-1.65, Plg=35, Azm=182; Best double couple: Mo=1.4*10**17 Nm; NP1: Strike=277, Dip=10, Slip=96; NP2: Strike=91, Dip=80, Slip=89.												
14	02	14	49.5	20.875 S	178.712 W	568 D	4.6			0.9	101	FIJI ISLANDS REGION
14	02	58	47.5	47.557 N	15.555 E	10 G				1.2	17	AUSTRIA. ML 3.1 (VIE), 3.1 (GRF), 3.0 (CLL), 3.0 (FUR). Felt (V) at Veitsch.
14	03	50	09.4	43.700 N	7.770 E	12					22	NEAR SOUTH COAST OF FRANCE. <GEN>. ML 2.2 (GEN), 2.0 (LDG), 2.0 (STR).
14	03	51	26.0	43.687 N	7.769 E	13					7	NEAR SOUTH COAST OF FRANCE. <GEN>. ML 2.0 (GEN).
14	04	17	16.1*	17.169 S	70.642 W	132 *	4.2			1.0	27	NEAR COAST OF PERU
14	04	23	46.5	16.159 N	98.099 W	33 N	4.2			1.3	50	NEAR COAST OF GUERRERO, MEXICO. MD 4.5 (UNM).
14	04	27	13.3	47.157 N	0.875 E	6 G					9	FRANCE. <LDG>. ML 1.9 (LDG).
14	04	42	25.7	34.797 N	32.559 E	25					4	CYPRUS REGION. <CSS>. ML 1.7 (CSS).
14	05	00	39.3*	22.526 S	66.089 W	253	3.8			0.7	13	JUJUY PROVINCE, ARGENTINA
14	05	36	57.0*	2.333 N	128.572 E	232 ?	3.9			0.6	10	HALMAHERA, INDONESIA
14	06	06	13.7*	6.095 S	104.220 E	33 N	5.0			1.5	19	SUNDA STRAIT, INDONESIA
14	06	15	51.8	17.551 N	145.608 E	205 D	4.6			1.0	72	MARIANA ISLANDS
14	06	18	36.9	36.273 S	96.888 W	10 G	5.0 4.8			0.9	77	WEST CHILE RISE. Mw 5.4 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 06:18:38.8; Lat 36.50 S; Lon 97.05 W; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.40, Plg=24, Azm=39; (N) Val=-0.24, Plg=58, Azm=264; (P) Val=-1.16, Plg=20, Azm=139; Best double couple: Mo=1.3*10**17 Nm; NP1: Strike=180, Dip=58, Slip=3; NP2: Strike=88, Dip=87, Slip=148.												
14	06	33	17.8?	6.95 S	106.23 E	33 N	4.2			1.0	10	JAWA, INDONESIA
14	07	02	55.8?	31.50 S	69.33 W	100 G				0.9	13	SAN JUAN PROVINCE, ARGENTINA
14	07	18	33.7*	16.362 N	97.953 W	75 D	4.2			1.4	50	OAXACA, MEXICO. MD 4.6 (UNM).
14	07	26	16.5*	15.889 N	98.121 W	10 G	4.2			1.5	27	OFF COAST OF GUERRERO, MEXICO. MD 4.2 (UNM).
14	07	45	29.3*	58.278 N	154.780 W	33 N	3.3			1.1	15	ALASKA PENINSULA. ML 3.6 (PMR).

14	07	55	37.5&	58.248 N	155.146 W	0	2.8			28	ALASKA PENINSULA. <AEIC>. ML 2.9 (AEIC).	
14	09	51	29.6&	34.394 N	32.130 E	15				6	CYPRUS REGION. <CSS>. ML 2.9 (CSS).	
14	10	56	29.5&	43.940 N	7.170 E	2	G			5	NEAR SOUTH COAST OF FRANCE. <STR>. ML 2.2 (STR).	
14	11	06	33.4&	34.798 N	116.265 W	4				12	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).	
14	12	16	38.1*	11.676 S	162.337 E	33	N	4.8	1.5	15	SOLOMON ISLANDS	
14	13	34	57.1	10.741 N	41.069 W	10	G	4.7	1.2	44	NORTHERN MID-ATLANTIC RIDGE	
14	13	43	47.6&	44.169 N	6.941 E	2				11	FRANCE. <GEN>. ML 1.9 (GEN), 1.8 (STR).	
14	13	49	50.8	4.832 S	144.307 E	55	*	4.7	4.3	51	NEAR N COAST OF NEW GUINEA, PNG.	
14	18	42	35.5*	61.707 S	161.272 E	10	G	5.5	5.3	0.9	33	BALLENY ISLANDS REGION. Mw 5.7 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 18:42:42.4; Lat 61.67 S; Lon 160.92 E; Dep 15.0 Fix; Half- duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=3.78, Plg=6, Azm=193; (N) Val=-0.37, Plg=83, Azm=340; (P) Val=-3.41, Plg=4, Azm=103; Best double couple: Mo=3.6*10**17 Nm; NP1: Strike=238, Dip=83, Slip=179; NP2: Strike=328, Dip=89, Slip=7.
14	18	59	45.1&	18.015 N	67.069 W	5				8	MONA PASSAGE. <RSPR>. MD 3.5 (RSPR).	
14	19	26	14.4&	36.969 N	3.973 W	72				9	STRAIT OF GIBRALTAR. <MDD>.	
14	20	22	18.8*	61.770 S	160.816 E	10	G	5.3	5.3	1.2	30	BALLENY ISLANDS REGION. Mw 5.6 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 20:22:25.6; Lat 61.91 S; Lon 160.86 E; Dep 15.0 Fix; Half- duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.50, Plg=16, Azm=11; (N) Val=-0.16, Plg=73, Azm=178; (P) Val=-2.34, Plg=4, Azm=280; Best double couple: Mo=2.4*10**17 Nm; NP1: Strike=54, Dip=76, Slip=171; NP2: Strike=146, Dip=81, Slip=14.
14	20	31	14.8&	32.322 S	71.097 W	79				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).	
14	20	48	57.7?	61.83 S	160.12 E	10	G	5.0	5.2	1.4	12	BALLENY ISLANDS REGION. Mw 5.6 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 20:49:00.0; Lat 61.83 S Fix; Lon 160.12 E Fix; Dep 15.0 Fix; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.03, Plg=8, Azm=194; (N) Val=1.25, Plg=55, Azm=296; (P) Val=-3.28, Plg=34, Azm=98; Best double couple: Mo=2.7*10**17 Nm; NP1: Strike=242, Dip=60, Slip=-160; NP2: Strike=142, Dip=73, Slip=-31.
14	20	49	14.5&	34.525 N	31.997 E	25				7	CYPRUS REGION. <CSS>. ML 2.5 (CSS).	
14	21	13	52.6	28.901 N	51.945 E	33	N	4.3	1.0	35	SOUTHERN IRAN	
14	22	01	55.1&	18.054 N	67.337 W	12				5	MONA PASSAGE. <RSPR>. MD 2.8 (RSPR).	
14	22	07	45.9*	47.527 N	15.552 E	10	G		1.5	6	AUSTRIA. ML 2.2 (VIE). Felt (III) at Wartberg.	
14	22	10	21.7	4.719 S	103.160 E	33	N	4.9	4.9	0.9	76	SOUTHERN SUMATERA, INDONESIA
14	22	23	22.3&	18.642 N	66.139 W	73				6	PUERTO RICO REGION. <RSPR>. MD 2.8 (RSPR).	
14	23	23	12.4&	39.230 S	174.600 E	12				11	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.7 (WEL).	
14	23	39	25.7&	34.005 N	117.222 W	15				9	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).	
14	23	41	11.4&	33.938 S	70.003 W	8				6	CHILE-ARGENTINA BORDER REGION. <GUC>.	
14	23	49	59.5	14.072 N	92.337 W	33	N	4.8	4.7	0.8	92	NEAR COAST OF CHIAPAS, MEXICO. MD 4.9 (UNM).
14	23	55	00.9?	23.27 S	66.24 W	226	*	4.0	0.9	13	JUJUY PROVINCE, ARGENTINA	
15	00	09	24.7&	15.987 N	98.271 W	2				9	OFF COAST OF GUERRERO, MEXICO. <UNM>. MD 4.1 (UNM).	
15	01	34	33.4	30.733 S	71.387 W	62	D	4.6	0.9	67	NEAR COAST OF CENTRAL CHILE. MD 4.6 (GUC). Felt (V) at Ovalle and Punitaqui; (IV) at Combarbala; (III) at Hurtado, Monte Patria and Vicuna.	
15	02	04	21.5	55.456 N	163.039 E	33	N		0.8	9	OFF EAST COAST OF KAMCHATKA	
15	03	23	17.1&	10.468 N	61.584 W	42				4	TRINIDAD. <TRN>. MD 2.7 (TRN).	
15	03	40	44.2&	44.428 N	7.257 E	14				8	NORTHERN ITALY. <GEN>. ML 2.0 (GEN).	
15	04	48	20.0&	41.420 N	112.870 W	6				27	UTAH. <SLC-P>. ML 2.9 (SLC).	
15	06	13	16.2&	44.696 N	6.744 E	7				16	FRANCE. <GEN>. ML 2.2 (GEN), 2.1 (LDG).	
15	06	35	05.2	44.396 S	117.435 W	10	G	5.9	5.5	0.9	290	SOUTH PACIFIC OCEAN. Mw 5.9 (GS), 5.9 (HRV). Me 5.6 (GS). Broadband Source Parameters (GS): Dep 11; NP1: Strike=120, Dip=65, Slip=-50; NP2: Strike=237, Dip=46, Slip=-144; Radiated energy 5.3*10**12 Nm. Moment Tensor (GS): Dep 7; Principal axes (scale 10**17 Nm): (T) Val=9.47, Plg=10, Azm=195; (N) Val=-0.92, Plg=24, Azm=290; (P) Val=-8.55, Plg=63, Azm=84; Best double couple: Mo=9.0*10**17 Nm; NP1: Strike=258, Dip=41, Slip=-129; NP2: Strike=125, Dip=60, Slip=-62. Centroid, Moment Tensor (HRV): Centroid origin time 06:35:13.0; Lat 44.57 S; Lon 117.46 W; Dep 15.0 Bdy; Half- duration 2.2 sec; Principal axes (scale 10**18 Nm): (T) Val=1.03, Plg=5, Azm=17; (N) Val=-0.19, Plg=27, Azm=285; (P) Val=-0.84, Plg=63, Azm=116; Best double couple: Mo=9.3*10**17 Nm; NP1: Strike=133, Dip=47, Slip=-52; NP2: Strike=264, Dip=55, Slip=-123.
15	09	10	09.2&	63.675 N	151.076 W	0		4.3		84	CENTRAL ALASKA. <AEIC>. ML 4.3 (AEIC), 4.7 (PMR).	
15	09	25	10.2*	3.043 S	141.903 E	33	N	3.9	0.9	7	NEW GUINEA, PAPUA NEW GUINEA	
15	09	31	07.2&	19.721 N	66.045 W	72				8	PUERTO RICO REGION. <RSPR>. MD 3.9 (RSPR).	
15	09	50	35.3*	51.204 N	15.817 E	5	G		0.6	9	POLAND. ML 3.6 (VIE).	
15	10	23	19.7&	47.460 N	7.250 E	1	G			6	SWITZERLAND. <STR>. ML 2.0 (STR).	
15	11	16	22.4*	45.609 N	15.346 E	10	G		0.3	5	NORTHWESTERN BALKAN REGION. ML 1.0 (LJU).	
15	11	20	21.2*	51.651 N	16.267 E	5	G		1.2	10	POLAND. ML 3.2 (VIE).	
15	11	50	57.3	12.016 S	166.599 E	146	D	4.7	1.0	57	SANTA CRUZ ISLANDS	
15	12	04	35.5	23.893 S	179.909 W	508	D	4.5	1.0	47	SOUTH OF FIJI ISLANDS	
15	12	14	27.5	38.367 N	108.867 W	5	G		0.7	15	COLORADO. ML 3.3 (SLC), 3.1 (GS).	
15	12	20	49.3&	61.416 N	147.316 W	10				39	SOUTHERN ALASKA. <AEIC>. ML 2.8 (AEIC), 3.1 (PMR).	
15	12	26	50.7*	34.303 N	45.919 E	114	?	3.5	0.6	8	IRAN-IRAQ BORDER REGION	
15	12	43	38.2&	43.126 N	0.416 W	12	G			12	PYRENEES. <LDG>. ML 2.7 (LDG), 2.6 (STR). Felt (III) in the Ossau Valley, France.	
15	12	46	59.7&	60.284 N	150.847 W	91				61	KENAI PENINSULA, ALASKA. <AEIC>.	
15	12	48	59.9&	59.199 N	142.774 W	32				21	GULF OF ALASKA. <AEIC>. ML 2.9 (AEIC), 2.9 (PGC).	
15	12	50	20.4&	43.144 N	0.430 W	12	G			16	PYRENEES. <LDG>. ML 2.8 (LDG), 2.6 (STR). Felt (III) in the Ossau Valley, France.	
15	13	39	51.8&	37.486 N	118.841 W	3				11	CALIFORNIA-NEVADA BORDER REGION. <NC-P>. MD 2.8 (NC).	
15	14	21	06.4&	34.203 N	116.849 W	2				8	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.7 (PAS). Felt in the Big Bear Lake area.	
15	14	46	09.5&	38.540 S	176.380 E	136				14	NORTH ISLAND, NEW ZEALAND. <WEL>.	

15	15	51	03.9	9.418 S	112.786 E	47 D	4.9	0.9	29	SOUTH OF JAWA, INDONESIA
15	16	24	51.4	46.944 N	1.157 E	5 G			10	FRANCE. <LDG>. ML 2.3 (LDG).
15	17	01	59.6	49.659 N	2.180 W	6 G			10	FRANCE. <LDG>. ML 2.6 (LDG).
15	17	48	21.9	32.510 S	68.737 W	33 N	4.8	1.1	47	MENDOZA PROVINCE, ARGENTINA. MD 4.6 (GUC).
15	18	37	44.7	12.254 N	143.143 E	33 N	3.8	0.6	9	SOUTH OF MARIANA ISLANDS
15	18	58	49.3	36.298 N	71.399 E	115 *	4.3	1.0	19	AFGHANISTAN-TAJIKISTAN BORD REG.
15	19	26	41.6	34.420 S	71.253 W	57			12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.2 (GUC).
15	20	13	58.9	32.482 S	68.558 W	100 G		1.1	18	MENDOZA PROVINCE, ARGENTINA. MD 3.7 (GUC).
15	20	29	23.8	26.490 N	124.335 E	261 D	4.6	1.2	53	NORTHEAST OF TAIWAN
15	20	46	50.1	53.371 N	163.643 W	10 G	4.7 4.3		137	UNIMAK ISLAND REGION, ALASKA. <AEIC>. ML 4.3 (AEIC), 4.8 (PMR).
15	22	00	29.3	40.925 N	71.047 E	33 N	4.0	1.0	15	TAJIKISTAN
15	22	59	29.6	38.120 S	176.580 E	144			22	NORTH ISLAND, NEW ZEALAND. <WEL>.
15	23	35	01.5	12.05 N	143.43 E	33 N	3.7	1.3	8	SOUTH OF MARIANA ISLANDS
16	00	22	02.7	13.638 N	71.034 W	33 N	4.5	1.3	42	CARIBBEAN SEA
16	00	37	33.0	63.201 N	151.048 W	1			9	CENTRAL ALASKA. <AEIC>. ML 2.2 (AEIC), 2.8 (PMR).
16	00	37	53.7	22.605 N	121.618 E	33 N	4.8 3.9	1.0	38	TAIWAN REGION. ML 5.0 (TAP). Recorded (4 TAP) at Cheng-kung and (2 TAP) at Tai-tung.
16	01	42	36.4	17.887 S	178.676 W	631	4.9	0.9	181	FIJI ISLANDS REGION. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 01:42:32.9; Lat 18.36 S; Lon 178.87 W; Dep 628.1; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.08, Plg=64, Azm=14; (N) Val=-0.04, Plg=3, Azm=111; (P) Val=-1.05, Plg=26, Azm=202; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=300, Dip=19, Slip=100; NP2: Strike=109, Dip=71, Slip=86.
16	02	40	24.6	41.890 S	174.680 E	31			6	COOK STRAIT, NEW ZEALAND. <WEL>. ML 3.0 (WEL).
16	03	51	51.0	65.301 N	86.096 W	5 G	4.5	1.2	14	NW TERRITORIES - NUNAVUT, CANADA. mbLg 4.1 (OTT).
16	04	08	33.3	35.743 N	4.561 W	102			8	STRAIT OF GIBRALTAR. <MDD>.
16	04	35	17.7	34.044 N	118.821 W	14			12	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS). Felt in the Malibu area.
16	06	12	21.8	41.090 S	174.850 E	50			9	COOK STRAIT, NEW ZEALAND. <WEL>.
16	06	13	19.0	42.556 S	82.772 W	10 G	4.9 4.9	1.0	37	WEST CHILE RISE. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 06:13:20.3; Lat 43.02 S; Lon 82.67 W; Dep 15.0 Fix; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.92, Plg=2, Azm=214; (N) Val=-0.17, Plg=84, Azm=326; (P) Val=-1.75, Plg=5, Azm=123; Best double couple: Mo=1.8*10**17 Nm; NP1: Strike=259, Dip=85, Slip=-178; NP2: Strike=168, Dip=88, Slip=-5.
16	07	11	18.5	6.956 S	155.043 E	33 N	5.0	0.8	34	SOLOMON ISLANDS
16	07	12	08.3	40.730 S	174.420 E	74			6	COOK STRAIT, NEW ZEALAND. <WEL>.
16	08	48	57.8	61.399 N	149.892 W	40	4.9		307	SOUTHERN ALASKA. <AEIC>. Mw 5.0 (HRV). ML 4.8 (AEIC), 5.2 (PMR): Felt (IV) at Anchorage, Eagle River and Palmer; (III) at Big Lake and Homer. Also felt at Girdwood, Kenai, Moose Pass, Talkeetna, Wasilla and Willow. Centroid, Moment Tensor (HRV): Centroid origin time 08:49:04.9; Lat 62.22 N; Lon 149.72 W; Dep 59.9; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.73, Plg=32, Azm=270; (N) Val=-2.01, Plg=19, Azm=167; (P) Val=-2.72, Plg=51, Azm=52; Best double couple: Mo=3.7*10**16 Nm; NP1: Strike=47, Dip=22, Slip=-28; NP2: Strike=164, Dip=80, Slip=-109.
16	09	00	55.9	61.428 N	149.939 W	39			46	SOUTHERN ALASKA. <AEIC>. ML 2.8 (AEIC), 3.1 (PMR).
16	09	26	27.0	26.472 S	34.617 E	5 G	3.7	1.0	10	OFF COAST OF SOUTH AFRICA
16	09	26	38.8	61.483 N	149.749 W	59			38	SOUTHERN ALASKA. <AEIC>. ML 3.0 (AEIC), 3.0 (PMR).
16	09	35	50.3	61.419 N	149.931 W	37			45	SOUTHERN ALASKA. <AEIC>. ML 2.9 (AEIC).
16	09	44	44.3	47.608 N	119.315 W	2			43	WASHINGTON. <SEA-P>. MD 3.2 (SEA). Felt at Coulee City.
16	09	59	46.5	31.716 S	70.528 W	140			12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.9 (GUC).
16	10	07	27.3	43.410 N	13.101 E	10 G		1.3	28	CENTRAL ITALY. MD 3.4 (LDG). ML 3.0 (TRI), 2.9 (LJU).
16	10	18	38.3	41.820 S	172.410 E	82			8	SOUTH ISLAND, NEW ZEALAND. <WEL>.
16	12	45	14.6	11.501 N	140.823 E	42 D	4.7	1.1	30	W. CAROLINE ISLANDS, MICRONESIA
16	13	10	55.1	23.255 N	120.877 E	33 N	4.8	1.1	57	TAIWAN. Recorded (4 TAP) in the epicentral area, (3 TAP) at Chia-i, (2 TAP) at Tai-chung and (1 TAP) at Cheng-kung and Hua-lien. Also recorded (1 TAP) at Ma-kung, Peng-hu Tao.
16	13	21	36.3	38.350 S	175.980 E	187			15	NORTH ISLAND, NEW ZEALAND. <WEL>.
16	13	33	08.5	33.728 S	179.585 W	33 N	4.7	1.2	23	SOUTH OF KERMADEC ISLANDS
16	14	39	05.2	43.170 N	1.040 W	5 G			26	PYRENEES. <STR>. ML 3.2 (LDG), 3.1 (STR). mbLg 2.9 (MDD).
16	15	19	56.0	40.386 N	125.279 W	8	5.4 5.6		372	OFF COAST OF NORTHERN CALIFORNIA. <NC-P>. Mw 5.9 (GS), 5.9 (HRV), 5.7 (BRK). ML 5.8 (NC), 5.8 (BRK). Felt in Humboldt and Mendocino Counties. Moment Tensor (GS): Dep 18; Principal axes (scale 10**17 Nm): (T) Val=7.05, Plg=15, Azm=65; (N) Val=-0.35, Plg=73, Azm=219; (P) Val=-6.69, Plg=7, Azm=334; Best double couple: Mo=6.9*10**17 Nm; NP1: Strike=109, Dip=74, Slip=174; NP2: Strike=200, Dip=84, Slip=16. Centroid, Moment Tensor (HRV): Centroid origin time 15:20:03.4; Lat 40.41 N; Lon 125.24 W; Dep 15.0 Bdy; Half-duration 2.2 sec; Principal axes (scale 10**17 Nm): (T) Val=7.47, Plg=2, Azm=230; (N) Val=0.57, Plg=88, Azm=15; (P) Val=-8.04, Plg=1, Azm=140; Best double couple: Mo=7.8*10**17 Nm; NP1: Strike=275, Dip=88, Slip=180; NP2: Strike=5, Dip=90, Slip=2. Moment Tensor (BRK): Dep 8; Principal axes (scale 10**17 Nm): (T) Val=4.52, Plg=7, Azm=52; (N) Val=0.00, Plg=70, Azm=162; (P) Val=-4.52, Plg=18, Azm=320; Best double couple: Mo=4.5*10**17 Nm; NP1: Strike=5, Dip=82, Slip=-18; NP2: Strike=98, Dip=72, Slip=-172.
16	15	20	50.5	32.668 S	71.803 W	26			15	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.3 (GUC).
16	16	05	21.7	23.58 N	121.41 E	72 ?	3.7	0.9	5	TAIWAN. Recorded (2 TAP) at Chia-i.
16	16	06	50.0	40.410 N	124.990 W	25			4	NEAR COAST OF NORTHERN CALIF. <NC-P>. ML 2.8 (NC).
16	16	08	40.9	30.341 S	178.967 W	33 N	5.2	1.2	49	KERMADEC ISLANDS, NEW ZEALAND. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time

