U.S. DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY

PRELIMINARY DETERMINATION OF EPICENTERS MONTHLY LISTING

JANUARY-MARCH 1999

NATIONAL EARTHQUAKE INFORMATION CENTER

Open-File Report

99-600-A

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2000

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U.S. Department of the Interior
U.S. Geological Survey

Preliminary Determination of Epicenters

Monthly Listing

National Earthquake Information Center

JANUARY 1999

ORIGIN TIME UTC DAY	HR	MN	SEC	GEOGRAPHIC COORDINATES LAT	LONG	DEPTH	MAGNITUDE GS MB	Msz	SD	NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
01	01	02	39.8&	35.591 S	71.745 W	96				13	CENTRAL CHILE. <GUC>. MD 4.1 (GUC).
01	01	35	07.0*	21.681 N	143.124 E	310 D	4.3		1.0	25	MARIANA ISLANDS REGION
01	02	03	26.5*	23.440 S	179.986 E	550 G	4.3		0.8	21	SOUTH OF FIJI ISLANDS
01	02	09	07.3&	40.258 N	27.902 E	9				6	TURKEY. <ISK>. MD 2.8 (ISK).
01	03	02	30.5*	10.758 S	117.822 E	33 N	4.2		1.2	11	SOUTH OF SUMBAWA, INDONESIA
01	03	19	18.8	34.540 N	23.995 E	10 G	4.1		0.9	24	CRETE. MD 3.8 (ATH).
01	03	55	46.9*	52.488 N	34.484 W	10 G	4.6		0.7	12	NORTH ATLANTIC OCEAN
01	04	08	10.8*	15.098 S	173.809 W	33 N	4.5		0.9	20	TONGA ISLANDS
01	04	13	23.5*	16.263 N	105.030 W	33 N	4.5		1.0	33	OFF COAST OF MICHOACAN, MEXICO
01	04	14	31.0	56.123 N	157.998 W	74	4.7		0.9	105	ALASKA PENINSULA. Felt (IV) at Perryville.
01	04	37	54.2%	41.469 S	172.360 E	5 G			0.6	7	SOUTH ISLAND, NEW ZEALAND. ML 3.8 (WEL).
01	04	39	51.6*	13.677 N	120.292 E	100 G	4.2		0.7	11	MINDORO, PHILIPPINE ISLANDS
01	04	39	51.9&	37.270 N	20.580 E	5				4	IONIAN SEA. <ATH>. MD 3.1 (ATH).
01	05	12	32.5&	40.517 N	28.240 E	10 G				8	TURKEY. <ISK>. MD 3.3 (ISK).
01	05	20	56.9*	24.983 N	126.890 E	33 N	4.4		1.0	16	RYUKYU ISLANDS
01	05	39	36.8&	46.330 N	112.110 W	5				9	MONTANA. <BUT-P>. MD 2.7 (BUT). Felt at Jefferson City.
01	06	44	54.6?	27.58 N	101.17 E	33 N			0.9	5	SICHUAN, CHINA. ML 3.4 (BJI).
01	06	57	38.3?	14.15 N	147.11 E	33 N	4.0		1.1	7	MARIANA ISLANDS REGION
01	07	11	53.6?	43.02 S	82.45 W	10 G	4.7	4.5	1.2	22	WEST CHILE RISE
01	07	23	32.4&	37.420 N	8.450 W	1				37	PORTUGAL. <MDD>. mbLg 3.4 (MDD).
01	07	56	10.1%	39.152 S	175.018 E	10 G			0.7	9	NORTH ISLAND, NEW ZEALAND. ML 3.5 (WEL).
01	08	04	01.1	36.589 N	71.265 E	191 *	4.0		0.9	34	AFGHANISTAN-TAJIKISTAN BORD REG.
01	08	16	09.9&	44.364 N	7.165 E	9				10	NORTHERN ITALY. <GEN>. ML 2.1 (GEN).
01	08	36	41.7*	20.295 S	174.058 W	33 N	4.6		0.9	13	TONGA ISLANDS
01	09	05	46.2*	4.358 N	31.407 E	10 G			1.3	8	SUDAN
01	09	28	08.7	79.993 N	111.355 W	10 G	5.2	4.3	0.9	163	ARCTIC OCEAN. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 09:28:11.1; Lat 80.15 N; Lon 111.56 W; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.56, Plg=61, Azm=183; (N) Val=-2.02, Plg=24, Azm=325; (P) Val=-4.54, Plg=16, Azm=63; Best double couple: Mo=5.6*10**16 Nm; NP1: Strike=183, Dip=36, Slip=134; NP2: Strike=314, Dip=65, Slip=63.
01	10	25	54.8&	42.654 N	18.222 E	7				9	NORTHWESTERN BALKAN REGION. <PDG>. ML 2.2 (PDG).
01	10	29	00.6*	41.499 N	126.042 W	10 G	2.7		0.8	11	OFF COAST OF NORTHERN CALIFORNIA
01	11	00	37.3*	4.069 N	126.796 E	33 N	4.6		1.4	27	TALAUD ISLANDS, INDONESIA
01	11	01	03.9	48.701 N	128.624 W	10 G	3.6		1.1	26	VANCOUVER ISLAND REGION. ML 3.4 (PGC).
01	11	08	03.9&	34.574 N	119.155 W	6 G				28	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
01	11	28	36.2*	4.055 N	126.811 E	33 N	4.4		1.4	17	TALAUD ISLANDS, INDONESIA
01	11	32	59.6&	40.451 N	28.985 E	7				7	TURKEY. <ISK>. MD 2.6 (ISK).
01	11	36	09.1&	40.547 N	28.230 E	11				7	TURKEY. <ISK>. MD 2.6 (ISK).
01	11	45	48.5&	37.629 N	118.899 W	5				12	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.9 (GM).
01	11	47	50.3*	44.196 N	148.501 E	33 N	4.3		1.3	34	KURIL ISLANDS
01	11	50	29.8	45.919 N	15.473 E	10 G			0.4	8	NORTHWESTERN BALKAN REGION. ML 2.6 (VIE), 2.1 (LJU).
01	11	51	24.6?	45.90 N	15.44 E	10 G			0.2	4	NORTHWESTERN BALKAN REGION. ML 1.0 (LJU).
01	11	54	42.3?	33.14 N	131.26 E	150 G			1.4	5	KYUSHU, JAPAN
01	12	05	09.7?	18.98 S	65.92 E	10 G	4.2		1.3	9	MAURITIUS-REUNION REGION
01	12	17	41.5&	18.740 N	66.870 W	75				7	PUERTO RICO REGION. <MPR>. MD 2.8 (MPR).
01	12	21	58.4&	35.010 N	119.196 W	10				33	CENTRAL CALIFORNIA. <PAS-P>. ML 3.5 (PAS).
01	12	39	53.7&	33.641 S	72.009 W	15				12	OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
01	12	42	01.8&	33.618 S	71.991 W	20				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
01	12	51	28.8	0.026 N	127.576 E	166 *	4.5		0.9	32	HALMAHERA, INDONESIA
01	13	00	36.9&	60.265 N	148.506 W	16				38	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.5 (AEIC).
01	13	10	51.2&	44.934 N	9.358 E	0				35	NORTHERN ITALY. <GEN>. ML 3.2 (STR), 2.5 (GEN), 2.5 (LDG).
01	14	28	29.7	35.057 N	25.393 E	33 N	4.5		1.1	158	CRETE
01	14	30	07.5*	33.312 N	130.995 E	10 G	4.1		0.6	8	KYUSHU, JAPAN
01	14	36	01.5&	34.252 S	71.351 W	58				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
01	15	04	35.8&	40.707 N	29.955 E	14				8	TURKEY. <ISK>. MD 2.8 (ISK).
01	15	09	41.1&	40.633 N	122.412 W	23				6	NORTHERN CALIFORNIA. <GM-P>. MD 3.0 (GM).
01	15	16	08.8&	42.900 N	0.200 E	9				4	PYRENEES. <LDG>. ML 1.9 (LDG).
01	15	40	00.1&	60.418 N	152.072 W	87				75	SOUTHERN ALASKA. <AEIC>.

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01  15 46 03.4  36.174 N  141.659 E   33 N  4.5       1.1   36  NEAR EAST COAST OF HONSHU, JAPAN
01  16 03 13.2% 40.481 S  173.219 E  200 G            0.4   16  COOK STRAIT, NEW ZEALAND
01  16 07 14.5& 34.825 S   70.247 W   13                     11  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
01  16 08 16.1*  9.855 N   56.930 E   10 G  3.9       1.0   10  CARLSBERG RIDGE
01  16 20 30.9  36.139 N  141.636 E   33 N  5.1 4.8  0.8  106  NEAR EAST COAST OF HONSHU, JAPAN. Mw 5.3 (HRV). Felt (I JMA)
                                                               in eastern Fukushima and parts of Ibaraki, Miyagi and
                                                               Tochigi Prefectures.
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                               16:20:36.6; Lat 36.03 N; Lon 141.33 E; Dep 27.1; Half-
                                                               duration 1.1 sec; Principal axes (scale 10**17 Nm): (T)
                                                               Val=1.06, Plg=60, Azm=307; (N) Val=0.10, Plg=2, Azm=213;
                                                               (P) Val=-1.17, Plg=30, Azm=122; Best double couple:
                                                               Mo=1.1*10**17 Nm; NP1: Strike=204, Dip=15, Slip=81; NP2:
                                                               Strike=34, Dip=75, Slip=93.
01  16 21 33.2& 40.712 N   29.965 E   11                     17  TURKEY. <ISK>. MD 3.4 (ISK).
01  16 30 26.5& 40.671 N   29.778 E   10 G                   4  TURKEY. <ISK>. MD 2.7 (ISK).
01  16 43 01.1* 36.181 N  141.738 E   33 N  4.5       1.2   23  NEAR EAST COAST OF HONSHU, JAPAN
01  17 00 31.8  29.182 S   68.201 W  116 D  3.9       0.9   24  SAN JUAN PROVINCE, ARGENTINA
01  17 01 20.3  45.924 N   15.466 E   10 G            0.4    8  NORTHWESTERN BALKAN REGION. ML 2.3 (VIE), 2.0 (LJU).
01  17 13 54.4& 63.148 N  151.243 W    1                     36  CENTRAL ALASKA. <AEIC>. ML 2.7 (AEIC), 3.0 (PMR).
01  17 18 53.0& 40.718 N   29.976 E   10                     9  TURKEY. <ISK>. MD 2.8 (ISK).
01  17 27 02.0  45.944 N   15.012 E   10 G            0.7   10  NORTHWESTERN BALKAN REGION. ML 3.1 (VIE), 2.8 (LJU).
01  17 47 05.7& 34.739 S   70.176 W   13                     10  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
01  18 15 34.3& 18.810 N   65.130 W   33 N                   10  PUERTO RICO REGION. <MPR>. MD 3.5 (MPR).
01  18 30 30.2* 36.208 N  141.685 E   33 N  4.5       1.3   28  NEAR EAST COAST OF HONSHU, JAPAN
01  18 33 58.2& 39.251 N   27.223 E   10 G                   5  TURKEY. <ISK>. MD 2.8 (ISK).
01  19 12 03.7& 40.702 N   29.943 E   15                     8  TURKEY. <ISK>. MD 2.8 (ISK).
01  19 13 02.7& 45.312 N  112.832 W    7                    15  MONTANA. <BUT-P>. ML 3.0 (BUT).
01  19 31 29.5& 32.825 N  115.619 W   15                    20  CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.2 (PAS).
                                                               Felt in the El Centro area, California. Also felt at
                                                               Mexicali, Baja California.
01  19 36 07.3? 30.49  S  178.61  W   33 N  4.7       0.6    7  KERMADEC ISLANDS, NEW ZEALAND
01  19 51 24.7& 32.827 N  115.614 W   15                    24  CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.3 (PAS).
                                                               Felt in the El Centro area, California. Also felt at
                                                               Mexicali, Baja California.
01  20 06 32.6*  4.827 S  153.898 E  100 G  4.4       1.3   15  NEW IRELAND REGION, P.N.G.
01  21 40 54.7& 40.168 N   28.974 E   10 G                   5  TURKEY. <ISK>. MD 2.8 (ISK).
01  21 52 05.9& 11.249 N   61.700 W   22                     4  WINDWARD ISLANDS. <TRN>. MD 3.6 (TRN).
01  21 53 22.5* 20.955 N  122.420 E  100 G  3.6       0.5    6  PHILIPPINE ISLANDS REGION
01  22 08 41.7* 36.155 N  141.636 E   33 N  4.7       1.2   29  NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) in northern
                                                               Chiba and parts of Ibaraki and Tochigi Prefectures.
01  23 05 14.3?  3.76  S  138.99  E   33 N  3.8       1.5    6  IRIAN JAYA, INDONESIA
01  23 21 09.1* 21.681 N  143.229 E  350 G  3.6       0.3    9  MARIANA ISLANDS REGION
02  00 00 22.5* 36.384 N  141.708 E   33 N            1.4   10  NEAR EAST COAST OF HONSHU, JAPAN
02  00 24 17.6& 40.712 N   29.944 E   12                     5  TURKEY. <ISK>. MD 2.7 (ISK).
02  00 54 59.9& 47.000 N    5.900 E   10                     5  FRANCE. <LDG>. ML 1.6 (LDG).
02  01 06 51.6? 29.20  N  140.67  E   33 N  4.1       1.4    5  SOUTH OF HONSHU, JAPAN
02  02 57 18.7& 38.671 N   39.800 E   10 G                   8  TURKEY. <ISK>. MD 3.9 (ISK).
02  03 28 02.2  30.280 N   57.444 E   33 N  4.4       1.0   28  NORTHERN IRAN
02  04 01 19.9& 44.446 N    7.221 E    9                     6  NORTHERN ITALY. <GEN>. ML 1.9 (GEN).
02  04 27 20.8  10.166 S  124.158 E   45 *  5.1 4.3  1.4   32  TIMOR REGION, INDONESIA. Mw 5.1 (HRV). Felt (IV) at Kupang.
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                               04:27:20.5; Lat 10.52 S; Lon 123.76 E; Dep 45.4 Fix; Half-
                                                               duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                               Val=5.67, Plg=34, Azm=310; (N) Val=-1.54, Plg=53, Azm=156;
                                                               (P) Val=-4.13, Plg=13, Azm=49; Best double couple:
                                                               Mo=4.9*10**16 Nm; NP1: Strike=95, Dip=57, Slip=17; NP2:
                                                               Strike=355, Dip=76, Slip=146.
02  04 54 46.5& 44.851 N    6.567 E    8                    16  FRANCE. <GEN>. ML 2.1 (GEN), 1.9 (LDG).
02  05 28 29.2& 45.308 N  112.815 W    5                    14  MONTANA. <BUT-P>. ML 3.1 (BUT).
02  05 35 13.0& 34.444 S   70.121 W    4                    11  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.6 (GUC).
02  07 06 23.5* 36.075 N  141.799 E   33 N  4.1       1.0   17  NEAR EAST COAST OF HONSHU, JAPAN
02  07 19 48.7? 36.29  N  141.72  E   33 N  3.6       1.3    6  NEAR EAST COAST OF HONSHU, JAPAN
02  07 34 41.0& 35.777 S   71.297 W  130                    13  CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
02  07 39 23.4& 41.955 N   19.206 E   11                    9  ALBANIA. <PDG>. ML 2.2 (PDG).
02  09 27 23.1* 59.358 S   28.677 W  300 G  4.0       0.8   10  SOUTH SANDWICH ISLANDS REGION
02  10 18 36.8?  6.41  N   72.66  W  200 G  3.8       0.4   13  NORTHERN COLOMBIA
02  10 43 22.9& 46.400 N    2.000 E    4                    14  FRANCE. <LDG>. ML 2.4 (LDG).
02  12 48 17.7& 60.539 N  151.977 W   76                    80  KENAI PENINSULA, ALASKA. <AEIC>.
02  13 34 30.4& 40.867 N   30.795 E    5                    7  TURKEY. <ISK>. MD 3.1 (ISK).
02  14 21 37.4& 54.748 N  161.861 W    6                    14  ALASKA PENINSULA. <AEIC>. ML 2.8 (AEIC).
02  15 23 47.4% 58.533 N  164.098 E   33 N            0.3    6  KAMCHATKA
02  15 45 35.3* 35.909 N  141.767 E   33 N  4.3       1.2   18  NEAR EAST COAST OF HONSHU, JAPAN
02  17 19 49.1*  4.849 S  153.868 E   92 *  4.4       1.1   15  NEW IRELAND REGION, P.N.G.
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.
02  18 00 44.7* 21.059 S   68.005 W  172 ?  4.6       1.0   13  CHILE-BOLIVIA BORDER REGION
02  18 48 57.5& 38.910 N   21.060 E    5                    10  GREECE. <ATH>. MD 3.0 (ATH).
02  19 27 06.6  15.916 S  168.085 E  226 D  5.2       1.1  152  VANUATU ISLANDS. Mw 5.7 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                               19:27:12.5; Lat 15.92 S; Lon 168.12 E; Dep 230.7; Half-
                                                               duration 1.8 sec; Principal axes (scale 10**17 Nm): (T)
                                                               Val=4.96, Plg=55, Azm=107; (N) Val=-0.78, Plg=33, Azm=261;
                                                               (P) Val=-4.17, Plg=12, Azm=359; Best double couple:
                                                               Mo=4.6*10**17 Nm; NP1: Strike=124, Dip=43, Slip=142; NP2:
                                                               Strike=244, Dip=65, Slip=54.
02  19 38 32.3*  6.031 S  146.371 E  110 *            1.3    9  EASTERN NEW GUINEA REG., P.N.G.
02  20 28 08.2& 44.386 N    7.269 E   12                    7  NORTHERN ITALY. <GEN>. ML 1.7 (GEN).
02  21 01 54.3& 47.400 N    7.000 E    5                   46  SWITZERLAND. <LDG>. ML 2.9 (LDG), 2.5 (STR), 2.5 (FBB).
02  21 36 28.7% 45.267 N   26.160 E  150 G            0.6    8  ROMANIA
02  21 54 36.9* 62.475 N   25.935 W   10 G            0.8    7  ICELAND REGION
02  22 44 08.0& 44.378 N    7.219 E    3                    5  NORTHERN ITALY. <GEN>. ML 1.4 (GEN).
02  23 03 08.2*  3.084 S  141.655 E   33 N  3.9       1.4    7  NEW GUINEA, PAPUA NEW GUINEA
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02  23 10 16.3& 42.290 N    9.110 W   11                    10  SPAIN. <MDD>. mbLg 2.8 (MDD). Felt (II) at Cangas and Poyo.
02  23 42 16.2& 37.061 N   28.991 E   10 G                   4  TURKEY. <ISK>. MD 3.0 (ISK).
03  00 19 01.1& 17.990 N   65.450 W    2                     4  PUERTO RICO REGION. <MPR>. MD 2.9 (MPR).
03  00 56 35.1& 46.400 N    2.000 E    3                    12  FRANCE. <LDG>. ML 2.1 (STR), 1.7 (LDG).
03  01 49 17.6* 40.535 S  174.417 E  100 G          1.2    12  COOK STRAIT, NEW ZEALAND
03  02 00 53.5& 32.994 S   70.145 W    5                    13  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.9 (GUC).
03  03 17 55.5& 32.393 S   71.354 W   48                    14  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.3 (GUC).
03  04 17 47.1& 40.532 N   28.221 E    9                     7  TURKEY. <ISK>. MD 2.6 (ISK).
03  04 56 19.0& 11.538 N   60.133 W   60                     8  WINDWARD ISLANDS. <TRN>. MD 3.7 (TRN).
03  05 22 15.3& 44.594 N    6.781 E    0                    13  FRANCE. <GEN>. ML 1.8 (GEN), 1.3 (LDG).
03  05 37 42.6& 36.067 N  117.837 W    3                    28  CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.1 (PAS).
03  05 45 26.3* 29.982 N  131.093 E   33 N  4.3      1.0    12  SOUTHEAST OF RYUKYU ISLANDS
03  06 44 06.2& 40.524 N   28.079 E   10 G                   4  TURKEY. <ISK>. MD 2.6 (ISK).
03  07 00 19.7  41.042 S  174.408 E   62    5.3      1.0    67  COOK STRAIT, NEW ZEALAND. Mw 5.2 (HRV). Felt at Wellington
                                                                 on the North Island.
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  07:00:25.9; Lat 41.28 S; Lon 173.40 E; Dep 59.6; Half-
                                                                  duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                  Val=6.89, Plg=35, Azm=295; (N) Val=1.32, Plg=7, Azm=30; (P)
                                                                  Val=-8.21, Plg=55, Azm=129; Best double couple:
                                                                  Mo=7.6*10**16 Nm; NP1: Strike=357, Dip=12, Slip=-123; NP2:
                                                                  Strike=211, Dip=80, Slip=-83.
03  07 33 32.5  41.925 N   22.234 E   10 G          1.5    29  NORTHWESTERN BALKAN REGION. MD 3.6 (ATH). ML 3.2 (PDG).
03  07 38 38.9& 32.036 S   71.601 W   44                    11  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
03  07 38 49.5& 45.000 N    6.900 E    2                     4  FRANCE. <LDG>.
03  07 50 53.8  11.824 S  166.824 E  204 D  4.7      1.0    53  SANTA CRUZ ISLANDS
03  10 21 25.7   8.730 S  123.295 E  130 *  4.8      1.3    37  FLORES REGION, INDONESIA
03  10 50 30.2& 32.425 S   70.150 W  124                    13  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.8 (GUC).
03  10 53 52.4& 54.652 N  161.182 W   18                    14  ALASKA PENINSULA. <AEIC>. ML 2.9 (AEIC).
03  11 15 47.6& 38.930 N    0.080 W    2                    40  SPAIN. <MDD>. ML 3.5 (LDG). mbLg 3.3 (MDD). Felt (III) at
                                                                 Gandia and Oliva.
03  11 43 05.6* 39.511 S  175.551 E   33 N          1.0    12  NORTH ISLAND, NEW ZEALAND. ML 3.8 (WEL).
03  12 29 38.4& 44.999 N    6.744 E    4                    29  FRANCE. <GEN>. ML 2.5 (STR), 2.4 (GEN), 2.3 (LDG).
03  13 13 27.2& 63.992 N  148.900 W  124                    54  CENTRAL ALASKA. <AEIC>.
03  13 15 58.2& 31.620 S   71.634 W   15                    13  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.6 (GUC).
03  14 40 37.0  20.949 S  178.433 W  600 G  4.2      1.0    42  FIJI ISLANDS REGION
03  15 12 37.0* 19.461 S  169.439 E  264 *  4.3      1.2    36  VANUATU ISLANDS
03  15 30 22.7& 37.527 N  118.820 W    6                    11  CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.2 (GM). ML 3.4
                                                                 (BRK).
03  16 54 14.3& 63.151 N  151.281 W   10                    60  CENTRAL ALASKA. <AEIC>. ML 3.3 (AEIC), 3.5 (PMR).
03  17 02 11.0& 44.129 N    7.147 E   11                     9  NORTHERN ITALY. <GEN>. ML 1.7 (GEN).
03  17 23 42.1*  7.131 S  133.309 E   33 N  3.9      1.3     9  ARU ISLANDS REGION, INDONESIA
03  17 28 30.2*  6.099 S  147.236 E  122 *          1.1    11  EASTERN NEW GUINEA REG., P.N.G.
03  17 51 57.0& 44.750 N  116.160 W    5                     4  WESTERN IDAHO. <BSE-P>. ML 2.9 (BSE).
03  18 19 12.4* 41.150 S  174.467 E   73 *          0.3     8  COOK STRAIT, NEW ZEALAND
03  18 19 52.2& 33.729 S   70.393 W  103                    11  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.0 (GUC).
03  18 24 05.2& 36.102 N  118.399 W   13                     6  CENTRAL CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
03  18 25 11.4*  0.298 N  124.209 E  240 ?  4.4      1.3    28  MINAHASSA PENINSULA, SULAWESI
03  20 14 15.2* 18.088 S  177.981 W  500 G  4.5      1.0    12  FIJI ISLANDS REGION
03  21 01 17.5& 42.330 N   19.490 E   14                     7  NORTHWESTERN BALKAN REGION. <PDG>. ML 1.5 (PDG).
03  21 21 11.8* 32.609 N  100.957 E   33 N  3.6      1.2     7  SICHUAN, CHINA. ML 4.0 (BJI).
03  22 11 15.4?  4.84  S  153.99  E   90 ?  4.0      0.9     7  NEW IRELAND REGION, P.N.G.
03  23 15 04.3& 19.380 N   65.300 W   10                     4  PUERTO RICO REGION. <MPR>. MD 3.5 (MPR).
03  23 25 02.6? 51.79  N  179.08  E   33 N  3.6      0.4     5  RAT ISLANDS, ALEUTIAN ISLANDS
03  23 33 22.9% 33.091 N   46.598 E   33 N          0.9     8  IRAN-IRAQ BORDER REGION
04  00 30 35.5* 48.147 N   23.010 E   33 N  4.1      1.4    15  UKRAINE-MOLDOVA-SW RUSSIA REGION
04  00 54 12.4& 37.170 N    3.760 W    0 G                    5  SPAIN. <MDD>. mbLg 1.6 (MDD).
04  01 19 24.2  14.221 N   91.836 W   91    4.8      1.0    98  GUATEMALA
04  01 39 22.6& 31.748 S   72.217 W   12                    10  OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.1 (GUC).
04  01 45 41.8& 31.699 S   72.216 W   19                    11  OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.5 (GUC).
04  01 48 16.7* 45.472 N   14.460 E   10 G          1.1     8  NORTHWESTERN BALKAN REGION. ML 2.6 (VIE), 1.8 (LJU).
04  04 50 30.8  32.241 N  140.941 E   59 *  4.8      1.1    61  SOUTH OF HONSHU, JAPAN
04  05 26 36.6& 40.744 N   29.847 E    5                     7  TURKEY. <ISK>. MD 2.8 (ISK).
04  05 43 57.2*  3.154 S  135.810 E   33 N  4.3      1.3    10  IRIAN JAYA REGION, INDONESIA
04  06 18 35.8& 11.023 N   61.872 W   36                     5  WINDWARD ISLANDS. <TRN>. MD 3.6 (TRN).
04  07 39 02.1& 63.262 N  149.656 W   95                    52  CENTRAL ALASKA. <AEIC>.
04  07 58 22.5  41.345 N  142.371 E   82 ?  3.9      0.9    26  HOKKAIDO, JAPAN  REGION
04  08 09 58.8* 19.738 S  177.740 W  400 G  4.4      0.9    18  FIJI ISLANDS REGION
04  08 43 44.3   7.326 N   78.073 W   33 N  5.1 4.9  1.0   153  PANAMA. Mw 5.5 (HRV).
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  08:43:46.7; Lat 7.37 N; Lon 78.00 W; Dep 17.2; Half-
                                                                  duration 1.2 sec; Principal axes (scale 10**17 Nm): (T)
                                                                  Val=1.67, Plg=8, Azm=47; (N) Val=0.13, Plg=78, Azm=176; (P)
                                                                  Val=-1.80, Plg=9, Azm=315; Best double couple:
                                                                  Mo=1.7*10**17 Nm; NP1: Strike=91, Dip=78, Slip=-179; NP2:
                                                                  Strike=1, Dip=89, Slip=-12.
04  09 15 48.4* 36.472 N   71.446 E  121 ?  4.0      1.3    13  AFGHANISTAN-TAJIKISTAN BORD REG.
04  09 34 44.3& 31.558 S   70.464 W  128                    11  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.7 (GUC).
04  09 38 26.0* 25.555 N   99.396 E   33 N          1.1     9  YUNNAN, CHINA. ML 4.2 (BJI).
04  09 50 07.9   2.782 S   68.096 E   10 G  4.7      0.8    15  CARLSBERG RIDGE
04  10 35 57.1& 18.340 N   67.140 W    7                     4  MONA PASSAGE. <MPR>. MD 2.7 (MPR).
04  11 09 56.9* 57.394 N  123.666 E   10 G  4.3      1.3    10  SOUTHEASTERN SIBERIA, RUSSIA
04  11 13 31.4   0.669 S  135.519 E   33 N  5.0      1.3    49  IRIAN JAYA REGION, INDONESIA. Mw 5.3 (HRV).
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  11:13:30.3; Lat 1.39 S; Lon 135.54 E; Dep 33.0 Fix; Half-
                                                                  duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                  Val=7.64, Plg=37, Azm=255; (N) Val=2.09, Plg=21, Azm=148;
                                                                  (P) Val=-9.74, Plg=46, Azm=35; Best double couple:
                                                                  Mo=8.7*10**16 Nm; NP1: Strike=44, Dip=21, Slip=-13; NP2:
                                                                  Strike=146, Dip=85, Slip=-111.
04  12 16 38.4   2.754 S   68.058 E   10 G  5.2 4.8  1.0    52  CARLSBERG RIDGE. Mw 5.4 (HRV).
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  12:16:41.9; Lat 3.31 S; Lon 68.35 E; Dep 15.0 Fix; Half-
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duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.26, Plg=23, Azm=32; (N) Val=-0.11, Plg=0, Azm=122; (P) Val=-1.15, Plg=67, Azm=213; Best double couple: Mo=1.2*10**17 Nm; NP1: Strike=121, Dip=22, Slip=-91; NP2: Strike=303, Dip=68, Slip=-89.

04	12	19	29.5*	17.708	N	121.031	E	33	N	4.3		1.3	16	LUZON, PHILIPPINE ISLANDS
04	13	06	05.4*	43.244	N	146.897	E	33	N	4.4		0.8	14	KURIL ISLANDS
04	13	33	37.3*	5.455	N	126.827	E	33	N	4.8		1.1	31	MINDANAO, PHILIPPINE ISLANDS
04	15	10	37.4&	47.205	N	122.282	W	20					11	WASHINGTON. <SEA-P>. MD 3.2 (SEA). ML 3.0 (PGC). Felt at Olympia.
04	15	11	35.6?	9.12	S	79.18	W	78	?	4.3		1.5	10	OFF COAST OF NORTHERN PERU
04	15	17	40.5&	36.610	N	22.460	E	5					6	SOUTHERN GREECE. <ATH>. ML 3.2 (ATH).
04	15	43	48.4*	38.777	S	176.166	E	150	G			0.7	13	NORTH ISLAND, NEW ZEALAND
04	17	20	10.6&	45.900	N	7.000	E	2					5	NORTHERN ITALY. <LDG>. ML 2.0 (LDG).
04	17	49	53.1&	37.030	N	3.920	W	5					17	SPAIN. <MDD>. mbLg 2.6 (MDD).
04	17	58	18.8*	5.907	S	146.653	E	33	N	3.8		1.1	12	EASTERN NEW GUINEA REG., P.N.G.
04	18	02	00.6&	44.113	N	7.126	E	3					6	NORTHERN ITALY. <GEN>. ML 1.8 (GEN).
04	18	10	11.4?	15.22	N	87.98	W	33	N	4.3		0.7	11	HONDURAS
04	18	16	42.9&	62.914	N	151.013	W	110					68	CENTRAL ALASKA. <AEIC>.
04	18	21	44.1&	38.220	N	20.560	E	2					4	GREECE. <ATH>. MD 3.1 (ATH).
04	19	22	04.4*	12.753	S	169.645	E	650	G	4.4		1.0	53	SANTA CRUZ ISLANDS REGION
04	19	26	29.3?	12.61	S	169.56	E	650	G	4.3		0.3	12	SANTA CRUZ ISLANDS REGION
04	22	08	58.0&	35.000	N	24.220	E	30					5	CRETE. <ATH>. MD 3.6 (ATH).
04	22	18	26.3?	53.23	N	170.89	E	33	N	3.4		1.0	9	NEAR ISLANDS, ALEUTIAN ISLANDS
04	22	41	17.9&	59.085	N	136.503	W	10	G				69	SOUTHEASTERN ALASKA. <PGC-P>. ML 4.2 (PGC), 4.2 (PMR), 4.1 (AEIC). Felt at Haines, Klukwan, Skagway, U.S. Customs and Mile 26 on the Haines Highway. Felt (III) at Juneau. Also felt at Pleasant Camp, British Columbia, Canada.
04	23	15	43.0%	37.365	N	70.191	E	33	N	3.6		1.0	8	AFGHANISTAN-TAJIKISTAN BORD REG.
04	23	47	03.0&	33.478	S	70.797	W	83					12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.8 (GUC).
05	00	04	23.2&	34.167	S	70.414	W	113					10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.3 (GUC).
05	00	39	28.8*	6.604	S	153.164	E	33	N	4.4		0.8	16	NEW BRITAIN REGION, P.N.G.
05	02	26	44.2*	13.586	N	146.387	E	33	N	3.9		1.1	18	SOUTH OF MARIANA ISLANDS
05	02	56	16.6&	34.278	S	70.099	W	7					12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
05	03	22	15.0	45.669	N	10.745	E	10	G			1.1	73	NORTHERN ITALY. ML 3.6 (GRF), 3.4 (VIE), 3.3 (STR), 3.1 (FUR), 3.0 (LDG), 2.9 (FBB).
05	03	45	20.4?	31.03	S	68.94	W	100	G			1.0	13	SAN JUAN PROVINCE, ARGENTINA. MD 3.7 (GUC).
05	03	52	17.0&	49.160	N	6.910	E	1	G				16	GERMANY. <FBB>. ML 2.4 (FBB), 2.2 (UCC). Mining induced event in the Lorraine region, France.
05	04	00	18.1	51.555	N	16.028	E	5	G			1.2	55	POLAND. ML 4.0 (FUR), 3.9 (CLL), 3.9 (VIE).
05	04	05	35.7	46.071	N	14.779	E	10	G			0.6	10	NORTHWESTERN BALKAN REGION. ML 2.2 (VIE), 1.8 (LJU).
05	04	05	41.5&	63.091	N	149.835	W	87					37	CENTRAL ALASKA. <AEIC>.
05	05	21	30.7&	33.398	S	70.799	W	82					13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.1 (GUC).
05	06	36	31.7&	53.995	N	163.782	W	2					17	UNIMAK ISLAND REGION. <AEIC>. ML 2.9 (AEIC).
05	06	40	14.5&	45.900	N	6.100	E	2					11	FRANCE. <LDG>. ML 2.3 (LDG).
05	06	44	23.9&	18.020	N	68.140	W	87					8	MONA PASSAGE. <MPR>. MD 3.4 (MPR).
05	06	49	30.7*	44.298	N	20.123	E	10	G			0.7	10	NORTHWESTERN BALKAN REGION. ML 2.8 (PDG).
05	06	58	05.9&	60.169	N	150.526	W	30					42	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.8 (AEIC).
05	07	17	34.1?	43.65	N	147.09	E	142	?	3.6		1.1	12	KURIL ISLANDS
05	08	02	54.5	46.083	N	14.776	E	10	G			0.4	6	NORTHWESTERN BALKAN REGION. ML 2.0 (VIE), 1.2 (LJU).
05	08	02	59.6&	41.852	N	20.229	E	12					11	ALBANIA. <PDG>. ML 2.2 (PDG).
05	08	07	15.3&	33.964	S	70.650	W	97					13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).
05	08	32	46.8	18.502	S	174.067	W	33	N	5.3	5.5	1.0	143	TONGA ISLANDS. Mw 6.0 (HRV), 5.8 (GS). Moment Tensor (GS): Dep 34; Principal axes (scale 10**17 Nm): (T) Val=7.49, Plg=41, Azm=35; (N) Val=-1.74, Plg=27, Azm=278; (P) Val=-5.75, Plg=36, Azm=165; Best double couple: Mo=6.6*10**17 Nm; NP1: Strike=194, Dip=28, Slip=6; NP2: Strike=99, Dip=87, Slip=117. Centroid, Moment Tensor (HRV): Centroid origin time 08:32:54.1; Lat 18.54 S; Lon 173.65 W; Dep 39.0 Bdy; Half-duration 2.3 sec; Principal axes (scale 10**18 Nm): (T) Val=0.96, Plg=39, Azm=33; (N) Val=0.09, Plg=28, Azm=277; (P) Val=-1.05, Plg=38, Azm=162; Best double couple: Mo=1.0*10**18 Nm; NP1: Strike=188, Dip=28, Slip=1; NP2: Strike=97, Dip=90, Slip=118.
05	09	30	43.3&	47.700	N	1.200	W	5					7	FRANCE. <LDG>. ML 2.2 (LDG).
05	09	42	24.3&	40.851	N	27.886	E	7					7	TURKEY. <ISK>. MD 2.9 (ISK).
05	10	12	01.4	51.477	N	176.918	E	33	N	5.0	4.9	0.9	168	RAT ISLANDS, ALEUTIAN ISLANDS. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 10:12:04.2; Lat 51.72 N; Lon 177.07 E; Dep 43.5; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=1.69, Plg=58, Azm=311; (N) Val=0.13, Plg=16, Azm=68; (P) Val=-1.82, Plg=27, Azm=167; Best double couple: Mo=1.8*10**17 Nm; NP1: Strike=291, Dip=23, Slip=136; NP2: Strike=63, Dip=74, Slip=73.
05	10	57	28.0&	36.840	N	116.010	W	0					13	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.2 (REN). ML 3.5 (GS).
05	11	27	39.1&	64.847	N	147.531	W	15					31	CENTRAL ALASKA. <AEIC>. ML 3.0 (AEIC), 3.4 (PMR). Felt in the Fairbanks-North Pole area.
05	11	31	29.3&	43.800	N	2.500	E	4					7	FRANCE. <LDG>. ML 2.1 (LDG).
05	11	43	26.0&	38.680	N	119.820	W	6					5	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.9 (REN).
05	11	48	03.3*	1.132	S	99.868	E	33	N	4.8		0.9	24	SOUTHERN SUMATERA, INDONESIA
05	11	55	33.0&	39.760	N	120.660	W	11					7	NORTHERN CALIFORNIA. <REN-P>. MD 3.4 (REN). ML 3.5 (BRK), 3.6 (GS). Felt at Clio and Portola.
05	12	04	14.3&	37.302	N	27.894	E	10	G				6	TURKEY. <ISK>. MD 3.6 (ATH), 3.2 (ISK).
05	12	10	02.9?	19.81	S	166.81	E	33	N	4.2		0.9	7	VANUATU ISLANDS REGION
05	13	46	36.0&	44.780	N	110.820	W	6					14	YELLOWSTONE REGION, WYOMING. <SLC-P>. ML 3.1 (BUT).
05	13	49	35.7?	14.60	N	91.14	W	200	G	4.6		1.1	13	GUATEMALA
05	14	07	19.2*	42.966	N	144.295	E	99	?	4.4		0.7	13	HOKKAIDO, JAPAN REGION. Felt (I JMA) in eastern Hokkaido.
05	15	10	34.9&	60.860	N	152.006	W	90		3.2			75	SOUTHERN ALASKA. <AEIC>.
05	15	50	44.2	20.806	N	74.774	W	10	G	4.9	4.4	1.1	112	CUBA REGION
05	15	55	36.0&	61.807	N	151.980	W	122					60	SOUTHERN ALASKA. <AEIC>.
05	15	56	32.4	30.521	N	130.680	E	66	D	4.6		1.2	36	KYUSHU, JAPAN. Felt (I JMA) in parts of Kagoshima Prefecture.

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05  16 22 38.2& 40.655 N   27.306 E   10 G                    6  TURKEY. <ISK>. MD 2.8 (ISK).
05  17 40 28.2& 41.561 N   20.157 E    8                     13  ALBANIA. <PDG>. MD 2.8 (PDG).
05  18 10 23.8  59.617 S   26.018 W   33 N  4.9 4.6  0.8   51  SOUTH SANDWICH ISLANDS REGION. Mw 5.3 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                18:10:30.2; Lat 60.22 S; Lon 25.66 W; Dep 19.4; Half-
                                                                duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                Val=8.99, Plg=61, Azm=232; (N) Val=-0.66, Plg=20, Azm=3;
                                                                (P) Val=-8.34, Plg=20, Azm=101; Best double couple:
                                                                Mo=8.7*10**16 Nm; NP1: Strike=221, Dip=31, Slip=132; NP2:
                                                                Strike=355, Dip=68, Slip=68.
05  18 10 59.8?  5.92  N   37.22  E   10 G          1.4    7  ETHIOPIA
05  18 24 32.2& 32.639 S   70.064 W  115                    11  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.7 (GUC).
05  18 27 40.4*  6.018 N   37.513 E   10 G  4.7 4.1  1.0   27  ETHIOPIA
05  18 39 56.0? 59.68  S   26.15  W   33 N  4.2      0.7   12  SOUTH SANDWICH ISLANDS REGION
05  19 09 02.1* 33.310 N   92.350 E   33 N  3.8      1.3   15  QINGHAI, CHINA
05  19 20 40.6& 36.680 N    1.690 W    9                    28  WESTERN MEDITERRANEAN SEA. <MDD>. mbLg 3.1 (MDD).
05  19 37 47.2& 32.585 S   68.777 W   10                    10  MENDOZA PROVINCE, ARGENTINA. <GUC>.
05  19 59 39.0& 36.770 N    1.760 W   15                     9  WESTERN MEDITERRANEAN SEA. <MDD>. mbLg 2.4 (MDD).
05  20 19 41.0  41.963 N   45.961 E   33 N  4.1      1.2   22  EASTERN CAUCASUS
05  21 09 55.4& 44.900 N    6.600 E    2                    12  FRANCE. <LDG>. ML 2.3 (STR), 1.8 (LDG).
05  21 17 37.0* 22.633 N   94.686 E  156 ?  4.1      1.3   17  MYANMAR
05  21 26 56.4  20.814 N   74.797 W   10 G  4.7 4.3  0.8   65  CUBA REGION
05  21 32 44.3& 35.570 N   26.120 E   37                    12  CRETE. <ATH>. MD 3.9 (ATH).
05  22 49 39.4?  9.17  N  126.61  E   33 N  4.7      1.3   13  MINDANAO, PHILIPPINE ISLANDS
05  23 53 06.2? 15.20  S  172.18  W   33 N  4.9      1.0    8  SAMOA ISLANDS REGION
06  00 02 41.8& 63.270 N  144.081 W    0                    36  CENTRAL ALASKA. <AEIC>. ML 2.9 (AEIC), 2.9 (PGC).
06  01 10 20.1* 51.467 N   16.242 E    5 G          0.9   11  POLAND. ML 3.5 (GRF), 3.1 (VIE).
06  01 17 30.7& 36.870 N    1.720 W    0                     4  WESTERN MEDITERRANEAN SEA. <MDD>. mbLg 2.1 (MDD).
06  01 46 51.1& 42.438 N   19.277 E   20                     9  NORTHWESTERN BALKAN REGION. <PDG>. ML 2.0 (PDG).
06  01 54 48.1& 32.019 S   70.695 W   98                    12  CHILE-ARGENTINA BORDER REGION. <GUC>.
06  02 01 18.3& 44.372 N    7.334 E   10                     4  NORTHERN ITALY. <GEN>. ML 1.7 (GEN).
06  02 35 54.9& 44.786 N    6.636 E    9                    15  FRANCE. <GEN>. ML 2.1 (GEN), 1.8 (LDG).
06  07 00 44.6& 32.869 S   71.679 W   14                     7  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
06  07 38 55.2*  4.759 S  153.915 E  100 G  4.5      1.2   17  NEW IRELAND REGION, P.N.G.
06  07 43 50.7*  5.317 S  102.370 E   46 D  4.6      1.4   24  SOUTHERN SUMATERA, INDONESIA. Felt (III) at Bengkulu.
06  09 03 04.4& 41.037 N   19.649 E    7                    11  ALBANIA. <PDG>. ML 2.5 (PDG).
06  10 17 51.9& 63.441 N  150.310 W    6                    43  CENTRAL ALASKA. <AEIC>. ML 2.7 (AEIC), 3.0 (PMR).
06  10 33 20.6& 43.997 N   20.259 E   14                     9  NORTHWESTERN BALKAN REGION. <PDG>. ML 2.5 (PDG).
06  11 28 30.7* 30.762 S  117.133 E   10 G          0.5    5  WESTERN AUSTRALIA
06  11 57 51.0   5.277 S  146.204 E  149    4.6      1.0   21  EASTERN NEW GUINEA REG., P.N.G.
06  12 01 59.0& 61.780 N  148.569 W   32                    53  SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC), 2.9 (PMR).
06  13 09 09.2  49.719 N  155.869 E   52 D  4.7      0.8   79  KURIL ISLANDS. Felt (III) at Severo-Kurilsk.
06  13 55 25.3% 41.592 S  174.259 E   10 G          0.9   12  COOK STRAIT, NEW ZEALAND. ML 4.2 (WEL).
06  14 18 14.9? 35.87  N  137.15  E  250 G          0.5    7  EASTERN HONSHU, JAPAN
06  14 52 35.0*  5.380 N  125.980 E  300 G  4.2      1.1   13  MINDANAO, PHILIPPINE ISLANDS
06  15 01 22.4? 45.31  N   28.27  W   10 G  4.1      1.5    5  NORTHERN MID-ATLANTIC RIDGE
06  16 16 53.4& 31.752 S   72.237 W   21                    11  OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.1 (GUC).
06  17 09 52.8& 33.279 S   68.903 W    8                    11  MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 3.2 (GUC).
06  17 10 27.6   5.621 N  125.852 E  100 G  5.4      0.9   84  MINDANAO, PHILIPPINE ISLANDS. Mw 5.4 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                17:10:34.4; Lat 5.73 N; Lon 126.34 E; Dep 121.5; Half-
                                                                duration 1.2 sec; Principal axes (scale 10**17 Nm): (T)
                                                                Val=1.46, Plg=61, Azm=237; (N) Val=-0.19, Plg=11, Azm=347;
                                                                (P) Val=-1.27, Plg=27, Azm=83; Best double couple:
                                                                Mo=1.4*10**17 Nm; NP1: Strike=198, Dip=20, Slip=122; NP2:
                                                                Strike=344, Dip=73, Slip=79.
06  19 43 57.3& 33.936 S   71.122 W   68                     7  NEAR COAST OF CENTRAL CHILE. <GUC>.
06  20 43 37.9& 33.133 S   70.287 W    4                     9  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.1 (GUC).
06  21 23 40.3& 31.712 S   69.765 W  137                     8  SAN JUAN PROVINCE, ARGENTINA. <GUC>.
06  21 28 55.1* 45.406 N   26.264 E  121 ?          0.9    8  ROMANIA
06  22 04 08.0* 53.710 N  159.683 E  100 G  4.2      1.2   15  NEAR EAST COAST OF KAMCHATKA
06  22 29 30.1& 33.313 S   70.961 W   64                     8  CHILE-ARGENTINA BORDER REGION. <GUC>.
06  22 41 04.0& 39.068 N   27.798 E   10 G                   15  TURKEY. <ISK>. MD 3.7 (ATH), 3.5 (ISK).
06  23 30 43.8* 13.466 N  146.351 E   33 N          1.0    8  SOUTH OF MARIANA ISLANDS
06  23 44 55.3* 42.293 N  135.485 E  400 G  4.0      1.1   15  SEA OF JAPAN
07  00 03 30.9& 39.102 N   27.670 E    9                     5  TURKEY. <ISK>. MD 2.9 (ISK).
07  00 04 41.1* 14.531 N  147.004 E   33 N  3.7      0.5   11  MARIANA ISLANDS REGION
07  01 02 24.1& 36.690 N    1.740 W    6                    21  WESTERN MEDITERRANEAN SEA. <MDD>. mbLg 2.4 (MDD).
07  01 04 59.7& 39.780 N   23.450 E   10                     6  AEGEAN SEA. <ATH>. MD 3.4 (ATH).
07  01 32 31.5*  1.420 N  125.065 E   33 N  4.4      1.1   15  NORTHERN MOLUCCA SEA. Felt (III) at Bitung and Tondano,
                                                                Indonesia.
07  02 14 56.7& 40.520 N   28.216 E    5                     6  TURKEY. <ISK>. MD 2.7 (ISK).
07  03 06 02.1? 44.64  N    8.40  E   10 G          0.3    6  NORTHERN ITALY. ML 2.1 (LDG).
07  03 42 50.1& 33.053 S   70.968 W   68                    10  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).
07  03 44 46.4? 17.71  S  178.91  W  603 ?  5.0      0.9   25  FIJI ISLANDS REGION
07  03 57 55.4  62.406 N   25.712 W   10 G  4.4      1.0   53  ICELAND REGION
07  04 19 02.8& 33.129 S   72.050 W   16                    10  OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
07  05 12 38.3  62.374 N   25.638 W   10 G  4.5      1.3   30  ICELAND REGION
07  05 16 26.9  38.674 N   99.378 W    5 G          1.2    9  KANSAS. mbLg 3.0 (GS). Felt at Antonino and Schoenchen.
07  05 16 51.4   5.171 S  141.655 E   33 N  5.1 4.2  1.0   70  NEW GUINEA, PAPUA NEW GUINEA. Mw 5.1 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                05:16:58.4; Lat 5.13 S; Lon 141.92 E; Dep 33.0 Fix; Half-
                                                                duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                Val=6.26, Plg=56, Azm=164; (N) Val=-2.34, Plg=3, Azm=258;
                                                                (P) Val=-3.92, Plg=34, Azm=350; Best double couple:
                                                                Mo=5.1*10**16 Nm; NP1: Strike=94, Dip=11, Slip=106; NP2:
                                                                Strike=258, Dip=79, Slip=87.
07  06 33 42.7* 38.963 N  135.705 E  363 *  3.8      0.9   14  SEA OF JAPAN
07  07 05 52.0& 49.150 N    6.950 E    1 G                    8  GERMANY. <FBB>. ML 2.3 (FBB), 2.2 (UCC). Mining induced
                                                                event in the Lorraine region, France.
07  07 58 15.2& 61.945 N  150.426 W   10    2.7             69  SOUTHERN ALASKA. <AEIC>. ML 3.3 (AEIC), 3.4 (PMR).
07  08 29 01.7  51.705 N  159.661 E   33 N  4.6      1.1   45  OFF EAST COAST OF KAMCHATKA
07  08 34 51.7* 51.751 N  159.616 E   33 N  4.5      1.3   27  OFF EAST COAST OF KAMCHATKA
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07	08	41	27.1&	53.736	N	163.998	W	25		3.1			17	UNIMAK ISLAND REGION. <AEIC>. ML 3.7 (AEIC).
07	08	51	42.7&	39.259	N	27.654	E	12					5	TURKEY. <ISK>. MD 2.8 (ISK).
07	08	58	17.8*	43.545	N	146.684	E	33	N	4.5		1.1	19	KURIL ISLANDS
07	09	20	23.5&	37.060	N	3.640	W	8					9	SPAIN. <MDD>. mbLg 2.2 (MDD).
07	10	15	11.5*	23.732	N	94.905	E	145	?	4.3		0.9	18	MYANMAR-INDIA BORDER REGION
07	10	54	56.4*	43.750	N	140.790	E	206	*	3.6		0.7	19	HOKKAIDO, JAPAN REGION
07	11	04	15.0&	62.019	N	149.828	W	46					70	CENTRAL ALASKA. <AEIC>. ML 3.3 (AEIC), 3.5 (PMR).
07	11	06	25.3&	39.599	N	29.278	E	11					5	TURKEY. <ISK>. MD 2.7 (ISK).
07	11	25	04.4&	33.415	S	70.120	W	10					12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
07	11	33	03.0&	33.470	S	70.787	W	76					13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.2 (GUC).
07	11	33	30.3*	4.429	S	138.026	E	33	N	4.0		1.1	8	IRIAN JAYA, INDONESIA
07	11	38	07.9	43.827	N	148.233	E	56	D	5.0		0.8	129	EAST OF KURIL ISLANDS
07	11	41	51.1	37.270	N	70.129	E	33	N	4.5		1.0	18	AFGHANISTAN-TAJIKISTAN BORD REG.
07	11	47	30.8&	36.720	N	1.770	W	16					14	WESTERN MEDITERRANEAN SEA. <MDD>. mbLg 2.8 (MDD).
07	11	57	42.5&	39.654	N	29.832	E	10	G				4	TURKEY. <ISK>. MD 2.6 (ISK).
07	12	23	50.1?	52.84	N	159.44	E	33	N			0.6	6	OFF EAST COAST OF KAMCHATKA
07	12	25	18.6&	48.081	N	119.478	W	0					26	WASHINGTON. <SEA-P>. MD 2.7 (SEA). ML 2.4 (PGC).
07	12	26	56.6&	48.090	N	119.480	W	3					19	WASHINGTON. <SEA-P>. MD 2.8 (SEA). ML 2.5 (PGC).
07	12	28	53.5?	50.01	S	114.78	E	10	G			0.8	5	SOUTH OF AUSTRALIA
07	12	44	54.8?	49.73	S	114.75	E	10	G			1.2	11	SOUTH OF AUSTRALIA
07	13	14	31.1*	50.003	S	115.077	E	10	G	4.7		1.3	23	SOUTH OF AUSTRALIA
07	13	37	46.6&	39.131	N	27.596	E	10	G				4	TURKEY. <ISK>. MD 2.7 (ISK).
07	14	14	10.4?	49.84	S	114.94	E	10	G			0.9	6	SOUTH OF AUSTRALIA
07	14	48	50.3&	32.954	S	70.201	W	0					12	CHILE-ARGENTINA BORDER REGION. <GUC>.
07	14	48	51.0&	39.590	N	20.470	E	5					8	GREECE-ALBANIA BORDER REGION. <ATH>. MD 2.9 (ATH).
07	15	18	56.4*	26.948	S	26.680	E	5	G	4.3		0.2	5	REPUBLIC OF SOUTH AFRICA
07	15	21	36.1&	18.790	N	67.250	W	8					6	MONA PASSAGE. <MPR>. MD 3.0 (MPR).
07	16	24	06.6&	63.277	N	151.895	W	13					64	CENTRAL ALASKA. <AEIC>. ML 3.9 (AEIC), 4.1 (PMR).
07	16	43	06.6*	13.377	N	123.969	E	33	N	4.1		0.5	6	LUZON, PHILIPPINE ISLANDS
07	16	45	49.2&	44.437	N	7.277	E	10					5	NORTHERN ITALY. <GEN>. ML 2.0 (GEN).
07	17	06	28.9*	23.295	N	123.104	E	33	N	3.7		1.2	8	SOUTHWESTERN RYUKYU ISLANDS
07	17	58	35.0&	38.780	N	21.560	E	5					50	GREECE. <ATH>. ML 3.6 (ATH).
07	18	00	41.2&	38.620	N	21.960	E	6					4	GREECE. <ATH>. MD 2.9 (ATH).
07	18	07	05.4&	62.997	N	150.815	W	103					40	CENTRAL ALASKA. <AEIC>.
07	18	13	41.4	67.768	N	141.306	E	33	N	5.4	4.8	0.8	323	EASTERN SIBERIA, RUSSIA. Mw 5.3 (GS), 5.2 (HRV). Moment Tensor (GS): Dep 13; Principal axes (scale 10**16 Nm): (T) Val=9.15, Plg=53, Azm=3; (N) Val=-0.02, Plg=4, Azm=99; (P) Val=-9.13, Plg=36, Azm=192; Best double couple: Mo=9.1*10**16 Nm; NP1: Strike=304, Dip=10, Slip=116; NP2: Strike=98, Dip=81, Slip=86. Centroid, Moment Tensor (HRV): Centroid origin time 18:13:43.4; Lat 67.65 N; Lon 140.93 E; Dep 33.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=0.60, Plg=6, Azm=309; (N) Val=0.42, Plg=74, Azm=59; (P) Val=-1.01, Plg=15, Azm=218; Best double couple: Mo=8.0*10**16 Nm; NP1: Strike=354, Dip=75, Slip=-173; NP2: Strike=263, Dip=83, Slip=-15.
07	18	45	51.1?	29.60	S	179.22	W	300	G	3.6		1.0	11	KERMADEC ISLANDS REGION
07	19	03	22.3&	42.660	N	1.600	W	1	G				15	PYRENEES. <STR>. ML 3.1 (STR), 2.5 (LDG). mbLg 2.3 (MDD).
07	19	24	43.6&	36.150	S	71.499	W	157					12	CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
07	20	07	26.1	45.473	N	14.641	E	10	G			0.8	12	NORTHWESTERN BALKAN REGION. ML 2.9 (VIE), 2.4 (LJU).
07	20	30	47.0*	67.658	N	141.289	E	33	N	3.5		0.9	13	EASTERN SIBERIA, RUSSIA
07	21	53	44.3	2.941	S	127.938	E	33	N	4.6		1.2	14	CERAM SEA
07	22	16	07.5	20.480	S	173.988	W	33	N	4.9	4.7	1.2	55	TONGA ISLANDS
07	22	45	05.2*	40.209	N	76.925	E	33	N	3.4		0.7	5	KYRGYZSTAN-XINJIANG BORDER REG.
07	22	55	10.5&	55.976	N	156.553	W	33		3.0			19	SOUTH OF ALASKA. <AEIC>. ML 3.5 (AEIC).
07	23	10	20.7*	51.307	N	16.067	E	5	G			1.0	5	POLAND. ML 3.1 (VIE).
07	23	24	36.9*	26.157	N	126.627	E	90	D	4.5		1.1	15	RYUKYU ISLANDS. Felt (II JMA) on Kume-shima.
07	23	45	20.9&	34.013	S	70.433	W	106					10	CHILE-ARGENTINA BORDER REGION. <GUC>.
08	00	31	12.9*	16.204	N	98.551	W	33	N	4.1		1.1	19	NEAR COAST OF GUERRERO, MEXICO
08	00	40	29.2&	39.050	N	26.490	E	5					4	TURKEY. <ATH>. MD 3.4 (ATH).
08	00	56	09.3*	42.667	N	85.833	E	33	N	4.6		1.0	16	NORTHERN XINJIANG, CHINA
08	01	17	12.6*	19.085	S	177.673	W	550	G	3.5		0.5	10	FIJI ISLANDS REGION
08	02	21	03.9*	25.138	N	129.088	E	33	N	4.6		1.2	30	SOUTHEAST OF RYUKYU ISLANDS
08	03	01	40.6&	40.252	N	29.042	E	5					8	TURKEY. <ISK>. MD 2.9 (ISK).
08	03	14	04.6?	30.62	S	70.60	W	96	?			0.6	16	CHILE-ARGENTINA BORDER REGION. MD 4.5 (GUC).
08	03	15	34.3	51.570	N	16.085	E	5	G			0.8	16	POLAND. ML 3.6 (GRF), 3.4 (VIE).
08	03	24	47.1?	11.38	N	125.49	E	48	D	4.2		1.0	13	SAMAR, PHILIPPINE ISLANDS
08	03	58	22.5&	59.953	N	151.077	W	42					35	KENAI PENINSULA, ALASKA. <AEIC>. ML 3.4 (AEIC), 3.6 (PMR).
08	04	16	55.0&	59.610	N	152.504	W	75					21	SOUTHERN ALASKA. <AEIC>.
08	05	28	12.1&	32.400	S	71.404	W	44					10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
08	07	36	22.5?	44.68	N	149.71	E	33	N	4.3		1.2	13	KURIL ISLANDS
08	08	10	12.7&	38.730	N	23.380	E	5					8	GREECE. <ATH>. ML 3.5 (ATH).
08	09	02	31.1*	6.341	S	104.669	E	103	?	4.3		1.2	26	SUNDA STRAIT
08	09	21	15.8*	9.259	N	126.058	E	33	N	4.3		1.2	16	MINDANAO, PHILIPPINE ISLANDS
08	10	10	44.5&	46.900	N	1.800	E	3					20	FRANCE. <LDG>. ML 2.7 (LDG).
08	10	15	06.4&	38.980	N	27.686	E	10	G				4	TURKEY. <ISK>. MD 2.7 (ISK).
08	10	47	15.2&	39.186	N	27.653	E	10	G				5	TURKEY. <ISK>. MD 2.7 (ISK).
08	10	49	36.0&	39.142	N	27.493	E	15					4	TURKEY. <ISK>. MD 2.6 (ISK).
08	11	17	35.5*	29.429	S	72.254	W	33	N			0.4	15	OFF COAST OF CENTRAL CHILE
08	11	42	16.4&	62.838	N	149.682	W	68					21	CENTRAL ALASKA. <AEIC>. ML 2.7 (AEIC), 2.8 (PMR).
08	12	08	13.2&	38.350	N	0.810	W	9					7	SPAIN. <MDD>. mbLg 2.1 (MDD).
08	12	26	56.5	46.220	N	15.990	E	10	G			0.6	7	NORTHWESTERN BALKAN REGION. ML 1.5 (LJU).
08	13	09	52.6&	36.970	N	5.510	W	0					13	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.5 (MDD).
08	13	13	29.2?	56.05	S	125.29	W	10	G	4.7		1.5	7	SOUTHERN EAST PACIFIC RISE
08	14	07	17.2*	20.345	S	174.040	W	33	N	4.7	4.6	1.1	44	TONGA ISLANDS
08	14	45	00.9&	39.593	N	29.521	E	10	G				5	TURKEY. <ISK>. MD 2.7 (ISK).
08	15	24	15.2&	38.762	N	111.554	W	1		3.5			39	UTAH. <SLC-P>. ML 3.8 (SLC), 3.8 (GS).
08	15	55	29.9%	40.802	S	173.336	E	150	G			0.5	9	COOK STRAIT, NEW ZEALAND
08	16	36	05.9*	47.505	N	155.552	E	51	D	4.4		1.0	14	EAST OF KURIL ISLANDS
08	17	12	50.3?	48.71	S	121.90	E	10	G			1.0	6	SOUTH OF AUSTRALIA
08	17	12	53.6&	34.810	S	71.105	W	125					8	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.9 (GUC).
08	17	48	43.1	46.063	N	14.774	E	10	G			0.5	10	NORTHWESTERN BALKAN REGION. ML 2.3 (VIE), 1.8 (LJU).

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08  18 39 30.8*  0.462 N  125.441 E   33 N  4.1        0.9   12  NORTHERN MOLUCCA SEA
08  18 44 27.7*  3.258 S  134.471 E   33 N  4.1        0.9   10  IRIAN JAYA REGION, INDONESIA
08  20 02 56.2& 38.800 N   23.470 E    5                      6  GREECE. <ATH>. ML 3.2 (ATH).
08  20 48 12.0& 49.170 N    6.860 E    1 G                   12  GERMANY. <FBB>. ML 2.2 (FBB), 2.0 (UCC). Mining induced
                                                                   event in the Lorraine region, France.
08  20 49 18.0  37.781 N   27.455 E   10 G            0.9   20  TURKEY. ML 4.0 (ATH). MD 3.6 (ISK).
08  21 02 02.9   1.880 S  124.626 E   33 N  4.6       1.0   22  SOUTHERN MOLUCCA SEA
08  21 20 43.2  49.786 S  114.777 E   10 G  5.2 5.0   1.0  113  SOUTH OF AUSTRALIA. Mw 5.2 (HRV).
                                                                   Centroid, Moment Tensor (HRV): Centroid origin time
                                                                    21:20:48.4; Lat 49.93 S; Lon 115.01 E; Dep 15.0 Bdy; Half-
                                                                    duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                    Val=8.02, Plg=77, Azm=147; (N) Val=0.16, Plg=10, Azm=285;
                                                                    (P) Val=-8.18, Plg=8, Azm=17; Best double couple:
                                                                    Mo=8.1*10**16 Nm; NP1: Strike=118, Dip=38, Slip=106; NP2:
                                                                    Strike=278, Dip=54, Slip=78.
08  21 26 57.3& 38.460 N   21.810 E    5                      12  GREECE. <ATH>. ML 3.3 (ATH).
08  21 41 25.3& 62.078 N  151.214 W   69                      18  CENTRAL ALASKA. <AEIC>. ML 2.5 (AEIC).
08  21 45 12.7? 31.18  S   68.84  W  100 G            1.1   10  SAN JUAN PROVINCE, ARGENTINA. MD 3.8 (GUC).
08  22 16 53.9& 44.049 N    7.134 E    3                      12  NORTHERN ITALY. <GEN>. ML 2.1 (LDG), 2.0 (GEN).
08  22 33 07.7?  3.60  S  148.65  E   33 N  4.2        1.4    6  BISMARCK SEA
08  22 39 52.7& 34.089 S   70.017 W    6                       6  CHILE-ARGENTINA BORDER REGION. <GUC>.
08  23 39 14.7& 36.892 N  121.629 W    7                      16  CENTRAL CALIFORNIA. <GM-P>. MD 3.4 (GM). ML 3.4 (BRK).
09  00 04 00.6? 45.42  N   26.37  E  150 G            0.7    7  ROMANIA
09  00 07 33.5* 14.826 N   54.956 E   10 G  4.6        0.9   16  ARABIAN SEA
09  00 20 58.5& 35.810 N   23.730 E    6                       7  CRETE. <ATH>. ML 3.6 (ATH).
09  00 21 08.5& 38.057 N   28.923 E   10 G                    6  TURKEY. <ISK>. MD 3.0 (ISK).
09  00 34 37.7? 14.88  N   54.96  E   10 G            0.5    5  ARABIAN SEA
09  00 57 16.8& 32.846 S   71.701 W   17                       8  NEAR COAST OF CENTRAL CHILE. <GUC>.
09  01 08 51.1? 14.88  N   54.95  E   10 G            1.3    5  ARABIAN SEA
09  02 30 22.4& 18.710 N   67.320 W   29                       4  MONA PASSAGE. <MPR>. MD 2.8 (MPR).
09  02 48 34.0& 38.480 N  118.400 W   10                      26  CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.1 (REN). ML
                                                                    3.5 (GS).
09  02 54 22.4  46.205 N   13.783 E   10 G            0.9   13  AUSTRIA. ML 2.8 (VIE), 2.4 (LJU).
09  03 05 37.5  44.390 N  147.313 E  119 D  5.8        0.8  417  KURIL ISLANDS. Mw 5.6 (GS), 5.6 (HRV). Felt (III) at Yuzhno-
                                                                    Kurilsk, Kunashir and at Kurilsk, Iturup. Also felt at
                                                                    Misawa, Honshu.
                                                                   Moment Tensor (GS): Dep 109; Principal axes (scale 10**17
                                                                    Nm): (T) Val=2.70, Plg=44, Azm=12; (N) Val=0.41, Plg=26,
                                                                    Azm=255; (P) Val=-3.11, Plg=36, Azm=145; Best double
                                                                    couple: Mo=2.9*10**17 Nm; NP1: Strike=176, Dip=26, Slip=10;
                                                                    NP2: Strike=77, Dip=86, Slip=116.
                                                                   Centroid, Moment Tensor (HRV): Centroid origin time
                                                                    03:05:40.0; Lat 44.33 N; Lon 147.21 E; Dep 124.7; Half-
                                                                    duration 1.5 sec; Principal axes (scale 10**17 Nm): (T)
                                                                    Val=2.76, Plg=41, Azm=1; (N) Val=-0.04, Plg=20, Azm=253;
                                                                    (P) Val=-2.72, Plg=43, Azm=144; Best double couple:
                                                                    Mo=2.7*10**17 Nm; NP1: Strike=160, Dip=20, Slip=-3; NP2:
                                                                    Strike=253, Dip=89, Slip=-110.
09  04 14 48.2& 37.206 N  119.792 W   21                       9  CENTRAL CALIFORNIA. <GM-P>. MD 2.9 (GM). Felt at Coarsegold.
09  04 25 49.2& 34.566 S   70.859 W   86                       6  CHILE-ARGENTINA BORDER REGION. <GUC>.
09  04 32 44.5* 51.889 N  158.919 E   33 N  4.6        1.2   19  NEAR EAST COAST OF KAMCHATKA
09  04 52 07.4& 17.970 N   68.260 W  118                       7  MONA PASSAGE. <MPR>. MD 3.3 (MPR).
09  04 56 09.4& 44.306 N    7.219 E    1                      14  NORTHERN ITALY. <GEN>. ML 2.1 (GEN), 1.9 (LDG).
09  05 03 50.8? 49.76  S  114.68  E   10 G  5.0        1.5    6  SOUTH OF AUSTRALIA
09  05 12 51.5& 32.004 S   70.222 W  118                      10  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).
09  06 46 51.5* 21.484 S   68.321 W  107 *  4.5        1.0   20  CHILE-BOLIVIA BORDER REGION
09  06 55 47.8& 33.545 S   70.777 W   80                       8  CHILE-ARGENTINA BORDER REGION. <GUC>.
09  07 22 37.3& 40.629 N  122.413 W   26                      12  NORTHERN CALIFORNIA. <GM-P>. MD 3.3 (GM). ML 3.3 (BRK). Felt
                                                                    at Whitmore.
09  08 11 59.5* 20.393 S   68.577 W  106 D  4.4        0.9   24  CHILE-BOLIVIA BORDER REGION
09  08 43 10.8& 39.613 N   29.392 E   10 G                    4  TURKEY. <ISK>. MD 2.6 (ISK).
09  09 04 29.3& 34.092 S   70.055 W    4                       9  CHILE-ARGENTINA BORDER REGION. <GUC>.
09  09 47 54.0& 43.309 N   19.167 E    4                       8  NORTHWESTERN BALKAN REGION. <PDG>. ML 2.0 (PDG).
09  10 00 23.9* 51.491 N   16.054 E    5 G            0.8    8  POLAND. ML 3.1 (VIE).
09  10 15 46.9* 37.605 N  141.838 E   96 D  3.8        1.0   11  NEAR EAST COAST OF HONSHU, JAPAN
09  10 23 24.9? 16.67  S  173.24  W   33 N  4.4        1.1   16  TONGA ISLANDS
09  11 33 33.8*  5.487 S  126.408 E  495 ?  4.3        0.9   11  BANDA SEA
09  12 07 33.5   7.438 S  128.725 E  140    4.8        1.1   49  BANDA SEA
09  12 12 18.8& 43.100 N    0.500 W    2                      10  PYRENEES. <LDG>. ML 2.9 (LDG).
09  12 42 39.7*  3.026 S  128.425 E   33 N  4.3        0.9   11  SERAM, INDONESIA
09  13 18 46.8% 43.419 S  174.061 E   33 N                    0.6   18  OFF E. COAST OF S. ISLAND, N.Z. ML 4.9 (WEL).
09  13 51 55.5* 16.871 N   85.284 W   33 N  4.1        1.0   21  CARIBBEAN SEA
09  13 52 21.6& 39.955 N   16.041 E   10 G                   36  SOUTHERN ITALY. <ROM>. MD 3.4 (ROM). ML 3.3 (PDG).
09  14 22 23.6? 33.53  N  132.41  E   69 ?            0.4    5  SHIKOKU, JAPAN. Felt (I JMA) in western Ehime Prefecture.
                                                                    Also felt (I JMA) in eastern Yamaguchi Prefecture, Honshu.
09  14 56 06.6& 19.260 N   64.580 W   79                       4  VIRGIN ISLANDS. <MPR>. MD 3.8 (MPR).
09  15 13 52.0& 36.060 N    3.910 W   16                      12  STRAIT OF GIBRALTAR. <MDD>. mbLg 2.5 (MDD).
09  16 18 28.2  44.599 N  148.170 E   33 N  4.5        1.0   35  KURIL ISLANDS
09  16 55 56.8% 42.253 S  173.074 E  100 G                    0.6   12  SOUTH ISLAND, NEW ZEALAND
09  17 40 40.4& 42.363 N   19.909 E   23                       8  NORTHWESTERN BALKAN REGION. <PDG>. ML 1.9 (PDG).
09  17 54 24.2* 16.867 S   70.465 W   98 *  4.0        0.8   25  SOUTHERN PERU
09  18 15 27.3* 32.323 N  136.730 E   33 N  4.0        0.7    8  SOUTHEAST OF SHIKOKU, JAPAN
09  19 03 45.6& 15.475 N   60.692 W   30                       8  LEEWARD ISLANDS. <FDF>. MG 2.7 (FDF).
09  19 04 19.9& 32.040 S   70.125 W  123                       8  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).
09  19 05 23.6& 44.454 N    6.921 E    6                       4  FRANCE. <GEN>. ML 1.9 (GEN).
09  19 08 32.6? 18.99  S  169.41  E  258 *            1.1    7  VANUATU ISLANDS
09  19 14 23.2% 45.082 N   26.891 E   10 G            0.8    5  ROMANIA
09  19 33 51.7& 44.457 N    6.880 E    3                      22  FRANCE. <GEN>. ML 2.4 (GEN), 1.9 (LDG).
09  19 58 53.0& 44.800 N    6.600 E    2                       5  FRANCE. <LDG>. ML 1.2 (LDG).
09  20 07 16.8& 59.651 N  152.887 W   89                      80  SOUTHERN ALASKA. <AEIC>.
09  20 14 24.2? 31.57  S   69.26  W  150 G            0.4   10  SAN JUAN PROVINCE, ARGENTINA. MD 3.3 (GUC).
09  20 31 04.1  51.635 N   16.231 E    5 G            1.0   15  POLAND. ML 3.4 (GRF), 3.3 (VIE).
09  20 32 27.1  51.676 N   16.236 E    5 G            1.1    9  POLAND. MG 3.1 (WAR).
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09	20	32	36.3	34.042	N	25.667	E	33	N	4.0		1.0	32	CRETE. ML 4.2 (ATH).
09	21	08	21.9?	45.71	N	26.79	E	150	G			0.5	6	ROMANIA
09	21	27	10.6&	43.700	N	6.300	E	2					4	NEAR SOUTH COAST OF FRANCE. <LDG>. ML 1.9 (LDG).
09	22	34	52.0&	35.858	S	71.447	W	132					8	CENTRAL CHILE. <GUC>. MD 2.5 (GUC).
09	22	35	36.7*	24.722	N	123.198	E	121	?	4.0		1.2	11	SOUTHWESTERN RYUKYU ISLANDS
09	23	03	17.1*	11.173	N	87.618	W	47	*	4.4		1.2	35	NEAR COAST OF NICARAGUA. MD 4.6 (SJR).
09	23	24	25.0*	5.645	N	94.215	E	55	D	4.4		1.3	25	NORTHERN SUMATERA, INDONESIA
09	23	32	50.7&	33.271	S	70.714	W	77					10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.3 (GUC).
10	00	03	57.8&	33.518	S	71.140	W	62					9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.5 (GUC).
10	00	17	25.7&	40.650	N	23.870	E	5					11	GREECE. <ATH>. ML 3.7 (ATH).
10	00	28	31.7*	53.303	N	34.904	W	10	G	4.2		1.2	12	NORTH ATLANTIC OCEAN
10	00	34	29.5	4.428	S	153.428	E	120		4.6		0.8	33	NEW IRELAND REGION, P.N.G.
10	00	41	01.8	1.689	N	127.874	E	33	N	4.9	4.3	1.1	31	HALMAHERA, INDONESIA
10	02	04	28.4	45.311	N	141.141	E	279	*	4.1		0.9	49	HOKKAIDO, JAPAN REGION
10	02	39	28.6	55.148	N	158.408	W	33	N	4.5		1.0	38	ALASKA PENINSULA. ML 4.5 (AEIC), 4.5 (PMR). Felt at Perryville.
10	03	02	05.5&	32.706	S	70.204	W	110					8	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.2 (GUC).
10	03	11	33.3&	38.653	N	27.999	E	5					5	TURKEY. <ISK>. MD 2.9 (ISK).
10	03	21	08.6	51.641	N	16.209	E	5	G			0.6	23	POLAND. ML 3.8 (GRF), 3.5 (FUR), 3.4 (VIE).
10	04	01	22.5*	0.249	N	125.333	E	33	N	4.5		1.5	10	NORTHERN MOLUCCA SEA
10	04	05	11.5?	6.80	N	72.98	W	200	G	3.9		1.0	11	NORTHERN COLOMBIA
10	05	04	08.1	43.233	N	4.083	W	5	G			1.0	14	SPAIN. ML 2.7 (LDG). mbLg 2.4 (MDD).
10	08	05	29.2&	32.689	S	71.760	W	12					9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
10	08	11	53.2&	38.820	N	26.880	E	5					17	AEGEAN SEA. <ATH>. ML 3.8 (ATH). MD 3.4 (ISK).
10	08	34	30.2	38.651	N	26.397	E	33	N	4.1		1.3	37	AEGEAN SEA. ML 3.9 (ATH). MD 3.8 (ISK).
10	09	06	48.5&	44.478	N	7.378	E	14					7	NORTHERN ITALY. <GEN>. ML 2.0 (GEN).
10	09	09	36.8	21.010	N	61.832	E	10	G	4.7	4.3	1.1	54	ARABIAN SEA
10	09	35	44.0&	61.701	N	149.757	W	38					18	SOUTHERN ALASKA. <AEIC>. ML 2.8 (AEIC).
10	09	41	33.6&	32.292	S	71.807	W	11					8	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
10	10	20	00.4&	32.291	S	71.867	W	15					9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
10	10	52	16.1&	42.840	N	70.980	W	2					10	SOUTHERN NEW ENGLAND. <WES-P>. mbLg 3.0 (WES), 3.1 (OTT). Felt at Amesbury, Merrimac, Newburyport and Salisbury, Massachusetts. Also felt in parts of Rockingham County, New Hampshire including Hampton Falls, Newton and Seabrook.
10	10	53	29.4	38.700	N	26.418	E	5	G			1.3	12	AEGEAN SEA. ML 3.6 (ATH). MD 3.3 (ISK).
10	12	08	18.0&	31.912	S	71.514	W	42					10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
10	12	31	44.6&	38.650	N	21.760	E	5					6	GREECE. <ATH>. MD 3.0 (ATH).
10	12	47	27.1*	30.895	S	117.956	E	10	G			0.5	5	WESTERN AUSTRALIA
10	13	19	21.5&	45.900	N	6.900	E	2					13	FRANCE. <LDG>. ML 2.5 (LDG).
10	13	43	40.0&	35.455	S	71.317	W	121					9	CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
10	13	45	35.3	38.740	N	26.362	E	33	N			0.8	7	AEGEAN SEA. MD 3.4 (ATH).
10	14	07	14.7&	43.062	N	18.962	E	4					8	NORTHWESTERN BALKAN REGION. <PDG>. ML 1.8 (PDG).
10	14	17	17.6	38.837	N	26.270	E	5	G			1.4	9	AEGEAN SEA. ML 3.7 (ATH). MD 3.5 (ISK).
10	14	31	53.8?	52.52	N	171.59	W	33	N	3.3		0.8	7	FOX ISLANDS, ALEUTIAN ISLANDS
10	15	20	18.0&	34.938	N	119.224	W	3					11	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
10	15	20	44.3&	42.840	N	70.995	W	2					8	SOUTHERN NEW ENGLAND. <WES-P>. mbLg 2.9 (WES), 3.0 (OTT). Felt at Amesbury, Merrimac, Newburyport and Salisbury, Massachusetts. Also felt in parts of Rockingham County, New Hampshire including Hampton Falls, Newton and Seabrook.
10	15	27	43.2*	49.458	N	150.462	E	400	G			0.9	8	NORTHWEST OF KURIL ISLANDS
10	15	34	44.0*	3.434	S	148.970	E	33	N	4.6	4.7	1.2	16	BISMARCK SEA. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 15:34:46.1; Lat 3.35 S; Lon 149.09 E; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.09, Plg=16, Azm=150; (N) Val=-0.07, Plg=72, Azm=358; (P) Val=-1.02, Plg=8, Azm=242; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=287, Dip=73, Slip=6; NP2: Strike=195, Dip=85, Slip=163.
10	16	11	16.4&	33.034	S	71.138	W	63					10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.8 (GUC).
10	16	21	15.1&	32.609	S	70.983	W	63					9	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.3 (GUC).
10	19	16	13.3&	33.959	S	71.388	W	46					7	NEAR COAST OF CENTRAL CHILE. <GUC>.
10	19	29	54.1&	37.150	N	20.990	E	5					10	IONIAN SEA. <ATH>. ML 3.5 (ATH).
10	20	36	06.5	22.939	N	108.020	W	33	N	4.2	4.7	1.3	62	OFF COAST OF CENTRAL MEXICO. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 20:36:10.7; Lat 22.84 N; Lon 108.09 W; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=7.34, Plg=5, Azm=261; (N) Val=0.07, Plg=71, Azm=155; (P) Val=-7.40, Plg=18, Azm=353; Best double couple: Mo=7.4*10**16 Nm; NP1: Strike=35, Dip=73, Slip=-9; NP2: Strike=128, Dip=81, Slip=-163.
10	20	50	43.8&	61.891	N	149.171	W	46					47	SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC).
10	22	04	16.0&	44.387	N	7.242	E	4					4	NORTHERN ITALY. <GEN>. ML 1.7 (GEN).
10	22	18	09.1*	9.719	S	161.000	E	33	N	4.2		1.2	9	SOLOMON ISLANDS
10	23	05	09.1?	51.98	N	179.83	E	88	?	3.6		0.9	9	RAT ISLANDS, ALEUTIAN ISLANDS
10	23	19	47.9&	63.481	N	151.329	W	10					35	CENTRAL ALASKA. <AEIC>. ML 2.7 (AEIC), 3.0 (PMR).
10	23	25	41.9&	47.500	N	5.300	E	14					10	FRANCE. <LDG>. ML 2.3 (LDG).
10	23	40	26.3&	33.609	S	71.925	W	27					10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.3 (GUC).
10	23	56	14.4&	62.781	N	148.917	W	68					27	CENTRAL ALASKA. <AEIC>. ML 3.2 (AEIC).
11	00	10	42.2	35.932	N	136.708	E	33	N	4.5		1.0	34	WESTERN HONSHU, JAPAN
11	00	31	33.8&	38.200	N	20.550	E	5					10	GREECE. <ATH>. ML 3.6 (ATH).
11	00	46	03.9&	37.190	N	26.610	E	5					5	DODECANESE ISLANDS. <ATH>. MD 3.5 (ATH).
11	01	25	51.4*	43.957	N	129.232	W	10	G	3.3		0.6	16	OFF COAST OF OREGON
11	02	52	04.8&	42.500	N	1.700	E	2					10	PYRENEES. <LDG>. ML 2.7 (LDG).
11	02	58	43.3&	33.820	S	70.582	W	95					10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.2 (GUC).
11	03	21	19.5	14.287	N	56.611	E	33	N	4.8		0.9	47	ARABIAN SEA
11	03	36	35.7	45.076	N	5.612	E	10	G			1.3	114	FRANCE. ML 4.2 (LDG). mbLg 4.1 (MDD).
11	03	38	40.9	1.999	S	125.402	E	33	N	4.8		1.3	27	SOUTHERN MOLUCCA SEA. Felt (IV) on Mangole, Indonesia.
11	04	26	03.1&	44.100	N	7.000	E	2					5	NORTHERN ITALY. <LDG>. ML 2.1 (LDG).
11	04	43	31.2&	15.752	N	60.486	W	28					8	LEEWARD ISLANDS. <FDF>. MG 3.0 (FDF).
11	05	10	29.9&	33.561	S	71.728	W	35					10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
11	05	41	04.6*	4.885	S	154.324	E	33	N	4.1		1.4	10	SOLOMON ISLANDS
11	08	20	50.9*	6.944	N	72.904	W	150	G	4.3		0.9	15	NORTHERN COLOMBIA
11	08	33	15.2?	13.36	N	92.75	W	33	N	3.8		1.5	10	OFF COAST OF CHIAPAS, MEXICO. MD 4.3 (UNM).