16 17 40 39.5 42.771 N 141.807 E 135 * 4.2 1.0 26 16:08:42.8; Lat 30.11 S; Lon 179.08 W; Dep 35.9; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.30, Plg=12, Azm=123; (N) Val=-0.31, Plg=34, Azm=25; (P) Val=-0.99, Plg=54, Azm=230; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=248, Dip=44, Slip=-38; NP2: Strike=7, Dip=65, Slip=-128.

16 18 16 28.3& 31.848 S 70.196 W 141 12 HOKKAIDO, JAPAN REGION. Recorded (1 JMA) in southern Hokkaido.

16 18 18 29.0* 51.793 N 173.426 W 33 N 0.5 6 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.2 (GUC).

16 20 05 26.2* 33.838 S 68.400 W 33 N 1.1 6 ANDREANOF ISLANDS, ALEUTIAN IS.

16 20 24 58.0* 36.615 N 71.232 E 227 * 0.4 15 MENDOZA PROVINCE, ARGENTINA. MD 4.3 (GUC).

16 20 28 12.3 46.240 N 13.733 E 10 G 1.1 10 AFGHANISTAN-TAJIKISTAN BORD REG.

16 21 37 34.2& 57.484 N 152.696 W 0 4.7 16 AUSTRIA. ML 2.5 (VIE), 2.3 (TRI), 2.0 (LJU). Felt (IV) at Bovec and Kobarid, Slovenia.

16 21 42 36.1& 36.378 N 120.395 W 8 164 KODIAK ISLAND REGION, ALASKA. <AEIC>. ML 4.5 (AEIC), 5.0 (PMR). Felt at Kodiak, Larson Bay and Ouzinkie.

25 CENTRAL CALIFORNIA. <NC-P>. Mw 3.8 (BRK). MD 3.8 (NC). ML 3.8 (BRK), 3.8 (PAS).
Moment Tensor (BRK): Dep 8; Principal axes (scale 10**14 Nm): (T) Val=6.56, Plg=62, Azm=246; (N) Val=0.00, Plg=7, Azm=143; (P) Val=-6.56, Plg=27, Azm=49; Best double couple: Mo=6.6*10**14 Nm; NP1: Strike=325, Dip=72, Slip=97; NP2: Strike=123, Dip=19, Slip=69.

16 22 23 18.4& 39.800 S 174.440 E 112 12 NORTH ISLAND, NEW ZEALAND. <WEL>.

17 00 45 52.0 30.333 N 139.109 E 355 4.4 0.7 42 SOUTHEAST OF HONSHU, JAPAN

17 00 52 28.0* 2.582 N 97.318 E 63 ? 4.5 0.9 10 NORTHERN SUMATERA, INDONESIA

17 01 13 31.0& 36.991 N 4.045 W 0 9 STRAIT OF GIBRALTAR. <MDD>. mbLg 2.2 (MDD).

17 01 20 39.6 40.822 N 78.244 E 52 * 4.5 1.1 19 SOUTHERN XINJIANG, CHINA

17 03 34 13.0& 40.520 N 124.790 W 0 6 NEAR COAST OF NORTHERN CALIF. <NC-P>. ML 2.8 (NC).

17 03 50 11.2& 34.063 S 70.381 W 11 12 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).

17 03 52 43.7 37.942 N 16.077 E 18 3.8 1.2 35 IONIAN SEA. ML 3.5 (ROM).

17 04 15 12.2& 35.646 N 31.388 E 25 6 CYPRUS REGION. <CSS>. ML 3.1 (CSS).

17 04 54 21.1& 32.595 S 71.830 W 11 9 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.2 (GUC).

17 05 39 40.3& 34.458 S 70.750 W 97 10 CHILE-ARGENTINA BORDER REGION. <GUC>.

17 06 27 12.7 30.869 N 138.224 E 405 4.6 0.8 99 SOUTHEAST OF HONSHU, JAPAN

17 06 35 04.0& 37.899 N 16.041 E 10 G 9 IONIAN SEA. <ROM>. MD 3.2 (ROM).

17 06 56 26.8* 40.158 S 113.900 W 10 G 4.8 4.6 0.9 33 SOUTHERN EAST PACIFIC RISE

17 07 14 46.9& 40.684 N 124.540 W 24 7 NEAR COAST OF NORTHERN CALIF. <NC-P>. MD 2.7 (NC).

17 07 46 32.9* 6.943 S 143.952 E 33 N 4.3 0.8 12 NEW GUINEA, PAPUA NEW GUINEA. ML 3.8 (PMG).

17 07 53 12.7& 44.416 N 7.372 E 5 4 NORTHERN ITALY. <GEN>. ML 1.8 (GEN).

17 07 53 46.9* 27.919 S 63.897 E 0 G 4.3 0.6 10 SOUTHWEST INDIAN RIDGE

17 08 41 34.8& 61.476 N 150.737 W 57 19 SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).

17 09 18 02.0 27.813 N 56.482 E 33 N 4.1 0.9 20 SOUTHERN IRAN

17 09 28 14.8? 4.66 S 102.78 E 33 N 4.3 1.1 7 SOUTHERN SUMATERA, INDONESIA

17 09 38 40.2& 44.468 N 8.817 E 0 19 NORTHERN ITALY. <GEN>. ML 2.8 (GEN), 2.8 (LDG).

17 09 53 58.9* 22.371 S 170.077 E 64 * 4.3 1.3 28 SOUTHEAST OF LOYALTY ISLANDS

17 10 13 53.9* 43.899 N 140.018 E 210 ? 4.2 1.0 19 HOKKAIDO, JAPAN REGION

17 10 14 06.2 48.749 N 155.286 E 43 D 5.0 4.6 0.8 149 KURIL ISLANDS

17 10 54 27.8& 61.421 N 149.939 W 42 33 SOUTHERN ALASKA. <AEIC>. ML 3.2 (AEIC), 3.4 (PMR).

17 11 29 17.5& 43.810 N 7.680 E 5 G 4 NEAR SOUTH COAST OF FRANCE. <STR>. ML 2.3 (STR).

17 11 42 11.1& 38.440 S 175.590 E 188 10 NORTH ISLAND, NEW ZEALAND. <WEL>.

17 11 51 17.5* 52.964 S 25.013 E 10 G 5.0 5.2 1.1 34 SOUTH OF AFRICA. Mw 5.6 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 11:51:23.5; Lat 53.01 S; Lon 26.28 E; Dep 15.0 Fix; Half-duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=2.84, Plg=4, Azm=338; (N) Val=0.62, Plg=78, Azm=86; (P) Val=-3.46, Plg=11, Azm=247; Best double couple: Mo=3.2*10**17 Nm; NP1: Strike=23, Dip=80, Slip=-175; NP2: Strike=292, Dip=85, Slip=-10.

17 12 14 13.3* 40.451 N 42.448 E 10 G 4.0 3.9 1.3 10 TURKEY

17 12 59 19.8? 44.32 N 148.59 E 66 ? 3.4 1.0 9 KURIL ISLANDS

17 13 20 48.6& 14.638 N 92.926 W 45 6 NEAR COAST OF CHIAPAS, MEXICO. <UNM>. MD 4.3 (UNM).

17 13 32 45.1* 46.190 N 15.977 E 10 G 1.3 7 NORTHWESTERN BALKAN REGION. ML 1.3 (LJU).

17 13 34 10.4* 52.472 N 168.127 W 33 N 1.0 6 FOX ISLANDS, ALEUTIAN ISLANDS

17 13 53 38.3* 52.528 N 168.140 W 33 N 3.1 1.1 9 FOX ISLANDS, ALEUTIAN ISLANDS

17 14 21 57.9& 39.240 S 174.430 E 81 15 NORTH ISLAND, NEW ZEALAND. <WEL>. Felt in Stratford.

17 14 23 56.6& 16.948 N 95.543 W 161 8 OAXACA, MEXICO. <UNM>. MD 4.1 (UNM).

17 14 47 34.5 41.076 S 44.239 E 10 G 4.9 4.8 1.0 54 CROZET ISLANDS REGION. Mw 5.5 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 14:47:40.1; Lat 41.25 S; Lon 43.79 E; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=2.04, Plg=33, Azm=2; (N) Val=-0.21, Plg=8, Azm=97; (P) Val=-1.84, Plg=56, Azm=199; Best double couple: Mo=1.9*10**17 Nm; NP1: Strike=63, Dip=14, Slip=-125; NP2: Strike=279, Dip=79, Slip=-82.

17 14 50 32.7& 42.080 S 173.940 E 12 11 SOUTH ISLAND, NEW ZEALAND. <WEL>. ML 3.6 (WEL).

17 15 07 01.5& 18.099 N 100.547 W 68 10 GUERRERO, MEXICO. <UNM>. MD 3.9 (UNM).

17 15 13 14.6* 16.701 N 100.739 W 10 G 3.6 1.3 11 NEAR COAST OF GUERRERO, MEXICO. MD 4.1 (UNM).

17 15 44 04.8 26.684 N 91.890 E 33 N 4.1 0.8 18 NORTHEASTERN INDIA

17 16 13 21.3* 79.394 N 3.699 E 10 G 4.2 1.4 22 GREENLAND SEA

17 17 01 19.1* 14.680 S 75.882 W 33 N 4.4 1.0 20 NEAR COAST OF PERU. Felt (III) at San Juan de Marcona.

17 17 17 08.3& 18.465 N 66.356 W 8 7 PUERTO RICO REGION. <RSR>. MD 2.3 (RSR).

17 17 55 23.7& 17.309 N 94.304 W 75 4 CHIAPAS, MEXICO. <UNM>. MD 4.0 (UNM).

17 18 12 14.5? 23.93 S 114.92 W 10 G 4.5 1.0 9 EASTER ISLAND REGION

17 19 01 37.9& 61.187 N 150.897 W 69 22 SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).

17 19 26 13.7& 35.677 N 32.136 E 25 5 CYPRUS REGION. <CSS>. ML 2.9 (CSS).

17 19 38 12.9* 51.033 N 12.385 E 10 G 0.2 5 GERMANY. ML 1.4 (CLL).

17 19 42 54.0* 17.713 S 167.974 E 33 N 4.3 1.0 14 VANUATU ISLANDS

17 20 24 08.1? 39.12 N 74.73 E 61 ? 4.0 0.6 9 SOUTHERN XINJIANG, CHINA

17 20 56 53.7& 44.543 N 7.430 E 24 7 NORTHERN ITALY. <GEN>. ML 1.8 (GEN).

17 21 07 50.0& 48.830 N 129.130 W 10 G 4.2 45 VANCOUVER ISLAND, CANADA REGION. <PGC-P>. ML 3.9 (PGC).

17 21 36 45.2? 21.08 S 179.30 W 629 ? 4.5 1.3 29 FIJI ISLANDS REGION

17 21 54 55.6 31.954 S 69.515 W 120 4.3 1.0 32 SAN JUAN PROVINCE, ARGENTINA. MD 4.2 (GUC).

17	23	38	07.3*	53.308 S	25.367 E	10 G	4.9	1.4	11	SOUTH OF AFRICA. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 23:38:15.8; Lat 52.89 S; Lon 25.56 E; Dep 15.0 Fix; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.57, Plg=0, Azm=153; (N) Val=0.14, Plg=90, Azm=180; (P) Val=-4.71, Plg=0, Azm=63; Best double couple: Mo=4.6*10**16 Nm; NP1: Strike=198, Dip=90, Slip=-180; NP2: Strike=288, Dip=90, Slip=0.
18	00	50	55.6	17.176 N	99.218 W	33 N	4.8 4.3	1.1	105	GUERRERO, MEXICO. MD 4.8 (UNM).
18	01	29	10.4&	35.325 N	1.403 W	14			17	NORTHERN ALGERIA. <MDD>. mblg 4.0 (MDD).
18	01	32	52.9&	32.781 S	70.608 W	45			14	CHILE-ARGENTINA BORDER REGION. <GUC>. Felt (II) at Los Andes, Chile.
18	01	44	50.7?	2.44 N	84.33 W	24 D	4.2	1.0	8	OFF COAST OF CENTRAL AMERICA
18	02	26	45.1	50.919 N	156.158 E	151	4.3	1.1	55	KURIL ISLANDS
18	02	28	10.0&	48.010 N	7.580 E	8			24	FRANCE. <FBB>. MD 2.5 (LDG). ML 1.9 (STR), 1.8 (FBB).
18	02	29	34.9	31.275 S	68.954 W	126 ?		0.6	14	SAN JUAN PROVINCE, ARGENTINA. MD 4.0 (GUC).
18	02	30	46.3*	26.746 S	178.239 W	372 ?	4.4	1.3	31	SOUTH OF FIJI ISLANDS
18	04	09	51.7	40.472 N	42.315 E	10 G	4.6	1.2	60	TURKEY
18	04	31	44.3	2.193 N	84.536 W	10 G	5.1 4.8	1.0	94	OFF COAST OF CENTRAL AMERICA. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 04:31:50.5; Lat 2.39 N; Lon 84.38 W; Dep 15.0 Fix; Half- duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.00, Plg=6, Azm=181; (N) Val=-0.12, Plg=5, Azm=91; (P) Val=-0.88, Plg=82, Azm=319; Best double couple: Mo=9.4*10**16 Nm; NP1: Strike=277, Dip=39, Slip=-81; NP2: Strike=86, Dip=51, Slip=-97.
18	04	55	13.0&	42.628 N	16.227 E	10 G			52	ADRIATIC SEA. <ROM>. ML 4.1 (ZAG), 3.4 (ROM).
18	05	05	41.0&	40.419 N	125.109 W	9	3.8		32	OFF COAST OF NORTHERN CALIFORNIA. <NC-P>. MD 3.7 (NC). ML 3.9 (BRK).
18	05	57	24.3&	37.261 N	3.048 W	0 G			14	SPAIN. <MDD>. mblg 2.3 (MDD).
18	06	03	07.7*	86.634 N	41.164 E	10 G	4.2	0.8	15	NORTH OF FRANZ JOSEF LAND
18	06	18	16.2&	37.530 N	21.920 E	5	3.8		73	SOUTHERN GREECE. <ATH>. MD 3.8 (ATH). ML 3.7 (THE).
18	06	47	20.3?	49.19 S	106.11 E	10 G	4.2	1.4	6	SOUTHEAST INDIAN RIDGE
18	07	22	48.3&	35.667 N	32.089 E	25			5	CYPRUS REGION. <CSS>. ML 3.0 (CSS).
18	09	11	14.4&	38.240 N	20.530 E	5			8	GREECE. <ATH>. MD 3.2 (ATH).
18	10	10	55.2&	62.829 N	149.752 W	78			45	CENTRAL ALASKA. <AEIC>.
18	10	54	49.1&	63.317 N	151.019 W	6			44	CENTRAL ALASKA. <AEIC>. ML 2.7 (AEIC), 3.2 (PMR).
18	11	13	05.4*	7.125 S	129.922 E	128 ?	4.2	1.1	7	BANDA SEA
18	11	19	08.8&	16.990 N	99.464 W	76			8	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.8 (UNM).
18	11	53	57.3	43.231 N	3.376 W	10 G		1.1	43	SPAIN. ML 3.5 (STR), 3.2 (LDG). mblg 3.1 (MDD). Felt (IV) at Sopenano; (III) at Lezana de Mena, Siones, Vallejuelo and and Villasana de Mena; (II) at Vallejo de Mena.
18	12	20	37.6	4.778 S	152.931 E	53 D	5.1	1.0	74	NEW BRITAIN REGION, P.N.G. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 12:20:43.7; Lat 4.49 S; Lon 152.99 E; Dep 48.4; Half- duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.16, Plg=4, Azm=265; (N) Val=2.75, Plg=51, Azm=0; (P) Val=-7.91, Plg=39, Azm=171; Best double couple: Mo=6.5*10**16 Nm; NP1: Strike=316, Dip=60, Slip=-153; NP2: Strike=211, Dip=67, Slip=-33.
18	12	28	58.8	57.370 N	33.294 W	10 G	4.6 3.8	1.4	40	REYKJANES RIDGE
18	12	52	17.2?	24.05 N	121.04 E	33 N		0.6	5	TAIWAN. ML 4.5 (TAP). Recorded (2 TAP) in the epicentral area and (1 TAP) at Chang-hua, Hua-lien and Tai-chung.
18	13	27	07.5*	21.723 S	174.236 W	71 D	4.7	1.4	52	TONGA ISLANDS
18	13	49	19.4	4.490 N	123.131 E	543	4.8	0.9	92	CELEBES SEA
18	14	36	51.5	10.816 S	73.845 W	96 *	4.7	0.7	45	CENTRAL PERU
18	14	38	51.3	23.522 S	179.863 W	535	4.6	0.9	59	SOUTH OF FIJI ISLANDS
18	15	02	46.5&	61.494 N	150.691 W	53			57	SOUTHERN ALASKA. <AEIC>. ML 2.9 (AEIC), 3.1 (PMR).
18	16	38	23.1*	25.180 N	95.139 E	116 ?	4.7	1.1	14	MYANMAR-INDIA BORDER REGION
18	17	33	54.7	45.696 N	15.212 E	10 G		0.6	8	NORTHWESTERN BALKAN REGION. ML 1.9 (VIE), 1.4 (LJU). Felt (IV) at Novo Mesto, Slovenia.
18	18	10	50.0*	40.993 N	127.340 W	10 G	3.6	1.4	15	OFF COAST OF NORTHERN CALIFORNIA
18	18	52	18.3&	41.510 S	174.540 E	16			7	COOK STRAIT, NEW ZEALAND. <WEL>. ML 2.8 (WEL).
18	20	20	15.1*	51.484 N	16.037 E	5 G		0.6	10	POLAND. ML 3.1 (VIE).
18	20	30	50.8&	62.809 N	151.127 W	89			39	CENTRAL ALASKA. <AEIC>.
18	20	36	31.5	32.043 S	68.228 W	10 G		1.1	9	MENDOZA PROVINCE, ARGENTINA. MD 4.0 (GUC).
18	20	53	01.3&	43.070 N	0.590 W	8 G			4	PYRENEES. <STR>. ML 2.1 (STR).
18	20	54	43.1&	54.670 N	161.452 E	15	3.4		45	ALASKA PENINSULA. <AEIC>. ML 3.6 (AEIC).
18	21	35	59.3*	12.929 N	145.604 E	33 N		1.2	7	SOUTH OF MARIANA ISLANDS
18	22	38	40.9&	32.323 S	73.461 W	14			6	OFF COAST OF CENTRAL CHILE. <GUC>.
18	22	48	57.4	4.731 S	151.585 E	191 D	4.6	1.1	64	NEW BRITAIN REGION, P.N.G.
18	23	05	23.4*	51.521 N	174.969 W	33 N		0.8	7	ANDREANOF ISLANDS, ALEUTIAN IS.
18	23	22	52.9	24.362 S	178.983 E	552 D	5.1	0.9	259	SOUTH OF FIJI ISLANDS. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 23:22:57.1; Lat 24.14 S; Lon 179.02 E; Dep 539.5; Half- duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.30, Plg=23, Azm=82; (N) Val=-0.35, Plg=38, Azm=191; (P) Val=-1.95, Plg=43, Azm=328; Best double couple: Mo=2.1*10**17 Nm; NP1: Strike=125, Dip=40, Slip=-161; NP2: Strike=20, Dip=78, Slip=-51.
18	23	29	46.7&	33.294 S	72.730 W	38			6	OFF COAST OF CENTRAL CHILE. <GUC>.
18	23	54	15.6*	2.529 S	138.882 E	82 ?	4.7	1.3	31	IRIAN JAYA, INDONESIA
19	01	42	42.9&	43.137 N	0.280 E	15			6	FRANCE. <LDG>. ML 2.1 (STR), 1.9 (LDG).
19	01	47	02.2?	30.63 S	179.26 W	350 G		1.3	10	KERMADEC ISLANDS REGION
19	01	49	57.5&	34.530 N	116.250 W	3			7	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
19	02	28	40.8*	22.125 S	170.126 E	33 N	4.0	1.4	19	SOUTHEAST OF LOYALTY ISLANDS
19	03	44	47.8&	63.384 N	151.266 W	11			11	CENTRAL ALASKA. <AEIC>. ML 2.4 (AEIC), 2.8 (PMR).
19	03	49	18.3	37.223 N	138.554 E	33 N	4.4	1.2	33	NEAR WEST COAST OF HONSHU, JAPAN. Recorded (2 JMA) in western Niigata and (1 JMA) in western Gumma, northern Ishikawa and parts of Nagano Prefectures.
19	03	54	15.8*	17.862 S	178.443 W	600 G	4.0	0.9	12	FIJI ISLANDS REGION
19	04	04	01.3	29.578 N	128.139 E	21 *	4.5	1.0	21	NORTHWEST OF RYUKYU ISLANDS
19	04	37	20.4	18.195 N	94.897 E	75 *	4.4	0.7	41	MYANMAR