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11  10 19 34.9* 39.654 N  141.481 E   33 N           0.3    6  EASTERN HONSHU, JAPAN
11  10 48 50.9  52.166 N  159.626 E   33 N  5.3 5.1  0.9  282  OFF EAST COAST OF KAMCHATKA. Mw 5.6 (HRV). Felt (III) at
                                                                Petropavlovsk-Kamchatskiy.
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                10:48:57.0; Lat 52.09 N; Lon 159.88 E; Dep 47.8; Half-
                                                                duration 1.4 sec; Principal axes (scale 10**17 Nm): (T)
                                                                Val=2.08, Plg=80, Azm=327; (N) Val=0.69, Plg=5, Azm=210;
                                                                (P) Val=-2.78, Plg=9, Azm=119; Best double couple:
                                                                Mo=2.4*10**17 Nm; NP1: Strike=203, Dip=36, Slip=82; NP2:
                                                                Strike=33, Dip=54, Slip=96.
11  11 03 27.8& 44.771 N    7.664 E   48                    10  NORTHERN ITALY. <GEN>.
11  11 37 59.9& 32.308 S   71.427 W   43                    11  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.3 (GUC).
11  13 13 28.5  35.406 N   77.482 E   33 N  4.1       1.0   20  EASTERN KASHMIR
11  13 41 49.8*  6.916 N   72.891 W  148 *  4.4       1.0   34  NORTHERN COLOMBIA
11  14 01 20.8* 35.448 N   77.587 E   33 N  3.6       0.7    8  EASTERN KASHMIR
11  14 09 57.8& 54.820 N  161.794 W    6                    14  ALASKA PENINSULA. <AEIC>. ML 2.8 (AEIC).
11  14 10 43.0  30.838 S   71.376 W   60 *  4.7       0.7   21  NEAR COAST OF CENTRAL CHILE. MD 4.6 (GUC). Felt (IV) at
                                                                Combarbala, Hurtado, Monte Patria and Ovalle; (II) at
                                                                Illapel and Vicuna.
11  15 26 33.7*  6.931 N   82.614 W   10 G  4.2       1.0   19  SOUTH OF PANAMA. MD 4.6 (SJR).
11  16 25 00.7* 35.326 N   77.345 E   72 ?  3.3       1.0   10  EASTERN KASHMIR
11  16 29 52.7* 20.169 S  168.153 E   33 N  4.3       0.6    8  LOYALTY ISLANDS
11  16 46 58.0* 23.415 N  121.880 E   33 N             0.5    6  TAIWAN
11  16 49 38.6& 38.243 N   28.941 E   10 G                    6  TURKEY. <ISK>. MD 3.0 (ISK).
11  16 54 11.9& 45.320 N  121.650 W    8                   69  WASHINGTON-OREGON BORDER REGION. <SEA-P>. MD 2.9 (SEA). Felt
                                                                in the epicentral area.
11  17 41 50.3& 35.696 S   71.744 W  142                   10  CENTRAL CHILE. <GUC>. MD 4.1 (GUC). Felt (III) at Longavi,
                                                                Parral, Pelarco, Talca and Villa Alegre.
11  18 01 16.1* 13.972 N    8.605 W   33 N  4.2       0.9   11  NORTHWEST AFRICA. Felt at Bamako, Mali.
11  18 22 09.9? 28.45  N  139.51  E  420 *  4.0       0.8   11  BONIN ISLANDS REGION
11  19 15 16.6? 38.43  S  176.22  E  200 G             0.2    9  NORTH ISLAND, NEW ZEALAND
11  20 00 24.8* 22.719 N  123.509 E   33 N  3.6       0.5    9  SOUTHEAST OF TAIWAN
11  20 17 25.6& 42.372 N   19.365 E   20                    9  NORTHWESTERN BALKAN REGION. <PDG>. ML 2.3 (PDG).
11  20 34 18.2* 51.402 N   16.193 E    5 G             1.1    7  POLAND. ML 3.0 (VIE).
11  20 58 55.9  39.030 N   27.104 E    5 G             0.9   21  TURKEY. MD 3.8 (ATH), 3.5 (ISK).
11  21 11 55.4& 35.750 N    4.640 W   97                   15  STRAIT OF GIBRALTAR. <MDD>.
11  21 32 37.2& 63.514 N  147.278 W   10                   44  CENTRAL ALASKA. <AEIC>. ML 3.1 (AEIC), 3.3 (PMR).
11  21 39 31.5  17.847 S  178.721 W  600 G  4.8       1.1   32  FIJI ISLANDS REGION
11  21 51 05.9% 33.073 N   94.472 E   33 N             1.2    8  QINGHAI, CHINA
11  22 04 14.5& 45.323 N  121.655 W    7                   85  WASHINGTON-OREGON BORDER REGION. <SEA-P>. MD 3.2 (SEA). Felt
                                                                in the epicentral area.
11  22 30 32.9* 35.531 N   77.577 E   33 N  4.1       1.4   12  EASTERN KASHMIR
11  22 31 03.9& 33.170 S   70.172 W  110                    8  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
11  22 56 24.4* 14.878 S  166.752 E   33 N             1.5   15  VANUATU ISLANDS
11  23 16 33.7? 23.53  S  179.33  E  600 G  4.6       0.9   14  SOUTH OF FIJI ISLANDS
11  23 49 30.7  44.728 N    9.761 E   10 G             1.1   42  NORTHERN ITALY. ML 2.8 (LDG).
12  00 04 35.4  43.445 N   10.724 E    5 G             1.1   53  CENTRAL ITALY. ML 3.2 (LDG), 3.2 (VIE). Felt in Pisa
                                                                Province.
12  00 16 40.0*  6.344 S  155.459 E  146 D  4.0       0.9   14  SOLOMON ISLANDS
12  00 35 00.7& 36.890 N    3.920 W   66                    6  STRAIT OF GIBRALTAR. <MDD>.
12  00 55 25.1*  5.988 S  104.539 E  115 ?  4.4       1.1   33  SOUTHERN SUMATERA, INDONESIA
12  01 04 44.9& 37.780 N    4.090 W   14                   10  SPAIN. <MDD>. mbLg 1.9 (MDD).
12  01 10 24.8* 46.234 N  142.956 E  338 ?  4.0       0.7   17  SAKHALIN ISLAND
12  01 14 53.7  51.359 N  177.885 E   33 N  4.3       0.9   44  RAT ISLANDS, ALEUTIAN ISLANDS. ML 4.1 (PMR).
12  02 22 38.6& 40.070 N   25.370 E   10                    6  AEGEAN SEA. <ATH>. MD 2.9 (ATH).
12  02 32 01.4? 36.00  N   71.77  E   33 N             1.3    6  AFGHANISTAN-TAJIKISTAN BORD REG.
12  02 32 25.5  26.741 N  140.170 E  441 D  5.9       0.9  362  BONIN ISLANDS REGION. Mw 5.9 (GS), 5.9 (HRV). Me 6.0 (GS).
                                                               Broadband Source Parameters (GS): Dep 441; NP1: Strike=110,
                                                                Dip=60, Slip=-140; NP2: Strike=357, Dip=56, Slip=-37;
                                                                Radiated energy 2.2*10**13 Nm.
                                                               Moment Tensor (GS): Dep 458; Principal axes (scale 10**17
                                                                Nm): (T) Val=7.44, Plg=2, Azm=245; (N) Val=1.34, Plg=44,
                                                                Azm=152; (P) Val=-8.78, Plg=46, Azm=337; Best double
                                                                couple: Mo=8.1*10**17 Nm; NP1: Strike=11, Dip=58, Slip=-34;
                                                                NP2: Strike=121, Dip=62, Slip=-143.
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                02:32:31.1; Lat 26.67 N; Lon 140.31 E; Dep 459.6; Half-
                                                                duration 2.3 sec; Principal axes (scale 10**17 Nm): (T)
                                                                Val=8.40, Plg=11, Azm=240; (N) Val=0.04, Plg=44, Azm=139;
                                                                (P) Val=-8.44, Plg=44, Azm=341; Best double couple:
                                                                Mo=8.4*10**17 Nm; NP1: Strike=10, Dip=51, Slip=-27; NP2:
                                                                Strike=118, Dip=69, Slip=-138.
12  02 50 22.5* 26.454 S   27.402 E   10 G             1.2    6  REPUBLIC OF SOUTH AFRICA
12  02 55 39.8& 36.002 N   31.058 E   10                    5  TURKEY. <ISK>. MD 3.3 (ISK).
12  02 59 24.4*  6.152 S  126.517 E  486 ?  4.2       0.9   11  BANDA SEA
12  03 08 17.2* 27.687 S  126.309 E   10 G             1.5   12  WESTERN AUSTRALIA
12  03 10 31.6& 36.450 N   26.700 E   37                   11  DODECANESE ISLANDS. <ATH>. MD 3.8 (ATH), 3.3 (ISK).
12  03 26 38.5* 18.928 N  145.592 E  236 ?  4.0       1.0   21  MARIANA ISLANDS
12  04 38 19.8  43.500 N   10.717 E    5 G             1.0   18  CENTRAL ITALY. ML 2.8 (LDG).
12  04 41 00.4? 14.77  N   88.13  W   33 N  4.0       1.3    9  HONDURAS
12  04 45 36.9& 37.192 N   29.981 E    6                    4  TURKEY. <ISK>. MD 3.0 (ISK).
12  05 16 24.4  40.686 S  174.029 E   81 *             0.4   11  COOK STRAIT, NEW ZEALAND
12  05 25 17.4& 38.451 N   26.945 E   10 G                    4  AEGEAN SEA. <ISK>. MD 3.3 (ISK).
12  05 27 43.7& 38.530 N   26.900 E   10                   13  AEGEAN SEA. <ATH>. MD 3.6 (ATH), 3.3 (ISK).
12  05 38 46.1& 39.530 N   20.750 E    8                    8  GREECE-ALBANIA BORDER REGION. <ATH>. MD 3.1 (ATH).
12  06 24 15.1* 23.249 N  121.970 E   33 N  4.2       1.4   15  TAIWAN. Felt in eastern Taiwan.
12  07 26 10.3  40.024 N   20.563 E   10 G  4.0       1.4   69  GREECE-ALBANIA BORDER REGION. ML 4.2 (ATH), 4.1 (PDG), 4.1
                                                                (ROM).
12  07 31 55.5? 16.58  N   99.09  W   10 G  3.8       1.3   12  NEAR COAST OF GUERRERO, MEXICO
12  07 38 21.4& 39.930 N   20.510 E   10                    6  GREECE-ALBANIA BORDER REGION. <ATH>. MD 2.8 (ATH).
12  08 49 20.7   5.421 S  151.681 E   43 D  5.5 5.9  0.9  205  NEW BRITAIN REGION, P.N.G. Mw 6.0 (HRV), 5.9 (GS). Me 5.0
                                                                (GS).
                                                               Broadband Source Parameters (GS): Dep 23; NP1: Strike=80,
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Dip=60, Slip=90; NP2: Strike=260, Dip=30, Slip=90; Radiated energy 6.4*10**11 Nm. Two events about 3 seconds apart. Depth based on first event.
Moment Tensor (GS): Dep 35; Principal axes (scale 10**17 Nm): (T) Val=9.55, Plg=82, Azm=351; (N) Val=-0.67, Plg=1, Azm=88; (P) Val=-8.88, Plg=8, Azm=178; Best double couple: Mo=9.2*10**17 Nm; NP1: Strike=269, Dip=37, Slip=92; NP2: Strike=87, Dip=53, Slip=89.
Centroid, Moment Tensor (HRV): Centroid origin time 08:49:28.0; Lat 5.59 S; Lon 151.97 E; Dep 32.0 Bdy; Half-duration 2.7 sec; Principal axes (scale 10**18 Nm): (T) Val=1.28, Plg=69, Azm=359; (N) Val=0.13, Plg=5, Azm=256; (P) Val=-1.41, Plg=20, Azm=164; Best double couple: Mo=1.3*10**18 Nm; NP1: Strike=245, Dip=25, Slip=78; NP2: Strike=78, Dip=66, Slip=95.

12	09	43	45.4&	39.563	N	29.631	E	10	G			4	TURKEY. <ISK>. MD 2.7 (ISK).
12	09	59	18.7&	17.888	N	66.130	W	8				10	PUERTO RICO REGION. <MPR>. MD 4.0 (MPR). Felt (VI) throughout Puerto Rico.
12	10	08	39.1&	34.119	N	119.155	W	9				4	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.5 (PAS). Felt at Oxnard.
12	10	28	13.5?	17.75	S	178.82	W	607 ?	4.9		1.0	20	FIJI ISLANDS REGION
12	10	37	16.2&	47.900	N	1.600	E	18				7	FRANCE. <LDG>. ML 2.5 (LDG).
12	11	19	30.6&	40.527	N	27.702	E	7				4	TURKEY. <ISK>. MD 2.7 (ISK).
12	11	27	43.7%	36.404	N	31.497	E	33 N			0.5	7	TURKEY. MD 3.5 (ISK).
12	11	40	48.1?	45.84	N	142.39	E	346 ?	3.8		0.9	12	HOKKAIDO, JAPAN REGION
12	11	56	19.5&	39.573	N	29.452	E	6				4	TURKEY. <ISK>. MD 2.7 (ISK).
12	13	02	46.1	24.425	N	126.654	E	33 N	4.6		1.0	24	RYUKYU ISLANDS
12	13	09	52.9	39.133	N	143.304	E	33 N	5.0	4.8	1.1	52	OFF EAST COAST OF HONSHU, JAPAN. Felt (I JMA) in southeastern Aomori, western Iwate and northeastern Miyagi Prefectures.
12	15	36	35.8*	16.834	S	166.247	E	33 N	4.6		1.2	5	VANUATU ISLANDS
12	16	14	09.6*	12.216	N	143.815	E	33 N	4.5		1.1	11	SOUTH OF MARIANA ISLANDS
12	16	16	08.8&	37.280	N	3.010	W	10				7	SPAIN. <MDD>. mbLg 2.1 (MDD).
12	16	17	29.0&	37.300	N	3.010	W	10				8	SPAIN. <MDD>. mbLg 2.2 (MDD).
12	16	22	13.7?	14.62	N	93.14	W	33 N	3.9		1.1	14	NEAR COAST OF CHIAPAS, MEXICO
12	16	25	53.4&	45.600	N	3.700	E	11				8	FRANCE. <LDG>. ML 2.3 (LDG).
12	16	38	47.0*	8.112	N	38.632	W	10 G	4.2		1.0	10	CENTRAL MID-ATLANTIC RIDGE
12	17	02	31.0*	12.370	N	143.620	E	33 N	4.2		1.0	11	SOUTH OF MARIANA ISLANDS
12	17	24	03.0&	44.373	N	7.279	E	13				19	NORTHERN ITALY. <GEN>. ML 2.2 (GEN), 1.9 (LDG).
12	18	04	15.5&	59.729	N	153.545	W	121				18	SOUTHERN ALASKA. <AEIC>.
12	18	24	26.4*	45.706	N	15.977	E	10 G			0.9	5	NORTHWESTERN BALKAN REGION. ML 1.6 (ZAG), 1.1 (LJU).
12	18	47	24.0?	3.95	N	128.75	E	33 N	4.1		1.4	8	NORTH OF HALMAHERA, INDONESIA
12	19	08	46.8&	45.100	N	5.800	E	2				5	FRANCE. <LDG>. ML 1.4 (LDG).
12	19	12	38.9*	5.793	S	128.900	E	322 *	4.4		0.9	13	BANDA SEA
12	19	14	14.4*	5.650	S	135.009	E	33 N	4.4		0.9	7	IRIAN JAYA REGION, INDONESIA
12	19	24	07.1&	37.239	N	121.628	W	6				11	CENTRAL CALIFORNIA. <GM-P>. MD 2.9 (GM). Felt at San Jose.
12	20	28	36.0*	51.116	N	160.635	E	33 N	4.3		0.8	14	OFF EAST COAST OF KAMCHATKA
12	21	12	49.3	4.630	N	126.594	E	33 N	5.2		1.0	68	TALAUD ISLANDS, INDONESIA. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 21:12:57.3; Lat 4.66 N; Lon 126.78 E; Dep 77.3; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=7.80, Plg=34, Azm=9; (N) Val=-1.20, Plg=51, Azm=155; (P) Val=-6.59, Plg=17, Azm=267; Best double couple: Mo=7.2*10**16 Nm; NP1: Strike=43, Dip=53, Slip=166; NP2: Strike=141, Dip=79, Slip=37.
12	23	20	03.2	46.440	N	14.780	E	10 G			0.5	8	NORTHWESTERN BALKAN REGION. ML 2.0 (VIE), 1.6 (LJU).
12	23	22	34.1	0.319	S	133.507	E	33 N	5.0	4.4	1.4	34	IRIAN JAYA REGION, INDONESIA
12	23	48	08.9&	35.973	N	120.524	W	8				6	CENTRAL CALIFORNIA. <GM-P>. MD 2.7 (GM). ML 2.8 (PAS).
12	23	51	05.3&	32.755	S	70.180	W	106				9	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
12	23	52	05.2&	16.505	N	61.500	W	5				6	LEEWARD ISLANDS. <FDF>. MG 2.9 (FDF).
12	23	53	35.0&	40.830	N	3.950	W	3				8	SPAIN. <MDD>. mbLg 2.4 (MDD).
13	00	09	59.8*	14.494	N	93.400	W	33 N	4.2		1.1	26	NEAR COAST OF CHIAPAS, MEXICO
13	01	27	11.7	37.202	N	28.764	E	10 G			0.5	14	TURKEY. MD 3.5 (ISK).
13	02	14	07.1*	16.267	N	96.725	W	33 N	4.2		1.1	18	OAXACA, MEXICO
13	03	09	40.8&	31.981	S	69.954	W	114				9	SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 3.3 (GUC).
13	04	36	26.7	10.755	N	63.586	W	33 N	4.1		1.2	26	NEAR COAST OF VENEZUELA. MD 4.5 (TRN).
13	04	45	52.2	9.341	S	117.687	E	33 N	3.3		0.8	8	SUMBAWA REGION, INDONESIA
13	05	39	39.0	45.489	N	14.712	E	10 G			1.0	15	NORTHWESTERN BALKAN REGION. ML 3.1 (VIE), 2.8 (ZAG), 2.6 (LJU). Felt at Rijeka, Croatia.
13	05	44	27.0*	45.966	N	3.218	E	10 G			0.5	6	FRANCE. ML 1.5 (LDG).
13	05	55	18.9	28.257	N	139.975	E	417 *	4.4		0.9	34	BONIN ISLANDS REGION
13	06	17	53.8&	15.190	N	61.033	W	127				19	LEEWARD ISLANDS. <FDF>. MD 3.8 (TRN).
13	06	38	04.6	39.609	N	73.920	E	33 N	4.6		1.0	21	TAJIKISTAN-XINJIANG BORDER REG.
13	06	41	48.6	38.911	N	27.046	E	10 G			0.4	11	TURKEY. MD 3.5 (ATH), 3.2 (ISK).
13	07	38	22.9*	23.228	N	107.825	W	10 G	4.2		1.3	49	GULF OF CALIFORNIA
13	07	38	50.8*	22.690	N	107.988	W	10 G	4.5	4.5	0.9	46	OFF COAST OF CENTRAL MEXICO
13	08	21	35.0*	22.997	S	179.695	W	500 G	4.4		0.8	16	SOUTH OF FIJI ISLANDS
13	08	21	59.8&	61.271	N	146.946	W	22				52	SOUTHERN ALASKA. <AEIC>. ML 2.8 (AEIC).
13	08	27	08.8&	34.327	S	70.456	W	107				10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.2 (GUC).
13	08	36	00.0*	38.588	N	70.595	E	100 G	3.5		1.0	10	AFGHANISTAN-TAJIKISTAN BORD REG.
13	09	29	19.1&	32.908	S	71.060	W	65				9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.6 (GUC).
13	09	35	21.0*	3.473	N	127.080	E	33 N	4.1		1.4	14	TALAUD ISLANDS, INDONESIA
13	10	02	05.4&	32.719	N	115.921	W	9				34	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.8 (PAS). Felt in Imperial County, California and at Mexicali, Baja California.
13	10	03	30.4*	44.323	N	129.962	W	10 G	3.1		0.6	36	OFF COAST OF OREGON
13	10	10	13.9&	39.617	N	29.412	E	10 G				4	TURKEY. <ISK>. MD 2.6 (ISK).
13	10	14	29.3&	17.860	N	66.130	W	9				6	PUERTO RICO REGION. <MPR>. MD 3.0 (MPR).
13	10	22	06.8*	2.221	N	126.380	E	100 G	4.0		1.1	9	NORTHERN MOLUCCA SEA
13	10	48	03.4&	55.370	N	159.794	W	4				14	ALASKA PENINSULA. <AEIC>. ML 3.1 (AEIC).
13	12	45	26.0&	31.745	S	72.358	W	19				6	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).
13	13	09	18.4	9.207	S	121.591	E	46 *	4.5		1.2	26	SAVU SEA
13	13	20	56.0&	32.727	N	115.926	W	3				49	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 4.4 (PAS). Felt in parts of Imperial and San Diego Counties,

California. Also felt at Mexicali, Baja California.

13	13	23	57.4&	32.713	N	115.920	W	6			12	CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.1 (PAS).
13	13	24	10.3	34.381	N	32.111	E	50	4.2	0.9	43	CYPRUS REGION. MD 3.9 (ISK).
13	13	31	46.9	37.078	N	142.367	E	33 N	4.0	0.5	14	OFF EAST COAST OF HONSHU, JAPAN
13	14	29	25.4&	31.532	S	69.809	W	115			8	SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 3.2 (GUC).
13	14	44	32.1	2.403	S	138.987	E	33 N	4.4	0.8	14	IRIAN JAYA, INDONESIA
13	14	50	55.2&	59.954	N	152.204	W	88			66	SOUTHERN ALASKA. <AEIC>.
13	15	34	13.1&	45.034	N	6.912	E	7			12	FRANCE. <GEN>. ML 2.3 (GEN), 1.9 (LDG).
13	15	38	59.7?	7.87	S	123.18	E	200 G	4.1	1.4	12	BANDA SEA
13	16	06	04.0	39.294	N	27.958	E	10 G		0.8	9	TURKEY. MD 3.4 (ATH), 2.9 (ISK).
13	17	01	41.5	17.773	S	71.177	W	68 *		0.9	10	NEAR COAST OF PERU
13	17	28	43.2%	41.657	S	172.257	E	10 G		0.8	5	SOUTH ISLAND, NEW ZEALAND. ML 3.7 (WEL).
13	17	31	33.6&	33.840	S	70.705	W	81			9	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.8 (GUC).
13	17	45	19.3&	60.789	N	150.238	W	31			53	KENAI PENINSULA, ALASKA. <AEIC>. ML 3.7 (AEIC), 4.0 (PMR). Felt (II) at Anchorage. Also felt at Cooper Landing and Sterling.
13	18	29	08.8*	10.911	S	161.256	E	33 N	4.3	1.0	15	SOLOMON ISLANDS
13	18	39	58.1*	0.168	N	123.017	E	100 G	3.6	0.6	8	MINAHASSA PENINSULA, SULAWESI
13	19	36	33.9	36.605	N	71.105	E	233 *	4.1	0.8	22	AFGHANISTAN-TAJIKISTAN BORD REG.
13	19	48	48.2?	52.41	N	160.56	E	33 N	4.7	1.5	19	OFF EAST COAST OF KAMCHATKA
13	20	12	15.4	20.598	S	169.757	E	125 D	5.5	0.9	183	VANUATU ISLANDS. Mw 5.8 (HRV), 5.7 (GS). Moment Tensor (GS): Dep 122; Principal axes (scale 10**17 Nm): (T) Val=4.69, Plg=16, Azm=256; (N) Val=-0.08, Plg=1, Azm=346; (P) Val=-4.61, Plg=74, Azm=79; Best double couple: Mo=4.7*10**17 Nm; NP1: Strike=345, Dip=29, Slip=-92; NP2: Strike=167, Dip=61, Slip=-89. Centroid, Moment Tensor (HRV): Centroid origin time 20:12:21.1; Lat 20.63 S; Lon 169.57 E; Dep 133.7; Half-duration 1.8 sec; Principal axes (scale 10**17 Nm): (T) Val=4.87, Plg=26, Azm=270; (N) Val=0.12, Plg=8, Azm=176; (P) Val=-4.98, Plg=63, Azm=69; Best double couple: Mo=4.9*10**17 Nm; NP1: Strike=19, Dip=21, Slip=-66; NP2: Strike=173, Dip=71, Slip=-99.
13	21	26	27.4*	49.771	N	98.193	E	33 N		1.0	10	RUSSIA-MONGOLIA BORDER REGION
13	21	49	58.5*	4.991	N	127.739	E	33 N	3.9	0.3	7	TALAUD ISLANDS, INDONESIA
13	21	59	34.7?	23.60	N	108.93	W	10 G	3.7	1.1	19	GULF OF CALIFORNIA
13	22	21	28.0&	33.128	S	70.241	W	4			7	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.7 (GUC).
13	23	09	51.1&	40.697	N	29.881	E	10 G			4	TURKEY. <ISK>. MD 2.5 (ISK).
13	23	10	29.2	41.547	N	115.407	W	5 G		0.9	24	NEVADA. ML 3.8 (GS).
13	23	13	43.4	38.899	N	27.008	E	10 G		0.8	8	TURKEY. MD 3.1 (ISK).
14	00	21	38.5&	33.673	S	70.434	W	16			9	CHILE-ARGENTINA BORDER REGION. <GUC>.
14	00	44	13.1&	45.000	N	5.700	E	2			11	FRANCE. <LDG>. ML 2.0 (LDG).
14	00	46	59.6&	34.687	S	72.678	W	24			8	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
14	01	03	24.2%	39.571	S	177.121	E	33 N		0.5	13	OFF E. COAST OF N. ISLAND, N.Z. ML 3.9 (WEL). Felt at Napier.
14	01	21	53.5*	7.455	S	128.485	E	33 N	4.3	1.2	13	BANDA SEA
14	02	12	01.1	22.404	S	177.949	W	336 D	4.8	0.8	63	SOUTH OF FIJI ISLANDS
14	02	22	59.1?	5.45	S	146.89	E	10 G		0.8	6	EASTERN NEW GUINEA REG., P.N.G.
14	04	02	06.2&	31.598	S	69.966	W	122			7	SAN JUAN PROVINCE, ARGENTINA. <GUC>.
14	04	28	32.2&	57.502	N	154.706	W	41	3.1		5	KODIAK ISLAND REGION. <AEIC>. ML 3.2 (AEIC).
14	04	47	24.8*	36.988	N	141.199	E	48 *	4.7 4.0	0.9	41	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) in eastern Fukushima, central Miyagi and much of Ibaraki and Tochigi Prefectures.
14	06	26	52.8&	37.180	N	3.750	W	2			5	SPAIN. <MDD>. mbLg 2.0 (MDD).
14	06	44	13.4&	33.650	N	119.015	W	6 G			35	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
14	06	51	55.9&	44.438	N	6.940	E	7			9	FRANCE. <GEN>. ML 2.1 (GEN).
14	06	54	14.9&	32.685	S	71.246	W	52			10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
14	07	00	04.2?	16.03	S	177.87	E	33 N	4.4	1.1	16	FIJI ISLANDS
14	07	01	36.3	39.199	N	40.478	E	10 G		1.4	12	TURKEY. MD 4.0 (ISK).
14	07	03	22.1?	52.87	N	159.93	E	72 *		1.0	8	OFF EAST COAST OF KAMCHATKA
14	07	06	03.0*	46.006	N	151.588	E	109 D	4.7	0.9	45	KURIL ISLANDS
14	08	14	54.8	19.015	S	169.468	E	267	4.3	0.8	37	VANUATU ISLANDS
14	08	23	02.9*	9.524	S	113.409	E	33 N	3.3	0.7	8	SOUTH OF JAWA, INDONESIA
14	08	26	56.8&	44.125	N	7.889	E	11			7	NORTHERN ITALY. <GEN>. ML 1.9 (GEN).
14	09	47	16.9&	39.087	N	27.708	E	10 G			5	TURKEY. <ISK>. MD 2.8 (ISK).
14	10	36	51.0&	38.420	N	112.980	W	5			18	UTAH. <SLC-P>. ML 3.2 (SLC). Felt at Milford.
14	10	46	29.9&	62.990	N	150.640	W	113			9	CENTRAL ALASKA. <AEIC>.
14	11	35	04.9&	39.191	N	27.384	E	10 G			5	TURKEY. <ISK>. MD 2.9 (ISK).
14	11	56	47.0&	45.327	N	121.663	W	7			58	WASHINGTON-OREGON BORDER REGION. <SEA-P>. MD 3.2 (SEA). Felt in the epicentral area.
14	12	20	13.9&	6.770	N	73.102	W	160	4.6		56	NORTHERN COLOMBIA. <RSNC>. Felt in northern Colombia.
14	13	02	14.3&	32.498	S	71.910	W	15			6	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
14	13	11	55.7	5.755	S	104.182	E	57 D	4.7	1.0	33	SOUTHERN SUMATERA, INDONESIA
14	13	18	00.4*	46.328	N	153.425	E	33 N	4.4	0.8	15	KURIL ISLANDS
14	13	56	53.0&	38.430	N	112.970	W	1			14	UTAH. <SLC-P>. ML 2.9 (SLC).
14	14	25	25.4*	10.852	S	161.502	E	33 N	4.2	1.3	15	SOLOMON ISLANDS
14	14	25	32.7&	32.456	S	70.041	W	115			9	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
14	14	27	20.6*	18.546	N	121.126	E	33 N	4.3	1.2	15	LUZON, PHILIPPINE ISLANDS
14	14	48	49.9&	32.635	S	70.037	W	112			8	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
14	14	49	52.3&	36.140	N	4.050	W	16			17	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.8 (MDD).
14	15	39	56.4&	34.656	S	71.992	W	5			7	NEAR COAST OF CENTRAL CHILE. <GUC>.
14	16	13	42.0&	45.327	N	121.666	W	6			9	WASHINGTON-OREGON BORDER REGION. <SEA-P>. MD 3.0 (SEA). Felt in the epicentral area.
14	16	44	07.8&	31.287	S	71.871	W	21			9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
14	17	03	42.9*	15.636	N	93.947	W	116 ?	4.0	0.9	13	NEAR COAST OF CHIAPAS, MEXICO
14	17	10	22.5	0.001	S	124.012	E	91 ?	4.4	1.1	41	SOUTHERN MOLUCCA SEA
14	17	30	08.0&	38.410	N	112.980	W	4			17	UTAH. <SLC-P>. ML 3.1 (SLC).
14	18	10	25.9&	38.470	N	25.610	E	36			7	AEGEAN SEA. <ATH>. MD 3.3 (ATH).
14	19	02	46.3&	35.190	N	4.110	W	11			12	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.3 (MDD).
14	19	11	27.3&	37.160	N	3.690	W	0 G			10	SPAIN. <MDD>. mbLg 2.2 (MDD).
14	19	37	53.6&	33.806	S	69.968	W	145			10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).
14	20	04	48.5&	37.150	N	21.000	E	5			4	SOUTHERN GREECE. <ATH>. MD 3.0 (ATH).
14	20	07	40.9&	37.050	N	2.570	W	0 G			8	SPAIN. <MDD>. mbLg 2.1 (MDD).
14	20	20	07.9	23.490	S	179.909	W	539 D	4.9	0.9	71	SOUTH OF FIJI ISLANDS. Mw 5.4 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 20:20:16.1; Lat 23.13 S; Lon 179.99 E; Dep 561.7; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.18, Plg=34, Azm=43; (N) Val=0.13, Plg=3, Azm=136; (P) Val=-1.30, Plg=56, Azm=230; Best double couple: Mo=1.2*10**17 Nm; NP1: Strike=120, Dip=12, Slip=-106; NP2: Strike=316, Dip=79, Slip=-87.

14 20 24 18.8* 37.319 S 17.020 W 10 G 5.0 1.0 35 SOUTHERN MID-ATLANTIC RIDGE. Mw 5.0 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 20:24:15.3; Lat 37.17 S; Lon 17.94 W; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=3.28, Plg=0, Azm=266; (N) Val=0.11, Plg=0, Azm=176; (P) Val=-3.40, Plg=90, Azm=180; Best double couple: Mo=3.3*10**16 Nm; NP1: Strike=356, Dip=45, Slip=-90; NP2: Strike=176, Dip=45, Slip=-90.

14 20 26 31.9& 36.970 N 35.484 E 12 4 TURKEY. <ISK>. MD 3.5 (ISK).
14 21 05 58.5* 3.705 N 126.236 E 33 N 4.4 1.4 17 TALAUD ISLANDS, INDONESIA
14 22 05 48.2& 45.100 N 3.200 E 2 12 FRANCE. <LDG>. ML 2.1 (LDG).
14 22 12 49.2 29.146 N 56.351 E 33 N 5.1 0.9 165 SOUTHERN IRAN. Mw 5.0 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 22:12:53.5; Lat 28.95 N; Lon 56.20 E; Dep 33.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=2.77, Plg=6, Azm=97; (N) Val=0.62, Plg=22, Azm=5; (P) Val=-3.39, Plg=67, Azm=201; Best double couple: Mo=3.1*10**16 Nm; NP1: Strike=210, Dip=44, Slip=-57; NP2: Strike=348, Dip=55, Slip=-117.

14 22 16 37.4? 38.64 S 176.39 E 150 G 0.4 10 NORTH ISLAND, NEW ZEALAND
14 22 24 10.3& 36.700 N 2.950 W 4 7 STRAIT OF GIBRALTAR. <MDD>. mbLg 2.1 (MDD).
14 22 45 18.6 41.274 N 43.976 E 33 N 4.8 1.2 80 GEORGIA-ARMENIA-TURKEY BORD REG. Felt (VI) at Akhalkalaki, Georgia. Felt (V) at Gyumri and Stepanavan; (IV) at Yerevan, Armenia. Also felt (IV) at Tbilisi, Georgia.

15 00 18 21.1* 28.325 N 129.781 E 57 D 4.1 0.6 10 RYUKYU ISLANDS. Felt (II JMA) on Kikai-shima and (I JMA) in northern Amami O-shima.
15 00 27 59.5& 36.060 N 22.600 E 5 6 SOUTHERN GREECE. <ATH>. MD 3.4 (ATH).
15 00 37 28.7& 34.765 S 70.147 W 10 11 CHILE-ARGENTINA BORDER REGION. <GUC>.
15 00 52 35.2& 38.950 N 23.470 E 4 9 GREECE. <ATH>. ML 3.2 (ATH).
15 01 18 50.1& 34.779 S 70.160 W 15 9 CHILE-ARGENTINA BORDER REGION. <GUC>.
15 01 37 36.4& 40.557 S 175.433 E 33 N 0.3 11 NORTH ISLAND, NEW ZEALAND. ML 3.7 (WEL). Felt in Manawatu County.
15 02 04 29.8 37.087 N 35.782 E 10 G 4.3 0.9 52 TURKEY. MD 4.3 (ISK).
15 02 23 27.7& 8.710 S 114.300 E 95 4 BALI REGION, INDONESIA. <DJA>.
15 02 26 30.9& 47.600 N 3.800 W 22 8 FRANCE. <LDG>. ML 2.3 (LDG).
15 02 47 36.2& 41.845 N 19.774 E 18 11 ALBANIA. <PDG>. ML 2.1 (PDG).
15 03 44 55.3& 40.000 N 24.640 E 5 11 AEGEAN SEA. <ATH>. ML 3.4 (ATH).
15 03 52 18.8& 37.941 N 29.917 E 10 4 TURKEY. <ISK>. MD 3.1 (ISK).
15 05 00 28.0? 34.52 S 106.44 W 10 G 0.9 9 SOUTHERN EAST PACIFIC RISE
15 05 02 30.3? 38.24 S 176.54 E 200 G 0.2 10 NORTH ISLAND, NEW ZEALAND
15 05 53 47.9& 19.126 N 98.571 W 0 10 CENTRAL MEXICO. <UNM>. MD 3.0 (UNM).
15 06 07 10.4& 33.533 S 69.938 W 6 11 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
15 06 27 13.0& 33.537 S 69.957 W 0 12 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.5 (GUC).
15 06 27 22.9& 17.108 N 100.388 W 31 6 GUERRERO, MEXICO. <UNM>. MD 3.7 (UNM).
15 06 28 20.6? 6.06 S 147.24 E 102 4.3 1.2 12 EASTERN NEW GUINEA REG., P.N.G.
15 06 31 30.0 34.229 N 26.016 E 39 * 4.2 1.1 43 CRETE
15 06 58 49.6? 35.33 N 141.73 E 33 N 1.3 5 NEAR EAST COAST OF HONSHU, JAPAN
15 08 13 23.9& 31.890 S 70.108 W 123 13 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
15 08 55 18.4? 8.49 S 107.31 E 33 N 0.7 7 JAWA, INDONESIA
15 08 58 35.8 43.821 N 111.008 W 5 G 0.6 26 EASTERN IDAHO. ML 3.2 (GS), 3.4 (BUT).
15 09 12 06.6& 39.614 N 29.485 E 10 G 4 TURKEY. <ISK>. MD 2.5 (ISK).
15 09 51 27.5 34.551 N 26.483 E 66 4.1 1.2 30 CRETE. MD 3.9 (ATH).
15 09 52 58.4& 40.202 N 29.403 E 10 G 7 TURKEY. <ISK>. MD 2.9 (ISK).
15 10 16 41.7 34.617 N 26.382 E 70 4.2 1.0 62 CRETE. MD 4.0 (ISK).
15 10 53 35.0 56.278 N 153.498 W 33 N 4.5 1.2 38 KODIAK ISLAND REGION. ML 4.1 (AEIC).
15 11 05 45.2& 39.600 N 26.480 E 5 5 TURKEY. <ISK>. MD 3.1 (ISK).
15 11 14 50.4 27.826 N 138.963 E 520 D 5.1 0.8 231 BONIN ISLANDS REGION. Mw 5.4 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 11:14:55.0; Lat 27.85 N; Lon 139.14 E; Dep 539.9; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.32, Plg=5, Azm=322; (N) Val=0.36, Plg=19, Azm=54; (P) Val=-1.68, Plg=70, Azm=217; Best double couple: Mo=1.5*10**17 Nm; NP1: Strike=32, Dip=43, Slip=-119; NP2: Strike=249, Dip=53, Slip=-66.