19	04	58	30.4	48.271 N	146.429 E	483 *	4.0	0.8	36	SEA OF OKHOTSK
19	05	10	42.4	19.410 N	97.603 W	9			9	VERACRUZ, MEXICO. <UNM>. MD 3.9 (UNM).
19	05	30	16.7	34.086 S	70.180 W	118			11	CHILE-ARGENTINA BORDER REGION. <GUC>.
19	05	51	39.0	10.216 N	60.829 W	24			5	TRINIDAD. <TRN>. MD 3.6 (TRN).
19	05	53	55.9	13.418 N	144.708 E	127 *		1.2	12	MARIANA ISLANDS
19	06	28	17.1	45.92 N	15.15 E	10 G		0.1	4	NORTHWESTERN BALKAN REGION. ML 0.8 (LJU).
19	07	13	21.6	21.583 N	143.181 E	300 G		0.9	9	MARIANA ISLANDS REGION
19	07	20	35.6	43.779 N	41.271 E	10 G	3.4	0.4	5	NORTHWESTERN CAUCASUS
19	07	25	15.2	18.377 N	81.564 W	33 N	4.4	1.1	51	NORTH OF HONDURAS. MD 4.0 (JSN).
19	08	50	51.8	24.768 N	122.152 E	55 *	4.3	1.5	21	TAIWAN REGION. Recorded (2 TAP) in the epicentral area.
19	08	59	45.5	53.156 N	167.684 W	33 N	3.5	0.9	10	FOX ISLANDS, ALEUTIAN ISLANDS
19	09	24	14.8	31.934 S	69.315 W	134 ?		0.9	14	SAN JUAN PROVINCE, ARGENTINA
19	09	39	37.5	32.226 S	71.843 W	25			9	NEAR COAST OF CENTRAL CHILE. <GUC>.
19	10	01	56.9	11.550 N	142.359 E	50 ?	4.4	1.0	13	SOUTH OF MARIANA ISLANDS
19	10	20	49.2	3.839 S	135.643 E	33 N	4.7	1.2	33	IRIAN JAYA REGION, INDONESIA
19	10	26	49.9	28.757 N	43.636 W	10 G	4.0	0.4	13	NORTHERN MID-ATLANTIC RIDGE
19	11	11	27.0	32.010 S	71.599 W	10			8	NEAR COAST OF CENTRAL CHILE. <GUC>.
19	11	29	36.3	32.086 S	71.761 W	10			10	NEAR COAST OF CENTRAL CHILE. <GUC>.
19	11	33	28.7	10.298 N	126.698 E	33 N	4.2	1.5	22	PHILIPPINE ISLANDS REGION
19	11	36	22.0	10.359 N	126.585 E	33 N	4.6	1.1	35	PHILIPPINE ISLANDS REGION
19	11	59	54.7	40.772 N	31.305 E	7			7	TURKEY. <ISK>. MD 3.4 (ISK). Felt at Bolu.
19	12	21	39.6	33.731 S	72.189 W	23			16	OFF COAST OF CENTRAL CHILE. <GUC>.
19	12	23	40.9	5.650 N	77.631 W	37	5.0 4.6	0.8	153	NEAR WEST COAST OF COLOMBIA. Mw 5.3 (HRV). Sixteen houses and a school damaged at Arusi.
Centroid, Moment Tensor (HRV): Centroid origin time 12:23:43.3; Lat 5.69 N; Lon 77.61 W; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=8.33, Plg=30, Azm=246; (N) Val=1.04, Plg=0, Azm=156; (P) Val=-9.37, Plg=60, Azm=65; Best double couple: Mo=8.9*10**16 Nm; NP1: Strike=337, Dip=15, Slip=-89; NP2: Strike=156, Dip=75, Slip=-90.										
19	12	30	34.0	40.220 S	174.870 E	12			12	COOK STRAIT, NEW ZEALAND. <WEL>. ML 3.9 (WEL).
19	12	48	39.5	41.997 N	126.591 W	10 G	4.3	1.0	49	OFF COAST OF NORTHERN CALIFORNIA
19	13	48	29.6	43.530 N	135.731 E	345	4.5	0.9	93	PRIMORYE, RUSSIA
19	14	16	14.1	18.890 N	66.635 W	40			7	PUERTO RICO REGION. <RSPR>. MD 2.9 (RSPR).
19	14	20	04.7	32.158 S	71.840 W	19			11	NEAR COAST OF CENTRAL CHILE. <GUC>.
19	14	22	10.3	4.77 S	139.18 E	33 N	4.6	0.8	9	IRIAN JAYA, INDONESIA
19	15	27	15.0	7.163 S	122.367 E	33 N	4.2	1.3	8	FLORES SEA
19	15	27	30.7	36.320 N	29.190 E	64			4	TURKEY. <ATH>.
19	16	07	07.8	4.186 S	143.701 E	140	4.1	0.8	11	NEW GUINEA, PAPUA NEW GUINEA
19	17	02	13.0	40.410 S	176.220 E	33 N			14	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 4.0 (WEL). Felt at Marton.
19	17	57	09.3	23.313 N	121.084 E	53 *	4.4	1.1	21	TAIWAN. Recorded (4 TAP) in the epicentral area, (2 TAP) at Chia-i and (1 TAP) at Chang-hua. Also recorded (1 TAP) at Ma-kung, Peng-hu Tao.
19	18	13	44.9	33.282 S	70.748 W	74			12	CHILE-ARGENTINA BORDER REGION. <GUC>.
19	18	18	53.6	4.24 N	77.36 W	72 ?	4.2	1.1	17	NEAR WEST COAST OF COLOMBIA
19	18	33	10.7	45.757 N	26.583 E	100 G		0.8	14	ROMANIA
19	18	51	35.3	21.091 S	68.323 W	100 G	4.0	0.9	9	CHILE-BOLIVIA BORDER REGION
19	19	21	32.8	34.546 N	32.781 E	3			6	CYPRUS REGION. <CSS>. ML 2.7 (CSS).
19	19	22	14.1	6.836 S	143.846 E	35	5.3 4.9	1.0	125	NEW GUINEA, PAPUA NEW GUINEA. Mw 5.1 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 19:22:14.1; Lat 6.84 S Fix; Lon 143.85 E Fix; Dep 28.9; Half-duration 1.1 sec; Principal axes (scale 10**16 Nm): (T) Val=6.45, Plg=59, Azm=334; (N) Val=-2.63, Plg=17, Azm=94; (P) Val=-3.82, Plg=25, Azm=193; Best double couple: Mo=5.1*10**16 Nm; NP1: Strike=316, Dip=25, Slip=135; NP2: Strike=89, Dip=73, Slip=72.										
19	19	27	27.4	47.08 N	151.49 E	33 N	4.8	0.4	9	KURIL ISLANDS
19	20	02	13.5	11.681 N	86.079 W	148	4.4	1.1	30	NEAR COAST OF NICARAGUA. MD 4.2 (CASC).
19	20	09	16.5	35.223 N	32.978 E	35			7	CYPRUS REGION. <CSS>.
19	20	11	11.5	37.670 N	22.110 E	5			7	SOUTHERN GREECE. <ATH>. ML 3.2 (ATH).
19	21	01	33.7	44.354 N	6.878 E	10			30	FRANCE. <GEN>. ML 2.6 (GEN), 2.3 (LDG), 2.1 (STR).
19	21	26	02.3	37.989 N	141.336 E	80 D	5.3	0.8	301	NEAR EAST COAST OF HONSHU, JAPAN. Mw 5.3 (HRV). Recorded (3 JMA) in Miyagi, eastern Fukushima and eastern Yamagata Prefectures. Recorded (2 JMA) as far as Ibaraki Prefecture.
Centroid, Moment Tensor (HRV): Centroid origin time 21:26:01.7; Lat 38.13 N; Lon 141.98 E; Dep 71.8 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.00, Plg=31, Azm=300; (N) Val=0.13, Plg=14, Azm=201; (P) Val=-1.12, Plg=56, Azm=90; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=67, Dip=19, Slip=-43; NP2: Strike=198, Dip=77, Slip=-104.										
19	22	10	36.6	6.851 S	143.940 E	33 N	3.9	0.6	6	NEW GUINEA, PAPUA NEW GUINEA. ML 3.7 (PMG).
19	22	36	49.3	61.407 N	149.949 W	23			25	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).
19	22	37	22.6	3.499 S	143.705 E	25	4.9 4.5	1.0	51	NEAR N COAST OF NEW GUINEA, PNG. Mw 5.2 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 22:37:25.3; Lat 3.45 S; Lon 143.92 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=9.82, Plg=53, Azm=294; (N) Val=-2.74, Plg=37, Azm=111; (P) Val=-7.08, Plg=1, Azm=203; Best double couple: Mo=8.4*10**16 Nm; NP1: Strike=324, Dip=54, Slip=137; NP2: Strike=82, Dip=57, Slip=44.										
20	00	56	49.2	15.878 S	167.478 E	33 N	5.0 4.9	0.9	59	VANUATU ISLANDS. Mw 5.2 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 00:56:52.9; Lat 16.01 S; Lon 167.35 E; Dep 30.2; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=7.05, Plg=78, Azm=202; (N) Val=0.47, Plg=9, Azm=340; (P) Val=-7.53, Plg=8, Azm=71; Best double couple: Mo=7.3*10**16 Nm; NP1: Strike=171, Dip=38, Slip=104; NP2: Strike=333, Dip=53, Slip=79.										
20	01	03	12.3	3.80 N	124.96 E	144 *	4.2	0.8	8	CELEBES SEA
20	01	25	43.7	6.972 S	143.866 E	33 N	5.1	1.1	48	NEW GUINEA, PAPUA NEW GUINEA. ML 4.3 (PMG).

20	02	39	52.7	23.654	S	179.984	W	550	G	4.5	1.0	41	SOUTH OF FIJI ISLANDS
20	02	44	26.6?	39.96	N	72.68	E	33	N		1.1	7	KYRGYZSTAN
20	03	27	44.5&	39.850	N	20.680	E	5				7	GREECE-ALBANIA BORDER REGION. <ATH>. MD 3.2 (ATH).
20	03	46	02.9*	48.837	S	8.928	W	10	G	4.6	1.4	10	SOUTHERN MID-ATLANTIC RIDGE
20	04	42	56.4&	32.294	S	71.882	W	21				10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
20	04	59	08.7&	37.621	N	2.194	W	0	G			8	SPAIN. <MDD>. mblg 1.9 (MDD).
20	05	43	26.2&	34.945	S	71.291	W	69				9	NEAR COAST OF CENTRAL CHILE. <GUC>.
20	05	51	36.7&	39.584	N	25.888	E	7				8	AEGEAN SEA. <ISK>. MD 3.5 (ISK).
20	06	16	04.2&	42.794	N	0.269	E	11	G			7	PYRENEES. <LDG>. ML 2.5 (STR), 2.1 (LDG).
20	06	45	33.1	40.424	N	42.395	E	10	G	4.6	1.2	51	TURKEY
20	07	17	21.5	46.489	N	12.499	E	10	G		1.3	10	NORTHERN ITALY. ML 2.5 (TRI), 2.5 (VIE).
20	08	42	13.7*	36.510	S	97.230	W	10	G	4.8 4.8	1.2	32	WEST CHILE RISE. Mw 5.3 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 08:42:16.7; Lat 36.67 S; Lon 97.03 W; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.03, Plg=3, Azm=235; (N) Val=-0.23, Plg=87, Azm=55; (P) Val=-0.81, Plg=0, Azm=145; Best double couple: Mo=9.2*10**16 Nm; NP1: Strike=280, Dip=88, Slip=178; NP2: Strike=10, Dip=88, Slip=2.													
20	08	42	28.0	15.063	N	119.558	E	33	N	4.9	1.3	55	LUZON, PHILIPPINES
20	08	49	46.0	6.860	S	143.900	E	33	N	4.8	0.9	35	NEW GUINEA, PAPUA NEW GUINEA. ML 4.3 (PMG).
20	08	52	12.6&	32.980	N	115.556	W	9				5	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 2.8 (PAS). Felt in the Brawley area, California.
20	09	08	35.7?	5.52	N	77.12	W	33	N	4.0	1.1	8	NEAR WEST COAST OF COLOMBIA
20	10	26	31.0&	35.309	S	70.740	W	1				7	CHILE-ARGENTINA BORDER REGION. <GUC>.
20	10	32	02.6*	32.087	S	69.403	W	150	G		0.8	12	MENDOZA PROVINCE, ARGENTINA
20	10	33	22.5*	5.189	S	146.909	E	200	G	4.4	0.9	11	EASTERN NEW GUINEA REG., P.N.G.
20	10	44	42.2&	40.730	N	30.032	E	12				5	TURKEY. <ISK>. MD 2.5 (ISK).
20	11	23	46.8*	56.269	N	161.413	E	88	*	3.6	1.2	13	NEAR EAST COAST OF KAMCHATKA
20	11	53	41.7*	10.303	N	126.654	E	33	N	3.6	1.0	8	PHILIPPINE ISLANDS REGION
20	12	15	44.0?	43.47	N	126.56	W	10	G	2.8	0.5	25	OFF COAST OF OREGON
20	12	44	08.5*	7.015	S	154.790	E	33	N	4.6	1.1	21	SOLOMON ISLANDS
20	13	18	50.8&	34.220	S	70.310	W	119				6	CHILE-ARGENTINA BORDER REGION. <GUC>.
20	13	29	49.7&	32.628	S	70.825	W	72				12	CHILE-ARGENTINA BORDER REGION. <GUC>.
20	13	55	53.1*	2.853	N	126.840	E	33	N		1.5	13	NORTHERN MOLUCCA SEA
20	14	11	51.3*	3.944	S	138.547	E	99	?	4.4	0.9	22	IRIAN JAYA, INDONESIA
20	14	32	00.8*	4.992	S	151.728	E	162		4.4	0.8	18	NEW BRITAIN REGION, P.N.G.
20	14	53	29.6	47.018	N	154.259	E	33	N	4.8	1.3	64	KURIL ISLANDS
20	14	55	50.0&	49.400	N	6.900	E	1	G			5	GERMANY. <FBB>. ML 2.0 (FBB).
20	14	56	11.3	42.850	N	17.633	E	10	G		1.4	18	ADRIATIC SEA. ML 3.4 (VIE), 3.1 (ROM).
20	15	16	33.2*	45.280	N	151.345	E	33	N	4.4	1.3	16	KURIL ISLANDS
20	15	46	26.4&	35.515	N	1.471	W	5				16	NORTHERN ALGERIA. <MDD>. mblg 2.6 (MDD).
20	15	56	04.4&	18.410	N	66.616	W	119		3.6		10	PUERTO RICO REGION. <RSR>. MD 3.9 (RSR).
20	16	50	10.4*	18.029	S	177.691	W	400	G	4.1	1.0	20	FIJI ISLANDS REGION
20	17	26	41.4*	36.105	N	136.827	E	280	*		1.2	8	NEAR WEST COAST OF HONSHU, JAPAN
20	19	03	15.0	6.900	S	143.816	E	33	N	4.9	1.1	34	NEW GUINEA, PAPUA NEW GUINEA. ML 4.0 (PMG).
20	19	37	38.8	5.062	S	145.233	E	118		4.4	0.9	34	EASTERN NEW GUINEA REG., P.N.G.
20	21	02	30.4	6.212	S	147.587	E	96		5.0	1.1	49	EASTERN NEW GUINEA REG., P.N.G. Mw 5.5 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 21:02:33.3; Lat 6.26 S; Lon 147.56 E; Dep 62.5; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=1.91, Plg=62, Azm=339; (N) Val=-0.21, Plg=28, Azm=145; (P) Val=-1.70, Plg=6, Azm=238; Best double couple: Mo=1.8*10**17 Nm; NP1: Strike=355, Dip=46, Slip=130; NP2: Strike=125, Dip=57, Slip=56.													
20	21	13	30.0*	40.482	N	115.830	E	33	N	3.6	1.0	6	NORTHEASTERN CHINA. ML 3.9 (BJI).
20	21	29	30.4*	19.464	N	108.774	W	33	N	4.3 3.8	1.2	32	REVILLA GIGEDO ISLANDS REGION
20	21	46	50.4?	7.33	S	154.96	E	33	N	4.5	1.3	10	SOLOMON ISLANDS
20	21	55	03.3?	52.44	N	171.03	W	33	N		1.4	8	FOX ISLANDS, ALEUTIAN ISLANDS
20	22	27	47.2?	5.37	S	150.67	E	33	N	4.4	1.1	8	NEW BRITAIN REGION, P.N.G.
20	22	40	02.3*	28.441	N	52.229	E	33	N	4.2	0.9	23	SOUTHERN IRAN
20	22	51	43.1	9.584	S	123.253	E	67	*	4.5	1.0	20	TIMOR IRAN
21	00	30	54.3	44.868	N	27.452	E	33	N		1.1	10	ROMANIA
21	02	18	41.6*	49.392	N	155.675	E	65		4.3	0.9	35	KURIL ISLANDS
21	03	32	40.1&	44.340	N	7.287	E	11				23	NORTHERN ITALY. <GEN>. ML 2.3 (GEN), 2.0 (LDG), 2.0 (STR).
21	03	52	50.4*	31.754	S	69.107	W	150	G		1.1	15	SAN JUAN PROVINCE, ARGENTINA. MD 3.3 (GUC).
21	04	01	45.0	36.362	N	22.067	E	55		3.9	1.3	51	SOUTHERN GREECE. MD 3.8 (ATH).
21	04	17	26.1&	44.404	N	7.282	E	14				33	NORTHERN ITALY. <GEN>. ML 2.6 (GEN), 2.4 (LDG), 2.3 (STR).
21	04	32	34.4	31.871	N	142.540	E	33	N	5.3 4.4	0.7	185	SOUTHEAST OF HONSHU, JAPAN. Mw 5.4 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 04:32:37.0; Lat 31.71 N; Lon 141.93 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.56, Plg=37, Azm=103; (N) Val=0.07, Plg=13, Azm=3; (P) Val=-1.63, Plg=50, Azm=257; Best double couple: Mo=1.6*10**17 Nm; NP1: Strike=245, Dip=15, Slip=-28; NP2: Strike=2, Dip=83, Slip=-103.													
21	05	12	05.4&	34.585	N	32.047	E	25				6	CYPRUS REGION. <CSS>. ML 2.3 (CSS).
21	05	26	07.7	3.155	N	128.034	E	103	D	6.1 5.3	1.0	265	NORTH OF HALMAHERA, INDONESIA. Mw 5.9 (GS), 5.9 (HRV).
Moment Tensor (GS): Dep 76; Principal axes (scale 10**17 Nm): (T) Val=7.62, Plg=49, Azm=353; (N) Val=1.96, Plg=39, Azm=153; (P) Val=-9.58, Plg=10, Azm=251; Best double couple: Mo=8.6*10**17 Nm; NP1: Strike=18, Dip=49, Slip=146; NP2: Strike=132, Dip=65, Slip=46.													
Centroid, Moment Tensor (HRV): Centroid origin time 05:26:09.4; Lat 3.35 N; Lon 128.05 E; Dep 91.8; Half-duration 2.2 sec; Principal axes (scale 10**17 Nm): (T) Val=7.43, Plg=51, Azm=1; (N) Val=1.74, Plg=33, Azm=145; (P) Val=-9.17, Plg=18, Azm=247; Best double couple: Mo=8.3*10**17 Nm; NP1: Strike=16, Dip=40, Slip=148; NP2: Strike=131, Dip=70, Slip=55.													
21	05	45	15.5*	10.784	S	161.726	E	33	N		0.6	8	SOLOMON ISLANDS
21	06	39	12.5&	36.567	N	6.934	W	0	G			4	STRAIT OF GIBRALTAR. <MDD>. mblg 2.6 (MDD).
21	08	18	58.7*	20.930	S	178.789	W	500	G	4.1	0.9	33	FIJI ISLANDS REGION

21	08 57 26.9	24.317 N	125.308 E	33 N	4.7 4.5	1.0	49	SOUTHWESTERN RYUKYU ISL., JAPAN. Recorded (1 JMA) on Irimote-jima, Miyako-jima and Tarama-jima.
21	11 11 11.2&	57.199 N	154.095 W	63			21	KODIAK ISLAND REGION, ALASKA. <AEIC>. ML 2.7 (AEIC).
21	11 47 01.2&	38.080 S	176.010 E	246			13	NORTH ISLAND, NEW ZEALAND. <WEL>.
21	12 16 49.0&	39.180 S	174.440 E	5			12	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.6 (WEL).
21	12 26 45.2*	17.577 S	178.736 W	600 G	4.4	0.5	9	FIJI ISLANDS REGION
21	12 41 35.5*	7.032 S	129.250 E	113 ?	4.3	1.1	9	BANDA SEA
21	13 11 14.7	20.515 S	178.175 W	548 D	4.6	0.8	92	FIJI ISLANDS REGION
21	13 51 28.3	7.937 S	107.997 E	33 N	4.0	0.8	8	JAWA, INDONESIA
21	14 07 40.8	39.949 N	48.230 E	60 D	5.1 4.2	1.0	214	ARMENIA-AZERBAIJAN-IRAN BORD REG. Mw 5.2 (HRV). Felt in northwestern Iran. Also felt (II) at Makhachkala, Russia. Centroid, Moment Tensor (HRV): Centroid origin time 14:07:47.0; Lat 39.95 N Fix; Lon 48.23 E Fix; Dep 54.2; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.20, Plg=12, Azm=186; (N) Val=2.12, Plg=35, Azm=285; (P) Val=-7.32, Plg=52, Azm=80; Best double couple: Mo=6.3*10**16 Nm; NP1: Strike=240, Dip=45, Slip=-145; NP2: Strike=123, Dip=66, Slip=-51.
21	14 34 56.1&	63.112 N	150.593 W	118			45	CENTRAL ALASKA. <AEIC>.
21	15 15 42.7&	62.271 N	140.951 W	8			20	SOUTHERN YUKON TERRITORY, CANADA. <AEIC>. ML 3.0 (AEIC), 3.4 (PGC).
21	15 35 38.1*	23.875 S	179.979 E	600 G	4.1	0.8	19	SOUTH OF FIJI ISLANDS
21	18 28 12.1	16.664 N	98.851 W	33 N	4.8 4.4	1.0	106	NEAR COAST OF GUERRERO, MEXICO. MD 4.8 (UNM).
21	18 40 19.0&	16.232 N	99.191 W	16			15	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.0 (UNM).
21	18 50 18.2&	16.338 N	99.120 W	27			20	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.2 (UNM).
21	19 02 45.9	5.484 N	77.631 W	33 N	4.5	0.9	36	NEAR WEST COAST OF COLOMBIA
21	20 55 45.5&	34.633 N	31.978 E	25			6	CYPRUS REGION. <CSS>. ML 1.8 (CSS).
21	21 15 30.8*	43.248 N	126.756 W	10 G		0.6	25	OFF COAST OF OREGON
21	21 20 34.4&	47.692 N	120.089 W	7			51	WASHINGTON. <SEA-P>. MD 2.8 (SEA).
21	21 50 12.1	1.629 N	127.302 E	124 *	4.2	1.1	25	HALMAHERA, INDONESIA
21	22 17 55.4*	30.401 N	67.886 E	33 N	3.8	1.1	10	PAKISTAN
21	22 20 08.0&	47.150 N	9.370 E	9			32	GERMANY. <FBB>. ML 2.4 (VIE), 2.3 (LDG), 2.2 (FBB), 2.2 (STR).
21	22 35 34.2&	32.485 S	71.808 W	32			16	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.1 (GUC).
21	22 36 39.7	5.463 S	152.106 E	64 *	5.4 4.7	0.9	136	NEW BRITAIN REGION, P.N.G. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 22:36:41.0; Lat 5.79 S; Lon 152.26 E; Dep 17.1; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.08, Plg=63, Azm=272; (N) Val=-0.14, Plg=18, Azm=43; (P) Val=-0.94, Plg=19, Azm=139; Best double couple: Mo=1.0*10**17 Nm; NP1: Strike=257, Dip=30, Slip=129; NP2: Strike=34, Dip=67, Slip=70.
21	22 43 42.5*	5.517 S	152.286 E	33 N	4.9	1.3	19	NEW BRITAIN REGION, P.N.G.
21	23 37 13.6*	7.274 S	106.703 E	100 G		0.8	10	JAWA, INDONESIA
21	23 49 40.2&	34.896 N	32.228 E	15			5	CYPRUS REGION. <CSS>. ML 2.2 (CSS).
22	00 32 52.5&	46.531 N	2.358 E	12 G			6	FRANCE. <LDG>. ML 1.4 (LDG).
22	00 59 20.4*	37.785 S	179.042 E	79 *	4.8	1.4	33	OFF E. COAST OF N. ISLAND, N.Z.
22	01 03 21.6*	36.697 N	66.989 E	33 N	3.3	1.5	7	HINDU KUSH REGION, AFGHANISTAN
22	02 40 24.0*	10.103 S	75.442 W	33 N	3.6	1.1	9	CENTRAL PERU. Felt (III) at Oxapampa.
22	02 43 09.6&	18.517 N	67.561 W	10			5	MONA PASSAGE. <RSRP>. MD 3.0 (RSRP).
22	02 54 39.5&	18.862 N	66.515 W	59			9	PUERTO RICO REGION. <RSRP>. MD 3.7 (RSRP).
22	03 54 33.6	45.941 N	15.053 E	10 G		0.1	6	NORTHWESTERN BALKAN REGION. ML 1.1 (VIE), 0.9 (LJU).
22	04 35 34.6&	34.344 N	116.465 W	7			10	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
22	04 37 53.8	21.953 S	179.594 W	600 G	4.2	0.8	41	FIJI ISLANDS REGION
22	05 43 08.9&	39.160 S	174.390 E	5			8	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.8 (WEL).
22	05 44 13.1*	24.086 S	66.805 W	208	4.0	0.8	12	SALTA PROVINCE, ARGENTINA
22	06 52 34.9	55.347 N	156.489 W	33 N	4.9 4.2	0.9	94	SOUTH OF ALASKA. ML 4.6 (PMR).
22	06 54 41.5&	38.710 S	176.130 E	103			15	NORTH ISLAND, NEW ZEALAND. <WEL>.
22	07 02 28.3*	12.194 S	65.769 E	10 G	5.1 5.0	1.3	88	MID-INDIAN RIDGE. Mw 5.7 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 07:02:36.0; Lat 11.97 S; Lon 65.52 E; Dep 15.0 Fix; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=4.08, Plg=6, Azm=105; (N) Val=-0.24, Plg=63, Azm=206; (P) Val=-3.85, Plg=26, Azm=12; Best double couple: Mo=4.0*10**17 Nm; NP1: Strike=151, Dip=68, Slip=-165; NP2: Strike=55, Dip=76, Slip=-23.
22	07 39 05.9*	5.811 S	149.163 E	67 *	4.7	0.9	14	NEW BRITAIN REGION, P.N.G.
22	10 45 06.9&	37.180 N	21.710 E	5			12	SOUTHERN GREECE. <ATH>. ML 3.7 (ATH).
22	11 51 30.9*	17.970 S	178.394 W	539 ?	4.0	0.8	37	FIJI ISLANDS REGION
22	12 02 12.5	6.349 S	154.942 E	55 D	5.0 4.4	1.0	95	SOLOMON ISLANDS. Mw 5.0 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 12:02:13.0; Lat 6.87 S; Lon 155.28 E; Dep 78.7; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.63, Plg=77, Azm=24; (N) Val=-1.00, Plg=13, Azm=200; (P) Val=-3.62, Plg=1, Azm=290; Best double couple: Mo=4.1*10**16 Nm; NP1: Strike=33, Dip=46, Slip=109; NP2: Strike=188, Dip=47, Slip=72.
22	12 06 33.8&	38.350 N	21.450 E	38			5	GREECE. <ATH>. MD 3.1 (ATH).
22	12 21 02.8&	38.700 N	21.320 E	5			12	GREECE. <ATH>. ML 3.4 (ATH).
22	12 28 04.1&	41.250 S	172.770 E	163			10	SOUTH ISLAND, NEW ZEALAND. <WEL>.
22	12 47 42.4*	85.869 N	27.819 E	33 N	4.1	1.5	19	NORTH OF SVALBARD
22	14 49 12.0&	40.857 N	31.051 E	8			24	TURKEY. <ISK>. MD 3.6 (ISK).
22	15 41 20.3&	36.813 N	121.546 W	8			13	CENTRAL CALIFORNIA. <NC-P>. ML 3.3 (NC). Felt at Salinas.
22	15 51 32.1&	34.627 N	116.269 W	3			7	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
22	17 46 59.0&	32.278 S	69.421 W	166			13	MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 2.9 (GUC).
22	19 01 38.3&	38.110 N	23.270 E	5			5	GREECE. <ATH>. ML 2.7 (ATH).
22	19 03 57.4	44.225 N	140.061 E	242 *	3.9	1.1	20	EASTERN SEA OF JAPAN
22	19 22 56.3&	33.981 S	71.206 W	63			12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.9 (GUC).
22	19 24 07.6	3.296 S	142.936 E	33 N	4.9	1.2	25	NEAR N COAST OF NEW GUINEA, PNG.
22	19 39 01.4?	49.45 S	117.23 E	10 G	4.9 4.7	1.3	19	WESTERN INDIAN-ANTARCTIC RIDGE
22	19 48 09.2*	51.288 N	157.014 E	33 N	4.3	1.4	22	NEAR EAST COAST OF KAMCHATKA
22	19 52 39.7*	36.421 N	71.409 E	97 *	4.3	1.5	13	AFGHANISTAN-TAJIKISTAN BORD REG.
22	19 55 56.4*	37.187 S	177.770 E	244		0.9	23	OFF E. COAST OF N. ISLAND, N.Z.