15 11 23 38.6& 33.678 S 70.682 W 80 13 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.8 (GUC).
15 11 38 02.1* 43.439 N 146.093 E 66 D 4.2 1.3 12 KURIL ISLANDS
15 11 39 40.0? 55.26 S 144.68 W 10 G 4.3 1.4 11 PACIFIC-ANTARCTIC RIDGE
15 11 58 07.4& 33.895 S 71.327 W 66 10 NEAR COAST OF CENTRAL CHILE. <GUC>.
15 13 46 00.7* 35.315 N 45.196 E 33 N 4.7 1.3 23 IRAN-IRAQ BORDER REGION
15 14 46 41.7& 39.547 N 29.614 E 10 G 4 TURKEY. <ISK>. MD 2.5 (ISK).
15 15 05 49.8& 61.551 N 151.377 W 78 62 SOUTHERN ALASKA. <AEIC>.
15 16 35 21.0& 40.635 N 122.410 W 24 9 NORTHERN CALIFORNIA. <GM-P>. MD 3.1 (GM). ML 3.1 (BRK).
15 16 42 08.1* 12.667 N 144.900 E 79 * 4.4 1.1 24 SOUTH OF MARIANA ISLANDS
15 17 42 08.2* 0.208 N 17.506 W 10 G 4.4 1.1 12 NORTH OF ASCENSION ISLAND
15 17 46 23.5& 59.873 N 152.087 W 64 62 SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC).
15 18 15 00.9& 62.970 N 150.470 W 16 39 CENTRAL ALASKA. <AEIC>. ML 2.5 (AEIC).
15 18 19 36.8& 37.607 N 29.467 E 10 G 6 TURKEY. <ISK>. MD 3.3 (ISK).
15 18 49 31.5 12.781 N 88.773 W 57 D 4.4 1.1 44 OFF COAST OF CENTRAL AMERICA
15 19 14 10.6 35.350 N 45.163 E 33 N 5.0 4.5 1.1 186 IRAN-IRAQ BORDER REGION. Mw 5.1 (HRV). Felt at Baneh, Mahabad, Oshnaviyeh, Piran Shahr and Sar Dasht, Iran.
Centroid, Moment Tensor (HRV): Centroid origin time 19:14:14.4; Lat 35.27 N; Lon 44.97 E; Dep 33.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.57, Plg=74, Azm=228; (N) Val=-0.82, Plg=2, Azm=131; (P) Val=-4.75, Plg=16, Azm=41; Best double couple: Mo=5.2*10**16 Nm; NP1: Strike=128, Dip=29, Slip=86; NP2:

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                                                                    Strike=312, Dip=61, Slip=92.
15  20 17 13.7& 42.640 N    1.750 E    1 G                    11  PYRENEES. <STR>. ML 2.5 (STR), 2.4 (LDG).
15  20 29 42.0  10.641 N   63.682 W   39 *  4.6        1.2   57  NEAR COAST OF VENEZUELA
15  21 00 19.8* 27.110 N   66.207 E   33 N             0.9    9  PAKISTAN
15  21 14 08.9& 34.923 S   71.159 W   90                       8  NEAR COAST OF CENTRAL CHILE. <GUC>.
15  22 09 42.6* 43.409 N  145.831 E   33 N             0.5    9  HOKKAIDO, JAPAN  REGION
15  22 38 31.5& 16.127 N   98.682 W   15                      13  NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.9 (UNM).
15  23 30 05.1& 42.500 N    1.700 E    2                       5  PYRENEES. <LDG>. ML 2.1 (LDG).
15  23 37 49.8   6.246 S  128.269 E  316 *  4.5        0.9   22  BANDA SEA
15  23 57 25.0& 34.053 S   70.363 W    8                      10  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
16  00 00 31.5& 34.065 S   70.382 W    8                      11  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.8 (GUC).
16  00 19 13.8* 35.873 S  100.596 W   10 G  4.8 4.9   1.0   36  SOUTHERN PACIFIC OCEAN. Mw 5.4 (HRV).
                                                                    Centroid, Moment Tensor (HRV): Centroid origin time
                                                                     00:19:17.9; Lat 36.03 S; Lon 100.62 W; Dep 15.0 Fix; Half-
                                                                     duration 1.1 sec; Principal axes (scale 10**17 Nm): (T)
                                                                     Val=1.36, Plg=24, Azm=229; (N) Val=-0.23, Plg=63, Azm=18;
                                                                     (P) Val=-1.13, Plg=13, Azm=134; Best double couple:
                                                                     Mo=1.2*10**17 Nm; NP1: Strike=269, Dip=64, Slip=172; NP2:
                                                                     Strike=3, Dip=83, Slip=26.
16  00 19 40.4& 40.005 N   15.935 E   10 G  3.7               58  SOUTHERN ITALY. <ROM>. MD 3.6 (ROM). ML 3.5 (PDG).
16  00 29 21.6& 34.047 S   70.338 W    5                       6  CHILE-ARGENTINA BORDER REGION. <GUC>.
16  00 31 48.9* 36.073 S  100.702 W   10 G  4.6        1.2   39  SOUTHERN PACIFIC OCEAN
16  01 19 28.8* 29.752 N  139.872 E   67 ?  4.5        1.1   19  SOUTH OF HONSHU, JAPAN
16  01 35 28.2  45.318 N  148.558 E  143 D  4.9        0.9  128  KURIL ISLANDS. Mw 5.4 (HRV).
                                                                    Centroid, Moment Tensor (HRV): Centroid origin time
                                                                     01:35:28.9; Lat 45.12 N; Lon 148.69 E; Dep 133.0; Half-
                                                                     duration 1.0 sec; Principal axes (scale 10**17 Nm): (T)
                                                                     Val=1.85, Plg=34, Azm=295; (N) Val=-0.46, Plg=55, Azm=106;
                                                                     (P) Val=-1.39, Plg=4, Azm=202; Best double couple:
                                                                     Mo=1.6*10**17 Nm; NP1: Strike=333, Dip=63, Slip=157; NP2:
                                                                     Strike=74, Dip=70, Slip=29.
16  02 31 41.5?  6.40  S  103.44  E   33 N  4.3        0.5    6  SOUTHWEST OF SUMATERA, INDONESIA
16  03 01 01.7  50.749 N  169.920 W   33 N  5.4        1.0  189  SOUTH OF ALEUTIAN ISLANDS. Mw 5.2 (HRV).
                                                                    Centroid, Moment Tensor (HRV): Centroid origin time
                                                                     03:00:59.5; Lat 50.89 N; Lon 169.70 W; Dep 17.3; Half-
                                                                     duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                     Val=8.29, Plg=22, Azm=178; (N) Val=-1.58, Plg=13, Azm=273;
                                                                     (P) Val=-6.71, Plg=64, Azm=32; Best double couple:
                                                                     Mo=7.5*10**16 Nm; NP1: Strike=244, Dip=26, Slip=-122; NP2:
                                                                     Strike=99, Dip=68, Slip=-76.
16  03 04 20.1   7.245 S  129.155 E  150 G  5.3        0.9   91  BANDA SEA. Mw 5.4 (HRV).
                                                                    Centroid, Moment Tensor (HRV): Centroid origin time
                                                                     03:04:25.8; Lat 6.98 S; Lon 129.03 E; Dep 127.4; Half-
                                                                     duration 1.1 sec; Principal axes (scale 10**17 Nm): (T)
                                                                     Val=1.57, Plg=28, Azm=283; (N) Val=0.04, Plg=59, Azm=74;
                                                                     (P) Val=-1.61, Plg=13, Azm=186; Best double couple:
                                                                     Mo=1.6*10**17 Nm; NP1: Strike=321, Dip=61, Slip=169; NP2:
                                                                     Strike=57, Dip=80, Slip=29.
16  03 51 25.3& 60.540 N  152.570 W    2                      57  SOUTHERN ALASKA. <AEIC>. ML 3.0 (AEIC), 3.2 (PMR).
16  04 02 25.6* 18.694 S  174.701 W   33 N             0.5   12  TONGA ISLANDS
16  04 03 57.2& 42.430 N   19.318 E   18                       8  NORTHWESTERN BALKAN REGION. <PDG>. ML 1.3 (PDG).
16  04 39 29.6& 31.207 S   71.716 W   19                      12  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.2 (GUC).
16  05 14 12.9* 53.577 N  166.355 W   76 *  4.1        1.2   14  FOX ISLANDS, ALEUTIAN ISLANDS
16  05 19 49.6& 34.050 S   70.333 W    8                      10  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
16  05 52 36.5? 30.68  S   72.18  W   10 G             0.5   11  OFF COAST OF CENTRAL CHILE. MD 4.3 (GUC).
16  06 41 39.9* 36.641 N  141.617 E   33 N  4.3        1.2   20  NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) in central
                                                                     Ibaraki; (I JMA) in eastern Fukushima and parts of Tochigi
                                                                     Prefectures.
16  08 00 33.3? 27.67  S  176.59  W   33 N  4.1        1.0   12  KERMADEC ISLANDS REGION
16  09 06 36.7  12.308 N  144.105 E   33 N  5.2 5.1    1.0   79  SOUTH OF MARIANA ISLANDS. Mw 5.4 (HRV).
                                                                    Centroid, Moment Tensor (HRV): Centroid origin time
                                                                     09:06:39.1; Lat 12.13 N; Lon 144.35 E; Dep 15.0 Bdy; Half-
                                                                     duration 1.2 sec; Principal axes (scale 10**17 Nm): (T)
                                                                     Val=1.75, Plg=57, Azm=255; (N) Val=-0.18, Plg=22, Azm=23;
                                                                     (P) Val=-1.56, Plg=24, Azm=123; Best double couple:
                                                                     Mo=1.6*10**17 Nm; NP1: Strike=250, Dip=29, Slip=141; NP2:
                                                                     Strike=16, Dip=72, Slip=67.
16  09 24 48.8   8.576 N   92.952 E   45 D  4.5        0.9   22  NICOBAR ISLANDS, INDIA
16  10 19 44.6& 33.100 S   70.320 W  111                      11  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).
16  10 44 39.4  56.233 N  147.427 W   21 G  5.9 5.7    0.9  523  GULF OF ALASKA. Mw 6.0 (GS), 6.0 (HRV). Me 6.0 (GS).
                                                                    Broadband Source Parameters (GS): Dep 21; NP1: Strike=140,
                                                                     Dip=70, Slip=130; NP2: Strike=252, Dip=44, Slip=30;
                                                                     Radiated energy 1.9*10**13 Nm. Small event followed about
                                                                     1.5 seconds later by larger event. Depth based on second
                                                                     event.
                                                                    Moment Tensor (GS): Dep 21; Principal axes (scale 10**18
                                                                     Nm): (T) Val=1.16, Plg=55, Azm=92; (N) Val=-0.16, Plg=30,
                                                                     Azm=307; (P) Val=-1.00, Plg=17, Azm=207; Best double
                                                                     couple: Mo=1.1*10**18 Nm; NP1: Strike=261, Dip=39, Slip=37;
                                                                     NP2: Strike=140, Dip=68, Slip=123.
                                                                    Centroid, Moment Tensor (HRV): Centroid origin time
                                                                     10:44:45.8; Lat 56.35 N; Lon 147.34 W; Dep 23.0 Bdy; Half-
                                                                     duration 2.4 sec; Principal axes (scale 10**18 Nm): (T)
                                                                     Val=1.05, Plg=58, Azm=86; (N) Val=0.10, Plg=24, Azm=310;
                                                                     (P) Val=-1.15, Plg=20, Azm=211; Best double couple:
                                                                     Mo=1.1*10**18 Nm; NP1: Strike=266, Dip=33, Slip=41; NP2:
                                                                     Strike=140, Dip=69, Slip=116.
16  11 40 37.5   6.941 N  126.744 E   33 N  4.7        1.0   28  MINDANAO, PHILIPPINE ISLANDS
16  12 25 10.1* 71.516 N    3.571 W   10 G  3.3        1.0    9  JAN MAYEN ISLAND REGION
16  12 39 28.6   9.137 S  118.034 E  113    4.6        1.4   33  SUMBAWA REGION, INDONESIA
16  13 05 45.4  10.640 S  115.791 E   33 N  4.3        1.4   23  SOUTH OF BALI, INDONESIA
16  14 07 07.3  11.049 N   86.449 W   33 N  4.6        1.3   46  NEAR COAST OF NICARAGUA. MD 4.7 (SJR).
16  14 44 26.8& 39.368 N   27.378 E    7                       4  TURKEY. <ISK>. MD 2.7 (ISK).
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16  14 44 41.8* 21.260 S  173.929 W   33 N  4.6       1.2   27  TONGA ISLANDS
16  14 49 11.0  22.330 N  142.963 E  155 D  4.4       1.0   34  VOLCANO ISLANDS REGION
16  15 20 39.8* 41.256 N  144.450 E   33 N             0.5    7  HOKKAIDO, JAPAN  REGION
16  16 12 34.0& 61.980 N  133.570 W    0 G                     6  SOUTHERN YUKON TERRITORY, CANADA. <PGC-P>. ML 3.6 (PGC).
16  16 38 47.7&  9.160 S  114.100 E   62                       4  SOUTH OF BALI, INDONESIA. <DJA>.
16  17 14 46.7?  6.77  N  127.27  E   33 N  4.5       1.3    9  PHILIPPINE ISLANDS REGION
16  17 20 22.9* 11.347 S  118.057 E   33 N  4.4       1.4   10  SOUTH OF SUMBAWA, INDONESIA
16  17 27 34.9* 22.633 S   65.917 W  270 ?  3.9       1.2   15  JUJUY PROVINCE, ARGENTINA
16  17 45 17.4& 45.000 N    5.200 E    2                       6  FRANCE. <LDG>. ML 1.9 (LDG).
16  18 07 58.4* 31.850 S  179.084 W  200 G  4.5       1.2   26  KERMADEC ISLANDS REGION
16  18 28 42.1* 27.823 N   53.531 E   33 N  3.9       1.1   13  SOUTHERN IRAN
16  19 49 03.4& 32.710 N  115.913 W    7                      21  CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 2.9 (PAS).
16  19 56 56.9& 32.690 S   71.676 W   25                      13  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).
16  20 01 14.7& 34.453 S   70.359 W  130                      11  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).
16  20 19 56.9& 40.074 N   27.778 E   10                       4  TURKEY. <ISK>. MD 2.6 (ISK).
16  20 42 25.7  51.590 N   16.250 E    5 G             0.9   10  POLAND. ML 3.2 (VIE).
16  20 51 32.4* 24.622 S   69.165 W   90 D  4.3       1.0   18  NORTHERN CHILE
16  21 10 14.8* 13.046 S   78.400 W   33 N  3.9       0.9   13  OFF COAST OF PERU
17  00 21 50.8& 32.675 S   71.644 W   28                      10  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
17  01 02 02.3* 15.598 S  167.971 E  184 *  4.1       1.0   19  VANUATU ISLANDS
17  01 58 15.8& 33.893 S   71.018 W   70                       8  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.0 (GUC).
17  02 28 15.4& 43.100 N    0.600 W    2                      14  PYRENEES. <LDG>. ML 2.9 (STR), 2.2 (LDG). mbLg 2.1 (MDD).
17  04 33 23.9& 36.210 N    5.220 W    0                      14  STRAIT OF GIBRALTAR. <MDD>. mbLg 2.4 (MDD).
17  04 49 04.3& 59.936 N  137.411 W    0 G                     6  SOUTHEASTERN ALASKA. <PGC-P>. ML 3.2 (PGC).
17  04 50 00.7* 18.155 S  177.610 W  400 G  4.0       0.7   14  FIJI ISLANDS REGION
17  05 29 12.6  43.185 N  147.525 E   52 D  5.2       0.8  163  KURIL ISLANDS. Mw 5.1 (HRV). Felt (II) at Yuzhno-Kurilsk,
                                                               Kunashir. Also felt (I JMA) in eastern Hokkaido.
                                                              Centroid, Moment Tensor (HRV): Centroid origin time
                                                               05:29:19.7; Lat 43.34 N; Lon 147.49 E; Dep 58.6; Half-
                                                               duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                               Val=3.94, Plg=44, Azm=19; (N) Val=2.12, Plg=43, Azm=226;
                                                               (P) Val=-6.06, Plg=14, Azm=123; Best double couple:
                                                               Mo=5.0*10**16 Nm; NP1: Strike=172, Dip=49, Slip=26; NP2:
                                                               Strike=64, Dip=71, Slip=136.
17  06 32 57.2& 32.723 S   71.358 W   65                      13  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
17  07 57 58.0& 32.403 S   71.401 W   39                      12  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
17  08 57 28.1& 40.060 N   21.600 E    5                       9  GREECE. <ATH>. MD 3.1 (ATH).
17  09 29 32.5& 45.000 N    5.300 E    2                      20  FRANCE. <LDG>. ML 2.3 (STR), 2.1 (LDG).
17  10 17 46.9  10.423 S  123.710 E   33 N  5.0 4.3   1.3   38  TIMOR REGION, INDONESIA. Mw 5.1 (HRV). Felt (III) at Kupang.
                                                              Centroid, Moment Tensor (HRV): Centroid origin time
                                                               10:17:53.3; Lat 10.41 S; Lon 123.97 E; Dep 20.2; Half-
                                                               duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                               Val=5.16, Plg=60, Azm=90; (N) Val=-0.84, Plg=30, Azm=270;
                                                               (P) Val=-4.32, Plg=0, Azm=180; Best double couple:
                                                               Mo=4.7*10**16 Nm; NP1: Strike=244, Dip=52, Slip=51; NP2:
                                                               Strike=116, Dip=52, Slip=129.
17  11 24 34.9? 18.77  S  173.52  W   33 N  4.2       0.9   12  TONGA ISLANDS
17  12 18 27.1& 45.900 N    2.800 E   14                       9  FRANCE. <LDG>. ML 1.8 (LDG).
17  13 15 32.7&  8.187 N   83.063 W   16    3.5                9  COSTA RICA. <SJR>. MD 4.2 (SJR).
17  13 45 16.0* 26.576 S   70.969 W   33 N  4.2       1.0   12  NEAR COAST OF NORTHERN CHILE
17  14 49 58.5& 33.147 S   70.261 W    7                      12  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.6 (GUC).
17  15 03 23.3  20.690 S   70.425 W   33 N  4.2       1.1   13  NEAR COAST OF NORTHERN CHILE
17  15 14 43.0& 60.179 N  153.311 W  142    3.9                17  SOUTHERN ALASKA. <AEIC>.
17  15 18 19.8& 33.837 S   72.212 W   46                      14  OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.4 (GUC). Felt (III)
                                                               at Cartagena, San Antonio and Santo Domingo.
17  15 26 11.5? 13.29  N  145.71  E   33 N  3.9       1.0   11  MARIANA ISLANDS
17  15 28 35.0  13.232 N  145.528 E   33 N  5.2 5.1   1.2  111  MARIANA ISLANDS. Mw 5.5 (HRV).
                                                              Centroid, Moment Tensor (HRV): Centroid origin time
                                                               15:28:37.5; Lat 13.00 N; Lon 146.06 E; Dep 15.0 Bdy; Half-
                                                               duration 1.2 sec; Principal axes (scale 10**17 Nm): (T)
                                                               Val=1.83, Plg=61, Azm=229; (N) Val=-0.25, Plg=22, Azm=8;
                                                               (P) Val=-1.58, Plg=17, Azm=106; Best double couple:
                                                               Mo=1.7*10**17 Nm; NP1: Strike=226, Dip=34, Slip=132; NP2:
                                                               Strike=358, Dip=65, Slip=65.
17  16 37 58.1& 31.960 S   69.678 W  152                      12  SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 3.5 (GUC).
17  16 43 44.4* 27.142 S  176.885 W  200 G  4.4       1.1   32  KERMADEC ISLANDS REGION
17  17 39 56.1* 18.301 N  146.748 E   33 N  3.6       1.0   12  MARIANA ISLANDS
17  17 55 33.5  29.699 S  178.987 W  330 D  5.1       1.0  149  KERMADEC ISLANDS, NEW ZEALAND. Mw 5.4 (HRV).
                                                              Centroid, Moment Tensor (HRV): Centroid origin time
                                                               17:55:40.1; Lat 29.26 S; Lon 178.96 W; Dep 333.8; Half-
                                                               duration 1.2 sec; Principal axes (scale 10**17 Nm): (T)
                                                               Val=1.65, Plg=75, Azm=194; (N) Val=-0.20, Plg=11, Azm=328;
                                                               (P) Val=-1.45, Plg=11, Azm=60; Best double couple:
                                                               Mo=1.5*10**17 Nm; NP1: Strike=163, Dip=35, Slip=108; NP2:
                                                               Strike=321, Dip=57, Slip=77.
17  18 38 04.7  36.854 N   83.691 W    5 G             0.5   11  TENNESSEE. mbLg 3.0 (GS). Felt in Bell and Knox Counties,
                                                               Kentucky.
17  19 08 28.2& 36.360 N    1.980 W    8                      14  WESTERN MEDITERRANEAN SEA. <MDD>. mbLg 2.3 (MDD).
17  19 32 12.5  39.068 N   17.794 E   10 G  4.1       1.3  105  SOUTHERN ITALY. ML 4.2 (PDG), 4.0 (ROM).
17  19 52 21.8&  8.329 N   82.801 W   20                       9  PANAMA-COSTA RICA BORDER REGION. <SJR>. MD 4.2 (SJR).
17  20 25 41.0& 47.400 N    6.800 E    2                      10  FRANCE. <LDG>. ML 1.9 (LDG).
17  20 26 09.6* 85.519 N   83.328 E   10 G  4.5       1.2   12  NORTH OF SEVERNAYA ZEMLYA
17  20 42 54.1*  5.224 S  142.175 E   33 N             0.3    6  NEW GUINEA, PAPUA NEW GUINEA
17  20 53 45.3& 17.331 N   98.681 W   41                      19  GUERRERO, MEXICO. <UNM>. MD 3.7 (UNM).
17  20 58 14.3* 55.693 N  166.063 E   33 N  3.8       0.8   11  KOMANDORSKY ISLANDS REGION
17  21 09 35.7  38.866 N   21.596 E    5 G  3.5       1.5   22  GREECE. ML 3.4 (ATH).
17  22 01 50.7& 44.889 N    6.605 E    0                      20  FRANCE. <GEN>. ML 2.3 (GEN), 2.1 (LDG).
17  23 35 25.4& 38.990 N   23.270 E   41                       6  GREECE. <ATH>.
17  23 54 56.6& 44.374 N    7.258 E   12                       6  NORTHERN ITALY. <GEN>. ML 1.9 (GEN).
18  00 09 13.1& 44.343 N    7.197 E   15                       8  NORTHERN ITALY. <GEN>. ML 2.1 (GEN).
18  00 16 20.0& 36.810 N  121.520 W    6                      10  CENTRAL CALIFORNIA. <GM-P>. ML 2.8 (GM). Double event.
18  00 33 30.3* 22.034 S  170.052 E   53 *  4.9 5.1   1.2   48  LOYALTY ISLANDS REGION. Mw 5.5 (HRV).
                                                              Centroid, Moment Tensor (HRV): Centroid origin time
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00:33:31.6; Lat 22.26 S; Lon 170.04 E; Dep 18.0 Bdy; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=1.96, Plg=69, Azm=358; (N) Val=-0.16, Plg=10, Azm=115; (P) Val=-1.80, Plg=18, Azm=209; Best double couple: Mo=1.9*10**17 Nm; NP1: Strike=314, Dip=28, Slip=111; NP2: Strike=110, Dip=64, Slip=79.

18	00	54	40.7*	1.032	N	120.258	E	33	N	4.9		0.9	19 MINAHASSA PENINSULA, SULAWESI
18	01	05	19.4*	52.254	N	174.499	W	47	D	4.4		1.1	25 ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.0 (PMR).
18	01	11	57.9*	2.990	S	141.796	E	10	G			1.1	7 NEAR N COAST OF NEW GUINEA, PNG.
18	01	29	46.8	13.137	N	145.626	E	57	D	4.5		1.1	41 MARIANA ISLANDS
18	01	38	35.1&	47.400	N	6.900	E	2					7 FRANCE. <LDG>. ML 1.7 (LDG).
18	02	01	19.1&	40.087	S	177.421	E	10	G			0.4	10 OFF E. COAST OF N. ISLAND, N.Z. ML 4.0 (WEL).
18	02	28	41.5&	33.996	S	72.376	W	33					13 OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
18	02	30	48.4&	46.800	N	6.700	E	2					11 SWITZERLAND. <LDG>. ML 1.8 (LDG).
18	03	29	05.8*	11.480	S	41.336	E	33	N			0.8	10 NORTHWEST OF MADAGASCAR
18	04	11	27.7	1.575	N	127.627	E	227		5.1		1.0	61 HALMAHERA, INDONESIA
18	04	22	23.3&	37.780	N	4.640	W	2					21 SPAIN. <MDD>. mbLg 3.1 (MDD).
18	05	02	26.3&	32.778	S	70.152	W	116					13 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
18	05	22	56.0?	12.30	N	144.09	E	33	N	3.6		1.1	7 SOUTH OF MARIANA ISLANDS
18	06	46	59.4	23.234	N	143.589	E	33	N	4.7	4.0	1.1	45 VOLCANO ISLANDS REGION
18	06	54	34.3*	39.489	N	73.390	E	33	N	4.0		1.2	16 TAJIKISTAN-XINJIANG BORDER REG.
18	07	00	53.4	33.405	N	87.255	W	1	G	4.8		1.0	66 ALABAMA. mbLg 4.0 (GS). Mine collapse.
18	07	17	16.2	39.425	N	73.684	E	66	*	4.6		0.9	42 TAJIKISTAN-XINJIANG BORDER REG.
18	07	58	48.4?	7.89	S	156.16	E	33	N	4.0		1.1	10 SOLOMON ISLANDS
18	08	48	36.7&	36.647	N	121.268	W	11		3.6			40 CENTRAL CALIFORNIA. <GM-P>. Mw 4.3 (BRK). ML 4.3 (GM), 4.3 (BRK). Felt at Carmel, Castroville, Hollister, Monterey, Salinas and Seaside.

Moment Tensor (BRK): Dep 11; Principal axes (scale 10**15 Nm): (T) Val=2.96, Plg=1, Azm=93; (N) Val=0.00, Plg=86, Azm=201; (P) Val=-2.96, Plg=4, Azm=3; Best double couple: Mo=3.0*10**15 Nm; NP1: Strike=48, Dip=88, Slip=-4; NP2: Strike=138, Dip=86, Slip=-178.

18	09	06	46.8&	34.716	S	71.753	W	35					11 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
18	10	27	04.1	1.139	N	120.777	E	602		4.8		0.8	41 MINAHASSA PENINSULA, SULAWESI
18	11	54	06.6&	42.369	N	19.422	E	22					9 NORTHWESTERN BALKAN REGION. <PDG>. ML 1.9 (PDG).
18	12	08	49.3?	7.35	S	127.93	E	100	G	3.5		1.4	8 BANDA SEA
18	12	15	48.6*	30.419	S	179.158	W	350	G	4.1		1.1	19 KERMADEC ISLANDS REGION
18	12	32	52.0&	44.668	N	9.524	E	0					20 NORTHERN ITALY. <GEN>. ML 2.5 (GEN), 2.4 (LDG).
18	12	53	22.2&	34.368	S	70.685	W	107					12 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
18	13	03	55.4&	37.070	N	3.640	W	6					12 SPAIN. <MDD>. mbLg 2.7 (MDD).
18	13	11	26.3*	17.772	S	168.390	E	33	N	4.4		1.1	13 VANUATU ISLANDS
18	13	25	47.2&	35.800	N	121.138	W	5					5 CENTRAL CALIFORNIA. <GM-P>. MD 2.8 (GM).
18	13	26	19.0&	19.170	N	67.680	W	84					9 MONA PASSAGE. <MPR>. MD 3.9 (MPR).
18	13	32	36.4*	14.437	S	166.753	E	33	N			0.3	6 VANUATU ISLANDS
18	14	08	31.5&	41.263	N	20.163	E	12					11 ALBANIA. <PDG>. ML 2.6 (PDG).
18	14	12	42.2*	3.337	S	145.896	E	33	N	4.3		1.4	12 NEAR N COAST OF NEW GUINEA, PNG.
18	14	50	36.0	27.790	S	126.408	E	10	G			0.9	16 WESTERN AUSTRALIA
18	15	07	18.3&	30.816	S	70.436	W	43					12 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
18	16	24	25.3	22.270	S	170.354	E	33	N	5.0	5.3	1.2	51 LOYALTY ISLANDS REGION. Mw 5.7 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 16:24:31.5; Lat 22.26 S; Lon 170.14 E; Dep 15.0 Bdy; Half-duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=3.69, Plg=67, Azm=11; (N) Val=-0.15, Plg=6, Azm=115; (P) Val=-3.54, Plg=22, Azm=207; Best double couple: Mo=3.6*10**17 Nm; NP1: Strike=309, Dip=23, Slip=105; NP2: Strike=112, Dip=68, Slip=84.

18	16	54	54.4*	22.318	S	170.119	E	33	N	4.6		1.2	24 LOYALTY ISLANDS REGION
18	16	56	36.0&	44.796	N	7.506	E	43					15 NORTHERN ITALY. <GEN>.
18	16	57	06.9&	31.588	S	70.796	W	107					12 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
18	17	35	42.5	41.598	N	141.297	E	84	*	4.8		0.9	63 HOKKAIDO, JAPAN REGION. Felt (II JMA) in eastern Aomori and (I JMA) in northern Iwate Prefectures, Honshu. Also felt (I JMA) in parts of southern Hokkaido.
18	17	39	13.8&	31.953	S	70.265	W	120					13 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.7 (GUC).
18	17	45	36.4*	45.423	N	14.382	E	10	G			0.1	5 NORTHWESTERN BALKAN REGION. ML 2.3 (VIE).
18	19	41	30.4	18.862	N	67.220	W	33	N	4.9	4.4	0.9	128 MONA PASSAGE. Mw 5.0 (HRV). MD 4.5 (MPR). Felt (VI) throughout Puerto Rico.

Centroid, Moment Tensor (HRV): Centroid origin time 19:41:30.7; Lat 18.93 N; Lon 67.33 W; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=2.58, Plg=0, Azm=139; (N) Val=1.09, Plg=3, Azm=49; (P) Val=-3.67, Plg=87, Azm=229; Best double couple: Mo=3.1*10**16 Nm; NP1: Strike=232, Dip=45, Slip=-86; NP2: Strike=47, Dip=45, Slip=-94.

18	20	11	18.5	41.779	N	15.884	E	10	G			1.4	56 SOUTHERN ITALY. ML 3.6 (LDG), 3.6 (PDG), 3.2 (ROM).
18	20	22	23.8&	46.500	N	1.300	E	4					9 FRANCE. <LDG>. ML 2.0 (LDG).
18	20	26	05.0*	21.655	N	143.308	E	300	G	3.8		0.8	10 MARIANA ISLANDS REGION
18	20	33	26.2*	40.108	S	177.575	E	33	N	3.9		0.4	16 OFF E. COAST OF N. ISLAND, N.Z. ML 4.4 (WEL). Felt in Hawke's Bay.
18	20	40	21.7&	33.085	S	70.306	W	108					13 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
18	20	56	07.2&	39.150	N	24.840	E	5					6 AEGEAN SEA. <ATH>. ML 3.0 (ATH).
18	21	25	48.9&	33.057	S	71.303	W	57					11 NEAR COAST OF CENTRAL CHILE. <GUC>.
18	21	33	53.1&	31.996	S	69.894	W	135					13 SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 3.8 (GUC).
18	21	34	47.4&	36.648	N	121.270	W	10					17 CENTRAL CALIFORNIA. <GM-P>. MD 3.3 (GM). ML 3.4 (BRK).
18	21	49	42.2&	35.680	N	22.910	E	24					7 CENTRAL MEDITERRANEAN SEA. <ATH>. ML 3.7 (ATH).
18	22	12	29.0&	34.103	N	119.162	W	10					4 SOUTHERN CALIFORNIA. <PAS-P>. ML 2.7 (PAS). Felt in the Oxnard area.
18	22	24	16.7*	51.844	N	174.081	W	33	N	4.1		1.0	13 ANDREANOF ISLANDS, ALEUTIAN IS.
18	22	40	30.5&	38.310	N	21.790	E	5					11 GREECE. <ATH>. ML 3.2 (ATH).
18	22	41	24.0	45.522	N	14.473	E	10	G			1.2	15 NORTHWESTERN BALKAN REGION. ML 2.9 (VIE), 2.9 (ZAG), 2.5 (LJU), 2.5 (TRI).
18	22	52	59.2&	32.709	N	115.908	W	7					21 CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.0 (PAS).
18	22	53	35.1&	34.293	S	70.114	W	5					11 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
19	00	15	34.5&	63.471	N	150.940	W	4					37 CENTRAL ALASKA. <AEIC>. ML 2.7 (AEIC), 3.0 (PMR).