22	22	03	28.5*	43.643	N	147.450	E	33	N	4.5	1.0	39	KURIL ISLANDS
22	22	53	47.9*	6.026	S	147.139	E	62	?	4.5	1.3	16	EASTERN NEW GUINEA REG., P.N.G.
22	23	21	19.7*	59.335	N	153.116	W	81		2.6		64	SOUTHERN ALASKA. <AEIC>.
22	23	32	26.4	14.558	S	167.273	E	169	D	5.0	1.0	227	VANUATU ISLANDS. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 23:32:30.4; Lat 14.66 S; Lon 167.15 E; Dep 172.0; Half- duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.33, Plg=71, Azm=139; (N) Val=-0.03, Plg=18, Azm=336; (P) Val=-2.30, Plg=5, Azm=245; Best double couple: Mo=2.3*10**17 Nm; NP1: Strike=316, Dip=43, Slip=63; NP2: Strike=171, Dip=53, Slip=113.
22	23	38	05.5*	22.350	S	179.951	W	680	?	4.1	0.4	21	SOUTH OF FIJI ISLANDS
23	00	16	43.4*	16.100	N	98.802	W	16				10	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.9 (UNM).
23	01	13	00.5*	21.163	S	68.714	W	135	*	4.6	1.3	14	CHILE-BOLIVIA BORDER REGION
23	02	20	39.9*	62.145	N	148.193	W	35				31	CENTRAL ALASKA. <AEIC>. ML 2.9 (AEIC), 3.3 (PMR).
23	02	47	08.5*	58.980	N	154.150	W	118				16	ALASKA PENINSULA. <AEIC>.
23	03	09	19.5	38.128	N	23.763	E	33	N	3.9	1.3	83	GREECE. ML 3.6 (THE), 3.5 (ATH). Felt at Athens.
23	03	14	14.5	26.228	N	125.076	E	210		4.3	0.8	16	NORTHEAST OF TAIWAN
23	04	41	45.3*	21.303	S	68.140	W	143	*	4.4	1.1	20	CHILE-BOLIVIA BORDER REGION
23	05	03	38.2*	12.591	N	57.926	E	10	G	4.6	1.4	18	OWEN FRACTURE ZONE REGION
23	06	59	28.7*	11.244	N	61.283	W	12				5	WINDWARD ISLANDS. <TRN>. MD 2.3 (TRN).
23	07	22	31.7*	13.759	N	91.433	W	33	N	4.6	1.2	53	NEAR COAST OF GUATEMALA
23	07	40	15.1*	34.547	S	71.107	W	42				10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
23	08	06	03.2*	51.237	N	15.955	E	5	G		1.0	7	POLAND. ML 3.1 (VIE).
23	09	52	58.9*	61.880	N	149.525	W	10	G			33	SOUTHERN ALASKA. <AEIC>. ML 3.0 (AEIC), 3.5 (PMR).
23	10	06	57.2*	61.858	N	149.552	W	9				26	SOUTHERN ALASKA. <AEIC>. ML 2.8 (AEIC), 3.0 (PMR).
23	10	32	18.4*	61.897	N	149.602	W	3				6	SOUTHERN ALASKA. <AEIC>. ML 2.1 (AEIC).
23	10	32	20.1*	52.916	N	168.138	W	33	N		0.8	6	FOX ISLANDS, ALEUTIAN ISLANDS
23	11	41	33.6	48.011	N	153.060	E	142	D	4.9	0.8	211	KURIL ISLANDS
23	11	53	12.7*	38.830	S	175.280	E	223				11	NORTH ISLAND, NEW ZEALAND. <WEL>.
23	13	04	42.6*	9.579	S	119.913	E	33	N	4.0	1.2	9	SUMBA REGION, INDONESIA
23	13	39	24.7*	40.352	N	124.219	W	29				11	NEAR COAST OF NORTHERN CALIF. <NC-P>. MD 3.2 (NC).
23	14	15	17.6	51.821	N	170.724	E	33	N	5.4 4.5	0.8	266	NEAR ISLANDS, ALEUTIAN ISLANDS. Mw 5.3 (HRV). ML 5.0 (PMR). Centroid, Moment Tensor (HRV): Centroid origin time 14:15:17.1; Lat 52.22 N; Lon 171.10 E; Dep 15.0 Fix; Half- duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=0.76, Plg=33, Azm=248; (N) Val=0.39, Plg=2, Azm=339; (P) Val=-1.15, Plg=57, Azm=72; Best double couple: Mo=9.6*10**16 Nm; NP1: Strike=330, Dip=12, Slip=-99; NP2: Strike=160, Dip=78, Slip=-88.
23	14	33	36.1*	42.880	N	0.260	E	3				6	PYRENEES. <STR>. ML 2.4 (STR).
23	15	18	17.8*	36.860	S	73.236	W	33	N		1.1	10	NEAR COAST OF CENTRAL CHILE. Felt (III) at Cobquecura and Concepcion.
23	16	58	49.3*	1.362	S	76.398	W	33	N	4.3	1.0	19	ECUADOR
23	18	57	21.8	6.998	S	154.832	E	33	N	4.8 4.3	1.1	35	SOLOMON ISLANDS
23	19	37	16.3	54.031	N	161.518	E	33	N	4.5	1.3	43	NEAR EAST COAST OF KAMCHATKA
23	19	46	16.1	4.948	N	125.733	E	132		4.7	1.1	51	TALAUD ISLANDS, INDONESIA
23	19	59	14.1*	47.025	N	0.191	W	3	G			21	FRANCE. <LDG>. ML 2.8 (STR), 2.6 (LDG).
23	20	29	39.9	12.608	N	88.160	W	60	D	4.3	1.3	52	OFF COAST OF CENTRAL AMERICA. MD 4.3 (CASC).
23	20	42	02.0*	52.938	N	169.244	W	33	N		1.4	6	FOX ISLANDS, ALEUTIAN ISLANDS
23	21	20	00.8*	45.275	N	14.504	E	10	G		1.1	6	NORTHWESTERN BALKAN REGION. ML 2.5 (VIE).
23	21	53	16.0*	34.620	N	116.265	W	3				11	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
23	22	09	41.6	45.952	N	14.608	E	10	G		0.1	7	NORTHWESTERN BALKAN REGION. ML 1.4 (LJU), 1.2 (VIE).
23	22	24	27.4*	26.53	S	114.10	W	10	G	4.7 4.5	1.0	26	EASTER ISLAND REGION
23	23	05	52.5	26.782	S	114.229	W	10	G	4.8 4.8	0.7	64	EASTER ISLAND REGION. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 23:05:55.0; Lat 27.06 S; Lon 114.01 W; Dep 15.0 Fix; Half- duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.13, Plg=0, Azm=220; (N) Val=0.02, Plg=90, Azm=180; (P) Val=-1.15, Plg=0, Azm=130; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=265, Dip=90, Slip=-180; NP2: Strike=355, Dip=90, Slip=0.
23	23	30	36.0*	49.150	N	6.870	E	1	G			5	GERMANY. <FBB>. ML 2.1 (FBB).
24	00	01	28.0*	38.730	N	112.440	W	1				10	UTAH. <SLC-P>. ML 2.5 (SLC).
24	00	08	00.0*	38.710	N	112.440	W	4				10	UTAH. <SLC-P>. ML 2.6 (SLC).
24	01	04	23.0*	38.720	N	112.460	W	1				21	UTAH. <SLC-P>. ML 3.1 (SLC).
24	01	08	27.0*	38.730	N	112.450	W	1				13	UTAH. <SLC-P>. ML 2.7 (SLC).
24	01	13	14.0*	38.730	N	112.440	W	1				11	UTAH. <SLC-P>. ML 2.7 (SLC).
24	01	13	40.0*	7.953	S	155.386	E	33	N	4.3	0.6	8	SOLOMON ISLANDS
24	01	39	20.3*	43.050	N	0.750	W	2	G			10	PYRENEES. <STR>. ML 2.3 (STR). MD 2.2 (LDG).
24	01	46	32.8*	71.788	N	12.029	W	10	G		1.0	8	JAN MAYEN ISLAND REGION
24	01	57	01.9*	2.187	S	120.800	E	33	N	4.7 4.2	1.2	21	SULAWESI, INDONESIA
24	01	59	46.8*	43.070	N	0.750	W	4				10	PYRENEES. <STR>. MD 2.4 (LDG). ML 2.3 (STR).
24	02	05	54.0*	38.710	N	112.430	W	3				16	UTAH. <SLC-P>. ML 2.8 (SLC).
24	03	08	32.6*	61.071	N	141.381	W	0	G			7	SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC), 2.1 (PGC).
24	03	33	36.3	45.992	N	15.015	E	10	G		1.0	10	NORTHWESTERN BALKAN REGION. ML 2.0 (VIE), 1.5 (LJU).
24	04	23	22.2*	61.653	N	149.937	W	48				9	SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).
24	04	23	45.7	27.551	N	111.303	W	10	G	5.1 5.4	1.4	153	GULF OF CALIFORNIA. Mw 5.6 (HRV). Felt at Empalme, Guaymas, Hermosillo and San Carlos, Mexico. Centroid, Moment Tensor (HRV): Centroid origin time 04:23:51.1; Lat 27.84 N; Lon 111.54 W; Dep 15.0 Fix; Half- duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.69, Plg=13, Azm=265; (N) Val=0.53, Plg=62, Azm=20; (P) Val=-3.22, Plg=24, Azm=169; Best double couple: Mo=3.0*10**17 Nm; NP1: Strike=309, Dip=63, Slip=-171; NP2: Strike=215, Dip=82, Slip=-27.
24	05	37	31.6	42.427	N	139.053	E	24	D	4.4	1.0	28	HOKKAIDO, JAPAN REGION. Recorded (1 JMA) on Okushiri-to and in southwestern Hokkaido.
24	05	46	41.8*	44.290	N	7.392	E	12				6	NORTHERN ITALY. <GEN>. ML 2.0 (GEN).
24	06	06	19.3	33.267	S	71.981	W	33	N	4.2	0.9	36	NEAR COAST OF CENTRAL CHILE. MD 4.7 (GUC). Felt (III) at El Quisco and San Antonio; (II) at Quintero, Valparaiso and Vina del Mar.
24	06	18	54.1*	33.315	S	71.913	W	10				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).

24	07	39	38.2?	25.89	N	142.50	E	33	N	3.3	0.9	8	VOLCANO ISLANDS, JAPAN REGION
24	07	46	37.3	33.349	S	71.878	W	4				11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
24	08	04	49.8	44.376	N	7.248	E	14				7	NORTHERN ITALY. <GEN>. ML 1.8 (GEN).
24	08	11	55.3	18.114	N	67.132	W	18				4	MONA PASSAGE. <RSR>. MD 2.2 (RSR).
24	10	43	09.6*	11.515	N	142.486	E	62	?	4.1	1.1	9	SOUTH OF MARIANA ISLANDS
24	11	00	19.9?	26.79	S	114.29	W	10	G		0.6	7	EASTER ISLAND REGION
24	11	02	01.7?	0.04	N	123.73	E	151	?	4.1	1.5	11	MINAHASSA PENINSULA, SULAWESI
24	11	02	37.2	0.200	N	119.658	E	33	N	4.7 4.0	1.0	29	MINAHASSA PENINSULA, SULAWESI
24	11	28	07.8	37.130	N	22.180	E	5				6	SOUTHERN GREECE. <ATH>. MD 2.9 (ATH).
24	11	58	38.5*	6.041	N	125.887	E	161	*	4.4	1.0	20	MINDANAO, PHILIPPINES
24	12	07	39.7	33.307	S	71.970	W	23				16	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.2 (GUC).
24	12	07	46.2	1.189	N	126.311	E	42	*	4.4	0.8	15	NORTHERN MOLUCCA SEA
24	12	16	09.7	33.308	S	71.968	W	13				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
24	12	21	03.2	33.316	S	71.964	W	15				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
24	12	40	44.4*	42.069	N	125.663	W	10	G	3.4	0.5	20	OFF COAST OF OREGON
24	13	05	03.2	33.311	S	71.961	W	13				10	NEAR COAST OF CENTRAL CHILE. <GUC>.
24	13	12	01.4	33.326	S	71.992	W	15				11	NEAR COAST OF CENTRAL CHILE. <GUC>.
24	13	28	22.9	39.170	S	174.930	E	238				9	NORTH ISLAND, NEW ZEALAND. <WEL>.
24	13	50	37.5*	46.191	N	15.985	E	10	G		1.0	8	NORTHWESTERN BALKAN REGION. ML 2.2 (VIE), 1.6 (LJU).
24	13	53	00.8	33.316	S	71.973	W	15				12	NEAR COAST OF CENTRAL CHILE. <GUC>.
24	14	00	23.8*	35.716	N	136.998	E	33	N	4.2	1.4	19	WESTERN HONSHU, JAPAN. Recorded (2 JMA) in central Gifu Prefecture and (1 JMA) as far as western Shizuoka Prefecture.
24	14	04	54.1	33.321	S	71.972	W	16				13	NEAR COAST OF CENTRAL CHILE. <GUC>.
24	14	13	16.7*	24.442	N	122.270	E	65	*	4.1	1.1	17	TAIWAN REGION. Recorded (3 TAP) in southeastern I-lan County and (1 TAP) at Hua-lien and I-lan.
24	14	31	27.6	51.513	N	174.578	W	33	N	4.7 4.2	0.9	117	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.7 (PMR).
24	14	55	55.4	51.523	N	174.615	W	33	N	4.2	1.2	29	ANDREANOF ISLANDS, ALEUTIAN IS.
24	15	07	13.4*	4.503	S	134.822	E	33	N	4.2	1.5	9	IRIAN JAYA REGION, INDONESIA
24	17	35	43.4	34.850	N	33.075	E	5				4	CYPRUS REGION. <CSS>. ML 2.5 (CSS).
24	17	58	30.8	18.907	N	95.579	W	27				15	VERACRUZ, MEXICO. <UNM>. MD 4.1 (UNM).
24	18	21	24.7*	51.369	N	16.221	E	5	G		1.1	13	POLAND. ML 3.5 (VIE), 2.9 (FUR).
24	18	41	24.5	6.817	N	72.941	W	166	*	4.3	0.8	34	NORTHERN COLOMBIA
24	19	10	05.5	34.893	N	32.525	E	15				6	CYPRUS REGION. <CSS>. ML 2.3 (CSS).
24	20	21	38.9	58.519	N	155.819	W	138		3.7		75	ALASKA PENINSULA. <AEIC>.
24	22	55	41.3*	7.034	S	129.489	E	149	?	4.6	1.2	12	BANDA SEA
25	00	08	08.0	39.300	N	119.970	W	9				7	NEVADA. <REN-P>. ML 2.2 (REN).
25	00	09	46.6	11.000	N	62.259	W	77				11	WINDWARD ISLANDS. <TRN>. MD 3.6 (TRN).
25	01	12	32.2	33.927	N	116.313	W	4				8	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
25	01	36	57.6	41.971	N	126.195	W	10	G	4.1	0.7	78	OFF COAST OF NORTHERN CALIFORNIA. ML 4.0 (BRK). Scalar Moment (BRK): Mo=3.7*10**14 Nm.
25	01	42	46.4*	45.254	N	14.882	E	10	G		1.1	13	NORTHWESTERN BALKAN REGION. ML 2.8 (VIE), 2.3 (ZAG), 2.2 (TRI).
25	01	56	47.8*	15.602	S	74.115	W	68	D	4.6	1.0	10	NEAR COAST OF PERU
25	02	05	32.3	18.256	S	178.672	W	656	?	4.3	0.7	59	FIJI ISLANDS REGION
25	02	10	21.9	47.683	N	2.792	W	5	G			6	FRANCE. <LDG>. MD 2.4 (LDG).
25	03	20	25.7	51.377	N	178.448	W	33	N	4.3	1.0	88	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.6 (PMR).
25	03	38	06.5	36.903	N	121.019	W	3				13	CENTRAL CALIFORNIA. <NC-P>. MD 2.9 (NC). ML 3.0 (BRK).
25	04	47	58.5	15.864	N	147.181	E	33	N	4.7 4.3	1.0	44	MARIANA ISLANDS REGION
25	05	18	50.2	58.879	N	154.491	W	122		4.2		58	ALASKA PENINSULA. <AEIC>.
25	06	18	23.8*	12.241	N	87.945	W	82	?	4.3	1.1	18	NEAR COAST OF NICARAGUA. MD 4.4 (CASC).
25	06	30	06.8?	55.71	S	30.04	W	33	N	4.4	0.8	7	SOUTH SANDWICH ISLANDS REGION
25	07	28	07.0	43.083	N	0.599	W	11	G			7	PYRENEES. <LDG>. ML 2.3 (STR), 1.9 (LDG).
25	07	55	03.2	19.583	N	68.147	W	25				7	NORTH ATLANTIC OCEAN. <RSR>. MD 3.8 (RSR).
25	08	03	51.5	32.889	S	70.400	W	110				14	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.8 (GUC).
25	09	15	57.0	40.070	N	20.690	E	5				5	GREECE-ALBANIA BORDER REGION. <ATH>. MD 3.1 (ATH).
25	10	18	03.9*	7.723	S	130.681	E	33	N	4.8	1.2	14	TANIMBAR ISLANDS REG., INDONESIA
25	10	46	14.2*	37.718	S	50.823	E	10	G	4.7 4.5	1.0	34	SOUTHWEST INDIAN RIDGE
25	10	51	15.2	10.991	N	61.533	W	3				4	TRINIDAD. <TRN>. MD 2.1 (TRN).
25	11	06	42.9	63.570	N	150.856	W	35				20	CENTRAL ALASKA. <AEIC>. ML 2.6 (AEIC), 3.1 (PMR).
25	11	21	44.5	8.075	N	126.075	E	33	N		1.0	11	MINDANAO, PHILIPPINES
25	11	26	01.2	15.034	N	91.495	W	165	D	4.4	1.3	115	MEXICO-GUATEMALA BORDER REGION. MD 4.7 (UNM), 4.2 (CASC).
25	11	26	17.1?	2.07	S	138.41	E	33	N	4.5	1.2	9	IRIAN JAYA, INDONESIA
25	11	44	47.0*	6.921	S	144.025	E	33	N		0.9	7	NEW GUINEA, PAPUA NEW GUINEA. ML 3.3 (PMG).
25	12	23	58.3	11.177	N	61.808	W	10				5	WINDWARD ISLANDS. <TRN>. MD 2.9 (TRN).
25	12	40	17.2*	1.562	S	77.749	W	160	?	4.0	0.9	15	ECUADOR
25	13	02	24.0*	37.170	N	138.456	E	33	N		0.7	9	NEAR WEST COAST OF HONSHU, JAPAN. Recorded (2 JMA) in central Niigata Prefecture.
25	13	08	23.7*	13.816	N	91.845	W	33	N	4.1	1.4	19	NEAR COAST OF GUATEMALA. MD 4.4 (UNM).
25	13	22	40.6	19.263	N	67.553	W	15				7	MONA PASSAGE. <RSR>. MD 3.4 (RSR).
25	13	29	51.7	31.673	N	142.406	E	33	N	4.6	0.9	28	SOUTHEAST OF HONSHU, JAPAN
25	13	41	18.9*	32.534	N	142.618	E	65	?	4.1	0.7	17	SOUTHEAST OF HONSHU, JAPAN
25	14	05	53.5	60.183	N	151.304	W	50				30	KENAI PENINSULA, ALASKA. <AEIC>. ML 3.1 (AEIC).
25	15	48	06.1*	0.853	N	17.453	E	10	G	4.0	1.0	17	REPUBLIC OF CONGO
25	16	10	28.7	38.002	N	141.426	E	79	D	4.2	1.0	33	NEAR EAST COAST OF HONSHU, JAPAN. Recorded (2 JMA) in northern Miyagi Prefecture.
25	16	19	01.5?	16.71	S	177.52	W	33	N	4.6 4.7	1.3	25	FIJI ISLANDS REGION. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 16:19:04.5; Lat 16.64 S; Lon 176.97 W; Dep 38.9; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.16, Plg=2, Azm=89; (N) Val=-0.03, Plg=72, Azm=353; (P) Val=-1.13, Plg=17, Azm=179; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=222, Dip=77, Slip=-11; NP2: Strike=315, Dip=79, Slip=-166.
25	16	22	49.8	36.904	N	121.017	W	5				27	CENTRAL CALIFORNIA. <NC-P>. Mw 3.7 (BRK). MD 3.8 (NC). ML 3.9 (BRK). Moment Tensor (BRK): Dep 4; Principal axes (scale 10**14 Nm): (T) Val=3.70, Plg=4, Azm=290; (N) Val=0.00, Plg=58, Azm=193; (P) Val=-3.70, Plg=32, Azm=22; Best double couple: Mo=3.7*10**14 Nm; NP1: Strike=160, Dip=71, Slip=-153; NP2: Strike=61, Dip=65, Slip=-21.
25	16	24	53.3*	16.913	S	177.184	W	33	N	4.8	1.4	41	FIJI ISLANDS REGION
25	16	29	59.0	49.430	N	127.730	W	10	G	3.9		58	VANCOUVER ISLAND, CANADA REGION. <PGC-P>. ML 4.2 (PGC).