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19  00 27 32.5* 27.156 N   96.840 E   96 ?            0.5    9  MYANMAR-INDIA BORDER REGION
19  01 03 35.4* 22.208 S   47.112 E   10 G  4.0       0.6    9  MADAGASCAR
19  01 24 10.0* 51.828 N  173.952 W   33 N  4.7       1.0   31  ANDREANOF ISLANDS, ALEUTIAN IS.
19  01 29 21.8& 46.000 N    2.800 E    2                     57  FRANCE. <LDG>. ML 3.3 (LDG), 3.0 (STR).
19  01 45 00.6? 51.89  N  173.95  W   33 N             1.4   10  ANDREANOF ISLANDS, ALEUTIAN IS.
19  03 16 44.9* 55.994 S   95.888 E   10 G  4.4       1.4   21  SOUTH INDIAN OCEAN
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).
                                                                 Broadband Source Parameters (GS): Dep 75; NP1: Strike=150,
                                                                  Dip=35, Slip=105; NP2: Strike=312, Dip=56, Slip=80;
                                                                  Radiated energy 4.6*10**13 Nm. Complex earthquake, with two
                                                                  larger events occurring about 5 and 10 seconds after onset,
                                                                  observed on broadband displacement seismograms.
                                                                 Moment Tensor (GS): Dep 78; Principal axes (scale 10**19
                                                                  Nm): (T) Val=4.07, Plg=71, Azm=226; (N) Val=-0.85, Plg=5,
                                                                  Azm=330; (P) Val=-3.22, Plg=19, Azm=61; Best double couple:
                                                                  Mo=3.6*10**19 Nm; NP1: Strike=159, Dip=27, Slip=101; NP2:
                                                                  Strike=328, Dip=64, Slip=85.
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  03:35:43.4; Lat 4.72 S Fix; Lon 153.66 E Fix; Dep 87.5;
                                                                  Half-duration 7.5 sec; Principal axes (scale 10**19 Nm):
                                                                  (T) Val=3.57, Plg=76, Azm=241; (N) Val=0.26, Plg=1,
                                                                  Azm=145; (P) Val=-3.84, Plg=14, Azm=55; Best double couple:
                                                                  Mo=3.7*10**19 Nm; NP1: Strike=143, Dip=31, Slip=87; NP2:
                                                                  Strike=326, Dip=59, Slip=92.
                                                                 Scalar Moment (PPT): Mo=3.7*10**19 Nm.
19  04 12 08.3& 36.550 N    7.560 W   15                     8  STRAIT OF GIBRALTAR. <MDD>. mbLg 2.3 (MDD).
19  04 33 43.6*  4.544 S  153.488 E  100 G  4.3       0.7   13  NEW IRELAND REGION, P.N.G.
19  04 55 33.6* 38.724 N   69.712 E   33 N  4.6       1.2   12  TAJIKISTAN
19  04 57 57.9& 38.360 N   21.810 E    5                     7  GREECE. <ATH>. MD 2.9 (ATH).
19  05 00 13.3*  4.481 S  153.503 E  111 D  4.7       0.7   19  NEW IRELAND REGION, P.N.G.
19  05 21 13.4& 36.050 N    4.610 W   16                    11  STRAIT OF GIBRALTAR. <MDD>. mbLg 2.0 (MDD).
19  05 44 57.3?  4.87  S  153.80  E  100 G  4.0       0.7    9  NEW IRELAND REGION, P.N.G.
19  05 53 30.6& 38.790 N   21.460 E    5                    11  GREECE. <ATH>. ML 3.6 (ATH).
19  06 10 42.4   4.476 S  153.468 E  101 D  4.7       0.8   47  NEW IRELAND REGION, P.N.G.
19  06 33 36.5? 11.86  N  143.44  E   33 N  4.6       1.4   14  SOUTH OF MARIANA ISLANDS
19  06 34 34.8   4.506 S  153.491 E  100 G  5.1       0.8   56  NEW IRELAND REGION, P.N.G.
19  07 20 40.0& 45.940 N   15.430 E    3                     4  NORTHWESTERN BALKAN REGION. <ZAG>. ML 1.0 (LJU).
19  07 23 17.7*  4.623 S  153.693 E  100 G  3.9       0.9   10  NEW IRELAND REGION, P.N.G.
19  07 29 25.2& 44.334 N    7.295 E   12                     5  NORTHERN ITALY. <GEN>. ML 1.8 (GEN).
19  07 48 36.2  34.369 N   26.109 E   93      3.5       1.1   41  CRETE
19  08 03 50.3& 36.745 N  121.431 W    7                    14  CENTRAL CALIFORNIA. <GM-P>. MD 2.9 (GM).
19  08 06 48.3*  1.007 S  124.197 E   33 N  4.0       0.6    6  SOUTHERN MOLUCCA SEA
19  08 18 14.7? 41.86  N  138.98  E   98 ?             1.0    8  EASTERN SEA OF JAPAN. Felt (I JMA) on Okushiri.
19  08 30 50.1* 15.002 N   93.521 W   10 G             1.5    5  NEAR COAST OF CHIAPAS, MEXICO. MD 4.1 (UNM).
19  08 34 29.0& 38.920 N   21.530 E    5                     8  GREECE. <ATH>. MD 3.0 (ATH).
19  08 43 40.9  39.378 S  176.457 E   33 N             0.8   15  NORTH ISLAND, NEW ZEALAND. ML 4.2 (WEL).
19  08 55 36.6& 18.980 N   65.210 W   70                     8  PUERTO RICO REGION. <MPR>. MD 3.5 (MPR).
19  08 58 14.3   4.430 S  153.429 E  100 G  4.8       1.0   61  NEW IRELAND REGION, P.N.G.
19  09 54 23.7* 30.738 N  141.909 E   33 N  4.3       0.4   10  SOUTH OF HONSHU, JAPAN
19  10 42 50.3* 22.428 S   67.426 W  147 ?             1.1   12  CHILE-BOLIVIA BORDER REGION. Felt (III) at Calama and San
                                                                  Pedro de Atacama, Chile.
19  10 53 41.3*  4.659 S  153.681 E  100 G  4.5       0.7   15  NEW IRELAND REGION, P.N.G.
19  10 55 31.4  34.755 N   24.092 E   33 N  4.3       1.3   55  CRETE. MD 4.1 (ATH).
19  11 02 45.3   4.524 S  153.567 E  100 G  4.5       0.8   21  NEW IRELAND REGION, P.N.G.
19  11 13 50.8  48.794 N   10.168 E   10 G             0.9    9  GERMANY. ML 2.8 (LDG), 2.6 (GRF), 2.5 (STR), 2.5 (VIE), 2.3
                                                                  (FUR).
19  11 24 52.0*  6.948 S  154.927 E   33 N  4.1       1.1   12  SOLOMON ISLANDS
19  11 41 29.8   4.483 S  153.520 E  100 G  4.5       0.8   26  NEW IRELAND REGION, P.N.G.
19  11 56 18.4& 34.534 S   70.635 W  112                    13  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.5 (GUC).
19  12 01 58.7  21.316 S  169.228 E   33 N  4.9 5.0   1.0   70  LOYALTY ISLANDS REGION. Mw 5.4 (HRV).
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  12:02:03.4; Lat 21.33 S; Lon 169.05 E; Dep 46.6; Half-
                                                                  duration 1.0 sec; Principal axes (scale 10**17 Nm): (T)
                                                                  Val=1.22, Plg=73, Azm=34; (N) Val=0.10, Plg=11, Azm=164;
                                                                  (P) Val=-1.32, Plg=13, Azm=257; Best double couple:
                                                                  Mo=1.3*10**17 Nm; NP1: Strike=1, Dip=34, Slip=110; NP2:
                                                                  Strike=157, Dip=59, Slip=77.
19  12 42 36.0? 55.76  S   95.39  E   10 G             1.1    8  SOUTH INDIAN OCEAN
19  14 23 26.3?  6.36  S  154.34  E   33 N  4.0       1.1    6  SOLOMON ISLANDS
19  14 38 39.0*  4.563 S  153.721 E  100 G  4.1       0.6   10  NEW IRELAND REGION, P.N.G.
19  14 44 09.0*  6.747 S  154.731 E   33 N  4.0       0.7   12  SOLOMON ISLANDS
19  14 51 15.6*  4.518 S  153.705 E  100 G  4.2       1.1    9  NEW IRELAND REGION, P.N.G.
19  15 12 47.7*  1.666 S   12.805 W   10 G             0.5   10  NORTH OF ASCENSION ISLAND
19  15 50 46.1* 36.522 N   70.227 E  206 ?  4.2       0.8    9  HINDU KUSH REGION, AFGHANISTAN
19  16 01 05.3& 37.180 N   20.950 E    5                     4  IONIAN SEA. <ATH>. MD 3.2 (ATH).
19  16 12 08.1& 31.806 S   70.192 W  112                    10  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.0 (GUC).
19  16 17 32.1* 34.846 N   24.711 E   33 N  3.4       1.3   13  CRETE. MD 3.3 (ATH).
19  16 24 28.0& 47.090 N    6.230 E    2 G                    5  FRANCE. <STR>. ML 2.0 (STR).
19  16 28 24.2  10.903 S  113.248 E   33 N  4.0       1.2   17  SOUTH OF JAWA, INDONESIA
19  16 39 09.2* 12.119 S  166.302 E   33 N  4.7 4.5   1.0   26  SANTA CRUZ ISLANDS
19  17 04 31.4*  4.716 S  153.767 E  100 G  4.2       1.0   11  NEW IRELAND REGION, P.N.G.
19  18 13 15.7   4.583 S  153.601 E  100 G  4.9       0.9   59  NEW IRELAND REGION, P.N.G. Mw 5.1 (HRV).
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  18:13:10.3; Lat 5.08 S; Lon 154.05 E; Dep 87.3; Half-
                                                                  duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                  Val=4.44, Plg=41, Azm=129; (N) Val=1.83, Plg=45, Azm=278;
                                                                  (P) Val=-6.26, Plg=16, Azm=25; Best double couple:
                                                                  Mo=5.3*10**16 Nm; NP1: Strike=158, Dip=49, Slip=159; NP2:
                                                                  Strike=262, Dip=75, Slip=43.
19  18 32 31.0& 17.392 N   92.661 W   96                    10  CHIAPAS, MEXICO. <UNM>. MD 4.4 (UNM).
19  18 59 04.9*  4.460 S  153.627 E  100 G  4.2       0.6   13  NEW IRELAND REGION, P.N.G.
19  19 04 43.7& 42.578 N   18.996 E   13                     9  NORTHWESTERN BALKAN REGION. <PDG>. ML 1.3 (PDG).
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19  19 18 41.6& 33.336 S   69.832 W    7                    11  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.8 (GUC).
19  19 42 25.5? 20.94  S  169.13  E   33 N  4.1       1.3    9  VANUATU ISLANDS
19  20 01 08.1& 18.230 N   68.350 W   96                     8  MONA PASSAGE. <MPR>. MD 3.3 (MPR).
19  20 26 12.5& 33.963 S   70.453 W  114                     9  CHILE-ARGENTINA BORDER REGION. <GUC>.
19  20 35 17.2& 35.270 N   27.090 E   37                     9  DODECANESE ISLANDS. <ATH>. MD 3.9 (ATH).
19  20 38 23.8*  5.465 N   94.150 E   72 D  4.2       0.9    9  NORTHERN SUMATERA, INDONESIA
19  21 37 27.4*  4.417 S  103.031 E   93 *  4.8       1.0   40  SOUTHERN SUMATERA, INDONESIA
19  21 45 07.9& 33.616 S   68.784 W    5                    12  MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 4.1 (GUC).
19  21 47 18.1*  4.928 S  153.912 E  100 G  4.2       0.8   19  NEW IRELAND REGION, P.N.G.
19  21 52 01.8? 15.65  N   98.97  W   10 G           1.0   15  OFF COAST OF GUERRERO, MEXICO. MD 4.2 (UNM).
19  22 10 57.3* 43.889 N  128.397 W   10 G  4.0       1.3   25  OFF COAST OF OREGON
19  22 25 31.7& 36.066 N  117.832 W    3                    31  CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.3 (PAS).
19  23 36 12.9*  6.948 N  123.572 E   33 N  4.8       1.2   26  MINDANAO, PHILIPPINE ISLANDS
20  00 19 22.1& 36.680 N    4.480 W   71                    20  STRAIT OF GIBRALTAR. <MDD>.
20  00 42 01.0& 33.408 S   70.914 W   69                    12  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.2 (GUC).
20  00 53 56.2& 36.061 N  117.831 W    3                    46  CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.6 (PAS).
20  02 13 01.5  26.682 N   96.473 E   86 *  4.5       0.6   58  MYANMAR
20  02 39 55.7? 57.46  S   25.06  W   33 N  4.6       1.3   12  SOUTH SANDWICH ISLANDS REGION
20  02 43 45.5& 38.710 N   20.480 E    5                     8  GREECE. <ATH>. MD 2.8 (ATH).
20  02 45 20.4  35.187 N   27.874 E   53    4.1       1.2   82  DODECANESE ISLANDS. MD 4.3 (ATH), 3.9 (ISK).
20  03 57 22.7* 35.406 N   27.871 E   33 N           1.5   10  DODECANESE ISLANDS. MD 3.7 (ATH).
20  05 11 57.7& 18.860 N   67.230 W   17                     7  MONA PASSAGE. <MPR>. MD 3.2 (MPR).
20  05 59 25.7* 52.192 N  173.355 E   33 N  4.1       1.2   28  NEAR ISLANDS, ALEUTIAN ISLANDS. ML 4.2 (PMR).
20  06 01 15.2* 46.040 N  126.541 W   10 G           0.7   17  OFF COAST OF WASHINGTON. MD 2.8 (SEA).
20  06 02 22.0* 14.947 S  173.177 W   33 N  5.0 5.1   1.0   47  SAMOA ISLANDS REGION. Mw 5.4 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                06:02:24.2; Lat 14.99 S; Lon 173.25 W; Dep 16.2; Half-
                                                                duration 1.1 sec; Principal axes (scale 10**17 Nm): (T)
                                                                Val=1.14, Plg=36, Azm=320; (N) Val=0.37, Plg=37, Azm=197;
                                                                (P) Val=-1.51, Plg=33, Azm=78; Best double couple:
                                                                Mo=1.3*10**17 Nm; NP1: Strike=111, Dip=37, Slip=3; NP2:
                                                                Strike=18, Dip=88, Slip=127.
20  06 53 50.2  44.772 N    7.682 E   10 G           0.6    8  NORTHERN ITALY. ML 2.1 (GEN).
20  07 02 58.3  49.197 N    6.821 E   10 G           1.0    6  GERMANY. ML 2.3 (FBB), 2.0 (UCC).
20  07 33 40.5  17.624 N  101.522 W   33 N           1.1   27  NEAR COAST OF GUERRERO, MEXICO. MD 4.4 (UNM).
20  07 38 35.0  52.291 N  179.801 E  170 D  4.7       0.8   82  RAT ISLANDS, ALEUTIAN ISLANDS
20  07 58 55.0  26.495 N   92.725 E   33 N  4.5       0.6   17  NORTHEASTERN INDIA
20  08 10 10.4& 42.815 N   17.854 E   12                     9  ADRIATIC SEA. <PDG>. ML 2.5 (PDG).
20  09 18 20.9? 12.42  N  143.55  E   33 N  4.4       1.0    7  SOUTH OF MARIANA ISLANDS
20  09 29 14.9   4.481 S  153.525 E  116 D  4.7       0.8   43  NEW IRELAND REGION, P.N.G.
20  09 39 21.2* 52.488 N   30.376 W   10 G  3.2       0.9    9  NORTHERN MID-ATLANTIC RIDGE
20  09 57 49.9& 31.768 S   69.907 W  126                    11  SAN JUAN PROVINCE, ARGENTINA. <GUC>.
20  10 19 41.3& 45.383 N   14.387 E   10 G           0.2    5  NORTHWESTERN BALKAN REGION. ML 1.7 (LJU).
20  10 36 15.9& 33.693 S   72.546 W   36                     5  OFF COAST OF CENTRAL CHILE. <GUC>.
20  10 46 47.5& 62.892 N  148.741 W   72                    56  CENTRAL ALASKA. <AEIC>.
20  11 29 07.3  41.861 S  174.611 E   33 N           0.5   12  COOK STRAIT, NEW ZEALAND. ML 3.9 (WEL).
20  12 06 22.5  40.742 N   29.819 E   10 G           0.8    8  TURKEY. MD 3.0 (ISK).
20  12 09 01.1& 34.209 N  119.579 W    6 G                   24  SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
20  12 27 56.7  45.943 N   15.049 E   10 G           0.1    7  NORTHWESTERN BALKAN REGION. ML 2.1 (VIE), 1.3 (LJU).
20  12 36 49.1* 57.292 N  120.634 E   10 G  4.5       1.0   15  SOUTHEASTERN SIBERIA, RUSSIA
20  13 04 36.4  43.824 N  110.987 W    5 G           0.7   21  WYOMING. ML 2.9 (GS), 3.2 (BUT).
20  13 13 25.2& 63.509 N  147.249 W   10                    66  CENTRAL ALASKA. <AEIC>. ML 3.4 (AEIC), 3.7 (PMR).
20  13 23 21.4& 36.067 N  117.834 W    3                     6  CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 2.9 (PAS).
20  13 28 00.1  57.552 N  120.355 E   10 G  4.8       1.3   43  SOUTHEASTERN SIBERIA, RUSSIA
20  13 28 49.2*  4.607 S  153.634 E  100 G  4.6       0.8    9  NEW IRELAND REGION, P.N.G.
20  13 39 52.9  57.448 N  120.456 E   10 G  4.6       0.9   32  SOUTHEASTERN SIBERIA, RUSSIA
20  13 43 48.9  17.752 S  178.930 W  600 G  4.6       0.7   87  FIJI ISLANDS REGION
20  14 00 31.6? 28.25  S   74.32  E   10 G  4.5       0.7   10  MID-INDIAN RIDGE
20  14 59 14.9& 32.100 S   71.181 W   80                    13  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
20  15 38 55.9& 33.164 S   70.266 W    7                    10  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.1 (GUC).
20  15 52 12.5& 55.093 N  161.024 W   83                    13  ALASKA PENINSULA. <AEIC>.
20  17 04 19.4& 44.294 N    7.313 E   14                     4  NORTHERN ITALY. <GEN>. ML 1.7 (GEN).
20  17 16 39.1*  8.984 S  158.138 E   88 ?  4.2       0.8   18  SOLOMON ISLANDS
20  17 56 13.7  39.437 N   26.361 E   10 G           0.9    7  TURKEY. MD 3.0 (ISK).
20  18 10 12.4& 34.138 N  119.170 W    2                    31  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS). Felt in the
                                                                Oxnard area.
20  18 20 07.9& 60.273 N  152.223 W   77    4.4           132  SOUTHERN ALASKA. <AEIC>. Felt (III) at Homer.
20  19 24 27.2& 10.488 N   62.121 W    3                     4  NEAR COAST OF VENEZUELA. <TRN>. MD 3.2 (TRN).
20  19 52 05.4& 59.186 N  152.901 W   71    2.6           53  SOUTHERN ALASKA. <AEIC>.
20  20 21 31.5& 38.830 N   21.780 E    5                     6  GREECE. <ATH>. MD 2.9 (ATH).
20  20 55 07.1* 39.902 N  142.012 E  100 G  3.3       1.4   13  NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) in many parts
                                                                of Iwate Prefecture.
20  20 55 39.3& 34.274 S   71.151 W   64                    13  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).
20  21 16 45.7* 57.468 N  121.180 E   10 G           1.1    7  SOUTHEASTERN SIBERIA, RUSSIA
20  21 56 11.1* 16.041 N   97.658 W   33 N           1.3    5  OAXACA, MEXICO. MD 3.8 (UNM).
20  22 09 20.6  37.061 N   68.403 E   33 N  5.0 4.4   1.0  185  AFGHANISTAN-TAJIKISTAN BORD REG. Mw 5.0 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                22:09:21.1; Lat 37.18 N; Lon 68.22 E; Dep 34.1; Half-
                                                                duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                Val=3.81, Plg=64, Azm=261; (N) Val=-0.11, Plg=5, Azm=0; (P)
                                                                Val=-3.70, Plg=26, Azm=92; Best double couple:
                                                                Mo=3.8*10**16 Nm; NP1: Strike=194, Dip=20, Slip=104; NP2:
                                                                Strike=359, Dip=71, Slip=85.
20  22 32 59.0& 44.512 N    6.868 E    4                     4  FRANCE. <GEN>. ML 1.7 (GEN).
20  22 49 03.9& 11.273 N   61.620 W    3                     5  WINDWARD ISLANDS. <TRN>. MD 3.2 (TRN).
20  23 10 04.1  14.801 S   75.865 W   33 N  5.2 4.9   0.9  143  NEAR COAST OF PERU. Mw 5.4 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                23:10:07.9; Lat 14.64 S; Lon 76.26 W; Dep 43.9; Half-
                                                                duration 1.1 sec; Principal axes (scale 10**17 Nm): (T)
                                                                Val=1.14, Plg=69, Azm=90; (N) Val=0.21, Plg=10, Azm=334;
                                                                (P) Val=-1.34, Plg=18, Azm=240; Best double couple:
                                                                Mo=1.2*10**17 Nm; NP1: Strike=315, Dip=28, Slip=69; NP2:
                                                                Strike=158, Dip=64, Slip=101.
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20	23	12	11.6*	4.748	S	153.778	E	100	G	4.2	0.9	15	NEW IRELAND REGION, P.N.G.
20	23	41	28.8*	57.244	N	120.934	E	10	G	3.2	1.0	12	SOUTHEASTERN SIBERIA, RUSSIA
20	23	49	00.2*	36.932	N	2.396	W	10	G		1.2	8	STRAIT OF GIBRALTAR. mbLg 2.4 (MDD).
21	00	05	47.4*	28.664	N	128.457	E	67	*	3.6	0.6	6	RYUKYU ISLANDS
21	00	50	32.7&	54.728	N	160.692	W	16		4.1		70	ALASKA PENINSULA. <AEIC>. ML 4.3 (AEIC), 4.4 (PMR). Felt at Sand Point.
21	00	56	22.1?	14.26	S	171.65	E	33	N	4.6	0.9	8	VANUATU ISLANDS REGION
21	01	18	37.9*	36.502	N	76.652	E	33	N	4.1	0.8	13	KASHMIR-XINJIANG BORDER REGION
21	02	07	08.3&	44.900	N	6.700	E	2				8	FRANCE. <LDG>. ML 1.6 (LDG).
21	02	13	50.6&	37.090	N	36.224	E	10	G			10	TURKEY. <ISK>. MD 3.7 (ISK).
21	02	29	41.5&	61.608	N	150.059	W	30				65	SOUTHERN ALASKA. <AEIC>. ML 3.4 (AEIC), 3.4 (PMR).
21	03	39	26.3*	43.544	N	146.719	E	53	D	4.1	1.0	20	KURIL ISLANDS
21	03	41	16.5&	16.572	N	99.275	W	33				10	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.8 (UNM).
21	04	13	05.3*	16.425	N	121.126	E	33	N	4.6	1.0	26	LUZON, PHILIPPINE ISLANDS. Felt at Baguio.
21	04	18	51.9&	16.144	N	98.226	W	5				6	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.7 (UNM).
21	04	30	48.2&	45.000	N	5.800	E	2				39	FRANCE. <LDG>. ML 2.6 (STR), 2.5 (LDG).
21	04	36	21.7&	34.106	S	70.280	W	7				9	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.5 (GUC).
21	05	20	53.2&	16.775	N	94.974	W	122				5	OAXACA, MEXICO. <UNM>. MD 3.9 (UNM).
21	06	05	30.3&	19.010	N	68.060	W	25				6	NORTH ATLANTIC OCEAN. <MPR>. MD 3.0 (MPR).
21	06	13	37.6?	17.73	S	178.49	W	600	G	4.3	0.9	12	FIJI ISLANDS REGION
21	06	20	40.2?	13.23	S	73.95	W	33	N	3.9	1.0	9	CENTRAL PERU
21	06	44	44.6*	10.235	S	75.343	W	33	N	4.2	1.2	20	CENTRAL PERU
21	06	58	22.8*	36.390	N	76.712	E	33	N	4.3	1.1	17	KASHMIR-XINJIANG BORDER REGION
21	07	51	05.2*	4.475	S	153.555	E	100	G	4.3	0.8	19	NEW IRELAND REGION, P.N.G.
21	08	08	44.6*	29.469	N	105.521	E	33	N	3.7	0.5	6	SICHUAN, CHINA
21	08	26	06.1&	38.020	N	21.490	E	5				10	GREECE. <ATH>. ML 3.3 (ATH).
21	08	52	52.0&	17.197	N	101.447	W	5				9	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.8 (UNM).
21	09	02	10.3*	21.445	S	169.232	E	33	N	4.2	1.3	13	LOYALTY ISLANDS REGION
21	09	40	37.9&	43.050	N	0.170	W	2	G			6	PYRENEES. <STR>. ML 2.8 (STR), 2.2 (LDG).
21	10	13	42.4%	18.494	S	65.466	E	10	G		1.3	14	MAURITIUS-REUNION REGION
21	10	38	54.9&	18.150	N	66.860	W	19				8	PUERTO RICO REGION. <MPR>. MD 3.0 (MPR).
21	11	10	13.6	53.042	N	0.165	E	10	G		0.9	23	UNITED KINGDOM. ML 3.3 (LDG).
21	11	13	06.0*	12.114	N	143.757	E	33	N	4.5	1.2	25	SOUTH OF MARIANA ISLANDS
21	11	26	59.5?	36.47	N	71.14	E	271	?	3.9	0.8	10	AFGHANISTAN-TAJIKISTAN BORD REG.
21	11	41	50.6&	44.379	N	7.285	E	11				9	NORTHERN ITALY. <GEN>. ML 2.1 (GEN).
21	13	04	47.4&	44.836	N	7.703	E	48				12	NORTHERN ITALY. <GEN>.
21	13	16	38.0*	37.388	N	69.571	E	173	?	3.4	1.3	13	AFGHANISTAN-TAJIKISTAN BORD REG.
21	13	36	53.2*	24.255	S	69.162	W	91	?	4.4	0.4	10	NORTHERN CHILE
21	13	41	31.8&	46.700	N	0.500	E	2				6	FRANCE. <LDG>. ML 2.2 (LDG).
21	13	52	59.4%	23.934	N	142.287	E	33	N		0.4	7	VOLCANO ISLANDS REGION
21	15	20	30.8&	18.271	N	94.590	W	39		4.1		51	BAY OF CAMPECHE. <UNM>. MD 4.2 (UNM). Felt at Coatzacoalcos, Mexico.
21	16	24	04.8&	32.866	S	72.014	W	39				13	OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.3 (GUC).
21	16	32	10.9&	39.400	N	20.500	E	5				6	GREECE-ALBANIA BORDER REGION. <ATH>. MD 2.9 (ATH).
21	17	33	05.4&	62.928	N	148.234	W	77				38	CENTRAL ALASKA. <AEIC>.
21	17	48	21.5*	7.760	N	82.777	W	33	N	4.1	1.2	20	SOUTH OF PANAMA
21	18	45	00.4&	63.244	N	151.006	W	13				38	CENTRAL ALASKA. <AEIC>. ML 2.5 (AEIC).
21	19	18	33.8&	63.498	N	149.999	W	117				48	CENTRAL ALASKA. <AEIC>.
21	19	58	52.8&	36.540	N	7.740	W	15				18	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.4 (MDD).
21	20	18	11.1&	18.150	N	66.850	W	20				4	PUERTO RICO REGION. <MPR>. MD 2.2 (MPR).
21	20	49	12.6*	8.874	N	62.819	W	150	G	4.1	1.3	15	VENEZUELA
21	20	49	16.4*	0.454	N	120.687	E	100	G	4.2	0.8	17	MINAHASSA PENINSULA, SULAWESI
21	20	58	04.7&	44.372	N	7.274	E	11				9	NORTHERN ITALY. <GEN>. ML 2.0 (GEN).
21	21	16	57.9&	33.156	S	70.290	W	8				4	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
21	21	44	39.6*	12.569	S	166.662	E	100	G	4.5	0.5	12	SANTA CRUZ ISLANDS
21	21	46	33.0&	42.070	N	20.630	E	10				12	NORTHWESTERN BALKAN REGION. <PDG>. ML 2.8 (PDG).
21	22	02	16.8	38.649	N	142.904	E	33	N	5.3 5.4	0.9	226	NEAR EAST COAST OF HONSHU, JAPAN. Mw 5.8 (HRV). Felt (II JMA) in southeastern Aomori, northern Miyagi and parts of Iwate; (I JMA) in northern Aomori, eastern Fukushima, central Miyagi and parts of Akita, Ibaraki and Yamagata Prefectures. Centroid, Moment Tensor (HRV): Centroid origin time 22:02:19.7; Lat 38.55 N; Lon 143.05 E; Dep 20.0 Bdy; Half-duration 2.1 sec; Principal axes (scale 10**17 Nm): (T) Val=6.25, Plg=63, Azm=296; (N) Val=0.76, Plg=1, Azm=203; (P) Val=-7.01, Plg=27, Azm=112; Best double couple: Mo=6.6*10**17 Nm; NP1: Strike=199, Dip=18, Slip=86; NP2: Strike=23, Dip=72, Slip=91.
21	22	06	45.0&	59.316	N	152.539	W	70				41	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).
21	22	37	43.9*	52.319	N	175.996	W	33	N		1.2	6	ANDREANOF ISLANDS, ALEUTIAN IS.
21	22	47	36.2*	6.292	S	147.759	E	33	N	3.9	1.0	10	EASTERN NEW GUINEA REG., P.N.G.
21	22	49	07.5&	36.063	N	117.829	W	4				34	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.1 (PAS).
21	23	08	37.6*	49.973	N	18.433	E	5	G		1.0	5	CZECH AND SLOVAK REPUBLICS. ML 3.0 (VIE).
21	23	10	01.9&	31.820	S	69.893	W	127				9	SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 2.9 (GUC).
21	23	18	28.8&	31.059	S	71.734	W	35				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
21	23	25	08.2*	34.026	S	117.048	E	33	N		1.3	8	WESTERN AUSTRALIA
21	23	50	55.0&	49.240	N	123.630	W	4				34	VANCOUVER ISLAND REGION. <PGC-P>. ML 3.0 (PGC). MD 2.6 (SEA). Felt (III-IV) at Gibsons, Sechelt and on Bowen Island. Also felt in the Duncan area and at Vancouver.
22	00	00	21.2&	44.487	N	7.194	E	9				20	NORTHERN ITALY. <GEN>. ML 2.3 (GEN), 1.8 (LDG).
22	00	07	22.3%	34.011	S	117.118	E	33	N	4.3	0.9	7	WESTERN AUSTRALIA
22	00	30	15.3&	32.388	S	71.640	W	27				9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
22	00	49	23.1&	35.040	N	24.830	E	5				5	CRETE. <ATH>. MD 3.5 (ATH).
22	00	56	27.5?	0.33	N	120.25	E	140	?	4.4	1.3	14	MINAHASSA PENINSULA, SULAWESI
22	00	59	58.8*	36.270	N	81.189	E	33	N	4.4	1.0	17	SOUTHERN XINJIANG, CHINA
22	01	14	22.8%	41.686	S	174.385	E	10	G		0.3	9	COOK STRAIT, NEW ZEALAND. ML 4.3 (WEL).
22	01	39	27.8%	41.687	S	174.387	E	10	G		0.2	9	COOK STRAIT, NEW ZEALAND. ML 4.4 (WEL).
22	02	05	11.4	41.767	S	174.416	E	10	G		0.9	13	COOK STRAIT, NEW ZEALAND. ML 4.6 (WEL).
22	02	17	39.5&	33.743	S	70.150	W	130				12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.2 (GUC).
22	02	23	18.9&	18.060	N	66.050	W	4				5	PUERTO RICO REGION. <MPR>. MD 2.6 (MPR).
22	02	36	25.0*	57.107	N	120.465	E	33	N	4.4	1.1	22	SOUTHEASTERN SIBERIA, RUSSIA
22	02	57	15.0%	41.674	S	174.386	E	10	G		0.2	11	COOK STRAIT, NEW ZEALAND. ML 4.4 (WEL).
22	03	12	22.1&	59.047	N	152.274	W	67				71	SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC).

22	03	24	31.1	4.442	S	153.450	E	100	G	4.8		0.9	50	NEW IRELAND REGION, P.N.G.
22	03	52	04.6*	51.077	N	15.799	E	5	G			0.9	6	POLAND. ML 2.6 (VIE).
22	04	23	15.1&	33.959	S	72.277	W	46					8	OFF COAST OF CENTRAL CHILE. <GUC>.
22	04	25	20.0&	49.160	N	6.910	E	1	G				5	GERMANY. <FBB>. ML 2.1 (FBB), 1.6 (UCC).
22	04	33	39.5&	48.000	N	5.700	E	8					10	FRANCE. <LDG>. ML 2.1 (LDG).
22	04	51	54.2*	29.078	N	129.149	E	33	N	3.8		1.1	8	RYUKYU ISLANDS
22	05	01	40.3&	32.410	S	71.326	W	51					9	NEAR COAST OF CENTRAL CHILE. <GUC>.
22	05	20	17.9%	40.477	S	173.358	E	150	G			0.5	14	COOK STRAIT, NEW ZEALAND
22	05	20	53.8*	1.584	N	126.684	E	33	N	4.9		1.4	33	NORTHERN MOLUCCA SEA. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 05:21:03.2; Lat 1.51 N; Lon 126.87 E; Dep 67.9; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.80, Plg=60, Azm=56; (N) Val=-0.84, Plg=20, Azm=186; (P) Val=-3.96, Plg=21, Azm=284; Best double couple: Mo=4.4*10**16 Nm; NP1: Strike=46, Dip=30, Slip=134; NP2: Strike=178, Dip=69, Slip=68.
22	05	31	10.2&	37.010	N	23.210	E	11					4	SOUTHERN GREECE. <ATH>. MD 3.2 (ATH).
22	05	36	21.1&	17.830	N	66.040	W	3					6	PUERTO RICO REGION. <MPR>. MD 2.9 (MPR).
22	05	38	19.2?	45.92	N	15.70	E	10	G			0.5	4	NORTHWESTERN BALKAN REGION. ML 0.6 (LJU).
22	05	54	22.1&	19.220	N	66.820	W	24					9	PUERTO RICO REGION. <MPR>. MD 3.4 (MPR).
22	06	01	24.3?	31.13	N	140.35	E	33	N			1.1	5	SOUTH OF HONSHU, JAPAN
22	06	06	57.4	43.815	N	128.090	W	10	G	4.5	4.2	0.9	119	OFF COAST OF OREGON
22	06	34	27.3	28.775	S	67.335	W	150	G	3.9		0.9	20	LA RIOJA PROVINCE, ARGENTINA
22	06	44	19.6	27.470	S	67.263	W	155	D	4.6		1.1	60	CATAMARCA PROVINCE, ARGENTINA
22	06	53	49.2%	41.774	S	174.430	E	10	G			0.9	11	COOK STRAIT, NEW ZEALAND. ML 4.4 (WEL).
22	07	13	39.8?	9.18	N	125.94	E	33	N	3.9		1.1	11	MINDANAO, PHILIPPINE ISLANDS
22	07	22	21.5*	28.413	S	71.170	W	100	G			1.2	21	NEAR COAST OF CENTRAL CHILE
22	07	49	51.1?	23.27	S	179.07	E	500	G	4.2		1.1	12	SOUTH OF FIJI ISLANDS
22	07	51	29.9?	22.79	S	174.90	W	33	N			0.7	8	TONGA ISLANDS REGION
22	08	18	02.8&	18.300	N	68.100	W	120					5	MONA PASSAGE. <MPR>. MD 3.0 (MPR).
22	08	28	21.5?	7.53	S	120.46	E	289	?	3.8		0.9	5	FLORES SEA
22	09	46	52.7&	37.573	N	118.784	W	9					11	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.9 (GM).
22	10	06	06.9&	32.350	S	71.421	W	46					8	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
22	10	39	44.9	30.581	S	71.848	W	33	N	4.6		1.3	46	NEAR COAST OF CENTRAL CHILE. MD 4.8 (GUC).
22	10	59	51.4&	45.670	N	2.540	E	2	G				4	FRANCE. <STR>. ML 2.0 (STR).
22	11	14	09.8?	4.76	S	153.75	E	100	G	4.0		0.9	7	NEW IRELAND REGION, P.N.G.
22	11	17	29.8*	17.861	S	178.670	W	600	G	3.7		1.1	20	FIJI ISLANDS REGION
22	13	42	50.0&	39.670	N	120.820	W	5					5	NORTHERN CALIFORNIA. <GM-P>. MD 2.8 (GM).
22	13	59	16.8?	22.22	S	170.07	E	33	N			1.5	14	LOYALTY ISLANDS REGION
22	14	04	53.7	46.206	N	15.942	E	10	G			1.0	8	NORTHWESTERN BALKAN REGION. ML 2.3 (VIE).
22	14	25	49.2*	24.784	N	142.070	E	532	?	3.9		1.1	17	VOLCANO ISLANDS REGION
22	14	41	57.0&	36.890	N	115.940	W	1					13	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.8 (REN). ML 3.1 (GS).
22	14	44	17.6	25.210	N	126.055	E	67	D	4.9		1.1	39	RYUKYU ISLANDS. Felt (I JMA) on Miyako-jima.
22	14	49	14.2&	44.457	N	7.258	E	14					26	NORTHERN ITALY. <GEN>. ML 2.4 (GEN), 2.3 (LDG), 2.2 (STR).
22	15	10	48.7%	36.211	N	74.333	E	33	N			1.0	6	NORTHWESTERN KASHMIR
22	15	15	42.0?	33.98	S	139.07	E	10	G	3.8		0.8	4	NEAR SOUTH COAST OF AUSTRALIA. Felt in the epicentral area.
22	15	21	21.9?	24.32	N	120.93	E	33	N			0.9	7	TAIWAN
22	15	25	07.5*	4.791	S	153.851	E	100	G	4.2		0.7	9	NEW IRELAND REGION, P.N.G.
22	16	17	43.4&	46.000	N	2.800	E	4					7	FRANCE. <LDG>. ML 1.8 (LDG).
22	16	19	07.0&	44.597	N	6.900	E	5					17	FRANCE. <GEN>. ML 2.2 (GEN), 1.6 (LDG).
22	17	45	11.7&	46.700	N	7.500	E	2					23	SWITZERLAND. <LDG>. ML 2.5 (LDG), 2.4 (STR), 2.2 (FBB).
22	17	48	14.8&	43.028	N	17.883	E	14					9	NORTHWESTERN BALKAN REGION. <PDG>. ML 2.6 (PDG).
22	18	02	20.8&	34.190	S	71.070	W	63					9	NEAR COAST OF CENTRAL CHILE. <GUC>.
22	18	39	36.9	17.711	S	178.513	W	500	G	4.4		1.0	52	FIJI ISLANDS REGION
22	18	50	12.8&	43.324	N	17.063	E	5					25	NORTHWESTERN BALKAN REGION. <PDG>. ML 3.1 (PDG), 3.0 (ZAG).
22	19	10	09.1&	39.070	N	23.200	E	5					5	AEGEAN SEA. <ATH>. ML 3.0 (ATH).
22	19	14	48.7	34.657	N	24.312	E	33	N	4.2		1.4	104	CRETE. ML 4.1 (ATH).
22	20	09	36.3?	37.31	N	71.90	E	33	N	4.5		0.9	6	AFGHANISTAN-TAJIKISTAN BORD REG.
22	20	22	13.2&	37.170	N	20.810	E	5					4	IONIAN SEA. <ATH>. MD 2.9 (ATH).
22	20	25	00.2&	44.301	N	7.335	E	13					19	NORTHERN ITALY. <GEN>. ML 2.0 (GEN), 1.8 (LDG), 1.7 (STR).
22	20	37	17.3*	4.533	S	153.625	E	100	G	4.5		0.8	18	NEW IRELAND REGION, P.N.G.
22	20	48	23.2*	13.343	N	90.944	W	100	G	4.0		0.8	16	NEAR COAST OF GUATEMALA
22	20	53	55.4&	34.162	S	70.860	W	79					8	CHILE-ARGENTINA BORDER REGION. <GUC>.
22	21	28	47.2&	39.050	N	23.090	E	5					5	AEGEAN SEA. <ATH>. ML 3.0 (ATH).
22	22	24	38.0&	37.990	N	2.250	W	7					11	SPAIN. <MDD>. mbLg 2.0 (MDD).
22	22	29	06.0?	12.07	N	57.70	E	10	G			1.0	9	ARABIAN SEA
22	22	43	00.2	7.597	S	117.374	E	308		4.4		1.3	36	BALI SEA
22	22	48	00.7?	4.92	N	32.33	E	10	G	4.3		0.7	9	SUDAN
22	22	51	25.8&	37.010	N	3.610	W	5					5	SPAIN. <MDD>. mbLg 1.6 (MDD).
22	23	10	34.8&	44.393	N	7.270	E	11					4	NORTHERN ITALY. <GEN>. ML 1.5 (GEN).
22	23	50	49.6&	35.342	N	118.567	W	7					29	CENTRAL CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
23	02	25	38.2?	45.44	N	14.44	E	10	G			0.1	4	NORTHWESTERN BALKAN REGION. ML 2.1 (VIE).
23	03	00	32.0&	36.820	N	115.920	W	0					52	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 3.5 (REN). ML 3.7 (GS).
23	03	39	02.9&	33.310	S	70.289	W	109					11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.2 (GUC).
23	04	59	39.3?	45.99	N	15.09	E	10	G			0.2	4	NORTHWESTERN BALKAN REGION. ML 0.8 (LJU).
23	05	01	40.3*	41.901	N	23.566	E	10	G			0.7	7	GREECE-BULGARIA BORDER REGION
23	05	28	23.4?	35.85	N	71.10	E	33	N	3.9		1.4	11	PAKISTAN
23	05	36	13.7*	51.562	N	16.076	E	5	G			0.6	6	POLAND. ML 3.4 (VIE).
23	05	37	11.2&	36.470	N	28.740	E	5					13	DODECANESE ISLANDS. <ATH>.
23	06	00	33.1&	44.127	N	7.136	E	11					13	NORTHERN ITALY. <GEN>. ML 2.0 (GEN), 1.9 (LDG).
23	06	58	22.1%	36.790	N	10.705	W	10	G			0.6	22	NORTH ATLANTIC OCEAN. mbLg 2.7 (MDD).
23	07	11	20.0&	36.840	N	115.960	W	1					21	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.9 (REN). ML 3.3 (GS).
23	08	27	47.0&	31.850	S	70.519	W	116					12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
23	08	47	33.3*	26.923	S	26.697	E	5	G	4.0		1.4	13	REPUBLIC OF SOUTH AFRICA
23	08	49	26.5&	40.680	N	0.100	W	8					9	SPAIN. <MDD>. mbLg 2.2 (MDD).
23	08	50	27.3&	34.351	S	70.813	W	91					10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.2 (GUC).
23	09	53	31.9	32.466	N	69.723	E	33	N	4.7	4.5	1.1	66	PAKISTAN. Felt at Peshawar and in other parts of northern Pakistan.
23	10	50	28.7?	18.07	N	106.16	W	33	N	3.5		1.3	12	OFF COAST OF JALISCO, MEXICO
23	12	50	55.8?	17.98	S	168.56	E	33	N			1.2	6	VANUATU ISLANDS

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23  13 02 27.7* 27.181 N  140.542 E  478 ?  4.0       1.2   20  BONIN ISLANDS REGION
23  13 19 57.7& 42.793 N   18.718 E   10                     7  NORTHWESTERN BALKAN REGION. <PDG>. ML 1.7 (PDG).
23  13 59 08.9& 18.520 N   66.680 W  105                     8  PUERTO RICO REGION. <MPR>. MD 2.9 (MPR).
23  14 00 26.9*  3.581 S  145.346 E   33 N  4.3       1.0   13  NEAR N COAST OF NEW GUINEA, PNG.
23  14 22 59.5& 32.422 S   71.104 W   58                     8  NEAR COAST OF CENTRAL CHILE. <GUC>.
23  15 04 13.1& 18.970 N   67.700 W   25                     7  MONA PASSAGE. <MPR>. MD 3.3 (MPR).
23  15 12 52.6& 37.030 N    3.940 W    1                    13  SPAIN. <MDD>. mbLg 2.4 (MDD).
23  15 33 21.2? 46.04  N   15.04  E   10 G           0.0    4  NORTHWESTERN BALKAN REGION. ML 0.7 (LJU).
23  15 47 42.8& 34.068 S   70.339 W    7                    10  CHILE-ARGENTINA BORDER REGION. <GUC>.
23  16 25 42.7& 18.930 N   67.750 W   25                     4  MONA PASSAGE. <MPR>. MD 3.0 (MPR).
23  16 48 20.8& 44.490 N    7.259 E   13                    15  NORTHERN ITALY. <GEN>. ML 2.1 (GEN), 1.6 (LDG).
23  17 01 08.2  45.644 N   26.555 E  147    3.9       1.2   34  ROMANIA
23  17 22 08.0* 19.028 N  121.275 E   33 N  4.1       1.2   11  PHILIPPINE ISLANDS REGION
23  18 12 29.8& 34.130 S   71.218 W   64                    13  NEAR COAST OF CENTRAL CHILE. <GUC>.
23  18 22 53.0*  5.526 S  146.939 E   33 N  4.1       1.0    9  EASTERN NEW GUINEA REG., P.N.G.
23  19 17 17.7  33.666 N  138.326 E  284    4.7       0.8  126  SOUTH OF HONSHU, JAPAN
23  19 34 41.7  31.552 S   67.882 W    5 G           1.4   19  SAN JUAN PROVINCE, ARGENTINA. MD 4.2 (GUC).
23  19 41 45.1& 37.830 N   27.530 E    5                    12  TURKEY. <ATH>. MD 3.7 (ATH).
23  19 46 10.8? 21.22  S  170.19  E  137 ?           0.8    9  LOYALTY ISLANDS REGION
23  20 02 43.2& 45.000 N    5.800 E    2                    40  FRANCE. <LDG>. ML 2.7 (STR), 2.3 (LDG).
23  20 07 23.0*  0.729 N  125.958 E   33 N  4.4       1.2   12  NORTHERN MOLUCCA SEA
23  20 26 45.9? 53.80  N  164.25  W   33 N           1.2    6  UNIMAK ISLAND REGION
23  20 39 30.9& 15.616 N   61.195 W  104                    10  LEEWARD ISLANDS. <FDF>. MG 2.6 (FDF).
23  20 53 36.7& 38.670 N    6.240 W    4                    13  SPAIN. <MDD>. mbLg 2.4 (MDD).
23  21 31 35.1? 35.46  N   71.44  E   33 N  3.8       0.7    8  PAKISTAN
23  21 37 48.7& 46.200 N    7.600 E    2                     6  SWITZERLAND. <LDG>. ML 1.7 (LDG).
23  21 47 04.6& 38.250 N   22.410 E    5                     4  GREECE. <ATH>. MD 2.7 (ATH).
23  22 56 23.0% 22.457 S  116.668 E   10 G           1.5    6  WESTERN AUSTRALIA
23  23 04 15.1& 45.000 N    5.700 E    2                     9  FRANCE. <LDG>. ML 1.6 (LDG).
23  23 15 48.3* 44.719 N  148.467 E   62 D  4.4       0.9   26  KURIL ISLANDS
23  23 19 57.0* 57.517 N  120.586 E   33 N           1.4   10  SOUTHEASTERN SIBERIA, RUSSIA
23  23 44 44.1& 39.020 N   22.020 E    5                     9  GREECE. <ATH>. MD 3.0 (ATH).
24  00 37 04.6  30.618 N  131.086 E   33 N  6.1 6.1   0.9  409  KYUSHU, JAPAN. Mw 6.4 (HRV), 6.3 (GS). Me 6.0 (GS). Felt (IV
                                                                 JMA) on Tanega-shima and Yaku-shima; (II JMA) on Amami O-
                                                                 shima and Nakano-shima. Felt in much of Kyushu. Also felt
                                                                 (I JMA) in western Ehime Prefecture, Shikoku and in parts
                                                                 of western Honshu.
                                                                Broadband Source Parameters (GS): Dep 34; NP1: Strike=195,
                                                                 Dip=90, Slip=-70; NP2: Strike=285, Dip=20, Slip=180;
                                                                 Radiated energy 2.4*10**13 Nm.
                                                                Moment Tensor (GS): Dep 20; Principal axes (scale 10**18
                                                                 Nm): (T) Val=3.27, Plg=37, Azm=290; (N) Val=-0.49, Plg=13,
                                                                 Azm=190; (P) Val=-2.78, Plg=50, Azm=84; Best double couple:
                                                                 Mo=3.0*10**18 Nm; NP1: Strike=71, Dip=14, Slip=-28; NP2:
                                                                 Strike=188, Dip=83, Slip=-103.
                                                                Centroid, Moment Tensor (HRV): Centroid origin time
                                                                 00:37:09.1; Lat 30.56 N; Lon 131.23 E; Dep 28.3; Half-
                                                                 duration 3.7 sec; Principal axes (scale 10**18 Nm): (T)
                                                                 Val=4.83, Plg=30, Azm=292; (N) Val=-0.97, Plg=21, Azm=189;
                                                                 (P) Val=-3.86, Plg=53, Azm=70; Best double couple:
                                                                 Mo=4.3*10**18 Nm; NP1: Strike=66, Dip=24, Slip=-31; NP2:
                                                                 Strike=185, Dip=78, Slip=-111.
                                                                Scalar Moment (PPT): Mo=6.9*10**18 Nm.
24  00 42 35.9& 11.219 N   60.610 W   15                     9  WINDWARD ISLANDS. <TRN>. MD 3.6 (TRN).
24  01 03 22.7* 30.548 N  131.239 E   33 N  5.1       1.2   35  KYUSHU, JAPAN. Felt (I JMA) in southern Kyushu and on Tanega-
                                                                 shima.
24  01 18 02.1& 39.350 N    0.500 E    4                    12  SPAIN. <MDD>. mbLg 2.4 (MDD).
24  01 38 35.8  31.984 S   69.396 W  150 G           0.6   17  SAN JUAN PROVINCE, ARGENTINA. MD 4.2 (GUC).
24  01 48 23.4* 70.975 N   13.483 W   10 G  3.7       1.1    7  JAN MAYEN ISLAND REGION
24  02 12 08.1& 33.424 S   72.187 W   38                    10  OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
24  02 28 10.0*  5.884 N  126.145 E   33 N  4.5       1.3   24  MINDANAO, PHILIPPINE ISLANDS
24  02 52 38.0& 36.780 N    3.010 W   16                     7  STRAIT OF GIBRALTAR. <MDD>. mbLg 1.5 (MDD).
24  03 18 27.9& 60.324 N  152.470 W   90                   113  SOUTHERN ALASKA. <AEIC>.
24  05 01 33.5   4.549 S  153.575 E  122 D  4.7       0.7   32  NEW IRELAND REGION, P.N.G.
24  05 06 53.5& 60.161 N  147.372 W    4                    90  SOUTHERN ALASKA. <AEIC>. ML 3.3 (AEIC), 3.7 (PMR).
24  05 35 25.8* 42.786 S   71.040 E   10 G  4.2       0.6   11  MID-INDIAN RIDGE
24  07 01 58.4  21.132 S  174.659 W   33 N  5.7 5.9   1.0  197  TONGA ISLANDS. Mw 6.1 (GS), 6.1 (HRV). Me 5.8 (GS).
                                                                Broadband Source Parameters (GS): Dep 13; Radiated energy
                                                                 9.7*10**12 Nm.
                                                                Moment Tensor (GS): Dep 15; Principal axes (scale 10**18
                                                                 Nm): (T) Val=1.39, Plg=63, Azm=297; (N) Val=0.01, Plg=6,
                                                                 Azm=196; (P) Val=-1.40, Plg=26, Azm=104; Best double
                                                                 couple: Mo=1.4*10**18 Nm; NP1: Strike=180, Dip=19, Slip=73;
                                                                 NP2: Strike=18, Dip=72, Slip=96.
                                                                Centroid, Moment Tensor (HRV): Centroid origin time
                                                                 07:02:02.5; Lat 21.38 S; Lon 173.90 W; Dep 16.0 Bdy; Half-
                                                                 duration 2.8 sec; Principal axes (scale 10**18 Nm): (T)
                                                                 Val=1.67, Plg=70, Azm=299; (N) Val=0.26, Plg=3, Azm=203;
                                                                 (P) Val=-1.93, Plg=20, Azm=112; Best double couple:
                                                                 Mo=1.8*10**18 Nm; NP1: Strike=197, Dip=25, Slip=84; NP2:
                                                                 Strike=24, Dip=65, Slip=93.
                                                                Scalar Moment (PPT): Mo=3.4*10**18 Nm.
24  07 50 07.9& 60.136 N  152.210 W   77                    75  SOUTHERN ALASKA. <AEIC>.
24  08 00 08.5  26.463 S   74.476 E   10 G  6.0 6.3   0.8  405  MID-INDIAN RIDGE. Mw 6.3 (HRV), 6.1 (GS). Me 6.3 (GS).
                                                                Broadband Source Parameters (GS): Dep 4; Radiated energy
                                                                 5.5*10**13 Nm.
                                                                Moment Tensor (GS): Dep 11; Principal axes (scale 10**18
                                                                 Nm): (T) Val=1.44, Plg=68, Azm=46; (N) Val=0.01, Plg=1,
                                                                 Azm=139; (P) Val=-1.45, Plg=22, Azm=229; Best double
                                                                 couple: Mo=1.4*10**18 Nm; NP1: Strike=321, Dip=23, Slip=93;
                                                                 NP2: Strike=138, Dip=67, Slip=89.
                                                                Centroid, Moment Tensor (HRV): Centroid origin time
                                                                 08:00:13.8; Lat 26.25 S; Lon 74.37 E; Dep 15.0 Fix; Half-
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duration 3.0 sec; Principal axes (scale 10**18 Nm): (T) Val=2.97, Plg=89, Azm=42; (N) Val=-0.13, Plg=0, Azm=311; (P) Val=-2.84, Plg=1, Azm=221; Best double couple: Mo=2.9*10**18 Nm; NP1: Strike=311, Dip=44, Slip=90; NP2: Strike=131, Dip=46, Slip=90.

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24  08 08 45.6  26.337 S   74.410 E   10 G  5.3       0.7   48  MID-INDIAN RIDGE
24  08 23 29.8& 46.900 N    6.700 E    2                     4  SWITZERLAND. <LDG>. ML 1.9 (LDG).
24  09 28 37.3& 38.808 N  122.798 W    2                     9  NORTHERN CALIFORNIA. <GM-P>. MD 2.8 (GM).
24  09 37 14.7  15.202 N   61.327 W  152     4.4       0.8   57  LEEWARD ISLANDS. MD 4.1 (TRN).
24  09 37 34.0  43.225 N   16.890 E   10 G             1.3   34  NORTHWESTERN BALKAN REGION. ML 3.4 (PDG).
24  10 01 43.8  38.792 N   17.749 E   10 G             0.8   20  SOUTHERN ITALY. ML 3.5 (PDG). MD 3.2 (ATH).
24  10 17 31.6  38.063 N   20.219 E   10 G             1.4   30  GREECE. ML 3.7 (PDG), 3.6 (ATH).
24  10 37 20.5& 33.620 S   71.620 W   44                    12  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.9 (GUC).
24  11 37 55.9& 47.400 N    2.200 W    2                     7  FRANCE. <LDG>. ML 1.8 (LDG).
24  11 43 24.3  20.079 N  121.624 E   33 N  4.4       0.8   24  PHILIPPINE ISLANDS REGION
24  12 20 07.0& 49.890 N  130.210 W   10 G                   19  VANCOUVER ISLAND REGION. <PGC-P>. ML 3.4 (PGC).
24  13 10 01.7& 37.410 N    3.930 W   18                     6  SPAIN. <MDD>. mbLg 1.3 (MDD).
24  13 15 52.6  54.476 N  161.458 E   33 N  5.3 4.8    0.9  302  NEAR EAST COAST OF KAMCHATKA. Mw 5.4 (HRV). Felt (III) at
                                                                 Petropavlovsk-Kamchatskiy.
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  13:16:00.3; Lat 54.30 N; Lon 161.73 E; Dep 51.4; Half-
                                                                  duration 1.2 sec; Principal axes (scale 10**17 Nm): (T)
                                                                  Val=1.42, Plg=82, Azm=317; (N) Val=0.26, Plg=2, Azm=210;
                                                                  (P) Val=-1.68, Plg=7, Azm=119; Best double couple:
                                                                  Mo=1.5*10**17 Nm; NP1: Strike=207, Dip=38, Slip=86; NP2:
                                                                  Strike=31, Dip=52, Slip=93.
24  13 18 15.4& 33.318 S   70.331 W   93                    10  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.9 (GUC).
24  13 48 23.1*  4.670 S  153.719 E  100 G  4.2       0.9   10  NEW IRELAND REGION, P.N.G.
24  14 05 56.3  10.264 S   78.527 W   33 N  4.7       0.9   54  NEAR COAST OF PERU
24  15 34 56.5& 39.557 N  123.771 W    6                    32  NEAR COAST OF NORTHERN CALIF. <GM-P>. Mw 4.1 (BRK). ML 4.0
                                                                 (GM), 4.0 (BRK).
                                                                 Moment Tensor (BRK): Dep 5; Principal axes (scale 10**15
                                                                  Nm): (T) Val=1.47, Plg=71, Azm=290; (N) Val=0.00, Plg=19,
                                                                  Azm=114; (P) Val=-1.47, Plg=1, Azm=24; Best double couple:
                                                                  Mo=1.5*10**15 Nm; NP1: Strike=311, Dip=49, Slip=115; NP2:
                                                                  Strike=96, Dip=47, Slip=64.
24  16 22 27.6? 21.46  S  176.75  W  300 G  4.1       1.2   17  FIJI ISLANDS REGION
24  16 44 21.7* 30.589 N  131.247 E   33 N  3.4       1.5   12  KYUSHU, JAPAN
24  16 44 52.2& 38.390 N   26.200 E   38                     7  AEGEAN SEA. <ATH>. MD 3.4 (ATH).
24  17 21 20.4* 21.380 N  121.386 E   33 N  4.3       1.1   20  TAIWAN REGION
24  17 23 25.1& 45.000 N    7.100 E    2                     5  NORTHERN ITALY. <LDG>. ML 1.5 (LDG).
24  17 53 13.8& 42.400 N    2.000 E    2                    12  PYRENEES. <LDG>. ML 2.7 (STR), 2.2 (LDG).
24  18 05 20.4* 52.192 N  159.520 E   33 N  4.2       1.0   16  OFF EAST COAST OF KAMCHATKA
24  19 06 20.9& 57.887 N  154.195 W   50                    50  KODIAK ISLAND REGION. <AEIC>. ML 2.7 (AEIC).
24  19 14 47.6& 33.172 S   71.454 W   43                    13  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
24  19 32 08.8*  4.610 S  153.407 E  154 ?  4.4       0.8   19  NEW IRELAND REGION, P.N.G.
24  19 35 57.3*  4.647 S  150.362 E  350 G  4.1       0.8   19  NEW BRITAIN REGION, P.N.G.
24  20 03 12.0* 32.528 N  132.467 E   33 N  4.0       1.4   10  SHIKOKU, JAPAN
24  20 20 38.8*  3.865 N  126.443 E   33 N  4.1       1.3   12  TALAUD ISLANDS, INDONESIA
24  21 05 13.8* 44.137 N  145.516 E   33 N             0.8    8  HOKKAIDO, JAPAN  REGION
24  22 01 51.9   0.538 N  126.373 E   33 N  4.9       1.2   43  NORTHERN MOLUCCA SEA. Mw 5.2 (HRV).
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  22:01:54.3; Lat 0.54 N; Lon 126.18 E; Dep 53.0; Half-
                                                                  duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                  Val=6.69, Plg=50, Azm=186; (N) Val=0.13, Plg=37, Azm=340;
                                                                  (P) Val=-6.82, Plg=13, Azm=80; Best double couple:
                                                                  Mo=6.8*10**16 Nm; NP1: Strike=208, Dip=46, Slip=148; NP2:
                                                                  Strike=322, Dip=67, Slip=49.
24  22 06 17.6& 38.190 N   20.700 E    5                     9  GREECE. <ATH>. MD 3.2 (ATH).
24  22 24 34.7& 37.489 N   17.032 E   10                    21  IONIAN SEA. <ROM>. ML 3.2 (ROM).
24  22 24 50.2& 34.292 N  118.381 W    3                     4  SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS). Felt at Lake
                                                                 View Terrace.
24  23 03 26.7  26.509 S   74.470 E   10 G  5.1 4.3    0.8   50  MID-INDIAN RIDGE. Mw 5.0 (HRV).
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  23:03:27.6; Lat 26.43 S; Lon 74.05 E; Dep 15.0 Fix; Half-
                                                                  duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                  Val=2.50, Plg=90, Azm=180; (N) Val=1.00, Plg=0, Azm=110;
                                                                  (P) Val=-3.50, Plg=0, Azm=20; Best double couple:
                                                                  Mo=3.0*10**16 Nm; NP1: Strike=110, Dip=45, Slip=90; NP2:
                                                                  Strike=290, Dip=45, Slip=90.
24  23 51 23.8& 44.700 N    7.200 E    2                     6  NORTHERN ITALY. <LDG>. ML 1.5 (LDG).
24  23 58 19.0  38.088 N   20.277 E   10 G  3.9       1.4   40  GREECE. ML 3.7 (ATH), 3.6 (PDG).
24  23 58 51.7& 34.317 N  116.844 W    5                    29  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS). Felt at Big Bear
                                                                 City.
25  00 08 02.7& 39.330 N   23.170 E    5                     6  AEGEAN SEA. <ATH>. ML 2.9 (ATH).
25  00 13 03.2? 22.55  S  176.57  W   33 N  4.8       1.3   17  SOUTH OF FIJI ISLANDS
25  00 54 51.0  28.207 N   57.419 E   33 N  4.2       0.8   19  SOUTHERN IRAN
25  02 29 09.3& 61.502 N  146.649 W   14                    55  SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).
25  02 54 45.7*  1.508 S  119.819 E   33 N  4.4       1.2   14  SULAWESI, INDONESIA
25  03 01 03.1& 37.730 N    3.270 W   16                     8  SPAIN. <MDD>. mbLg 1.3 (MDD).
25  03 36 44.6*  2.272 N  126.923 E   33 N  5.0       1.0   23  NORTHERN MOLUCCA SEA
25  03 59 36.9  25.005 N   97.848 E   33 N  4.5 4.1    0.7   28  MYANMAR-CHINA BORDER REGION
25  04 19 43.0& 61.765 N  151.903 W  101                    51  SOUTHERN ALASKA. <AEIC>.
25  05 02 44.4* 44.422 N  138.521 E   33 N  4.7       0.9    8  EASTERN SEA OF JAPAN
25  05 33 28.5& 39.350 N   20.920 E   34                     8  GREECE-ALBANIA BORDER REGION. <ATH>. MD 3.1 (ATH).
25  05 41 44.2* 36.279 N   76.659 E   33 N  3.7       1.3    7  KASHMIR-XINJIANG BORDER REGION
25  05 54 26.0& 64.960 N  152.062 W   18                    23  CENTRAL ALASKA. <AEIC>. ML 2.8 (AEIC), 2.9 (PMR).
25  06 01 18.1% 41.458 S  174.470 E   33 N             0.7   11  COOK STRAIT, NEW ZEALAND. ML 4.1 (WEL). Felt at Wellington
                                                                 on the North Island.
25  06 08 55.0& 59.980 N  137.430 W    0 G                    5  SOUTHEASTERN ALASKA. <PGC-P>. ML 3.3 (PGC).
25  06 11 53.0& 32.933 S   71.927 W   10                    13  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
25  06 50 01.6& 42.760 N    7.250 W   18                     6  SPAIN. <MDD>. mbLg 2.5 (MDD).
25  06 51 05.0& 37.950 N   21.890 E    5                     8  SOUTHERN GREECE. <ATH>. ML 3.3 (ATH).
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25  07 05 38.9& 39.280 N   20.860 E   20                    7  GREECE-ALBANIA BORDER REGION. <ATH>. MD 3.1 (ATH).
25  07 14 31.1* 26.503 S   74.458 E   10 G  4.8       0.7   12  MID-INDIAN RIDGE
25  07 19 01.6& 40.400 N    1.200 W    2                   27  SPAIN. <LDG>. ML 3.2 (LDG). mbLg 3.1 (MDD).
25  07 53 09.6& 59.898 N  152.847 W   94                   49  SOUTHERN ALASKA. <AEIC>.
25  07 59 38.2  55.624 N  161.688 E   33 N  4.9 4.0  0.8  131  NEAR EAST COAST OF KAMCHATKA
25  08 26 51.2? 16.77  S  177.30  W   33 N  4.5       0.7    9  FIJI ISLANDS REGION
25  09 27 57.0& 48.849 N  123.431 W    3                   50  VANCOUVER ISLAND REGION. <PGC-P>. ML 2.6 (PGC). MD 2.6
                                                               (SEA). Felt (IV) on Galiano Island and Saltspring Island.
                                                               Also felt on Mayne Island and at Duncan and Sidney, British
                                                               Columbia.
25  10 36 31.7  16.885 N   62.497 W  140 D  4.6       0.7   57  LEEWARD ISLANDS. MD 3.9 (TRN).
25  10 36 48.7  17.735 S  178.531 W  650 G  4.1       0.8   52  FIJI ISLANDS REGION
25  10 37 13.4  18.026 S  178.445 W  640 D  5.0       0.9  268  FIJI ISLANDS REGION. Mw 5.8 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                               10:37:17.7; Lat 17.83 S; Lon 178.27 W; Dep 650.1; Half-
                                                               duration 1.9 sec; Principal axes (scale 10**17 Nm): (T)
                                                               Val=4.99, Plg=5, Azm=43; (N) Val=0.61, Plg=31, Azm=310; (P)
                                                               Val=-5.60, Plg=59, Azm=142; Best double couple:
                                                               Mo=5.3*10**17 Nm; NP1: Strike=162, Dip=48, Slip=-47; NP2:
                                                               Strike=288, Dip=57, Slip=-127.
25  10 38 08.8* 17.653 S  178.528 W  650 G  4.2       0.8   22  FIJI ISLANDS REGION
25  10 38 49.4  17.775 S  178.486 W  650 G  4.5       0.7   49  FIJI ISLANDS REGION
25  11 34 40.7& 59.467 N  152.338 W   62                   59  SOUTHERN ALASKA. <AEIC>. ML 2.8 (AEIC).
25  11 45 54.0   4.229 N  126.398 E   33 N  5.2 4.5  0.9   86  TALAUD ISLANDS, INDONESIA. Mw 5.3 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                               11:45:59.7; Lat 4.40 N; Lon 126.91 E; Dep 44.0; Half-
                                                               duration 1.1 sec; Principal axes (scale 10**17 Nm): (T)
                                                               Val=1.01, Plg=69, Azm=327; (N) Val=0.22, Plg=11, Azm=206;
                                                               (P) Val=-1.23, Plg=17, Azm=112; Best double couple:
                                                               Mo=1.1*10**17 Nm; NP1: Strike=185, Dip=29, Slip=67; NP2:
                                                               Strike=32, Dip=63, Slip=102.
25  12 00 43.0* 42.519 N  141.487 E  197 ?  3.8       0.8    9  HOKKAIDO, JAPAN  REGION
25  12 16 11.2* 31.430 S   69.337 W  100 G            0.8   13  SAN JUAN PROVINCE, ARGENTINA. MD 3.6 (GUC).
25  14 09 51.2% 20.110 N  122.624 E   33 N            0.6    6  PHILIPPINE ISLANDS REGION
25  14 16 38.9*  4.524 S  153.556 E  100 G  4.4       1.0   16  NEW IRELAND REGION, P.N.G.
25  14 18 47.1* 10.185 S   78.489 W   33 N  4.5       1.0   19  NEAR COAST OF PERU
25  14 31 56.3* 17.318 S  168.493 E  201 *  4.4       1.1   14  VANUATU ISLANDS
25  14 40 25.5  34.121 N   25.750 E   33 N  4.8 4.3  1.2  209  CRETE. ML 4.5 (ATH), 4.5 (CSS).
25  14 47 58.5* 34.293 N   25.899 E   33 N            0.9    7  CRETE. MD 3.8 (ATH).
25  14 52 05.5  23.327 S   66.606 W  229     3.6       1.0   14  JUJUY PROVINCE, ARGENTINA
25  16 38 59.4& 39.600 N  122.074 W   12                   10  NORTHERN CALIFORNIA. <GM-P>. MD 2.9 (GM).
25  17 18 13.5* 19.496 N   66.690 W   50 *  4.6       1.0   30  PUERTO RICO REGION. MD 4.2 (MPR).
25  17 46 47.3* 39.858 N   76.842 E   33 N  3.9       1.2   11  SOUTHERN XINJIANG, CHINA
25  17 51 28.4   2.378 N  126.818 E   33 N  5.1 4.3  1.0   64  NORTHERN MOLUCCA SEA. Mw 5.2 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                               17:51:21.8; Lat 2.18 N; Lon 127.21 E; Dep 58.3; Half-
                                                               duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                               Val=6.04, Plg=58, Azm=30; (N) Val=0.51, Plg=28, Azm=242;
                                                               (P) Val=-6.54, Plg=14, Azm=144; Best double couple:
                                                               Mo=6.3*10**16 Nm; NP1: Strike=201, Dip=39, Slip=43; NP2:
                                                               Strike=76, Dip=65, Slip=121.
25  17 57 34.2& 36.490 N    2.910 W   11                   10  STRAIT OF GIBRALTAR. <MDD>. mbLg 2.0 (MDD).
25  18 16 17.5& 16.177 N   61.425 W   17                    5  LEEWARD ISLANDS. <FDF>. MG 2.3 (FDF).
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). 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.
                                                               Broadband Source Parameters (GS): Dep 17; NP1: Strike=110,
                                                               Dip=75, Slip=-165; NP2: Strike=16, Dip=76, Slip=-16;
                                                               Radiated energy 9.6*10**13 Nm.
                                                               Moment Tensor (GS): Dep 17; Principal axes (scale 10**18
                                                               Nm): (T) Val=2.06, Plg=4, Azm=73; (N) Val=0.01, Plg=68,
                                                               Azm=172; (P) Val=-2.07, Plg=21, Azm=341; Best double
                                                               couple: Mo=2.1*10**18 Nm; NP1: Strike=119, Dip=72,
                                                               Slip=-167; NP2: Strike=25, Dip=78, Slip=-18.
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                               18:19:24.2; Lat 4.58 N; Lon 75.75 W; Dep 27.7; Half-
                                                               duration 3.0 sec; Principal axes (scale 10**18 Nm): (T)
                                                               Val=1.87, Plg=4, Azm=236; (N) Val=0.27, Plg=58, Azm=139;
                                                               (P) Val=-2.14, Plg=32, Azm=329; Best double couple:
                                                               Mo=2.0*10**18 Nm; NP1: Strike=8, Dip=65, Slip=-21; NP2:
                                                               Strike=107, Dip=71, Slip=-153.
                                                               Scalar Moment (PPT): Mo=2.5*10**18 Nm.
25  18 47 01.4& 38.840 N   21.600 E    2                    9  GREECE. <ATH>. MD 3.2 (ATH).
25  18 52 06.1  36.817 N  115.959 W    5 G  4.4       1.1   54  CALIFORNIA-NEVADA BORDER REGION. ML 4.5 (GS). MD 4.2 (REN).
                                                               Felt at the Nevada Test Site.
25  18 52 38.0? 12.03  N   86.19  W  250 G  4.4       1.3   20  NICARAGUA
25  19 21 52.0& 36.850 N  115.900 W    2                    8  CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.7 (REN).
25  19 33 41.6  36.481 N   69.289 E  100 G  4.2       1.3   12  HINDU KUSH REGION, AFGHANISTAN
25  19 50 05.0  42.076 N   91.587 E   33 N  4.8       0.9   46  NORTHERN XINJIANG, CHINA
25  19 51 53.8  36.810 N  115.967 W    5 G  3.1       0.7   19  CALIFORNIA-NEVADA BORDER REGION. ML 3.5 (GS). MD 3.2 (REN).
25  20 03 41.8? 26.33  S   74.55  E   10 G  4.4       0.8    6  MID-INDIAN RIDGE
25  20 12 30.0& 42.730 N   77.850 W    3                    9  NEW YORK. <PAL-P>. MD 2.5 (PAL). mbLg 2.7 (OTT). Felt at Mt.
                                                               Morris.
25  22 13 07.7& 44.000 N    6.100 E    3                   42  FRANCE. <LDG>. ML 2.5 (STR), 2.4 (LDG).
25  22 34 28.5& 44.900 N    6.600 E    2                    6  FRANCE. <LDG>. ML 1.6 (LDG).
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25  22 40 16.4   4.370 N   75.682 W   10 G  5.5 4.7  0.9  281  COLOMBIA. Mw 5.5 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                22:40:22.5; Lat 4.31 N; Lon 75.74 W; Dep 33.8; Half-
                                                                duration 1.3 sec; Principal axes (scale 10**17 Nm): (T)
                                                                Val=1.97, Plg=2, Azm=246; (N) Val=0.19, Plg=58, Azm=153;
                                                                (P) Val=-2.16, Plg=32, Azm=337; Best double couple:
                                                                Mo=2.1*10**17 Nm; NP1: Strike=17, Dip=67, Slip=-23; NP2:
                                                                Strike=116, Dip=69, Slip=-155.
25  22 45 57.6  44.021 N   11.922 E   33 N  4.2       1.1  195  NORTHERN ITALY. ML 4.8 (VIE), 4.6 (LDG), 4.6 (STR), 4.6
                                                                (FUR), 4.4 (FBB), 4.3 (PDG).
25  22 48 25.7  50.152 S  131.131 E   10 G  4.5       0.7   22  SOUTH OF AUSTRALIA
25  23 04 09.8& 38.580 N   25.530 E   21                     7  AEGEAN SEA. <ATH>. ML 3.1 (ATH).
25  23 34 22.6& 45.000 N    5.800 E    2                     5  FRANCE. <LDG>. ML 1.4 (LDG).
25  23 45 28.7   2.355 N  126.702 E   33 N  5.1 4.6  1.1   57  NORTHERN MOLUCCA SEA. Mw 5.5 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                23:45:37.8; Lat 2.94 N; Lon 126.68 E; Dep 47.2; Half-
                                                                duration 1.3 sec; Principal axes (scale 10**17 Nm): (T)
                                                                Val=1.52, Plg=72, Azm=123; (N) Val=0.28, Plg=0, Azm=31; (P)
                                                                Val=-1.81, Plg=18, Azm=301; Best double couple:
                                                                Mo=1.7*10**17 Nm; NP1: Strike=31, Dip=27, Slip=89; NP2:
                                                                Strike=212, Dip=63, Slip=90.
25  23 49 25.9* 31.594 S  179.932 W  500 G  4.6       1.1   25  KERMADEC ISLANDS REGION
26  00 01 31.1& 38.810 N   21.130 E   10                     6  GREECE. <ATH>. MD 2.8 (ATH).
26  00 12 16.3& 38.790 N   21.630 E    5    3.7              44  GREECE. <ATH>. MD 3.8 (ATH).
26  00 19 05.4& 67.533 N  146.162 W   35                    11  NORTHERN ALASKA. <AEIC>. ML 3.0 (AEIC).
26  00 35 16.0  51.669 N   16.113 E    5 G            0.9   31  POLAND. ML 4.1 (GRF), 3.8 (VIE), 3.7 (FUR).
26  01 07 17.8& 57.325 N  155.711 W   72    2.8              66  ALASKA PENINSULA. <AEIC>.
26  01 43 48.7*  5.514 S  151.376 E   61 *  4.5       1.0   16  NEW BRITAIN REGION, P.N.G.
26  01 54 20.7& 44.000 N    6.000 E    3                     9  FRANCE. <LDG>. ML 1.5 (LDG).
26  02 40 09.9?  1.90  S  125.69  E   33 N  4.0       1.4    8  SOUTHERN MOLUCCA SEA
26  04 20 06.5& 63.077 N  150.312 W  101                    41  CENTRAL ALASKA. <AEIC>.
26  04 56 37.1& 44.080 N    6.030 E    2 G                   37  FRANCE. <STR>. ML 2.0 (STR), 2.0 (LDG).
26  05 47 27.1? 21.94  S  179.73  W  595 ?  4.6       1.1   15  FIJI ISLANDS REGION
26  06 12 19.0* 24.140 S   66.608 W  214 *  3.9       1.2   12  SALTA PROVINCE, ARGENTINA
26  06 46 09.2& 32.455 S   72.056 W   22                    12  OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
26  06 50 26.8& 34.644 S   71.952 W   30                     9  NEAR COAST OF CENTRAL CHILE. <GUC>.
26  07 04 20.9  21.100 S  174.486 W   33 N  4.9 4.8  1.0   85  TONGA ISLANDS. Mw 5.2 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                07:04:24.8; Lat 21.29 S; Lon 173.94 W; Dep 20.8; Half-
                                                                duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                Val=7.62, Plg=64, Azm=330; (N) Val=1.06, Plg=17, Azm=200;
                                                                (P) Val=-8.68, Plg=19, Azm=104; Best double couple:
                                                                Mo=8.1*10**16 Nm; NP1: Strike=169, Dip=30, Slip=54; NP2:
                                                                Strike=28, Dip=66, Slip=109.
26  07 14 01.0* 36.383 N   70.720 E  191 ?  4.2       1.1   27  HINDU KUSH REGION, AFGHANISTAN
26  07 27 17.8* 28.167 N  140.930 E   79 ?  4.7       1.0   24  BONIN ISLANDS REGION
26  07 53 15.7& 37.830 N   23.180 E   31                     5  SOUTHERN GREECE. <ATH>. ML 3.0 (ATH).
26  08 21 58.2& 61.268 N  151.362 W   56                    59  SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC).
26  08 54 14.9& 34.303 N   32.148 E   25                     6  CYPRUS REGION. <CSS>. ML 3.1 (CSS).
26  09 07 55.6?  2.20  N  126.69  E  143 ?  4.5       0.7    8  NORTHERN MOLUCCA SEA
26  10 02 57.2   2.352 N  126.669 E   33 N  4.9 4.2  1.0   49  NORTHERN MOLUCCA SEA
26  10 10 53.7& 59.736 N  153.675 W  129    2.7              51  SOUTHERN ALASKA. <AEIC>.
26  11 16 08.4& 43.447 N   18.880 E   12                     5  NORTHWESTERN BALKAN REGION. <PDG>. ML 1.7 (PDG).
26  11 33 04.8& 42.245 N   19.625 E   16                     9  NORTHWESTERN BALKAN REGION. <PDG>. ML 1.8 (PDG).
26  11 46 02.4& 31.109 N   35.188 E    1                    16  DEAD SEA REGION. <GII>. ML 2.9 (GII).
26  12 14 56.8& 32.291 S   69.888 W  132                    13  MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 3.3 (GUC).
26  12 30 49.1  20.515 S  174.207 W   41 ?  5.5 5.5  0.9  139  TONGA ISLANDS. Mw 5.8 (GS), 5.7 (HRV).
                                                               Moment Tensor (GS): Dep 5; Principal axes (scale 10**17 Nm):
                                                               .(T) Val=5.38, Plg=51, Azm=265; (N) Val=0.11, Plg=18,
                                                                Azm=19; (P) Val=-5.49, Plg=33, Azm=121; Best double couple:
                                                                Mo=5.4*10**17 Nm; NP1: Strike=259, Dip=21, Slip=151; NP2:
                                                                Strike=16, Dip=80, Slip=71.
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                12:30:51.8; Lat 20.80 S; Lon 173.47 W; Dep 15.0 Bdy; Half-
                                                                duration 1.7 sec; Principal axes (scale 10**17 Nm): (T)
                                                                Val=3.97, Plg=68, Azm=301; (N) Val=0.55, Plg=6, Azm=196;
                                                                (P) Val=-4.52, Plg=21, Azm=104; Best double couple:
                                                                Mo=4.2*10**17 Nm; NP1: Strike=183, Dip=25, Slip=76; NP2:
                                                                Strike=19, Dip=66, Slip=97.
                                                               Scalar Moment (PPT): Mo=7.9*10**17 Nm.
26  13 18 05.4* 10.109 S  161.012 E   33 N  4.3       1.1   23  SOLOMON ISLANDS
26  13 18 58.8& 42.293 N   18.787 E    9                     7  NORTHWESTERN BALKAN REGION. <PDG>. ML 1.2 (PDG).
26  13 46 46.0? 14.10  N   92.28  W   33 N  4.0       1.3   15  NEAR COAST OF CHIAPAS, MEXICO
26  13 50 04.3* 16.236 N   99.409 W   10 G            1.2   19  NEAR COAST OF GUERRERO, MEXICO. MD 4.1 (UNM).
26  13 53 04.5& 36.800 N    3.030 W    1                    13  STRAIT OF GIBRALTAR. <MDD>. mbLg 2.6 (MDD).
26  13 54 07.2* 12.027 N  143.755 E   33 N  3.8       0.9   11  SOUTH OF MARIANA ISLANDS
26  15 40 12.0  46.647 N   15.165 E   10 G            1.3    7  NORTHWESTERN BALKAN REGION. ML 2.1 (VIE), 1.8 (LJU).
26  15 40 25.1* 17.034 S  177.117 W   33 N  4.9       1.4   33  FIJI ISLANDS REGION. Mw 5.3 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                15:40:26.5; Lat 16.99 S; Lon 176.81 W; Dep 15.0 Fix; Half-
                                                                duration 1.0 sec; Principal axes (scale 10**17 Nm): (T)
                                                                Val=0.78, Plg=2, Azm=269; (N) Val=0.23, Plg=57, Azm=175;
                                                                (P) Val=-1.00, Plg=33, Azm=1; Best double couple:
                                                                Mo=8.9*10**16 Nm; NP1: Strike=40, Dip=66, Slip=-23; NP2:
                                                                Strike=140, Dip=69, Slip=-154.
26  15 53 26.9   8.239 S  108.724 E   96    5.0       0.9   66  JAWA, INDONESIA. Mw 5.3 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                15:53:30.6; Lat 8.22 S; Lon 108.86 E; Dep 102.1; Half-
                                                                duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                Val=9.69, Plg=33, Azm=10; (N) Val=-1.65, Plg=54, Azm=162;
                                                                (P) Val=-8.04, Plg=14, Azm=271; Best double couple:
                                                                Mo=8.9*10**16 Nm; NP1: Strike=46, Dip=57, Slip=165; NP2:
                                                                Strike=144, Dip=78, Slip=34.
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26  16 18 30.0  17.762 S  178.809 W  596 *  4.7       1.0  105  FIJI ISLANDS REGION
26  19 34 05.5*  5.082 N  126.161 E  160 ?  4.4       1.4   18  MINDANAO, PHILIPPINE ISLANDS
26  19 50 04.1? 31.34  S   69.72  W  100 G            1.0   10  SAN JUAN PROVINCE, ARGENTINA. MD 3.4 (GUC).
26  20 51 40.3& 18.170 N   65.970 W   20                     7  PUERTO RICO REGION. <MPR>. MD 2.8 (MPR).
26  21 11 55.7* 27.557 S  177.132 W   33 N  5.1 4.6  1.2   43  KERMADEC ISLANDS REGION. Felt on Raoul.
26  21 13 48.6* 16.052 N   98.417 W   10 G            0.6    5  NEAR COAST OF GUERRERO, MEXICO. MD 3.8 (UNM).
26  21 49 28.0& 38.710 N  112.490 W    1                    22  UTAH. <SLC-P>. ML 3.2 (SLC).
26  21 53 41.0   4.593 S  153.499 E  117 *  4.7       1.1   36  NEW IRELAND REGION, P.N.G.
26  22 02 46.0& 38.720 N  112.490 W    1                    15  UTAH. <SLC-P>. ML 3.1 (SLC).
26  22 03 33.1*  2.566 S  120.797 E   33 N  4.1       0.8   10  SULAWESI, INDONESIA
26  22 48 36.2  16.118 N   98.073 W   33 N            1.1   19  NEAR COAST OF GUERRERO, MEXICO. MD 4.1 (UNM).
26  22 53 47.6* 18.670 N  145.791 E  285 ?  3.9       1.1   15  MARIANA ISLANDS
26  23 27 39.8& 32.925 S   70.514 W   93                     7  CHILE-ARGENTINA BORDER REGION. <GUC>.
26  23 30 36.8   7.693 N  126.629 E   84 ?  4.9       1.0   40  MINDANAO, PHILIPPINE ISLANDS. Mw 5.2 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                23:30:37.2; Lat 7.42 N; Lon 126.58 E; Dep 73.0; Half-
                                                                duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                Val=5.45, Plg=28, Azm=262; (N) Val=3.06, Plg=28, Azm=156;
                                                                (P) Val=-8.52, Plg=48, Azm=29; Best double couple:
                                                                Mo=7.0*10**16 Nm; NP1: Strike=39, Dip=30, Slip=-23; NP2:
                                                                Strike=149, Dip=79, Slip=-118.
26  23 31 42.6& 45.000 N    5.800 E    2                   52  FRANCE. <LDG>. ML 2.7 (LDG), 2.7 (STR).
26  23 34 00.0& 38.710 N  112.490 W    4                    6  UTAH. <SLC-P>. ML 2.8 (SLC).
26  23 49 30.0* 42.028 N   47.976 E   33 N  4.1       1.3   22  EASTERN CAUCASUS. Felt (III) at Derbent.
27  00 16 22.6  45.102 N    5.699 E   10 G            1.1   44  FRANCE. ML 2.9 (STR), 2.8 (LDG).
27  00 28 38.3*  4.747 S  153.782 E  100 G  4.0       0.6    9  NEW IRELAND REGION, P.N.G.
27  01 41 44.1  42.979 N   17.593 E   10 G            1.1   33  ADRIATIC SEA. ML 3.1 (PDG).
27  02 18 02.0? 22.11  S  170.33  E  100 G  4.1       1.1   12  LOYALTY ISLANDS REGION
27  02 31 30.8  49.206 N    6.912 E   10 G            0.7    8  GERMANY. ML 2.3 (FBB), 2.0 (UCC). Mining induced event in
                                                                the Lorraine region, France.
27  02 38 11.9* 51.092 N   15.710 E    5 G            1.0    5  POLAND. ML 2.5 (WAR).
27  02 54 13.9? 11.60  S  166.75  E  200 G  4.0       1.3   15  SANTA CRUZ ISLANDS
27  02 59 42.3  16.349 N   95.081 W   68 D  4.7       1.0   62  OAXACA, MEXICO. MD 4.5 (UNM).
27  03 20 23.9? 35.44  N   71.43  E   33 N  3.4       1.3    8  PAKISTAN
27  03 37 47.4  22.313 S  179.017 W  437 D  5.0       0.8  180  SOUTH OF FIJI ISLANDS. Mw 5.5 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                03:37:51.8; Lat 22.29 S; Lon 178.82 W; Dep 449.4; Half-
                                                                duration 1.4 sec; Principal axes (scale 10**17 Nm): (T)
                                                                Val=2.33, Plg=54, Azm=228; (N) Val=-0.02, Plg=30, Azm=13;
                                                                (P) Val=-2.31, Plg=17, Azm=113; Best double couple:
                                                                Mo=2.3*10**17 Nm; NP1: Strike=240, Dip=39, Slip=144; NP2:
                                                                Strike=0, Dip=68, Slip=57.
27  03 48 38.7& 33.871 S   68.593 W    0                   13  MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 4.0 (GUC).
27  03 58 42.8& 37.253 N  121.638 W    6                   22  CENTRAL CALIFORNIA. <GM-P>. Mw 3.7 (BRK). ML 3.8 (GM), 3.8
                                                                (BRK). Felt at Morgan Hill and San Jose.
                                                               Moment Tensor (BRK): Dep 8; Principal axes (scale 10**14
                                                                Nm): (T) Val=4.04, Plg=4, Azm=279; (N) Val=0.00, Plg=77,
                                                                Azm=27; (P) Val=-4.04, Plg=13, Azm=188; Best double couple:
                                                                Mo=4.0*10**14 Nm; NP1: Strike=233, Dip=84, Slip=-12; NP2:
                                                                Strike=324, Dip=78, Slip=-174.
27  04 25 11.9* 37.269 S   17.043 W   10 G  5.2 4.7  1.1   34  SOUTHERN MID-ATLANTIC RIDGE. Mw 5.4 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                04:25:16.0; Lat 37.85 S; Lon 16.73 W; Dep 15.0 Fix; Half-
                                                                duration 1.2 sec; Principal axes (scale 10**17 Nm): (T)
                                                                Val=1.64, Plg=30, Azm=260; (N) Val=-0.11, Plg=4, Azm=168;
                                                                (P) Val=-1.54, Plg=60, Azm=70; Best double couple:
                                                                Mo=1.6*10**17 Nm; NP1: Strike=4, Dip=16, Slip=-73; NP2:
                                                                Strike=166, Dip=75, Slip=-95.
27  04 43 10.2& 61.312 N  145.615 W   27                   61  SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC).
27  04 52 31.7& 41.825 N   19.738 E   17                   13  ALBANIA. <PDG>. ML 3.2 (PDG).
27  06 25 01.8  41.624 N   88.360 E   33 N  4.5       1.0   24  SOUTHERN XINJIANG, CHINA
27  06 35 24.8& 41.882 N   19.730 E   10                   12  ALBANIA. <PDG>. ML 2.5 (PDG).
27  07 55 21.4* 18.740 N   98.511 W   10 G            0.8   10  CENTRAL MEXICO. MD 3.4 (UNM).
27  08 09 01.9   5.317 S  146.764 E  230 D  5.4       0.9  133  EASTERN NEW GUINEA REG., P.N.G. Mw 5.9 (HRV), 5.8 (GS).
                                                               Moment Tensor (GS): Dep 230; Principal axes (scale 10**17
                                                                Nm): (T) Val=6.22, Plg=63, Azm=143; (N) Val=-0.15, Plg=27,
                                                                Azm=314; (P) Val=-6.08, Plg=3, Azm=46; Best double couple:
                                                                Mo=6.2*10**17 Nm; NP1: Strike=162, Dip=48, Slip=128; NP2:
                                                                Strike=293, Dip=54, Slip=56.
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                08:09:08.6; Lat 5.49 S; Lon 147.12 E; Dep 245.5; Half-
                                                                duration 2.2 sec; Principal axes (scale 10**17 Nm): (T)
                                                                Val=7.27, Plg=64, Azm=124; (N) Val=0.90, Plg=24, Azm=277;
                                                                (P) Val=-8.17, Plg=10, Azm=12; Best double couple:
                                                                Mo=7.7*10**17 Nm; NP1: Strike=128, Dip=40, Slip=128; NP2:
                                                                Strike=262, Dip=59, Slip=62.
27  08 20 31.6  48.376 N  156.213 E   71 D  5.2       0.8  184  EAST OF KURIL ISLANDS. Mw 5.4 (HRV). Felt (II) at Severo-
                                                                Kurilsk.
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                08:20:33.0; Lat 48.25 N; Lon 156.14 E; Dep 68.7; Half-
                                                                duration 1.2 sec; Principal axes (scale 10**17 Nm): (T)
                                                                Val=1.03, Plg=68, Azm=317; (N) Val=0.48, Plg=2, Azm=52; (P)
                                                                Val=-1.51, Plg=21, Azm=143; Best double couple:
                                                                Mo=1.3*10**17 Nm; NP1: Strike=236, Dip=24, Slip=95; NP2:
                                                                Strike=51, Dip=66, Slip=88.
27  09 15 00.8  45.821 N    5.279 E   10 G            0.1    6  FRANCE. ML 2.1 (LDG).
27  09 42 20.1% 38.040 S  176.281 E  200 G            0.5   16  NORTH ISLAND, NEW ZEALAND
27  09 47 37.2* 13.063 S  166.587 E   33 N            1.3    9  VANUATU ISLANDS
27  09 50 04.4*  4.616 S  153.709 E  100 G  4.2       0.8   12  NEW IRELAND REGION, P.N.G.
27  09 58 36.9* 17.875 N   95.479 W   33 N            1.3    8  OAXACA, MEXICO. MD 4.1 (UNM).
27  10 01 01.0  31.112 N   35.071 E   10 G            1.0    8  DEAD SEA REGION. ML 2.7 (GII).
27  10 12 12.6  17.190 N   99.960 W   33 N            0.9   17  GUERRERO, MEXICO. MD 3.8 (UNM).
27  10 13 53.8   6.711 N   82.678 W   10 G  5.4 5.3  1.0  208  SOUTH OF PANAMA. Mw 5.7 (HRV).
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													Centroid, Moment Tensor (HRV): Centroid origin time 10:13:56.9; Lat 6.55 N; Lon 82.59 W; Dep 15.0 Bdy; Half-duration 1.8 sec; Principal axes (scale 10**17 Nm): (T) Val=4.53, Plg=9, Azm=310; (N) Val=0.18, Plg=78, Azm=92; (P) Val=-4.71, Plg=7, Azm=219; Best double couple: Mo=4.6*10**17 Nm; NP1: Strike=354, Dip=79, Slip=178; NP2: Strike=84, Dip=88, Slip=11.
27	10	44	23.3	36.816	N	115.989	W	5	G	4.4	1.0	58	CALIFORNIA-NEVADA BORDER REGION. Mw 4.8 (BRK). ML 4.7 (GS). MD 4.4 (REN).
													Moment Tensor (BRK): Dep 8; Principal axes (scale 10**16 Nm): (T) Val=1.89, Plg=15, Azm=295; (N) Val=0.00, Plg=13, Azm=201; (P) Val=-1.89, Plg=70, Azm=72; Best double couple: Mo=1.9*10**16 Nm; NP1: Strike=194, Dip=61, Slip=-105; NP2: Strike=43, Dip=32, Slip=-65.
27	11	57	14.2*	31.481	S	71.190	W	33	N		1.2	16	NEAR COAST OF CENTRAL CHILE. MD 4.4 (GUC). Felt (III) at Cabildo and Papudo; (II) at Quillota.
27	12	13	24.5&	42.763	N	19.095	E	8				8	NORTHWESTERN BALKAN REGION. <PDG>. ML 1.5 (PDG).
27	12	37	07.5*	19.085	N	146.512	E	33	N	3.9	0.8	10	MARIANA ISLANDS REGION
27	12	45	39.8	18.944	N	63.263	W	33	N	4.1	1.2	44	LEEWARD ISLANDS. MD 4.1 (TRN).
27	12	54	45.3&	38.190	N	24.160	E	33	N			4	AEGEAN SEA. <ATH>. ML 2.4 (ATH).
27	13	12	06.8&	38.610	N	24.690	E	2				5	AEGEAN SEA. <ATH>. ML 2.9 (ATH).
27	13	18	29.4	36.832	N	115.947	W	5	G		0.9	11	CALIFORNIA-NEVADA BORDER REGION. ML 3.1 (GS). MD 3.2 (REN).
27	13	33	28.8	36.789	N	115.930	W	5	G		0.6	10	CALIFORNIA-NEVADA BORDER REGION. ML 2.8 (GS). MD 2.8 (REN).
27	13	44	40.0	38.981	N	0.084	W	10	G		1.0	29	SPAIN. mbLg 3.1 (MDD). Felt (IV) at Bellreguart and Oliva; (III) at Gandia.
27	13	47	28.7*	42.657	N	7.682	W	10	G		0.7	5	SPAIN. mbLg 2.7 (MDD).
27	14	06	37.7*	6.992	N	73.341	W	151	*	4.3	1.0	38	NORTHERN COLOMBIA
27	14	09	21.9&	10.364	N	61.822	W	3				4	TRINIDAD. <TRN>. MD 2.3 (TRN).
27	15	53	42.8*	15.650	S	175.123	W	200	G	4.3	0.7	26	TONGA ISLANDS
27	17	51	23.4&	59.832	N	153.394	W	133				55	SOUTHERN ALASKA. <AEIC>.
27	18	28	53.4&	36.660	N	7.760	W	15				9	STRAIT OF GIBRALTAR. <MDD>. mbLg 1.9 (MDD).
27	19	07	38.1&	10.948	N	62.224	W	49				5	NEAR COAST OF VENEZUELA. <TRN>. MD 3.1 (TRN).
27	19	07	52.2	55.855	N	110.817	E	10	G	4.1	1.2	14	LAKE BAYKAL REGION, RUSSIA
27	20	00	46.5	46.202	N	14.711	E	10	G		1.0	6	NORTHWESTERN BALKAN REGION. ML 2.0 (VIE).
27	21	24	32.2	40.466	S	71.938	W	33	N	4.5	0.7	28	S. CHILE-ARGENTINA BORDER REGION
27	21	55	53.0&	38.380	N	21.900	E	5				4	GREECE. <ATH>. MD 2.7 (ATH).
27	22	40	32.3*	35.488	N	89.587	E	33	N	3.6	0.8	8	XIZANG
27	23	57	08.3&	37.510	N	3.470	W	8				10	SPAIN. <MDD>. mbLg 2.1 (MDD).
28	00	19	55.0&	32.771	S	71.794	W	37				11	NEAR COAST OF CENTRAL CHILE. <GUC>.
28	01	11	39.0&	45.200	N	7.500	E	2				6	NORTHERN ITALY. <LDG>. ML 2.0 (LDG).
28	01	17	33.5?	21.53	S	174.74	W	192	?	4.3	0.8	22	TONGA ISLANDS
28	01	25	43.3	36.242	N	137.924	E	10	G	4.9 4.3	1.0	65	EASTERN HONSHU, JAPAN. Felt (IV JMA) in central Nagano; (III JMA) in other parts of Nagano; (II JMA) in parts of Aichi, western Niigata and western Saitama; (I JMA) as far as northern Nara and Kanagawa Prefectures.
28	02	35	21.6?	18.52	S	178.12	W	600	G	3.7	0.4	8	FIJI ISLANDS REGION
28	02	46	30.3	44.092	N	128.995	W	10	G	4.2	1.1	37	OFF COAST OF OREGON
28	03	47	38.5?	7.03	S	149.79	E	72	?	3.9	0.7	9	NEW BRITAIN REGION, P.N.G.
28	03	54	29.6?	45.67	N	26.53	E	130	G		0.3	6	ROMANIA
28	03	55	30.7	16.563	N	99.306	W	10	G		0.9	15	NEAR COAST OF GUERRERO, MEXICO. MD 4.0 (UNM).
28	04	04	24.6*	35.973	N	70.536	E	123	?	4.0	1.0	11	HINDU KUSH REGION, AFGHANISTAN
28	04	13	45.8&	43.800	N	7.700	E	2				6	NEAR SOUTH COAST OF FRANCE. <LDG>. ML 2.0 (LDG).
28	05	07	41.3?	35.52	S	178.04	E	400	G		0.4	13	OFF E. COAST OF N. ISLAND, N.Z.
28	05	17	41.7*	37.184	N	141.195	E	10	G		1.4	7	NEAR EAST COAST OF HONSHU, JAPAN
28	05	29	51.1*	34.357	N	25.934	E	33	N		0.9	6	CRETE. MD 3.4 (ATH).
28	07	05	48.4&	35.038	S	71.202	W	83				10	CENTRAL CHILE. <GUC>.
28	07	23	23.8&	44.855	N	6.799	E	8				4	FRANCE. <GEN>. ML 1.6 (GEN).
28	07	25	28.7&	44.875	N	6.801	E	11				9	FRANCE. <GEN>. ML 2.1 (GEN).
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). Minor damage at Nikolski. Also felt at Akutan, Dutch Harbor and Unalaska.
													Broadband Source Parameters (GS): Dep 59; NP1: Strike=280, Dip=80, Slip=60; NP2: Strike=173, Dip=31, Slip=161; Radiated energy 1.1*10**14 Nm. Two events about 2 seconds apart. Depth based on first event.
													Moment Tensor (GS): Dep 58; Principal axes (scale 10**18 Nm): (T) Val=8.03, Plg=53, Azm=166; (N) Val=0.22, Plg=18, Azm=281; (P) Val=-8.25, Plg=31, Azm=22; Best double couple: Mo=8.1*10**18 Nm; NP1: Strike=156, Dip=21, Slip=146; NP2: Strike=278, Dip=78, Slip=72.
													Centroid, Moment Tensor (HRV): Centroid origin time 08:10:08.8; Lat 52.86 N; Lon 169.10 W; Dep 51.1; Half-duration 4.9 sec; Principal axes (scale 10**18 Nm): (T) Val=9.46, Plg=60, Azm=167; (N) Val=-0.03, Plg=14, Azm=283; (P) Val=-9.43, Plg=26, Azm=20; Best double couple: Mo=9.4*10**18 Nm; NP1: Strike=139, Dip=23, Slip=129; NP2: Strike=278, Dip=73, Slip=75.
													Scalar Moment (PPT): Mo=9.3*10**18 Nm.
28	09	55	32.5*	11.915	N	93.067	E	118	?		0.8	11	ANDAMAN ISLANDS, INDIA
28	10	20	59.5	11.581	N	86.592	W	71		4.4	1.1	48	NEAR COAST OF NICARAGUA. MD 4.2 (SJR).
28	10	48	39.3	33.999	N	25.807	E	10	G		1.3	24	EASTERN MEDITERRANEAN SEA. MD 3.9 (ATH).
28	11	30	55.4?	24.50	S	67.40	W	33	N	4.2	0.9	6	CHILE-ARGENTINA BORDER REGION
28	12	22	06.3*	52.835	N	169.294	W	33	N	3.0	0.5	6	FOX ISLANDS, ALEUTIAN ISLANDS
28	12	39	02.6	36.789	N	115.986	W	5	G	3.0	0.7	16	CALIFORNIA-NEVADA BORDER REGION. ML 3.4 (GS). MD 3.1 (REN).
28	12	51	50.8	10.580	S	74.901	W	65	*	5.0	1.0	78	CENTRAL PERU
28	13	44	45.9	36.729	N	116.064	W	5	G		0.7	9	CALIFORNIA-NEVADA BORDER REGION. MD 2.8 (REN).
28	14	05	32.7*	19.281	S	177.552	W	600	G	4.9	1.2	28	FIJI ISLANDS REGION
28	14	07	42.7&	32.864	S	70.334	W	103				13	CHILE-ARGENTINA BORDER REGION. <GUC>.
28	14	56	02.3*	20.811	S	66.548	W	237	*	4.0	0.9	19	SOUTHERN BOLIVIA
28	17	17	46.9	51.734	N	161.013	E	33	N	4.3	0.8	21	OFF EAST COAST OF KAMCHATKA
28	17	34	12.3*	7.038	S	150.744	E	33	N	4.1	1.0	9	NEW BRITAIN REGION, P.N.G.
28	17	57	50.0%	24.043	N	94.449	E	100	?		0.6	7	MYANMAR-INDIA BORDER REGION
28	18	06	52.1	52.889	N	162.881	E	33	N	4.6	0.9	33	OFF EAST COAST OF KAMCHATKA