25	17	26	31.9	23.356	S	70.687	W	51	*	5.1	1.1	54	NEAR COAST OF NORTHERN CHILE
25	18	45	05.7*	4.571	N	127.799	E	33	N	4.3	0.9	7	TALAUD ISLANDS, INDONESIA
25	18	48	17.9&	37.125	N	2.567	W	0	G			9	SPAIN. <MDD>. mbLg 2.1 (MDD).
25	18	55	37.0?	55.77	S	128.56	W	10	G	4.8	0.5	7	PACIFIC-ANTARCTIC RIDGE
25	19	05	44.2&	32.576	S	71.543	W	15				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
25	19	23	16.8*	41.112	S	91.260	W	10	G	4.8	1.4	24	SOUTHEAST OF EASTER ISLAND
25	19	57	47.0&	19.084	N	66.622	W	55				4	PUERTO RICO REGION. <RSPR>. MD 3.0 (RSPR).
25	20	11	02.0&	19.155	N	66.625	W	47				5	PUERTO RICO REGION. <RSPR>. MD 3.1 (RSPR).
25	20	15	27.9	10.368	N	62.616	W	10	G	4.8	1.1	89	NEAR COAST OF VENEZUELA. MD 5.0 (TRN).
25	20	36	43.3	51.648	N	16.094	E	5	G		1.1	24	POLAND. ML 3.4 (VIE), 3.4 (GRF), 3.1 (FUR), 2.9 (CLL).
25	20	39	20.0&	43.020	N	0.750	W	2	G			16	PYRENEES. <STR>. MD 2.5 (LDG). ML 2.3 (STR). mbLg 2.3 (MDD).
25	20	49	47.1	51.632	N	16.058	E	5	G		1.2	43	POLAND. ML 3.8 (GRF), 3.6 (VIE), 3.3 (FUR).
25	22	58	05.9	16.115	S	69.526	W	220	D	5.0	1.1	154	PERU-BOLIVIA BORDER REGION. Mw 5.3 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time													
22:58:06.7; Lat 16.51 S; Lon 69.61 W; Dep 221.3; Half-													
duration 1.0 sec; Principal axes (scale 10**17 Nm): (T)													
Val=1.08, Plg=26, Azm=86; (N) Val=0.10, Plg=7, Azm=352; (P)													
Val=-1.18, Plg=63, Azm=248; Best double couple:													
Mo=1.1*10**17 Nm; NP1: Strike=192, Dip=20, Slip=-69; NP2:													
Strike=350, Dip=71, Slip=-98.													
25	23	25	08.7&	35.880	N	21.860	E	13				6	CENTRAL MEDITERRANEAN SEA. <ATH>. MD 3.2 (ATH).
25	23	30	40.0&	61.374	N	149.916	W	28				32	SOUTHERN ALASKA. <AEIC>. ML 3.1 (AEIC), 3.3 (PMR).
25	23	40	51.4&	48.208	N	3.891	W	5	G			5	FRANCE. <LDG>. MD 2.5 (LDG).
25	23	41	58.5?	20.72	S	169.86	E	211	*		0.6	9	VANUATU ISLANDS
26	00	08	58.9*	34.576	N	24.409	E	75	*	3.4	1.2	15	CRETE, GREECE. MD 3.6 (ATH).
26	00	10	37.6&	54.766	N	159.759	W	23		4.6	1.0	110	SOUTH OF ALASKA. <AEIC>. ML 4.4 (AEIC), 4.6 (PMR).
26	01	06	59.0*	21.038	S	68.603	E	10	G	4.4	1.0	13	MID-INDIAN RIDGE
26	01	07	32.6?	1.21	S	24.26	W	10	G	3.6	0.7	5	CENTRAL MID-ATLANTIC RIDGE
26	01	23	25.1*	58.768	S	25.010	W	33	N	4.0	1.2	13	SOUTH SANDWICH ISLANDS REGION
26	01	47	41.5&	33.895	S	70.584	W	100				12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
26	02	43	23.0&	19.334	N	67.596	W	25				7	MONA PASSAGE. <RSPR>. MD 3.6 (RSPR).
26	03	04	06.7	18.606	N	67.703	W	33	N	4.4	1.1	33	MONA PASSAGE. MD 4.5 (RSPR). Felt at Santo Domingo, Dominican Republic.
26	03	08	17.9&	37.250	N	21.070	E	5				7	SOUTHERN GREECE. <ATH>. MD 3.1 (ATH).
26	03	15	15.7*	51.178	N	178.079	W	33	N	4.3	1.0	28	ANDREANOF ISLANDS, ALEUTIAN IS.
26	03	20	21.6&	37.045	N	5.172	W	0	G			6	SPAIN. <MDD>. mbLg 1.7 (MDD).
26	03	22	29.9&	19.071	N	68.222	W	35				6	NORTH ATLANTIC OCEAN. <RSPR>. MD 3.5 (RSPR).
26	03	29	01.8&	32.764	S	71.868	W	26				16	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.4 (GUC). Felt (III) at Quilpue, Quintero, Valparaíso, Villa Alemana, Vina del Mar and Zapallar; (II) at Los Andes.
26	03	31	48.7&	44.465	N	7.259	E	16				9	NORTHERN ITALY. <GEN>. ML 2.0 (GEN).
26	03	32	36.9	32.684	S	71.841	W	37		5.1 4.7	1.0	108	NEAR COAST OF CENTRAL CHILE. Mw 5.2 (HRV). MD 5.0 (GUC). Felt (IV) at Puchuncavi, Quilpue, Villa Alemana and Zapallar; (III) at Quillota, Valparaíso and Vina del Mar. Also felt at Santiago.
Centroid, Moment Tensor (HRV): Centroid origin time													
03:32:41.8; Lat 32.50 S; Lon 72.16 W; Dep 48.9; Half-													
duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)													
Val=6.77, Plg=64, Azm=129; (N) Val=0.17, Plg=16, Azm=1; (P)													
Val=-6.94, Plg=19, Azm=266; Best double couple:													
Mo=6.9*10**16 Nm; NP1: Strike=330, Dip=30, Slip=55; NP2:													
Strike=189, Dip=66, Slip=108.													
26	03	33	16.4&	18.827	N	68.153	W	77				5	MONA PASSAGE. <RSPR>. MD 3.5 (RSPR).
26	03	37	10.0&	41.370	S	172.290	E	12				9	SOUTH ISLAND, NEW ZEALAND. <WEL>. ML 3.5 (WEL).
26	03	39	23.4&	32.762	S	71.828	W	26				11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.2 (GUC). Felt (III) at Quilpue and (II) at La Ligua, Los Andes and San Felipe.
26	04	03	14.3&	37.067	N	5.213	W	0	G			8	SPAIN. <MDD>. mbLg 1.5 (MDD).
26	04	14	09.1&	32.684	S	71.756	W	25				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
26	04	30	10.0&	34.730	N	33.080	E	10				7	CYPRUS REGION. <CSS>. ML 2.7 (CSS).
26	04	40	50.5&	45.416	N	6.501	E	2				11	FRANCE. <LDG>. ML 2.0 (LDG).
26	04	41	03.5&	32.707	S	71.791	W	14				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).
26	05	13	30.0	46.357	N	7.328	E	5	G		1.0	80	SWITZERLAND. ML 3.1 (LDG), 3.1 (VIE), 3.1 (FUR), 3.0 (STR), 2.7 (FBB).
26	05	52	02.5&	32.510	S	71.743	W	18				9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
26	06	10	17.9&	46.384	N	1.769	E	4	G			8	FRANCE. <LDG>. MD 2.2 (LDG).
26	06	17	27.4&	37.760	N	1.850	W	12				8	SPAIN. <MDD>. mbLg 2.4 (MDD).
26	06	18	23.2&	32.635	S	71.794	W	15				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
26	06	19	01.0&	37.740	N	1.861	W	10				9	SPAIN. <MDD>. mbLg 2.0 (MDD).
26	06	21	02.1&	37.780	N	1.911	W	0	G			5	SPAIN. <MDD>. mbLg 1.8 (MDD).
26	06	55	14.4*	10.824	S	165.872	E	33	N	4.7 4.0	1.2	32	SANTA CRUZ ISLANDS
26	06	56	04.0&	37.798	N	1.872	W	0	G			9	SPAIN. <MDD>. mbLg 1.9 (MDD).
26	07	13	18.7	10.789	N	62.486	W	82	D	4.2	0.9	43	NEAR COAST OF VENEZUELA. MD 4.3 (TRN). Felt (IV) on Trinidad.
26	07	16	01.2&	60.306	N	148.189	W	8				55	KENAI PENINSULA, ALASKA. <AEIC>. ML 3.0 (AEIC).
26	07	34	14.5&	35.799	N	117.647	W	3				17	CENTRAL CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
26	07	44	46.7&	37.715	N	1.871	W	8				7	SPAIN. <MDD>. mbLg 1.7 (MDD).
26	07	51	22.2&	10.808	N	62.404	W	56				4	NEAR COAST OF VENEZUELA. <TRN>. MD 2.9 (TRN).
26	08	01	36.4	12.212	N	86.963	W	90		4.4	0.8	67	NICARAGUA. MD 4.4 (CASC).
26	08	05	48.3*	22.025	S	179.742	W	600	G	4.8	1.0	17	SOUTH OF FIJI ISLANDS
26	08	18	05.8&	32.763	S	71.794	W	14				9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
26	08	27	45.7*	70.878	N	13.538	W	10	G	4.0	1.1	14	JAN MAYEN ISLAND REGION
26	08	32	45.5*	24.108	N	108.688	W	10	G	3.8	1.0	25	GULF OF CALIFORNIA
26	08	41	56.2&	32.696	S	71.752	W	9				9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).
26	09	13	04.6&	34.781	N	33.011	E	15				7	CYPRUS REGION. <CSS>. ML 3.0 (CSS).
26	09	26	46.6*	10.575	S	162.175	E	33	N	4.3	0.9	12	SOLOMON ISLANDS
26	09	37	09.2?	40.49	N	29.90	W	10	G	4.4	1.3	11	AZORES ISLANDS REGION
26	09	38	38.0&	32.742	S	71.838	W	12				8	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
26	09	51	31.7	52.712	N	174.777	W	186		4.4	0.8	102	ANDREANOF ISLANDS, ALEUTIAN IS.
26	10	08	24.2&	32.646	S	71.751	W	8				10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
26	10	10	33.8&	37.763	N	1.832	W	11				6	SPAIN. <MDD>. mbLg 2.0 (MDD).
26	10	14	02.0&	32.683	S	71.770	W	7				6	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
26	10	15	26.8*	9.465	S	112.900	E	33	N	4.5	1.3	14	SOUTH OF JAWA, INDONESIA
26	10	36	01.1&	37.754	N	1.867	W	0	G			12	SPAIN. <MDD>. mbLg 2.0 (MDD).
26	10	38	39.4&	37.740	N	1.806	W	26				6	SPAIN. <MDD>. mbLg 2.0 (MDD).

26	10	47	36.8*	37.665 S	177.886 E	150 G	0.8	12	OFF E. COAST OF N. ISLAND, N.Z.		
26	11	14	07.3&	37.488 N	118.840 W	3		21	CALIFORNIA-NEVADA BORDER REGION. <NC-P>. MD 3.1 (NC). ML 3.2 (BRK).		
26	11	26	06.9&	37.565 N	1.797 W	4		10	SPAIN. <MDD>. mbLg 1.9 (MDD).		
26	11	39	29.9*	21.117 S	68.551 E	10 G	4.0	0.7	8	MID-INDIAN RIDGE	
26	12	28	52.3&	60.085 N	153.499 W	161		27	SOUTHERN ALASKA. <AEIC>.		
26	12	35	36.1&	36.984 N	4.048 W	0 G		12	STRAIT OF GIBRALTAR. <MDD>. mbLg 1.9 (MDD).		
26	12	57	28.0&	36.624 N	9.563 W	16		81	WEST OF GIBRALTAR. <MDD>. mbLg 4.0 (MDD).		
26	13	04	28.9&	35.417 N	117.000 W	4		8	CENTRAL CALIFORNIA. <PAS-P>. ML 2.8 (PAS).		
26	14	12	41.1*	11.561 N	142.933 E	33 N	4.5	1.1	13	SOUTH OF MARIANA ISLANDS	
26	14	28	57.6*	34.836 N	26.460 E	91	3.7	1.0	23	CRETE, GREECE. MD 3.9 (ATH).	
26	14	36	36.8&	39.670 N	26.280 E	5			4	TURKEY. <ATH>. MD 3.4 (ATH).	
26	14	46	35.4&	16.624 N	95.107 W	131			7	OAXACA, MEXICO. <UNM>. MD 3.9 (UNM).	
26	15	54	25.2&	32.643 S	71.878 W	14			16	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.2 (GUC).	
26	15	58	34.1*	30.428 N	88.247 E	33 N	3.8	0.8	6	XIZANG	
26	16	04	03.0&	32.649 S	71.875 W	24			17	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.3 (GUC).	
26	16	23	39.1&	40.380 S	173.450 E	134			10	COOK STRAIT, NEW ZEALAND. <WEL>.	
26	17	39	12.0&	34.507 N	32.049 E	25			7	CYPRUS REGION. <CSS>. ML 2.1 (CSS).	
26	18	13	47.7*	27.345 N	97.095 E	33 N	3.6	1.4	8	MYANMAR-INDIA BORDER REGION	
26	19	26	41.9&	37.910 S	177.160 E	157			12	OFF E. COAST OF N. ISLAND, N.Z. <WEL>.	
26	19	41	32.5*	48.348 N	150.070 E	350 *	3.8	0.6	15	NORTHWEST OF KURIL ISLANDS	
26	20	41	22.3	39.420 N	76.801 E	54	4.6	4.5	0.9	66	SOUTHERN XINJIANG, CHINA
26	21	08	55.9&	46.246 N	1.358 E	19 G			9	FRANCE. <LDG>. ML 2.0 (LDG).	
26	22	05	19.6&	32.141 S	71.835 W	11			9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).	
26	22	07	09.1&	18.696 N	66.855 W	74			7	PUERTO RICO REGION. <RSRPR>. MD 3.1 (RSRPR).	
26	22	41	59.5*	8.079 S	75.095 W	122 *	4.3	0.6	15	CENTRAL PERU	
26	22	42	22.7	39.411 N	76.735 E	58 D	4.4	0.9	41	SOUTHERN XINJIANG, CHINA	
26	23	58	12.6&	32.788 S	70.107 W	112			10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).	
27	00	04	05.5	5.370 S	151.387 E	63 D	5.0	1.2	69	NEW BRITAIN REGION, P.N.G. Mw 5.2 (HRV).	
										Centroid, Moment Tensor (HRV): Centroid origin time 00:04:06.1; Lat 5.65 S; Lon 151.89 E; Dep 51.1; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=7.62, Plg=39, Azm=140; (N) Val=-1.83, Plg=42, Azm=277; (P) Val=-5.78, Plg=23, Azm=30; Best double couple: Mo=6.7*10**16 Nm; NP1: Strike=168, Dip=44, Slip=166; NP2: Strike=268, Dip=81, Slip=47.	
27	01	22	57.8&	37.248 N	1.892 W	9			8	SPAIN. <MDD>. mbLg 2.1 (MDD).	
27	01	37	44.3&	64.499 N	148.974 W	4			19	CENTRAL ALASKA. <AEIC>. ML 2.9 (AEIC), 3.3 (PMR).	
27	02	55	34.3	31.863 N	40.976 W	10 G	5.2	4.6	0.7	317	NORTHERN MID-ATLANTIC RIDGE. Mw 5.3 (HRV).
										Centroid, Moment Tensor (HRV): Centroid origin time 02:55:39.6; Lat 32.02 N; Lon 40.72 W; Dep 15.0 Bdy; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.01, Plg=7, Azm=315; (N) Val=0.03, Plg=4, Azm=224; (P) Val=-1.04, Plg=82, Azm=106; Best double couple: Mo=1.0*10**17 Nm; NP1: Strike=49, Dip=38, Slip=-84; NP2: Strike=221, Dip=52, Slip=-95.	
27	03	00	43.3*	16.650 N	120.211 E	90 *		1.3	15	LUZON, PHILIPPINES	
27	03	59	16.9?	22.20 S	169.55 E	33 N		0.4	7	SOUTHEAST OF LOYALTY ISLANDS	
27	04	24	29.4&	41.260 S	173.460 E	108			6	SOUTH ISLAND, NEW ZEALAND. <WEL>.	
27	04	47	54.6&	63.277 N	149.271 W	97			19	CENTRAL ALASKA. <AEIC>.	
27	05	04	42.1*	14.758 N	92.789 W	33 N	3.9	1.3	20	NEAR COAST OF CHIAPAS, MEXICO. MD 4.6 (UNM).	
27	05	07	21.8&	32.985 N	115.558 W	13	3.4		35	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.9 (PAS). Felt at Brawley, El Centro and Westmorland, California.	
27	05	17	05.2&	32.984 N	115.557 W	12			25	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.8 (PAS). Felt at Brawley, El Centro and Westmorland, California.	
27	05	40	00.5&	40.390 S	176.730 E	33 N			12	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.8 (WEL).	
27	07	04	21.4?	5.26 S	154.23 E	33 N	4.2	0.4	6	SOLOMON ISLANDS	
27	07	53	26.3*	19.087 S	67.533 W	220 *		0.5	8	SOUTHERN BOLIVIA	
27	08	14	12.8*	23.228 N	120.704 E	33 N	4.4	1.4	8	TAIWAN. Recorded (3 TAP) in the epicentral area; (2 TAP) at Chang-hua and Chia-i; (1 TAP) at Hua-lien, Kao-hsiung, Ping-tung, Tai-chung and Tai-nan.	
27	08	39	46.0*	36.574 N	71.056 E	224 *	3.6	0.9	17	AFGHANISTAN-TAJIKISTAN BORD REG.	
27	09	02	32.4*	32.863 S	179.141 W	33 N	4.3	0.8	11	SOUTH OF KERMADEC ISLANDS	
27	09	45	38.9*	8.176 S	158.020 E	158 D	4.3	1.1	13	SOLOMON ISLANDS	
27	09	54	18.9*	5.428 S	79.779 W	76 ?	4.5	1.0	25	NORTHERN PERU	
27	10	03	24.6&	47.800 N	6.850 E	1 G			5	FRANCE. <STR>. ML 1.8 (STR).	
27	10	21	21.0*	19.688 S	69.113 W	126 *	4.2	0.6	8	NORTHERN CHILE	
27	10	24	40.2&	10.983 N	62.036 W	93			11	NEAR COAST OF VENEZUELA. <TRN>. MD 3.3 (TRN).	
27	10	40	47.7&	38.110 S	177.810 E	25			10	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.9 (WEL).	
27	10	43	16.3&	33.139 S	69.012 W	15			9	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).	
27	11	12	12.9*	11.015 N	125.289 E	129	3.9	1.0	18	SAMAR, PHILIPPINES	
27	11	41	16.6&	38.870 S	175.790 E	104			10	NORTH ISLAND, NEW ZEALAND. <WEL>.	
27	13	35	08.4&	58.832 N	152.977 W	65			16	KODIAK ISLAND REGION, ALASKA. <AEIC>. ML 2.7 (AEIC).	
27	13	44	03.8	41.976 N	15.322 E	10 G	3.5	1.3	50	SOUTHERN ITALY. ML 3.7 (ROM).	
27	13	56	29.2&	36.802 N	2.992 W	0 G			5	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.1 (MDD).	
27	14	31	19.2&	34.134 S	70.067 W	7			12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).	
27	14	39	29.4*	5.750 S	150.971 E	90 *	4.2	1.2	12	NEW BRITAIN REGION, P.N.G.	
27	15	17	48.0&	48.790 N	128.720 W	10 G			6	VANCOUVER ISLAND, CANADA REGION. <PGC-P>. ML 3.4 (PGC).	
27	15	21	04.0&	48.790 N	128.800 W	10 G			13	VANCOUVER ISLAND, CANADA REGION. <PGC-P>. ML 3.6 (PGC).	
27	15	41	57.5	35.633 N	27.146 E	48	4.0	1.3	40	DODECANESE ISLANDS, GREECE. MD 4.1 (ATH).	
27	15	57	26.6&	39.310 S	174.930 E	26			14	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.7 (WEL).	
27	17	35	00.3	16.193 S	172.912 W	33 N	4.9	5.1	1.0	75	SAMOA ISLANDS REGION. Mw 5.6 (HRV).
										Centroid, Moment Tensor (HRV): Centroid origin time 17:35:06.4; Lat 16.05 S; Lon 172.51 W; Dep 17.0 Bdy; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=2.64, Plg=67, Azm=285; (N) Val=-0.14, Plg=2, Azm=190; (P) Val=-2.51, Plg=23, Azm=99; Best double couple: Mo=2.6*10**17 Nm; NP1: Strike=184, Dip=22, Slip=84; NP2: Strike=11, Dip=68, Slip=93.	
27	18	30	17.1	31.521 S	179.730 E	450 G	4.6	1.3	59	KERMADEC ISLANDS REGION	
27	18	49	56.5&	38.410 N	21.910 E	15			4	GREECE. <ATH>. MD 3.0 (ATH).	
27	18	57	55.2	1.604 N	127.352 E	133	4.5	0.7	32	HALMAHERA, INDONESIA	
27	19	41	23.2&	32.629 S	71.809 W	13			12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).	