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28  18 24 25.2   4.582 S  153.658 E  101 D  5.6       1.2  131  NEW IRELAND REGION, P.N.G. Mw 6.4 (GS), 6.4 (HRV). Me 5.8
                                                                 (GS).
                                                                Broadband Source Parameters (GS): Dep 85; NP1: Strike=195,
                                                                 Dip=45, Slip=120; NP2: Strike=336, Dip=52, Slip=63;
                                                                 Radiated energy 1.0*10**13 Nm. A small event is followed
                                                                 about 4 seconds later by a larger event. Depth based on
                                                                 first event.
                                                                Moment Tensor (GS): Dep 86; Principal axes (scale 10**18
                                                                 Nm): (T) Val=3.58, Plg=76, Azm=209; (N) Val=0.80, Plg=7,
                                                                 Azm=329; (P) Val=-4.38, Plg=12, Azm=60; Best double couple:
                                                                 Mo=4.0*10**18 Nm; NP1: Strike=160, Dip=33, Slip=103; NP2:
                                                                 Strike=324, Dip=58, Slip=81.
                                                                Centroid, Moment Tensor (HRV): Centroid origin time
                                                                 18:24:31.9; Lat 4.50 S; Lon 153.55 E; Dep 95.5; Half-
                                                                 duration 3.6 sec; Principal axes (scale 10**18 Nm): (T)
                                                                 Val=3.77, Plg=76, Azm=222; (N) Val=0.29, Plg=2, Azm=321;
                                                                 (P) Val=-4.06, Plg=13, Azm=52; Best double couple:
                                                                 Mo=3.9*10**18 Nm; NP1: Strike=145, Dip=32, Slip=94; NP2:
                                                                 Strike=320, Dip=58, Slip=87.
                                                                Scalar Moment (PPT): Mo=4.4*10**18 Nm.
28  18 41 20.4*  2.159 S  138.151 E   33 N  4.3       1.1   12  IRIAN JAYA, INDONESIA
28  18 44 10.3*  3.131 S  129.831 E   33 N  4.6       1.2   13  SERAM, INDONESIA
28  19 00 08.8  34.160 N   25.829 E   33 N  4.6       1.2  135  CRETE. MD 4.2 (ATH).
28  19 16 09.0* 34.307 N   25.826 E   33 N            1.3    9  CRETE. MD 3.5 (ATH).
28  19 23 09.4* 17.418 S  178.791 W  600 G  4.0       0.6   12  FIJI ISLANDS REGION
28  19 25 49.1& 58.884 N  154.641 W  128    3.0            51  ALASKA PENINSULA. <AEIC>.
28  19 26 16.7?  3.23  S   68.55  E   10 G            1.0   11  CHAGOS ARCHIPELAGO REGION
28  19 45 22.3?  3.51  S   68.45  E   10 G            1.0   13  CHAGOS ARCHIPELAGO REGION
28  19 52 38.6& 33.378 S   71.322 W   45                     8  NEAR COAST OF CENTRAL CHILE. <GUC>.
28  19 56 55.2& 17.306 N  101.426 W    4                     8  NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.9 (UNM).
28  20 10 01.7& 16.678 N   94.192 W  164                     5  OAXACA, MEXICO. <UNM>. MD 3.9 (UNM).
28  20 18 40.9? 51.31  N  177.48  W   33 N            1.3    7  ANDREANOF ISLANDS, ALEUTIAN IS.
28  20 20 18.6& 35.900 N   27.400 E    5                     7  DODECANESE ISLANDS. <ATH>. MD 3.8 (ATH).
28  20 38 42.4  55.238 N  162.093 E   33 N  4.7       0.7   46  NEAR EAST COAST OF KAMCHATKA
28  20 57 15.0% 41.686 S  174.400 E   10 G            0.2    7  COOK STRAIT, NEW ZEALAND. ML 4.2 (WEL).
28  21 11 52.5*  4.841 S  153.347 E  100 G  4.4       0.5    7  NEW IRELAND REGION, P.N.G.
28  21 43 05.3& 15.963 N   97.613 W   16                     8  NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 4.0 (UNM).
28  22 18 14.5* 20.754 S  169.092 E   33 N  4.3       1.3   22  VANUATU ISLANDS
28  22 21 16.2*  3.961 N  126.450 E   33 N  4.5       0.6    8  TALAUD ISLANDS, INDONESIA
28  22 28 10.7? 15.74  S   26.18  E   10 G  3.9       1.2    6  ZAMBIA
28  22 32 03.7& 58.010 N  151.808 W    0    3.2            15  KODIAK ISLAND REGION. <AEIC>. ML 3.4 (AEIC), 3.8 (PMR).
28  22 52 45.2  85.561 N   85.993 E   10 G  4.7 4.7  1.1   77  NORTH OF SEVERNAYA ZEMLYA. Mw 5.4 (HRV).
                                                                Centroid, Moment Tensor (HRV): Centroid origin time
                                                                 22:52:46.8; Lat 85.26 N; Lon 85.27 E; Dep 15.0 Fix; Half-
                                                                 duration 1.0 sec; Principal axes (scale 10**17 Nm): (T)
                                                                 Val=1.36, Plg=28, Azm=37; (N) Val=-0.07, Plg=1, Azm=306;
                                                                 (P) Val=-1.29, Plg=62, Azm=215; Best double couple:
                                                                 Mo=1.3*10**17 Nm; NP1: Strike=130, Dip=17, Slip=-87; NP2:
                                                                 Strike=306, Dip=73, Slip=-91.
28  23 24 58.7? 17.33  S  179.03  W  500 G  4.1       1.0   13  FIJI ISLANDS REGION
28  23 56 14.8& 19.491 N   99.340 W    1                     6  CENTRAL MEXICO. <UNM>. MD 2.7 (UNM).
29  00 08 54.1* 36.496 N   76.426 E   33 N  3.9       1.7   11  KASHMIR-XINJIANG BORDER REGION
29  00 36 57.2? 51.13  N   15.91  E    5 G            0.4    4  POLAND. ML 2.7 (WAR).
29  00 53 20.3? 45.50  N   16.73  E    5 G            0.6    5  NORTHWESTERN BALKAN REGION. ML 2.6 (VIE), 2.5 (ZAG), 2.0
                                                                 (LJU).
29  01 09 16.9  15.859 S  179.748 W   33 N  5.3 5.7  1.1  124  FIJI ISLANDS REGION. Mw 5.9 (GS), 5.9 (HRV).
                                                                Moment Tensor (GS): Dep 32; Principal axes (scale 10**17
                                                                 Nm): (T) Val=8.46, Plg=12, Azm=320; (N) Val=-0.53, Plg=77,
                                                                 Azm=114; (P) Val=-7.93, Plg=6, Azm=229; Best double couple:
                                                                 Mo=8.2*10**17 Nm; NP1: Strike=4, Dip=78, Slip=176; NP2:
                                                                 Strike=95, Dip=86, Slip=12.
                                                                Centroid, Moment Tensor (HRV): Centroid origin time
                                                                 01:09:19.9; Lat 15.73 S; Lon 179.41 W; Dep 15.0 Fix; Half-
                                                                 duration 2.3 sec; Principal axes (scale 10**17 Nm): (T)
                                                                 Val=8.62, Plg=3, Azm=142; (N) Val=0.18, Plg=83, Azm=25; (P)
                                                                 Val=-8.80, Plg=6, Azm=233; Best double couple:
                                                                 Mo=8.7*10**17 Nm; NP1: Strike=277, Dip=83, Slip=-2; NP2:
                                                                 Strike=8, Dip=88, Slip=-173.
29  01 12 48.9  51.627 N   16.176 E    5 G            0.8   35  POLAND. ML 4.3 (GRF), 3.9 (WAR), 3.9 (FUR), 3.8 (VIE).
29  01 19 53.0& 18.086 N   95.458 W  116                     8  VERACRUZ, MEXICO. <UNM>. MD 4.0 (UNM).
29  01 27 14.9  18.447 N  145.665 E  191 D  4.3       1.0   43  MARIANA ISLANDS
29  01 53 17.6* 85.386 N   85.985 E   10 G  3.7       1.1    9  NORTH OF SEVERNAYA ZEMLYA
29  01 53 24.5?  9.40  S  113.90  E   33 N            1.5    6  SOUTH OF JAWA, INDONESIA
29  02 18 24.2& 32.243 S   71.738 W   15                     8  NEAR COAST OF CENTRAL CHILE. <GUC>.
29  02 23 41.9* 85.310 N   88.302 E   10 G  3.2       0.7    5  NORTH OF SEVERNAYA ZEMLYA
29  03 36 16.3?  4.67  S  153.81  E  100 G  4.1       0.7    7  NEW IRELAND REGION, P.N.G.
29  04 20 03.7& 32.187 S   71.583 W   45                    14  NEAR COAST OF CENTRAL CHILE. <GUC>. Felt (III) at La Ligua
                                                                 and Petorca; (II) at Santiago.
29  04 21 20.1& 41.643 N   19.635 E   11                    12  ALBANIA. <PDG>. ML 2.2 (PDG).
29  04 47 25.2* 47.326 N  154.527 E   33 N  4.4       1.1   18  KURIL ISLANDS
29  04 49 52.1?  4.79  S  153.74  E  100 G  4.0       0.8    6  NEW IRELAND REGION, P.N.G.
29  04 57 08.2* 31.919 S   68.099 W  150 G            1.0   15  SAN JUAN PROVINCE, ARGENTINA
29  04 58 28.5& 35.670 N    4.540 W   98                     6  STRAIT OF GIBRALTAR. <MDD>.
29  05 14 08.2& 11.696 N   61.881 W   53                     4  WINDWARD ISLANDS. <TRN>. MD 3.1 (TRN).
29  05 22 31.0  30.446 N   50.530 E   33 N  4.7 4.2  1.0  104  NORTHERN IRAN
29  05 44 23.8  44.657 N  115.705 E   10 G  4.9 4.5  1.0   78  NORTHEASTERN CHINA. Mw 5.0 (HRV).
                                                                Centroid, Moment Tensor (HRV): Centroid origin time
                                                                 05:44:24.5; Lat 44.67 N; Lon 116.37 E; Dep 15.0 Fix; Half-
                                                                 duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                 Val=4.29, Plg=17, Azm=353; (N) Val=-0.90, Plg=64, Azm=225;
                                                                 (P) Val=-3.39, Plg=19, Azm=89; Best double couple:
                                                                 Mo=3.8*10**16 Nm; NP1: Strike=130, Dip=64, Slip=-2; NP2:
                                                                 Strike=221, Dip=88, Slip=-154.
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29  06 06 56.6   4.503 N   75.741 W   10 G            1.3    9  COLOMBIA. ML 3.9 (RSNC).
29  06 09 14.3* 51.487 N   16.260 E    5 G            0.5    9  POLAND. ML 3.6 (VIE), 3.5 (GRF), 3.4 (WAR).
29  06 10 33.0& 60.184 N  141.084 W    0                    13  SOUTHEASTERN ALASKA. <AEIC>. ML 2.9 (AEIC), 2.7 (PGC).
29  06 28 01.1  15.300 N   94.514 W   10 G  4.8       1.1   88  NEAR COAST OF OAXACA, MEXICO. MD 4.5 (UNM).
29  06 32 43.4  10.141 S  151.277 E   33 N  4.3       0.9   17  D'ENTRECASTEAUX ISLANDS REGION
29  06 52 13.5& 33.417 S   71.143 W   66                    12  NEAR COAST OF CENTRAL CHILE. <GUC>.
29  06 52 38.2& 42.879 N   17.730 E    7                    10  ADRIATIC SEA. <PDG>. ML 2.5 (PDG).
29  07 16 38.1* 46.804 S   33.440 E   10 G  4.1       0.9   11  PRINCE EDWARD ISLANDS REGION
29  07 46 02.0  36.832 N    4.459 E   10 G            0.7   37  NORTHERN ALGERIA. mbLg 2.7 (MDD).
29  08 13 41.1& 31.629 S   69.962 W  144                    11  SAN JUAN PROVINCE, ARGENTINA. <GUC>.
29  08 13 57.0& 40.450 N  125.310 W    3                    14  OFF COAST OF NORTHERN CALIFORNIA. <GM-P>. ML 3.6 (GM), 3.6
                                                                 (BRK).
29  08 30 14.9? 85.33  N   88.89  E   10 G  3.5       1.1    4  NORTH OF SEVERNAYA ZEMLYA
29  08 40 55.1  51.507 N   16.241 E    5 G            0.7   11  POLAND. ML 3.6 (VIE), 3.2 (WAR).
29  08 50 02.3? 85.29  N   89.06  E   10 G  3.4       0.9    4  NORTH OF SEVERNAYA ZEMLYA
29  08 53 43.1   0.787 N  126.603 E   33 N  4.8       0.7   27  NORTHERN MOLUCCA SEA
29  09 25 03.8* 10.023 S  151.515 E   33 N  4.2       1.2   13  D'ENTRECASTEAUX ISLANDS REGION
29  09 48 37.8& 35.840 N    4.820 W   68                    19  STRAIT OF GIBRALTAR. <MDD>.
29  10 58 01.1* 46.256 N   16.090 E   10 G            1.0    6  NORTHWESTERN BALKAN REGION. ML 1.2 (LJU).
29  11 20 02.5* 12.626 S  169.458 E  650 G  4.1       0.5   12  SANTA CRUZ ISLANDS REGION
29  11 50 43.3?  7.16  S  105.19  E   33 N  4.2       1.3   10  JAWA, INDONESIA
29  12 01 21.2  29.137 N  130.158 E   60 D  4.3       1.2   28  RYUKYU ISLANDS
29  12 11 30.9* 86.141 N   77.893 E   10 G  3.6       1.5    8  NORTH OF SEVERNAYA ZEMLYA
29  12 26 40.8  35.708 N    4.427 E   10 G  3.6       0.9   32  NORTHERN ALGERIA. mbLg 3.1 (MDD).
29  12 29 16.3?  4.32  S  152.67  E  126 *  4.5       1.4    7  NEW BRITAIN REGION, P.N.G.
29  12 40 29.2? 33.64  S  179.53  E  200 G  4.1       0.7    9  SOUTH OF KERMADEC ISLANDS
29  13 36 15.9* 20.445 S  173.973 W   33 N  4.5       0.7   26  TONGA ISLANDS
29  13 40 35.5   4.488 S  153.423 E  124    4.5       0.9   35  NEW IRELAND REGION, P.N.G.
29  15 01 26.6& 37.850 N   20.830 E    5                     9  IONIAN SEA. <ATH>. ML 3.5 (ATH).
29  15 04 29.1  18.734 S  169.251 E  237 D  5.3       1.0  155  VANUATU ISLANDS. Mw 5.5 (HRV).
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  15:04:32.2; Lat 18.80 S; Lon 169.44 E; Dep 243.8; Half-
                                                                  duration 1.3 sec; Principal axes (scale 10**17 Nm): (T)
                                                                  Val=1.81, Plg=35, Azm=30; (N) Val=0.07, Plg=44, Azm=162;
                                                                  (P) Val=-1.88, Plg=26, Azm=281; Best double couple:
                                                                  Mo=1.9*10**17 Nm; NP1: Strike=62, Dip=45, Slip=173; NP2:
                                                                  Strike=157, Dip=85, Slip=46.
29  15 31 24.5& 35.400 N    7.100 W   16                    16  STRAIT OF GIBRALTAR. <MDD>. mbLg 2.9 (MDD).
29  16 07 32.2? 20.39  S  175.80  W  250 G  3.8       0.9   11  TONGA ISLANDS
29  16 38 13.6* 17.773 S  172.600 W   33 N  4.6       0.9   19  TONGA ISLANDS REGION
29  16 45 11.1* 57.124 N  120.663 E   10 G  4.2       1.1   10  SOUTHEASTERN SIBERIA, RUSSIA
29  17 00 37.1& 38.630 N   24.140 E   20                     5  AEGEAN SEA. <ATH>. MD 3.0 (ATH).
29  17 07 59.8& 17.240 N   94.746 W  140                     5  CHIAPAS, MEXICO. <UNM>. MD 3.9 (UNM).
29  17 28 06.3& 32.354 S   71.421 W   44                     9  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
29  17 33 34.4& 38.480 N   24.120 E   13                     5  AEGEAN SEA. <ATH>. MD 3.1 (ATH).
29  17 52 47.9? 39.05  N   10.68  W   10 G            0.4    7  NORTH ATLANTIC OCEAN. mbLg 2.4 (MDD).
29  18 02 34.7& 46.800 N    6.800 E    2                     8  SWITZERLAND. <LDG>. ML 2.3 (LDG), 2.3 (STR).
29  18 07 20.3& 44.383 N    7.308 E   12                     6  NORTHERN ITALY. <GEN>. ML 1.5 (GEN).
29  18 42 32.6  28.139 N  111.894 W   10 G  4.7       1.1   50  GULF OF CALIFORNIA
29  18 51 16.8* 31.162 S   68.976 W  100 G            1.1   15  SAN JUAN PROVINCE, ARGENTINA. MD 3.8 (GUC).
29  20 08 02.9& 34.049 S   70.380 W    9                    10  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.6 (GUC).
29  20 41 49.9? 45.82  N   26.76  E  150 G            0.6    5  ROMANIA
29  22 06 15.8  36.744 N  137.578 E   10 G            0.8   10  EASTERN HONSHU, JAPAN
29  22 10 24.1& 38.370 N   21.940 E    5                     5  GREECE. <ATH>. MD 2.9 (ATH).
29  22 18 40.6* 34.449 N   25.908 E   33 N            0.9   11  CRETE. MD 3.6 (ATH).
29  22 52 30.3  28.054 S   66.658 W  168 D  4.8       1.1   83  CATAMARCA PROVINCE, ARGENTINA
29  22 59 27.2? 38.41  S  176.45  E  200 G            0.3    7  NORTH ISLAND, NEW ZEALAND
29  23 49 17.8& 33.381 S   68.636 W    0                     9  MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 3.5 (GUC).
30  00 19 16.5& 31.770 S   71.752 W   13                     8  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
30  00 33 04.2*  4.630 S  153.614 E  111 *  4.2       0.5   11  NEW IRELAND REGION, P.N.G.
30  01 51 26.3*  4.617 S  153.695 E  111 *  4.1       0.7   12  NEW IRELAND REGION, P.N.G.
30  01 54 59.4& 61.009 N  150.094 W   22                    61  SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC), 3.2 (PMR).
30  02 17 19.3&  4.382 N   75.663 W    5                     5  COLOMBIA. <RSNC>. ML 2.4 (RSNC).
30  02 35 38.8& 18.670 N   66.750 W   18                     9  PUERTO RICO REGION. <MPR>. MD 3.0 (MPR).
30  03 05 09.9  37.521 N   72.378 E  205 D  4.1       0.8   47  TAJIKISTAN
30  03 40 12.4*  4.558 S  153.540 E  115 *  4.2       0.7   13  NEW IRELAND REGION, P.N.G.
30  03 41 01.6&  4.443 N   75.699 W    8                     5  COLOMBIA. <RSNC>. ML 2.1 (RSNC).
30  03 51 05.4  41.674 N   88.463 E   23 D  5.9 5.3    0.9  380  SOUTHERN XINJIANG, CHINA. Mw 5.5 (HRV), 5.4 (GS). Me 5.5
                                                                  (GS).
                                                                 Broadband Source Parameters (GS): Dep 19; NP1: Strike=110,
                                                                  Dip=40, Slip=90; NP2: Strike=290, Dip=50, Slip=90; Radiated
                                                                  energy 4.2*10**12 Nm.
                                                                 Moment Tensor (GS): Dep 17; Principal axes (scale 10**17
                                                                  Nm): (T) Val=1.45, Plg=77, Azm=265; (N) Val=-0.02, Plg=12,
                                                                  Azm=104; (P) Val=-1.43, Plg=4, Azm=13; Best double couple:
                                                                  Mo=1.4*10**17 Nm; NP1: Strike=90, Dip=42, Slip=71; NP2:
                                                                  Strike=294, Dip=50, Slip=106.
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  03:51:10.1; Lat 41.67 N; Lon 88.70 E; Dep 23.3 Fix; Half-
                                                                  duration 1.2 sec; Principal axes (scale 10**17 Nm): (T)
                                                                  Val=1.75, Plg=80, Azm=169; (N) Val=-0.06, Plg=5, Azm=289;
                                                                  (P) Val=-1.68, Plg=9, Azm=20; Best double couple:
                                                                  Mo=1.7*10**17 Nm; NP1: Strike=116, Dip=36, Slip=99; NP2:
                                                                  Strike=286, Dip=54, Slip=84.
30  04 16 02.6  23.479 S  179.923 E  550 G  4.3       0.8   42  SOUTH OF FIJI ISLANDS
30  04 17 09.0& 43.180 N  110.760 W    0                    32  WYOMING. <USBR>. MD 2.9 (USBR).
30  04 18 35.2  29.627 S   60.768 E   10 G  5.0 4.5    0.9   30  SOUTHWEST INDIAN RIDGE. Mw 5.1 (HRV).
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  04:18:40.4; Lat 29.42 S; Lon 60.83 E; Dep 15.0 Fix; Half-
                                                                  duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                  Val=5.75, Plg=0, Azm=133; (N) Val=-0.15, Plg=90, Azm=180;
                                                                  (P) Val=-5.60, Plg=0, Azm=43; Best double couple:
                                                                  Mo=5.7*10**16 Nm; NP1: Strike=178, Dip=90, Slip=-180; NP2:
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Day	Origin time	Lat	Long	Depth	mb	Ms	SE	No	Region and comments
									Strike=268, Dip=90, Slip=0.
30	04 21 54.9%	4.344 N	75.692 W	10 G			1.1	5	COLOMBIA. ML 2.4 (RSNC).
30	04 48 36.5&	44.294 N	7.316 E	15				25	NORTHERN ITALY. <GEN>. ML 2.5 (LDG), 2.4 (GEN), 2.3 (STR).
30	05 01 33.0	43.149 N	110.753 W	5 G			1.1	25	WYOMING. ML 2.8 (GS), 3.2 (BUT).
30	05 57 18.0&	44.463 N	6.964 E	6				10	FRANCE. <GEN>. ML 2.1 (GEN).
30	06 00 12.0&	33.346 S	72.016 W	15				12	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
30	06 14 27.7&	31.762 S	72.187 W	7				11	OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.2 (GUC).
30	07 41 25.7*	4.510 S	153.460 E	120 *	4.3		1.1	23	NEW IRELAND REGION, P.N.G.
30	07 57 41.0&	49.140 N	6.860 E	1				10	GERMANY. <FBB>. ML 2.5 (FBB), 2.2 (UCC). Mining induced event in the Lorraine region, France.
30	08 33 38.9&	15.689 N	98.833 W	12	3.4			8	OFF COAST OF GUERRERO, MEXICO. <UNM>. MD 3.9 (UNM).
30	08 49 29.0	1.528 N	126.409 E	33 N	5.3		1.0	78	NORTHERN MOLUCCA SEA. Mw 5.1 (HRV). Felt (III) at Bitung, Indonesia.
									Centroid, Moment Tensor (HRV): Centroid origin time 08:49:37.0; Lat 2.25 N; Lon 126.60 E; Dep 63.6; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.25, Plg=7, Azm=285; (N) Val=0.62, Plg=11, Azm=17; (P) Val=-5.87, Plg=77, Azm=163; Best double couple: Mo=5.6*10**16 Nm; NP1: Strike=2, Dip=39, Slip=-108; NP2: Strike=205, Dip=53, Slip=-76.
30	08 49 31.3&	17.680 N	67.540 W	5				6	MONA PASSAGE. <MPR>. MD 2.9 (MPR).
30	09 05 47.0&	37.550 N	112.210 W	2	3.2			16	UTAH. <SLC-P>. ML 3.0 (SLC).
30	09 08 16.6*	6.202 S	152.850 E	33 N	4.0		0.9	8	NEW BRITAIN REGION, P.N.G.
30	09 34 07.4&	38.800 N	21.890 E	5				5	GREECE. <ATH>. MD 2.9 (ATH).
30	09 45 44.7	52.614 N	169.814 W	33 N	4.2		0.7	22	FOX ISLANDS, ALEUTIAN ISLANDS
30	10 07 13.7	48.351 N	153.111 E	146 ?	4.1		0.7	37	KURIL ISLANDS
30	10 10 57.2&	38.370 N	21.850 E	5				8	GREECE. <ATH>. ML 3.1 (ATH).
30	10 12 51.5*	5.222 S	142.650 E	126 *	3.8		1.1	8	NEW GUINEA, PAPUA NEW GUINEA
30	10 26 29.1?	3.80 S	133.25 E	33 N	4.0		0.6	5	IRIAN JAYA REGION, INDONESIA
30	10 42 25.2&	59.832 N	152.853 W	92	2.7			60	SOUTHERN ALASKA. <AEIC>.
30	12 08 47.7*	85.508 N	80.983 E	10 G	4.0		0.5	10	NORTH OF SEVERNAYA ZEMLYA
30	12 24 00.7*	3.771 S	101.794 E	33 N	4.6		0.7	21	SOUTHERN SUMATERA, INDONESIA
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.
30	13 15 56.1&	37.150 N	20.690 E	5				4	IONIAN SEA. <ATH>. MD 3.0 (ATH).
30	14 00 44.5?	2.02 S	138.14 E	33 N	4.0		1.2	6	IRIAN JAYA, INDONESIA
30	14 05 13.2?	4.46 S	153.70 E	100 G	3.9		0.6	5	NEW IRELAND REGION, P.N.G.
30	14 43 47.3&	35.974 N	119.686 W	24				9	CENTRAL CALIFORNIA. <GM-P>. MD 3.0 (GM). ML 2.9 (PAS).
30	15 26 07.8?	36.47 N	71.04 E	230 *			0.7	9	AFGHANISTAN-TAJIKISTAN BORD REG.
30	15 34 20.5&	33.908 S	71.185 W	55				11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.8 (GUC).
30	16 22 58.0&	47.940 N	7.580 E	8				22	SWITZERLAND. <FBB>. ML 2.4 (LDG), 2.1 (FBB).
30	16 36 59.7	7.048 S	146.580 E	10 G	3.6		0.8	9	EASTERN NEW GUINEA REG., P.N.G.
30	16 41 11.2?	18.82 S	172.04 W	33 N	4.6		1.1	13	TONGA ISLANDS REGION
30	16 44 50.2*	44.536 N	149.591 E	48 D	4.1		1.1	22	KURIL ISLANDS
30	16 56 26.0*	1.396 N	126.222 E	33 N	4.5		1.0	18	NORTHERN MOLUCCA SEA
30	16 58 40.4&	36.810 N	21.270 E	5				4	SOUTHERN GREECE. <ATH>. MD 3.1 (ATH).
30	17 04 38.8&	61.746 N	150.432 W	38				69	SOUTHERN ALASKA. <AEIC>. ML 3.6 (AEIC), 3.6 (PMR).
30	18 40 56.8*	44.681 N	149.627 E	33 N	4.3		1.3	17	KURIL ISLANDS
30	18 41 43.5&	32.024 S	69.685 W	128				9	MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 3.3 (GUC).
30	19 04 25.3	4.661 N	127.687 E	127 D	4.6		0.8	23	TALAUD ISLANDS, INDONESIA
30	19 26 51.1?	57.15 N	120.58 E	10 G			0.7	4	SOUTHEASTERN SIBERIA, RUSSIA
30	19 48 33.1?	60.94 S	20.14 W	10 G			0.6	7	SOUTHWESTERN ATLANTIC OCEAN
30	20 12 07.4	4.544 S	153.551 E	100 G	4.9		1.0	49	NEW IRELAND REGION, P.N.G. Mw 5.1 (HRV).
									Centroid, Moment Tensor (HRV): Centroid origin time 20:12:08.1; Lat 4.78 S; Lon 153.57 E; Dep 78.6; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.65, Plg=72, Azm=207; (N) Val=0.75, Plg=4, Azm=309; (P) Val=-5.40, Plg=18, Azm=40; Best double couple: Mo=5.0*10**16 Nm; NP1: Strike=136, Dip=27, Slip=98; NP2: Strike=307, Dip=63, Slip=86.
30	20 23 32.7	43.189 N	110.788 W	10 G			0.8	15	WYOMING. ML 2.8 (GS).
30	20 27 41.9	30.046 N	138.499 E	462 D	4.4		0.7	31	SOUTH OF HONSHU, JAPAN
30	20 29 15.9	43.143 N	110.752 W	5 G			1.0	34	WYOMING. ML 3.6 (GS), 3.9 (BUT).
30	20 44 52.2	43.172 N	110.771 W	5 G			0.9	30	WYOMING. ML 3.2 (GS), 3.6 (BUT).
30	21 02 20.4	85.718 N	84.369 E	10 G	4.2		1.0	17	NORTH OF SEVERNAYA ZEMLYA
30	21 45 52.5&	37.850 N	23.180 E	29				4	SOUTHERN GREECE. <ATH>. MD 2.7 (ATH).
30	22 12 04.1*	28.806 N	130.420 E	33 N	3.9		1.2	11	RYUKYU ISLANDS
30	22 25 49.2*	12.980 S	169.397 E	700 G	4.8		0.6	18	SANTA CRUZ ISLANDS REGION
30	23 15 52.4	27.582 S	65.958 W	47	4.5		1.0	48	TUCUMAN PROVINCE, ARGENTINA
30	23 24 04.4&	34.086 N	117.434 W	3				37	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.6 (PAS). MD 3.4 (ECX). Felt at Bloomington, Colton, Fontana, Rialto and Riverside.
30	23 33 08.7	37.476 N	72.231 E	197 *	4.1		0.6	37	TAJIKISTAN
30	23 35 27.4&	37.780 N	23.170 E	5				4	SOUTHERN GREECE. <ATH>. ML 2.6 (ATH).
31	00 13 14.0*	46.304 S	166.218 E	33 N	4.3		1.3	19	OFF W. COAST OF S. ISLAND, N.Z.
31	00 30 02.5*	85.579 N	83.828 E	10 G	3.9		1.1	8	NORTH OF SEVERNAYA ZEMLYA
31	00 36 25.2*	4.573 S	153.553 E	120 *	4.3		0.9	12	NEW IRELAND REGION, P.N.G.
31	01 35 42.7*	45.008 N	148.154 E	33 N	4.2		1.1	18	KURIL ISLANDS
31	02 57 27.9&	44.499 N	7.219 E	10				5	NORTHERN ITALY. <GEN>. ML 1.8 (GEN).
31	03 19 33.2?	0.04 N	126.43 E	33 N	4.1		1.4	8	NORTHERN MOLUCCA SEA
31	03 38 42.6	15.261 N	94.679 W	38 D	4.8		1.1	98	NEAR COAST OF OAXACA, MEXICO. MD 4.7 (UNM).
31	03 44 13.9?	0.26 N	124.45 E	132 ?	4.2		0.5	9	MINAHASSA PENINSULA, SULAWESI
31	05 01 54.1&	44.294 N	7.338 E	13				9	NORTHERN ITALY. <GEN>. ML 1.9 (GEN).
31	05 07 13.6	43.157 N	46.841 E	33 N	5.3	5.4	1.2	316	EASTERN CAUCASUS. Mw 5.9 (OBN), 5.8 (GS), 5.7 (HRV). Me 5.4 (GS). Felt (VI) at Buynaksk, Kizilyurt and Makhachkala; (V) at Kaspiysk; (IV) at Babayurt and Gofitskoye.
									Broadband Source Parameters (GS): Dep 13; NP1: Strike=130, Dip=20, Slip=90; NP2: Strike=310, Dip=70, Slip=90; Radiated energy 2.5*10**12 Nm.
									Moment Tensor (GS): Dep 11; Principal axes (scale 10**17 Nm): (T) Val=5.15, Plg=54, Azm=218; (N) Val=-0.32, Plg=6, Azm=316; (P) Val=-4.83, Plg=36, Azm=50; Best double couple: Mo=5.0*10**17 Nm; NP1: Strike=166, Dip=11, Slip=121; NP2: Strike=315, Dip=81, Slip=84.