27	19 45 38.3*	19.462 S	69.135 W	150 G	4.4	0.8	10	NORTHERN CHILE
27	20 24 44.1*	37.840 N	19.780 E	5			5	IONIAN SEA. <ATH>. MD 3.3 (ATH).
27	20 40 33.5*	38.490 N	21.540 E	5			5	GREECE. <ATH>. MD 3.2 (ATH).
27	20 46 35.3*	33.057 S	70.262 W	97			10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
27	21 50 23.5	36.971 N	7.169 W	10 G		0.9	34	STRAIT OF GIBRALTAR. mbLg 3.6 (MDD).
27	21 58 12.1*	39.120 S	174.700 E	153			15	NORTH ISLAND, NEW ZEALAND. <WEL>.
27	22 05 59.3	6.405 N	126.413 E	68 *	4.5	1.3	33	MINDANAO, PHILIPPINES
27	22 10 15.1*	49.361 N	6.949 E	1 G			24	GERMANY. <LDG>. ML 2.7 (LDG), 2.1 (FBB). Mining induced event in the Lorraine region, France.
27	22 19 31.0*	48.660 N	128.710 W	10 G	4.0		53	VANCOUVER ISLAND, CANADA REGION. <PGC-P>. ML 3.3 (PGC).
27	22 29 22.7	29.686 S	179.339 W	334 *	4.6	1.4	64	KERMADEC ISLANDS REGION
27	23 44 39.8*	20.60 S	178.43 W	600 G	4.3	1.0	19	FIJI ISLANDS REGION
28	00 17 19.4*	49.124 N	6.805 E	1 G			22	GERMANY. <LDG>. ML 2.4 (LDG), 2.0 (FBB). Mining induced event in the Lorraine region, France.
28	00 26 14.1	13.305 N	90.806 W	55	4.9 4.7	1.1	137	NEAR COAST OF GUATEMALA. Mw 5.4 (HRV). MD 5.1 (UNM), 4.4 (CASC). Centroid, Moment Tensor (HRV): Centroid origin time 00:26:18.4; Lat 13.72 N; Lon 91.53 W; Dep 37.5; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.09, Plg=55, Azm=349; (N) Val=0.18, Plg=16, Azm=103; (P) Val=-1.27, Plg=30, Azm=203; Best double couple: Mo=1.2*10**17 Nm; NP1: Strike=334, Dip=21, Slip=142; NP2: Strike=100, Dip=77, Slip=73.
28	00 41 54.6*	48.025 N	7.519 E	5 G			16	FRANCE. <LDG>. ML 2.0 (LDG), 1.7 (STR).
28	01 05 54.7*	13.917 N	61.098 W	23			4	WINDWARD ISLANDS. <TRN>. MD 3.0 (TRN).
28	01 06 01.8	51.102 N	15.785 E	5 G		0.4	10	POLAND. ML 3.4 (VIE).
28	01 31 18.8*	41.320 S	174.820 E	24			8	COOK STRAIT, NEW ZEALAND. <WEL>. ML 2.7 (WEL).
28	01 35 51.2	17.210 N	102.008 W	33 N	4.5	1.1	81	NEAR COAST OF MICHOACAN, MEXICO. MD 4.3 (UNM).
28	01 46 31.2	38.359 N	91.321 E	33 N	4.6	1.0	43	QINGHAI, CHINA
28	01 57 11.2*	48.001 N	7.619 E	2			13	FRANCE. <LDG>. ML 1.7 (LDG), 1.6 (STR).
28	02 08 48.3*	42.160 S	174.120 E	23			9	OFF E. COAST OF S. ISLAND, N.Z. <WEL>. ML 3.8 (WEL).
28	02 22 20.0*	45.534 N	6.123 E	2			14	FRANCE. <LDG>. ML 2.3 (LDG).
28	02 29 28.6	13.333 N	90.836 W	33 N	4.5	1.4	60	NEAR COAST OF GUATEMALA. MD 4.6 (UNM).
28	02 38 31.2*	13.47 N	90.59 W	33 N	4.2	1.0	26	NEAR COAST OF GUATEMALA
28	02 54 17.2*	7.482 S	128.695 E	127 *	4.3	1.4	18	BANDA SEA
28	03 09 38.2	47.385 N	7.053 E	5 G		1.4	55	SWITZERLAND. ML 3.1 (LDG), 2.7 (VIE), 2.6 (FBB).
28	03 16 26.6*	47.368 N	7.166 E	4 G			5	SWITZERLAND. <LDG>. ML 2.0 (LDG).
28	03 29 23.8*	47.367 N	7.199 E	4 G			13	SWITZERLAND. <LDG>. ML 2.0 (LDG), 1.8 (STR).
28	03 45 05.0*	48.770 N	128.820 W	10 G			7	VANCOUVER ISLAND, CANADA REGION. <PGC-P>. ML 3.0 (PGC).
28	04 45 20.4	36.512 N	113.510 W	5 G		0.5	14	WESTERN ARIZONA. ML 3.0 (GS).
28	05 28 20.1*	34.787 N	116.294 W	5			9	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
28	05 29 51.3*	47.378 N	7.159 E	4 G			56	SWITZERLAND. <LDG>. ML 3.3 (LDG), 3.1 (STR), 2.9 (FBB), 2.9 (VIE).
28	05 32 29.7*	18.071 N	67.059 W	27			6	MONA PASSAGE. <RSR>. MD 2.6 (RSR).
28	05 32 38.7*	54.505 N	161.956 W	0 G	4.7		98	ALASKA PENINSULA. <AEIC>. ML 4.4 (AEIC). Felt at King Cove.
28	05 33 02.4*	47.361 N	7.213 E	4 G			56	SWITZERLAND. <LDG>. ML 3.2 (LDG), 3.1 (VIE), 3.0 (STR), 2.8 (FBB).
28	06 20 57.5*	33.882 S	70.591 W	91			10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
28	07 44 47.9*	6.231 S	148.529 E	33 N	4.0	1.1	9	NEW BRITAIN REGION, P.N.G.
28	08 27 43.0*	47.930 N	7.800 E	2 G			6	SWITZERLAND. <STR>. ML 1.9 (STR).
28	08 27 44.7	2.091 S	133.928 E	33 N	4.9 4.6	1.1	63	IRIAN JAYA REGION, INDONESIA. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 08:27:43.0; Lat 2.24 S; Lon 134.00 E; Dep 20.4; Half-duration 1.1 sec; Principal axes (scale 10**16 Nm): (T) Val=6.99, Plg=6, Azm=101; (N) Val=-0.06, Plg=84, Azm=273; (P) Val=-6.92, Plg=1, Azm=11; Best double couple: Mo=7.0*10**16 Nm; NP1: Strike=146, Dip=85, Slip=176; NP2: Strike=237, Dip=86, Slip=5.
28	08 30 31.2*	37.140 S	177.560 E	102			14	OFF E. COAST OF N. ISLAND, N.Z. <WEL>.
28	08 39 46.5*	45.552 N	6.087 E	2			19	FRANCE. <LDG>. ML 2.5 (LDG).
28	09 32 38.0*	44.740 N	4.630 E	5 G			5	FRANCE. <STR>. ML 2.6 (STR).
28	10 00 00.1*	44.019 N	7.647 E	9			6	NORTHERN ITALY. <GEN>. ML 1.9 (GEN).
28	11 00 22.5	22.338 N	143.730 E	127 D	6.8 7.6	1.2	538	VOLCANO ISLANDS, JAPAN REGION. Mw 7.6 (GS), 7.6 (HRV). Me 7.4 (GS). Felt on Chichi-jima. Broadband Source Parameters (GS): Dep 102; NP1: Strike=115, Dip=89, Slip=-80; NP2: Strike=211, Dip=10, Slip=-174; Radiated energy 3.2*10**15 Nm. Moment Tensor (GS): Dep 99; Principal axes (scale 10**20 Nm): (T) Val=3.62, Plg=44, Azm=201; (N) Val=-0.92, Plg=0, Azm=111; (P) Val=-2.69, Plg=46, Azm=20; Best double couple: Mo=3.2*10**20 Nm; NP1: Strike=299, Dip=1, Slip=-81; NP2: Strike=111, Dip=89, Slip=-90. Centroid, Moment Tensor (HRV): Centroid origin time 11:00:31.3; Lat 22.32 N Fix; Lon 143.76 E Fix; Dep 99.7; Half-duration 17.6 sec; Principal axes (scale 10**20 Nm): (T) Val=3.71, Plg=40, Azm=199; (N) Val=-1.02, Plg=4, Azm=292; (P) Val=-2.69, Plg=50, Azm=26; Best double couple: Mo=3.2*10**20 Nm; NP1: Strike=255, Dip=6, Slip=-127; NP2: Strike=112, Dip=85, Slip=86.
28	11 23 55.1*	22.193 N	143.737 E	100 G		0.9	17	VOLCANO ISLANDS, JAPAN REGION
28	11 29 07.5*	24.056 S	66.756 W	208	4.9	0.8	17	SALTA PROVINCE, ARGENTINA
28	11 51 06.3*	22.30 N	143.99 E	100 G	3.7	1.3	8	VOLCANO ISLANDS, JAPAN REGION
28	12 02 24.6*	22.111 N	143.577 E	100 G	3.4	0.8	9	VOLCANO ISLANDS, JAPAN REGION
28	12 03 14.0*	32.392 S	71.469 W	32			13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
28	12 05 25.7*	22.28 N	143.68 E	100 G	3.2	1.5	6	VOLCANO ISLANDS, JAPAN REGION
28	12 18 55.4*	22.286 N	143.596 E	100 G	3.7	1.2	10	VOLCANO ISLANDS, JAPAN REGION
28	12 29 05.4*	22.43 N	143.59 E	100 G	3.1	1.0	6	VOLCANO ISLANDS, JAPAN REGION
28	12 29 47.3*	22.29 N	143.73 E	100 G	3.4	0.9	5	VOLCANO ISLANDS, JAPAN REGION
28	12 38 42.8*	22.168 N	143.921 E	100 G	3.9	1.2	10	VOLCANO ISLANDS, JAPAN REGION
28	12 46 04.8*	22.28 N	143.69 E	100 G		0.6	7	VOLCANO ISLANDS, JAPAN REGION
28	12 48 31.0*	23.10 N	143.51 E	100 G	3.4	1.2	10	VOLCANO ISLANDS, JAPAN REGION
28	12 51 02.9*	22.25 N	143.73 E	100 G	3.3	0.6	6	VOLCANO ISLANDS, JAPAN REGION
28	12 54 36.2*	10.474 N	61.440 W	11			4	TRINIDAD. <TRN>. MD 2.4 (TRN).

[illegible]

area.

29	09	13	41.9*	27.918 S	176.381 W	33 N	4.2	1.1	19	KERMADEC ISLANDS REGION
29	09	35	29.7*	42.700 N	140.923 E	10 G	3.5	0.8	8	HOKKAIDO, JAPAN REGION
29	09	48	42.5	53.843 N	170.820 E	33 N	4.5	0.9	57	NEAR ISLANDS, ALEUTIAN ISLANDS. ML 4.6 (PMR).
29	10	31	57.1*	9.465 N	70.590 W	33 N	4.2	0.8	25	VENEZUELA
29	11	01	04.3*	42.776 N	140.781 E	10 G		1.1	10	HOKKAIDO, JAPAN REGION
29	11	53	40.6*	45.614 N	6.259 E	2			9	FRANCE. <LDG>. ML 2.2 (LDG).
29	12	03	01.2*	42.756 N	140.875 E	10 G		0.8	7	HOKKAIDO, JAPAN REGION
29	12	04	37.1	22.142 N	143.726 E	100 G	4.3	0.9	39	VOLCANO ISLANDS, JAPAN REGION
29	12	15	17.9*	10.097 N	125.047 E	33 N		0.6	7	LEYTE, PHILIPPINES
29	12	21	13.5*	44.126 N	8.737 E	0			9	NORTHERN ITALY. <GEN>. ML 2.3 (GEN).
29	12	23	36.3*	42.787 N	140.780 E	10 G	3.6	0.8	8	HOKKAIDO, JAPAN REGION
29	12	28	53.3*	34.752 N	33.136 E	8			7	CYPRUS REGION. <CSS>. ML 3.5 (CSS). Felt (III) at Limassol.
29	12	37	35.1*	31.591 N	99.719 E	33 N	3.9	1.4	19	SICHUAN, CHINA
29	12	42	57.1*	42.732 N	140.557 E	10 G		1.4	6	HOKKAIDO, JAPAN REGION
29	12	54	16.1	9.689 N	126.777 E	40 D	4.6 4.1	1.1	56	MINDANAO, PHILIPPINES
29	13	10	45.9*	34.743 N	33.126 E	8			7	CYPRUS REGION. <CSS>. ML 2.9 (CSS). Felt (II) at Limassol.
29	13	12	10.8*	9.690 N	126.770 E	42 D		1.2	12	MINDANAO, PHILIPPINES
29	13	34	34.4*	34.345 N	118.570 W	13			7	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
29	13	47	00.9*	35.43 N	140.09 E	33 N		1.2	6	NEAR EAST COAST OF HONSHU, JAPAN
29	13	47	39.2	45.396 S	148.420 E	116 D	4.8	1.1	122	KURIL ISLANDS
29	14	06	50.0*	20.568 S	178.023 W	559 ?	4.1	0.9	37	FIJI ISLANDS REGION
29	14	12	14.3*	42.635 N	140.907 E	10 G	4.1	1.3	18	HOKKAIDO, JAPAN REGION. Recorded (4 JMA) in the epicentral area.
29	14	27	14.6*	41.050 S	175.370 E	25			15	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 4.2 (WEL). Felt in Wellington Province.
29	14	30	57.8	41.029 S	175.462 E	33 N	5.0 5.0	1.1	56	NORTH ISLAND, NEW ZEALAND. Mw 5.2 (HRV). ML 5.5 (WEL). Minor damage in Wairarapa South County. Felt widely in Wellington Province.
Centroid, Moment Tensor (HRV): Centroid origin time 14:31:01.2; Lat 40.93 S; Lon 175.47 E; Dep 46.4; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=8.76, Plg=32, Azm=313; (N) Val=-0.93, Plg=3, Azm=221; (P) Val=-7.83, Plg=58, Azm=125; Best double couple: Mo=8.3*10**16 Nm; NP1: Strike=54, Dip=14, Slip=-76; NP2: Strike=220, Dip=77, Slip=-93.										
29	15	05	30.6*	22.25 N	143.90 E	100 G	3.6	1.3	7	VOLCANO ISLANDS, JAPAN REGION
29	15	21	21.0*	42.498 N	140.901 E	10 G	4.2 3.8	1.2	15	HOKKAIDO, JAPAN REGION
29	15	53	37.0*	49.380 N	6.990 E	1 G			5	GERMANY. <FBB>. ML 1.9 (FBB).
29	16	03	23.3*	2.38 N	98.89 W	10 G	4.4	1.2	15	WEST OF GALAPAGOS ISLANDS
29	16	06	55.9	1.914 S	125.132 E	37 *	4.7 3.9	1.0	30	SOUTHERN MOLUCCA SEA
29	16	12	20.1*	42.635 N	140.701 E	10 G	4.0	1.5	13	HOKKAIDO, JAPAN REGION
29	16	57	02.3	46.231 N	12.595 E	10 G		1.1	87	NORTHERN ITALY. ML 3.7 (STR), 3.6 (GRF), 3.5 (VIE), 3.2 (TRI), 3.2 (FUR), 3.2 (LDG), 3.1 (FBB).
29	16	58	23.6*	39.010 N	23.510 E	5			6	AEGEAN SEA. <ATH>. ML 3.5 (ATH).
29	17	09	28.5*	22.239 N	143.745 E	100 G	4.6	0.9	27	VOLCANO ISLANDS, JAPAN REGION
29	17	28	17.1	4.520 S	125.252 E	465	4.4	0.9	61	BANDA SEA
29	17	49	47.0*	39.420 N	120.570 W	13			13	NORTHERN CALIFORNIA. <REN-P>. MD 2.6 (REN). ML 3.2 (BRK), 3.0 (GS).
29	17	54	18.6	42.595 N	140.605 E	10 G	4.5	1.2	40	HOKKAIDO, JAPAN REGION. Recorded (4 JMA) in the epicentral area.
29	18	20	19.0	42.694 N	140.705 E	10 G	4.5	0.9	27	HOKKAIDO, JAPAN REGION. Recorded (4 JMA) in the epicentral area.
29	18	23	17.6*	34.713 N	33.142 E	5			4	CYPRUS REGION. <CSS>. ML 1.9 (CSS).
29	19	32	19.9*	34.345 N	118.573 W	13			5	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS). Felt in the Valencia area.
29	19	42	49.3*	42.885 N	140.697 E	10 G		0.4	5	HOKKAIDO, JAPAN REGION
29	19	44	25.2*	55.518 S	25.838 W	33 N	4.0	0.4	8	SOUTH SANDWICH ISLANDS REGION
29	19	51	40.5*	37.480 N	23.400 E	5			7	SOUTHERN GREECE. <ATH>. MD 2.9 (ATH).
29	20	05	29.1*	36.975 N	5.554 W	0 G			8	STRAIT OF GIBRALTAR. <MDD>. mbLg 1.9 (MDD).
29	20	21	31.9	42.687 N	140.594 E	10 G	4.5	1.1	41	HOKKAIDO, JAPAN REGION. Recorded (4 JMA) in the epicentral area.
29	20	24	40.4	16.913 N	146.341 E	76 *	4.8	0.9	39	MARIANA ISLANDS
29	20	27	46.2*	7.898 N	127.112 E	33 N		0.6	10	PHILIPPINE ISLANDS REGION
29	21	23	31.7*	42.692 N	140.946 E	10 G		0.5	7	HOKKAIDO, JAPAN REGION
29	21	38	05.0*	42.718 N	140.678 E	10 G	3.5	0.8	9	HOKKAIDO, JAPAN REGION
29	21	42	36.7	46.292 N	12.571 E	10 G		0.7	27	NORTHERN ITALY. ML 3.0 (VIE), 2.8 (FUR), 2.8 (LDG), 2.5 (TRI).
29	21	52	17.7*	44.483 N	7.236 E	8			6	NORTHERN ITALY. <GEN>. ML 1.7 (GEN).
29	21	57	11.9*	17.847 N	67.015 W	38			4	MONA PASSAGE. <RSRP>. MD 2.3 (RSRP).
29	22	22	52.3	22.262 N	143.453 E	106 D	4.9	0.8	140	VOLCANO ISLANDS, JAPAN REGION. Mw 5.1 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 22:22:57.8; Lat 22.63 N; Lon 142.94 E; Dep 83.3; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.91, Plg=76, Azm=12; (N) Val=1.31, Plg=11, Azm=228; (P) Val=-6.22, Plg=8, Azm=137; Best double couple: Mo=5.6*10**16 Nm; NP1: Strike=214, Dip=38, Slip=72; NP2: Strike=56, Dip=54, Slip=104.										
29	22	50	10.0*	9.426 S	122.686 E	78 ?	4.0	1.1	7	SAVU SEA
29	22	52	17.3*	35.492 N	1.416 W	13			10	NORTHERN ALGERIA. <MDD>. mbLg 2.0 (MDD).
29	22	52	45.9*	41.010 S	175.430 E	28			6	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 2.5 (WEL).
29	23	34	48.6	42.805 N	140.777 E	10 G	4.8	0.8	16	HOKKAIDO, JAPAN REGION
29	23	37	07.4*	2.470 N	125.653 E	156	4.3	0.8	16	TALAUD ISLANDS, INDONESIA
29	23	51	15.8*	41.030 S	175.420 E	26			4	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 1.6 (WEL).
30	00	12	45.7	42.576 N	140.718 E	10 G	4.9 4.1	0.8	141	HOKKAIDO, JAPAN REGION. Felt at Abuta. Recorded (3 JMA) at Date.
30	00	51	45.6	29.322 S	71.845 W	33 N	4.7	1.1	46	NEAR COAST OF CENTRAL CHILE
30	00	58	56.3*	63.261 N	151.355 W	14			10	CENTRAL ALASKA. <AEIC>. ML 2.2 (AEIC), 2.7 (PMR).
30	00	59	35.3*	33.147 N	115.641 W	4			9	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.3 (PAS).
30	01	09	28.5	42.708 N	140.863 E	10 G	4.4	0.8	26	HOKKAIDO, JAPAN REGION
30	01	16	37.7*	18.703 N	66.904 W	14			4	PUERTO RICO REGION. <RSRP>. MD 2.5 (RSRP).
30	01	17	05.9*	36.021 N	117.874 W	3			8	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.0 (PAS).
30	01	23	58.0*	43.160 N	0.650 W	5 G			4	PYRENEES. <STR>. ML 2.2 (STR).

30	01	30	29.2&	36.022 N	117.871 W	3				8	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.0 (PAS).
30	01	31	25.0&	36.015 N	117.869 W	3				7	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 2.8 (PAS).
30	01	36	20.7&	49.351 N	6.856 E	1 G				6	GERMANY. <LDG>. MD 2.4 (LDG). Mining induced event in the Lorraine region, France.
30	02	24	32.6	39.096 N	13.775 E	410	4.5	0.9	125	TYRRHENIAN SEA	
30	02	29	16.7&	49.376 N	6.944 E	1 G			20	GERMANY. <LDG>. ML 2.6 (LDG), 2.2 (FBB). Mining induced event in the Lorraine region, France.	
30	02	36	47.2&	36.240 N	23.180 E	5			4	SOUTHERN GREECE. <ATH>. MD 2.8 (ATH).	
30	02	44	43.8&	63.168 N	150.306 W	113	2.5		77	CENTRAL ALASKA. <AEIC>.	
30	03	49	43.5&	62.844 N	148.839 W	71			7	CENTRAL ALASKA. <AEIC>.	
30	03	53	37.9	42.794 N	140.738 E	10 G	3.8	0.4	11	HOKKAIDO, JAPAN REGION	
30	04	03	16.6*	20.318 S	169.119 E	50 *	4.3	0.8	12	VANUATU ISLANDS	
30	04	05	54.8*	58.495 S	25.015 W	33 N	4.2	0.9	14	SOUTH SANDWICH ISLANDS REGION	
30	04	36	13.0&	47.640 N	9.040 E	10			17	GERMANY. <FBB>. ML 2.2 (LDG), 2.1 (STR), 2.0 (FBB).	
30	04	57	40.8*	42.749 N	140.615 E	10 G	3.5	0.8	8	HOKKAIDO, JAPAN REGION	
30	05	02	42.5	42.431 N	140.698 E	10 G	4.1	0.7	13	HOKKAIDO, JAPAN REGION. Recorded (4 JMA) in the epicentral area.	
30	07	06	06.9	43.343 N	146.412 E	64 D	5.2	0.9	270	KURIL ISLANDS. Mw 5.1 (HRV). Felt (III) on Shikotan and at Yuzhno-Kurilsk, Kunashir. Recorded (2 JMA) in eastern Hokkaido. Centroid, Moment Tensor (HRV): Centroid origin time 07:06:07.1; Lat 43.48 N; Lon 146.55 E; Dep 58.4; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.39, Plg=8, Azm=58; (N) Val=-0.69, Plg=11, Azm=150; (P) Val=-4.70, Plg=76, Azm=295; Best double couple: Mo=5.1*10**16 Nm; NPl: Strike=135, Dip=38, Slip=-109; NP2: Strike=338, Dip=54, Slip=-76.	
30	07	08	26.7&	40.600 N	28.999 E	8			8	TURKEY. <ISK>. MD 2.7 (ISK).	
30	07	42	09.5*	42.798 N	140.743 E	10 G	3.5	0.6	11	HOKKAIDO, JAPAN REGION. Recorded (3 JMA) in the epicentral area.	
30	07	51	26.2&	17.043 N	100.628 W	42			8	GUERRERO, MEXICO. <UNM>. MD 3.8 (UNM).	
30	07	59	56.1?	24.35 S	67.87 W	124 ?	4.0	0.5	10	CHILE-ARGENTINA BORDER REGION	
30	08	13	28.3	42.621 N	140.749 E	10 G	4.8	1.3	76	HOKKAIDO, JAPAN REGION. Recorded (4 JMA) in the epicentral area.	
30	09	09	44.2&	40.181 N	29.348 E	23			4	TURKEY. <ISK>. MD 2.6 (ISK).	
30	09	16	42.7	42.767 N	140.774 E	10 G	4.1	0.6	11	HOKKAIDO, JAPAN REGION	
30	09	16	59.6	42.672 N	140.668 E	10 G	4.4	1.1	33	HOKKAIDO, JAPAN REGION. Recorded (4 JMA) in the epicentral area.	
30	09	23	03.2*	42.697 N	140.852 E	10 G		1.1	8	HOKKAIDO, JAPAN REGION. Recorded (3 JMA) in the epicentral area.	
30	09	32	17.8	39.503 N	15.839 E	267	4.6	1.0	334	SOUTHERN ITALY	
30	09	33	56.8&	41.030 S	175.400 E	24			8	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 3.6 (WEL).	
30	09	36	50.0&	19.205 N	68.249 W	36			6	NORTH ATLANTIC OCEAN. <RSRP>.	
30	09	38	08.5&	18.820 N	68.015 W	47	3.9		19	MONA PASSAGE. <RSRP>. MD 4.3 (RSRP).	
30	09	42	31.1&	46.136 N	7.376 E	2			12	SWITZERLAND. <LDG>. ML 2.4 (LDG).	
30	09	43	59.5&	41.020 S	175.420 E	26			7	NORTH ISLAND, NEW ZEALAND. <WEL>. ML 2.9 (WEL).	
30	09	44	17.4?	25.47 S	179.59 E	535 ?	4.5	0.6	12	SOUTH OF FIJI ISLANDS	
30	09	50	28.8&	15.961 N	98.865 W	16			8	OFF COAST OF GUERRERO, MEXICO. <UNM>. MD 4.0 (UNM).	
30	09	51	54.5	42.588 N	140.932 E	10 G	4.3	0.7	30	HOKKAIDO, JAPAN REGION. Recorded (4 JMA) in the epicentral area.	
30	10	24	27.1&	47.225 N	6.929 E	4 G			17	FRANCE. <LDG>. MD 2.5 (LDG). ML 2.1 (STR).	
30	10	30	21.4	42.671 N	140.669 E	10 G	3.5	0.8	12	HOKKAIDO, JAPAN REGION. Recorded (3 JMA) in the epicentral area.	
30	10	42	27.1	44.734 N	148.257 E	73	4.6	0.8	97	KURIL ISLANDS	
30	11	10	08.0&	43.373 N	2.287 E	2			5	FRANCE. <LDG>. MD 2.4 (LDG).	
30	11	36	43.0*	42.840 N	140.632 E	10 G	3.6	0.6	8	HOKKAIDO, JAPAN REGION	
30	12	47	07.2&	35.590 N	22.870 E	31			4	CENTRAL MEDITERRANEAN SEA. <ATH>. MD 3.5 (ATH).	
30	13	01	13.1*	42.619 N	140.879 E	10 G	3.6	0.8	10	HOKKAIDO, JAPAN REGION	
30	13	18	12.6&	44.502 N	7.246 E	8			12	NORTHERN ITALY. <GEN>. ML 2.1 (GEN).	
30	14	04	33.1*	22.175 N	143.953 E	100 G	4.0	1.0	10	VOLCANO ISLANDS, JAPAN REGION	
30	14	12	37.4*	24.992 N	123.287 E	141 *	3.5	0.3	6	SOUTHWESTERN RYUKYU ISL., JAPAN	
30	14	19	31.4&	45.400 N	2.030 E	2 G			4	FRANCE. <STR>. ML 2.6 (STR).	
30	14	27	25.3?	5.48 S	153.95 E	150 ?	4.0	0.5	8	NEW IRELAND REGION, P.N.G.	
30	15	01	29.2*	42.720 N	140.600 E	10 G	3.8	1.1	11	HOKKAIDO, JAPAN REGION	
30	15	11	37.9?	35.29 N	73.58 E	33 N	3.7	0.4	5	NORTHWESTERN KASHMIR	
30	15	12	27.0*	24.700 N	94.712 E	66 D	4.2	1.1	23	MYANMAR-INDIA BORDER REGION	
30	15	27	30.6&	37.100 S	177.620 E	130			31	OFF E. COAST OF N. ISLAND, N.Z. <WEL>.	
30	16	02	29.3*	51.507 N	173.251 W	33 N	4.1	1.0	20	ANDREANOF ISLANDS, ALEUTIAN IS.	
30	16	32	20.4*	11.830 S	117.406 E	33 N	4.5	1.1	8	SOUTH OF SUMBAWA, INDONESIA	
30	17	34	53.3*	22.306 N	143.486 E	100 G	4.0	1.0	11	VOLCANO ISLANDS, JAPAN REGION	
30	18	12	05.7&	34.341 N	118.566 W	12			6	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).	
30	18	34	32.0*	1.458 S	134.172 E	33 N	4.3	0.5	7	IRIAN JAYA REGION, INDONESIA	
30	19	58	58.6*	42.785 N	140.541 E	10 G		1.4	10	HOKKAIDO, JAPAN REGION	
30	20	17	24.2?	6.86 N	72.94 W	170 ?		0.5	10	NORTHERN COLOMBIA	
30	20	58	21.2*	23.486 S	179.968 W	620 ?	4.3	1.1	32	SOUTH OF FIJI ISLANDS	
30	21	30	11.7&	36.700 N	22.010 E	5			5	SOUTHERN GREECE. <ATH>. MD 3.0 (ATH).	
30	21	38	15.9&	45.962 N	4.083 W	3 G			14	BAY OF BISCAY. <LDG>. ML 2.6 (LDG).	
30	22	00	41.1*	42.809 N	140.676 E	10 G		0.9	12	HOKKAIDO, JAPAN REGION. Recorded (3 JMA) in the epicentral area.	
30	22	10	10.2*	0.175 S	123.107 E	170 *	4.5	0.9	16	MINAHASSA PENINSULA, SULAWESI	
30	22	31	50.0*	52.022 S	72.209 W	33 N	4.1	0.8	11	SOUTHERN CHILE	
30	22	41	58.8*	27.881 S	176.364 W	33 N	4.6	1.2	28	KERMADEC ISLANDS REGION	
30	23	21	16.8&	37.280 N	20.610 E	5			6	IONIAN SEA. <ATH>. MD 3.3 (ATH).	
31	00	05	37.6?	42.84 N	140.47 E	33 N	3.5	1.0	7	HOKKAIDO, JAPAN REGION	
31	00	21	49.3?	13.41 N	90.59 W	33 N	4.3	1.1	20	NEAR COAST OF GUATEMALA	
31	00	36	58.2&	44.408 N	7.367 E	12			7	NORTHERN ITALY. <GEN>. ML 1.9 (GEN).	
31	00	50	34.3	24.289 S	66.911 W	182 *	4.1	0.8	20	SALTA PROVINCE, ARGENTINA	
31	00	55	16.7&	37.335 N	8.510 W	9			12	PORTUGAL. <MDD>. mbLg 1.9 (MDD).	
31	01	36	22.4&	32.244 S	69.955 W	144			13	MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 3.2 (GUC).	
31	01	59	41.3?	15.59 N	97.48 W	10 G		1.1	10	NEAR COAST OF OAXACA, MEXICO. MD 4.1 (UNM).	
31	02	57	23.1&	36.540 N	25.550 E	5			10	DODECANESE ISLANDS, GREECE. <ATH>. MD 3.6 (ATH).	
31	03	35	49.2*	38.311 N	74.979 E	140 *	4.1	0.5	10	TAJIKISTAN-XINJIANG BORDER REG.	
31	05	01	25.1	9.786 S	119.655 E	33 N	3.6	1.3	11	SUMBA REGION, INDONESIA	

31	07	27	38.7	56.188 N	164.166 E	33 N	5.2	4.6	0.8	250	KOMANDORSKY ISLANDS REGION. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 07:27:41.8; Lat 56.47 N; Lon 164.03 E; Dep 33.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**16 Nm): (T) Val=9.03, Plg=5, Azm=65; (N) Val=-0.13, Plg=67, Azm=322; (P) Val=-8.90, Plg=22, Azm=157; Best double couple: Mo=9.0*10**16 Nm; NP1: Strike=199, Dip=71, Slip=-12; NP2: Strike=293, Dip=78, Slip=-160.
31	07	29	19.6	7.561 N	123.642 E	678	5.1		0.9	174	MINDANAO, PHILIPPINES
31	09	16	59.9	13.301 N	90.750 W	33 N	4.3		1.1	52	NEAR COAST OF GUATEMALA. MD 4.7 (UNM).
31	09	23	11.8*	51.678 N	175.535 W	33 N			0.9	10	ANDREANOF ISLANDS, ALEUTIAN IS.
31	09	36	44.7	8.902 S	118.779 E	33 N	3.7		1.3	11	SUMBAWA REGION, INDONESIA
31	10	42	17.6&	38.230 N	20.600 E	5				5	GREECE. <ATH>. MD 2.9 (ATH).
31	11	25	35.6	22.238 N	143.566 E	81 *	4.9		0.8	113	VOLCANO ISLANDS, JAPAN REGION
31	11	39	41.0&	38.280 N	22.710 E	38				7	GREECE. <ATH>. MD 3.0 (ATH).
31	12	58	48.9&	59.741 N	153.695 W	140				45	SOUTHERN ALASKA. <AEIC>.
31	13	04	34.3&	40.899 N	31.696 E	5				5	TURKEY. <ISK>. MD 3.7 (ISK).
31	13	17	01.0*	12.023 N	125.227 E	84 *	3.6		0.9	10	SAMAR, PHILIPPINES
31	13	21	36.8*	13.26 N	143.34 E	210 ?	3.0		0.9	6	SOUTH OF MARIANA ISLANDS
31	14	13	31.4	28.758 N	70.004 E	33 N	4.5	4.1	1.1	59	PAKISTAN
31	14	31	08.3	36.676 N	140.883 E	54 *	4.4		0.9	38	NEAR EAST COAST OF HONSHU, JAPAN. Recorded (2 JMA) in Ibaraki Prefecture.
31	14	40	43.4&	38.080 N	23.680 E	5				7	GREECE. <ATH>. MD 3.0 (ATH).
31	15	06	40.4	51.448 N	175.168 W	33 N	4.1		0.9	21	ANDREANOF ISLANDS, ALEUTIAN IS.
31	15	27	35.8?	14.59 S	167.34 E	164 ?			1.4	8	VANUATU ISLANDS
31	16	33	54.6&	37.010 S	177.600 E	203				18	OFF E. COAST OF N. ISLAND, N.Z. <WEL>.
31	16	40	43.0*	19.666 S	169.391 E	117 *	4.3		1.1	18	VANUATU ISLANDS
31	16	52	26.3	34.285 N	25.578 E	87 *	4.0		1.3	19	CRETE, GREECE. MD 4.0 (ATH).
31	17	00	10.7	57.850 S	25.319 W	33 N	4.5		0.8	22	SOUTH SANDWICH ISLANDS REGION
31	17	23	08.0	40.879 N	116.423 W	5 G			0.9	54	NEVADA. ML 3.9 (GS).
31	17	56	04.7&	41.210 S	174.210 E	51	4.4			42	COOK STRAIT, NEW ZEALAND. <WEL>. Felt in Wellington and Marlborough Provinces.
31	17	58	25.1	8.189 S	111.366 E	95 D	4.9		1.0	57	JAWA, INDONESIA
31	18	04	57.5&	41.220 S	174.260 E	41				12	COOK STRAIT, NEW ZEALAND. <WEL>.
31	18	12	03.4*	40.395 N	19.394 E	10 G			0.7	7	ALBANIA. MD 3.4 (ATH).
31	18	12	24.8	42.569 N	140.785 E	33 N	5.0	4.6	0.9	208	HOKKAIDO, JAPAN REGION. Recorded (4 JMA) in the epicentral area.
31	18	20	32.6*	22.603 S	174.958 W	107 ?	4.4	4.7	1.1	42	TONGA ISLANDS REGION
31	18	22	08.1?	22.07 N	143.87 E	100 G	4.2		1.4	8	VOLCANO ISLANDS, JAPAN REGION
31	19	21	23.6	36.556 N	71.510 E	135	4.1		0.9	30	AFGHANISTAN-TAJIKISTAN BORD REG.
31	19	56	49.8&	41.210 S	174.250 E	43				11	COOK STRAIT, NEW ZEALAND. <WEL>.
31	20	03	07.5&	42.263 N	1.703 E	2				4	PYRENEES. <LDG>. ML 2.0 (LDG).
31	20	30	32.1*	43.266 N	126.711 W	10 G	3.0		0.9	17	OFF COAST OF OREGON
31	20	41	02.2&	41.770 S	174.320 E	32				7	COOK STRAIT, NEW ZEALAND. <WEL>. ML 3.2 (WEL).
31	20	43	28.9	33.705 N	25.120 E	10 G	3.9		1.3	35	EASTERN MEDITERRANEAN SEA. MD 3.9 (ATH).
31	20	46	57.4	15.135 N	94.752 W	33 N	4.5	4.3	1.2	68	NEAR COAST OF OAXACA, MEXICO. MD 4.5 (UNM).
31	21	26	59.9&	39.426 N	0.268 W	11				13	SPAIN. <MDD>. mbLg 2.1 (MDD).
31	21	27	09.8&	41.210 S	174.260 E	41				8	COOK STRAIT, NEW ZEALAND. <WEL>.
31	21	33	20.4*	28.037 N	54.161 E	63 *	4.5	3.7	1.5	42	SOUTHERN IRAN
31	21	47	03.1&	43.050 N	0.300 W	2				27	PYRENEES. <STR>. MD 2.7 (LDG). ML 2.4 (STR).
31	21	55	41.4&	63.108 N	151.482 W	20				8	CENTRAL ALASKA. <AEIC>. ML 2.4 (AEIC), 2.7 (PMR).
31	22	04	34.7&	35.910 N	27.080 E	38				15	DODECANESE ISLANDS, GREECE. <ATH>. MD 3.9 (ATH).
31	22	27	34.7	36.623 N	141.171 E	33 N	4.4		1.1	39	NEAR EAST COAST OF HONSHU, JAPAN. Recorded (1 JMA) in eastern Fukushima, central Ibaraki and central Tochigi Prefectures.
31	22	43	43.9*	17.946 S	168.719 E	27 *	4.7		1.1	18	VANUATU ISLANDS
31	22	54	43.6&	15.086 N	91.967 W	171				15	MEXICO-GUATEMALA BORDER REGION. <UNM>. MD 4.2 (UNM).
31	23	10	13.2?	17.52 S	69.94 W	138 ?	3.5		0.9	5	PERU-BOLIVIA BORDER REGION
31	23	34	05.6?	12.06 S	166.07 E	113 ?	4.2		1.3	13	SANTA CRUZ ISLANDS

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Earthquake Focal Mechanisms for March 2000

Earthquake epicenters in Alaska and adjacent regions for March 2000

Earthquake epicenters in the conterminous United States and adjacent regions for March 2000

Earthquakes located worldwide in March 2000