Centroid, Moment Tensor (HRV): Centroid origin time 05:07:17.9; Lat 43.56 N; Lon 47.14 E; Dep 30.1; Half-duration 2.2 sec; Principal axes (scale 10**17 Nm): (T) Val=4.40, Plg=71, Azm=262; (N) Val=0.13, Plg=13, Azm=132; (P) Val=-4.53, Plg=14, Azm=38; Best double couple: Mo=4.5*10**17 Nm; NP1: Strike=111, Dip=33, Slip=66; NP2: Strike=319, Dip=60, Slip=105.
Moment Tensor (OBN); Principal axes: (T) Plg=64, Azm=197; (N) Plg=5, Azm=297; (P) Plg=26, Azm=29; Best double couple: Mo=8.3*10**17 Nm; NP1: Strike=130, Dip=20, Slip=104; NP2: Strike=295, Dip=71, Slip=85.

31	05	33	51.1&	33.970	S	70.851	W	79					13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.7 (GUC).
31	05	42	34.0*	4.492	N	75.771	W	10	G			1.2	6	COLOMBIA. ML 2.7 (RSNC).
31	06	09	43.8?	4.64	S	153.74	E	100	G	4.2		1.0	8	NEW IRELAND REGION, P.N.G.
31	06	17	25.4&	4.425	N	75.706	W	2					8	COLOMBIA. <RSNC>. ML 2.9 (RSNC).
31	07	26	42.3*	4.443	N	75.679	W	10	G			0.4	5	COLOMBIA. ML 2.2 (RSNC).
31	07	35	53.5*	38.001	N	9.456	W	10	G			0.5	17	PORTUGAL. mbLg 2.1 (MDD).
31	07	44	39.6?	7.10	N	73.45	W	150	G	3.9		0.8	7	NORTHERN COLOMBIA
31	07	53	22.9?	23.04	S	66.33	W	243	*	3.6		1.2	10	JUJUY PROVINCE, ARGENTINA
31	07	55	53.1&	35.343	N	118.540	W	0					32	CENTRAL CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
31	08	12	11.5?	9.86	S	121.89	E	200	*	4.1		1.1	7	SAVU SEA
31	08	16	04.1	43.036	N	47.021	E	33	N	4.5		1.1	36	EASTERN CAUCASUS. Felt (IV) at Makhachkala.
31	08	25	19.1&	32.651	S	70.663	W	89					11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.8 (GUC).
31	08	27	05.1*	11.576	S	117.237	E	33	N	4.2		0.8	8	SOUTH OF SUMBAWA, INDONESIA
31	08	34	22.1	6.990	N	33.603	W	10	G	4.9	4.4	0.9	79	CENTRAL MID-ATLANTIC RIDGE
31	08	37	29.0	42.945	N	46.970	E	33	N	4.0		0.9	23	EASTERN CAUCASUS
31	08	42	10.3?	6.00	S	127.23	E	374	?	4.2		1.0	8	BANDA SEA
31	09	05	21.3?	6.18	S	145.93	E	117	?			0.6	6	NEW GUINEA, PAPUA NEW GUINEA
31	09	48	15.5	43.168	N	110.741	W	5	G			0.5	16	WYOMING. ML 2.8 (GS).
31	10	47	29.4&	35.740	N	5.000	W	90					17	STRAIT OF GIBRALTAR. <MDD>.
31	11	05	57.6&	48.279	N	118.682	W	11					25	WASHINGTON. <SEA-P>. MD 3.1 (SEA).
31	11	20	32.4*	4.445	S	153.523	E	120	*	4.2		0.8	23	NEW IRELAND REGION, P.N.G.
31	11	30	13.4	4.655	S	153.812	E	100	G	4.3		0.9	22	NEW IRELAND REGION, P.N.G.
31	11	40	11.5*	43.077	N	46.940	E	33	N	3.9		1.2	12	EASTERN CAUCASUS. Felt (III) at Makhachkala.
31	11	53	32.7*	3.404	N	126.023	E	100	G	4.4		1.3	23	TALAUD ISLANDS, INDONESIA
31	12	06	12.6*	43.135	N	46.633	E	33	N	4.2		1.4	11	EASTERN CAUCASUS
31	12	16	13.1	38.393	N	21.911	E	10	G	4.2		1.4	54	GREECE. ML 4.0 (ATH).
31	12	41	58.7&	46.300	N	6.400	E	15					10	SWITZERLAND. <LDG>. ML 2.2 (LDG).
31	14	02	56.1*	9.897	N	126.221	E	33	N	4.3		0.9	19	MINDANAO, PHILIPPINE ISLANDS
31	14	08	35.2*	2.799	N	95.533	E	33	N			0.6	11	OFF W COAST OF NORTHERN SUMATERA
31	14	23	11.3*	2.502	N	128.459	E	33	N	4.0		0.9	9	HALMAHERA, INDONESIA
31	14	23	26.6*	51.510	N	16.055	E	5	G			0.7	10	POLAND. ML 3.2 (VIE), 3.1 (WAR).
31	14	31	47.2*	3.824	N	96.070	E	57	D	4.1		1.1	18	NORTHERN SUMATERA, INDONESIA
31	14	36	18.6?	30.94	S	68.35	W	100	G			1.1	14	SAN JUAN PROVINCE, ARGENTINA. MD 3.9 (GUC).
31	15	55	25.9&	34.510	N	8.970	W	22					18	WEST OF GIBRALTAR. <MDD>. mbLg 2.6 (MDD).
31	16	09	47.0?	52.44	N	169.83	W	33	N			0.8	5	FOX ISLANDS, ALEUTIAN ISLANDS
31	16	20	39.5&	33.132	S	70.305	W	4					10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
31	16	28	27.6&	38.150	N	21.980	E	5					22	GREECE. <ATH>. ML 3.5 (ATH).
31	16	42	02.3*	22.099	S	179.562	W	558	?	4.6		0.8	24	SOUTH OF FIJI ISLANDS
31	16	51	51.1	37.148	N	141.339	E	44	D	5.3	4.9	0.7	213	NEAR EAST COAST OF HONSHU, JAPAN. Mw 5.3 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 16:51:53.5; Lat 37.03 N; Lon 141.69 E; Dep 41.2; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.09, Plg=72, Azm=278; (N) Val=0.09, Plg=4, Azm=22; (P) Val=-1.18, Plg=17, Azm=113; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=210, Dip=28, Slip=99; NP2: Strike=20, Dip=62, Slip=85.

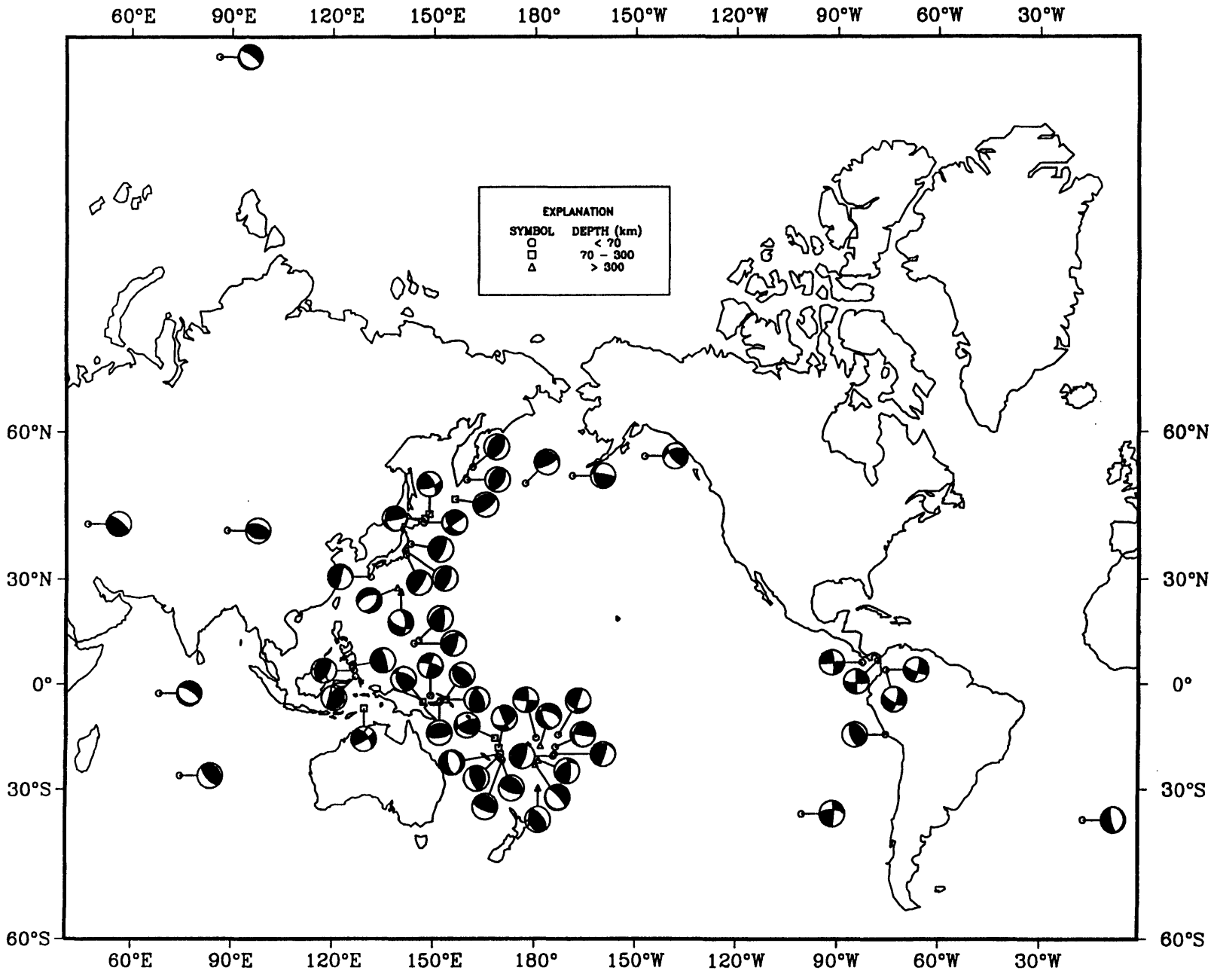
31	17	01	26.1*	37.184	N	141.623	E	46	D	4.4		0.9	15	NEAR EAST COAST OF HONSHU, JAPAN
31	17	15	58.1?	4.66	S	153.60	E	113	*	4.0		0.7	10	NEW IRELAND REGION, P.N.G.
31	19	29	11.0	43.455	N	146.960	E	33	N	5.6	5.2	0.8	315	KURIL ISLANDS. Mw 5.7 (HRV). Felt (II JMA) in eastern Hokkaido. Also felt (I JMA) in southeastern Aomori and west-central Iwate Prefectures, Honshu.

Centroid, Moment Tensor (HRV): Centroid origin time 19:29:16.8; Lat 43.28 N; Lon 146.98 E; Dep 28.4; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=3.23, Plg=28, Azm=1; (N) Val=1.99, Plg=49, Azm=234; (P) Val=-5.21, Plg=28, Azm=107; Best double couple: Mo=4.2*10**17 Nm; NP1: Strike=144, Dip=49, Slip=0; NP2: Strike=54, Dip=90, Slip=139.

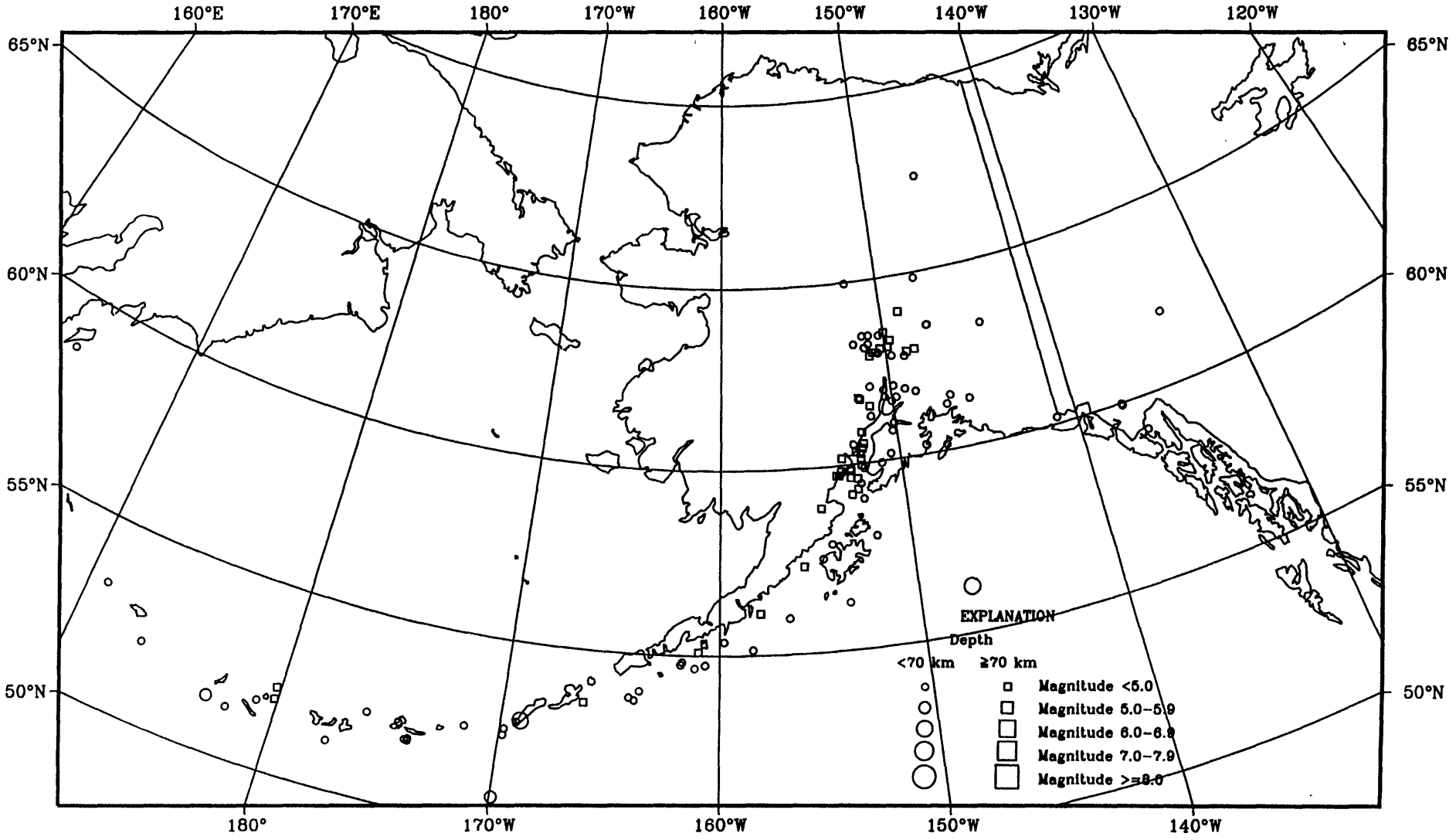
31	19	44	56.5*	4.640	S	153.659	E	115	*	4.3		0.9	20	NEW IRELAND REGION, P.N.G.
31	21	00	50.6*	34.127	N	25.702	E	33	N	3.4		1.4	12	CRETE. MD 3.6 (ATH).
31	21	01	09.6&	32.751	S	71.807	W	16					11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
31	21	28	24.5?	27.76	S	178.44	W	354	?	4.2		1.4	19	KERMADEC ISLANDS REGION
31	21	37	34.2&	32.101	S	70.377	W	117					8	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.8 (GUC).
31	21	52	20.7	46.046	N	14.790	E	10	G			0.3	7	NORTHWESTERN BALKAN REGION. ML 2.5 (VIE), 1.9 (LJU).
31	22	36	32.6&	38.830	N	22.680	E	9					7	GREECE. <ATH>. ML 3.1 (ATH).
31	22	44	31.8&	33.148	S	71.510	W	55					12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
31	22	51	52.2*	27.561	N	55.044	E	33	N	3.9		0.9	16	SOUTHERN IRAN
31	23	20	28.2&	31.188	S	72.208	W	1					9	OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.3 (GUC).

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

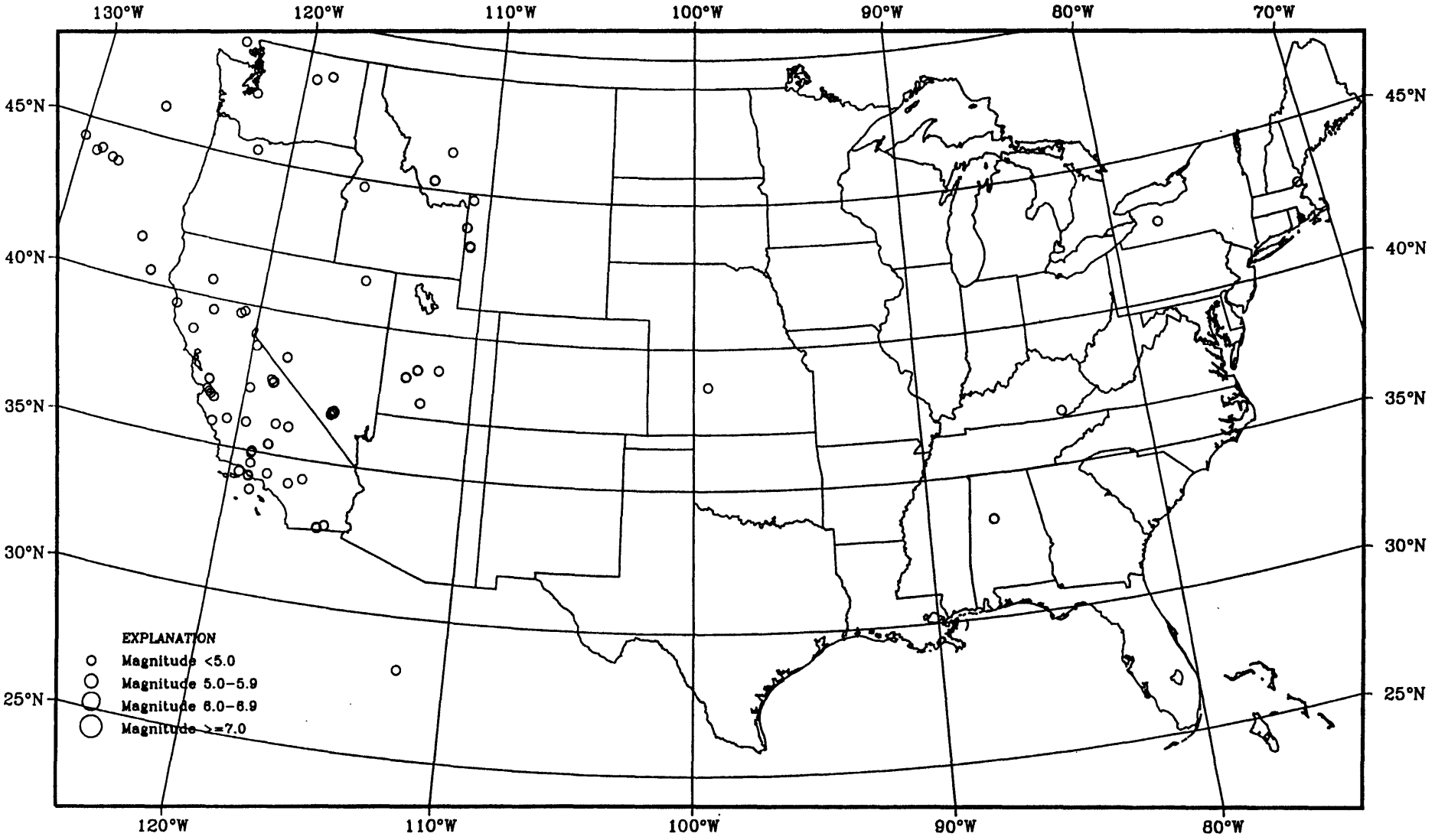
Earthquake Focal Mechanisms for January 1999



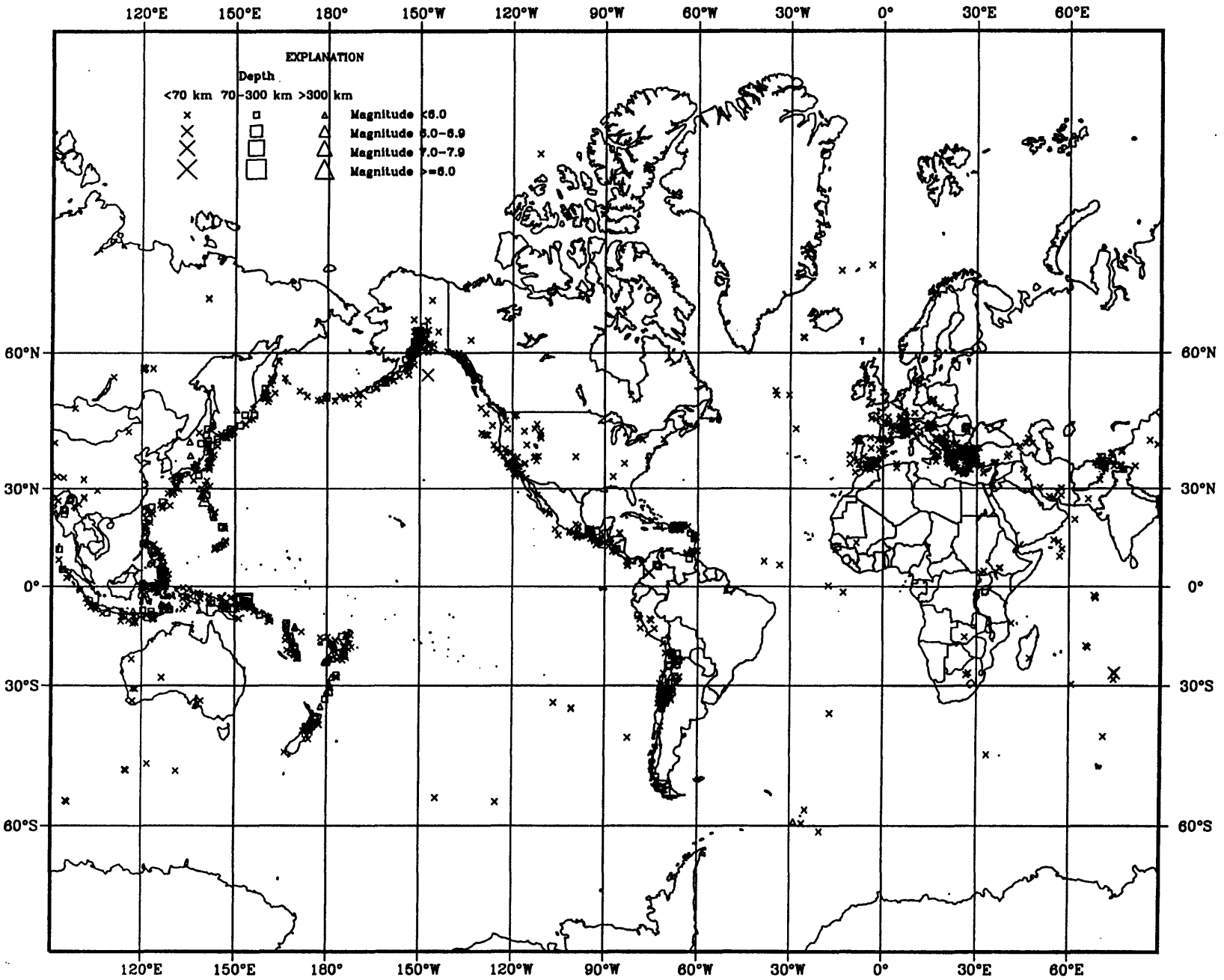
Earthquake epicenters in Alaska and adjacent regions for January 1999



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



Earthquakes located worldwide in January 1999



SIGNIFICANT EARTHQUAKES OF THE WORLD, 1998

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 GS MB	Msz	SD	NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
JAN 01	06 11 22.6	23.913 N	141.907 E	96 D	6.4	5.8	0.9	388	VOLCANO ISLANDS REGION. Mw 6.3 (GS), 6.4 (HRV). Me 6.5 (GS). mb 6.6 (BRK). Es=1.3*10**14 Nm (GS). Mo=3.5*10**18 Nm (GS). Mo=3.8*10**18 Nm (HRV).
JAN 04	06 11 58.9	22.301 S	170.911 E	101 D	6.4		0.9	423	LOYALTY ISLANDS REGION. Mw 7.3 (GS), 7.5 (HRV). Me 6.8 (GS). Es=3.5*10**14 Nm (GS). Mo=1.1*10**20 Nm (GS). Mo=1.8*10**20 Nm (HRV). Mo=1.0*10**20 Nm (PPT). Felt at Noumea, New Caledonia. Complex earthquake, with at least two larger events occurring about 13 and 23 seconds after the onset.
JAN 10	03 50 41.5	41.083 N	114.500 E	30	5.8	5.7	0.9	401	NORTHEASTERN CHINA. Mw 5.7 (GS), 5.7 (HRV). Me 5.8 (GS). Es=1.2*10**13 Nm (GS). Mo=4.1*10**17 Nm (GS). Mo=4.5*10**17 Nm (HRV). Seventy people killed, about 11,500 injured, 44,000 families left homeless, extensive damage and fires in the Shangyi-Zhangbei area. Over 70,000 houses were damaged or destroyed. Damage to portions of the Great Wall of China in northwestern Hebei Province. Felt strongly at Zhangjiakou and as far as Beijing.
JAN 10	08 20 05.7	14.374 N	91.473 W	33 N	6.1	6.2	0.9	450	GUATEMALA. Mw 6.6 (GS), 6.6 (HRV). Mo=8.8*10**18 Nm (GS). Mo=9.0*10**18 Nm (HRV). Mo=9.5*10**18 Nm (PPT). At least 16 people injured in Quezaltenango and 3 injured in San Marcos Departments. Five people injured in the Guatemala City area. Three people also injured in El Salvador. Landslides, power outages and buildings damaged in Quezaltenango and San Marcos Departments. Several houses destroyed in Solola Department. Felt throughout southern and western Guatemala as far as Alta Verapaz and Zacapa Departments. Also felt in El Salvador and parts of southern Mexico.
JAN 12	10 14 07.6	30.985 S	71.410 W	35 D	5.8	6.2	1.0	230	NEAR COAST OF CENTRAL CHILE. Mw 6.6 (GS), 6.6 (HRV). Me 6.1 (GS). Ms 6.2 (BRK). Es=2.9*10**13 Nm (GS). Mo=9.7*10**18 Nm (GS). Mo=8.7*10**18 Nm (HRV). Mo=1.2*10**19 Nm (PPT). Felt (VI) at Combarbala and Ovalle; (V) at Coquimbo, Illapel, La Serena, Los Andes and Los Vilos; (IV) at Rancagua, San Antonio and Valparaiso; (III) at Santiago. Two events about 3.5 seconds apart.
JAN 12	16 36 20.2	15.848 S	179.376 W	23 D	5.8	6.7	1.2	277	FIJI ISLANDS REGION. Mw 6.7 (GS), 6.7 (HRV). Me 6.9 (GS). Ms 6.9 (BRK). Es=4.9*10**14 Nm (GS). Mo=1.2*10**19 Nm (GS). Mo=1.2*10**19 Nm (HRV). Mo=2.3*10**19 Nm (PPT). Two events about 3 seconds apart.
JAN 14	17 24 10.3	15.731 S	179.329 W	33 N	5.8	6.5	1.0	198	FIJI ISLANDS REGION. Mw 6.6 (GS), 6.5 (HRV). Ms 6.7 (BRK). Mo=7.9*10**18 Nm (GS). Mo=7.4*10**18 Nm (HRV). Mo=1.3*10**19 Nm (PPT).
JAN 27	21 05 44.3	22.411 S	179.035 E	610 D	5.6		0.9	379	SOUTH OF FIJI ISLANDS. Mw 6.5 (GS), 6.5 (HRV). Me 5.9 (GS). Es=1.4*10**13 Nm (GS). Mo=5.5*10**18 Nm (GS). Mo=5.4*10**18 Nm (HRV).
JAN 30	12 16 08.6*	23.913 S	70.207 W	42 G	6.3	6.5	1.1	385	NEAR COAST OF NORTHERN CHILE. Mw 7.0 (GS), 7.1 (HRV). Me 6.6 (GS). Ms 6.3 (BRK). Es=1.7*10**14 Nm (GS). Mo=3.5*10**19 Nm (GS). Mo=4.4*10**19 Nm (HRV). Mo=4.2*10**19 Nm (PPT). One person suffered a heart attack at Antofagasta. Minor damage to older buildings (VII) at Antofagasta. Felt (VII) at Calama and Collahuasi; (VI) at Maria Elena, Taltal and Tocopilla; (V) at Copiapo, Chanaral and San Pedro de Atacama; (IV) at Iquique; (III) at Caldera; (II) at La Serena.
FEB 03	03 02 00.2	15.883 N	96.298 W	33 N	6.0	6.2	1.0	430	NEAR COAST OF OAXACA, MEXICO. Mw 6.4 (GS), 6.3 (HRV). Me 6.2 (GS). MD 6.4 (UNM). Ms 6.1 (BRK). Es=3.9*10**13 Nm (GS). Mo=4.0*10**18 Nm (GS). Mo=3.7*10**18 Nm (HRV). Mo=5.0*10**18 Nm (PPT). Moderate damage at San Agustin, San Francisco and Santa Maria Huatulco. Minor damage at Bahias de Huatulco, Oaxaca City, Puerto Angel and Puerto Escondido. Landslides occurred on the highway between San Pedro Pochulta and Santa Maria Tonameca. Felt in much of southern Mexico, including Mexico City. Two events about 3 seconds apart.

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
FEB 04	14 33 21.2	37.075 N	70.089 E	33 N	5.6	6.1	1.0	300	AFGHANISTAN-TAJIKISTAN BORD REG. Mw 5.9 (GS), 5.9 (HRV), 5.8 (OBN). Mo=8.7*10**17 Nm (GS). Mo=8.4*10**17 Nm (HRV). Mo=6.0*10**17 Nm (OBN). At least 2,323 people killed, 818 injured, 8,094 houses destroyed, 6,725 livestock killed and landslides in the Rostaq area, Afghanistan. Felt (III) at Dushanbe, Tajikistan and (II) at Toshkent, Uzbekistan.
FEB 11	13 14 46.2	10.331 N	124.990 E	57 D	5.5		1.0	97	LEYTE, PHILIPPINE ISLANDS. Mw 5.5 (GS), 5.5 (HRV). Mo=2.3*10**17 Nm (GS). Mo=2.3*10**17 Nm (HRV). Six people injured, a fishing pier destroyed, at least 11 buildings damaged, roads cracked and water pipes damaged at Sogod. Felt (IV RF) at Tacloban and Palo. Also felt (III RF) at Cabagna-an, Negros and Lapu-Lapu, Mactan; (II RF) at Cebu, Cebu Island and Surigao, Mindanao.
FEB 16	23 53 19.7	52.718 N	33.677 W	10 G	6.1	6.6	0.8	447	NORTH ATLANTIC OCEAN. Mw 6.7 (GS), 6.8 (HRV). Me 7.3 (GS). Ms 6.5 (BRK). Es=2.2*10**15 Nm (GS). Mo=1.1*10**19 Nm (GS). Mo=1.5*10**19 Nm (HRV).
FEB 19	14 14 51.1	4.476 S	129.082 E	33 N	6.1	6.4	0.9	378	BANDA SEA. Mw 6.5 (GS), 6.5 (HRV). Me 6.7 (GS). Ms 6.3 (BRK). Es=2.9*10**14 Nm (GS). Mo=5.6*10**18 Nm (GS). Mo=6.8*10**18 Nm (HRV). Felt (IV) on Ambon, Indonesia.
FEB 20	12 18 06.2	36.479 N	71.086 E	236 D	5.8	5.7	1.1	419	AFGHANISTAN-TAJIKISTAN BORD REG. Mw 6.4 (GS), 6.4 (HRV). Me 6.0 (GS). Es=2.4*10**13 Nm (GS). Mo=4.1*10**18 Nm (GS). Mo=4.0*10**18 Nm (HRV). One person killed and three injured at Yar Husain, six injured at Rawalpindi and two injured at Peshawar, Pakistan. An earthquake-induced avalanche destroyed 35 houses, including a mosque, left 300 people homeless and killed several dozen cattle and sheep in the Astor area, Kashmir. Damage occurred from Chitral to Swabi, Pakistan, in western Kashmir and in the Rostaq area, Afghanistan. Felt in much of northern Pakistan as far south as Lahore and in northeastern Afghanistan as far as Kabul and Mazar-e Sharif. Felt (V) at Dushanbe and Khorugh, Tajikistan; (IV) at Andijon and Farghona, Uzbekistan; (III) at Bishkek and Osh, Kyrgyzstan. Also felt (III) at Samarqand and Toshkent, Uzbekistan.
FEB 21	00 55 42.3	37.222 N	138.684 E	33 N	5.3	4.5	0.8	234	NEAR WEST COAST OF HONSHU, JAPAN. Mw 5.1 (HRV). Mo=4.8*10**16 Nm (HRV). One person injured in Niigata Prefecture. Felt (IV JMA) in central Niigata; (III JMA) in Gumma, northern Nagano and western Niigata Prefectures.
MAR 14	19 40 27.0	30.154 N	57.605 E	9 G	5.9	6.9	1.2	395	NORTHERN IRAN. Mw 6.6 (GS), 6.6 (HRV). Me 6.6 (GS). Es=1.7*10**14 Nm (GS). Mo=7.7*10**18 Nm (GS). Mo=9.4*10**18 Nm (HRV). Mo=1.3*10**19 Nm (PPT). Five people killed, 50 injured, 10,000 homeless, 2,000 houses destroyed, 1,200 livestock killed and utilities disrupted in the Golbaf area. Felt at Baft and Kerman.
MAR 19	13 51 33.7	39.977 N	76.731 E	33 N	5.4	5.6	0.9	265	SOUTHERN XINJIANG, CHINA. Mw 5.6 (GS), 5.6 (HRV). Mo=3.0*10**17 Nm (GS). Mo=3.3*10**17 Nm (HRV). About 400 houses destroyed and some livestock killed 90 km northeast of Artux. Felt at Artux and Kashi. Also felt at Almaty, Kazakhstan.
MAR 20	21 08 08.5	50.008 S	163.107 E	10 G	5.8	6.1	1.3	118	AUCKLAND ISLANDS REGION. Mw 6.7 (GS), 6.7 (HRV). Mo=1.2*10**19 Nm (GS). Mo=1.3*10**19 Nm (HRV).
MAR 21	16 33 11.0	79.888 N	1.856 E	10 G	5.9	6.1	1.0	175	GREENLAND SEA. Mw 6.1 (GS), 6.2 (HRV), 6.2 (CSEM). Me 6.7 (GS). Ms 6.2 (BRK). Es=2.2*10**14 Nm (GS). Mo=1.8*10**18 Nm (GS). Mo=2.6*10**18 Nm (HRV). Mo=2.4*10**18 Nm (CSEM).
MAR 25	03 12 25.0	62.877 S	149.527 E	10 G	6.6	8.0	1.1	418	BALLENY ISLANDS REGION. Mw 7.8 (GS), 8.1 (HRV). Me 8.8 (GS). Ms 8.1 (BRK). Es=3.3*10**17 Nm (GS). Mo=6.0*10**20 Nm (GS). Mo=1.7*10**21 Nm (HRV). Mo=9.0*10**20 Nm (PPT). Believed to be the largest instrumentally recorded earthquake in this area to date. Complex earthquake, with a larger event occurring about 10 seconds after onset.
MAR 26	16 26 11.5	43.255 N	12.969 E	10 G	5.4	4.8	1.3	377	CENTRAL ITALY. Mw 5.4 (HRV). ML 5.6 (STR), 5.6 (VIE), 5.5 (FBB), 5.5 (LDG), 5.0 (LJU), 5.0 (ROM). Mo=1.5*10**17 Nm (HRV). One person died of a heart attack at Perugia. Additional minor damage (VII) to buildings weakened by earthquakes of September 26, 1997 and their aftershocks. Damage occurred at Camerino, Sant Ippolito and Urbino. Felt from Bologna to Rome. Felt (IV) at Ljubljana, Slovenia and felt throughout Slovenia. Also felt in parts of Salzburg and Tirol, Austria.
MAR 29	19 48 16.2	17.552 S	179.092 W	537 D	6.5		1.0	553	FIJI ISLANDS REGION. Mw 7.1 (GS), 7.2 (HRV). Me 7.2 (GS). mb 7.2 (BRK). Es=1.2*10**15 Nm (GS). Mo=5.2*10**19 Nm (GS). Mo=6.4*10**19 Nm (HRV). Mo=2.6*10**19 Nm (PPT).

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
APR 01	17 56 23.3	0.544 S	99.261 E	56	6.2	6.9	0.9	506	SOUTHERN SUMATERA, INDONESIA. Mw 6.9 (GS), 7.0 (HRV). Me 6.5 (GS). Ms 6.6 (BRK). Es=1.4*10**14 Nm (GS). Mo=2.8*10**19 Nm (GS). Mo=3.3*10**19 Nm (HRV). Mo=1.0*10**19 Nm (PPT). Felt strongly at Padang. Felt in Singapore and in the Kuala Lumpur area, Malaysia. Two events about 2 seconds apart.
APR 01	22 42 56.9	40.316 S	74.874 W	9 G	6.2	6.0	1.1	315	OFF COAST OF SOUTHERN CHILE. Mw 6.6 (GS), 6.7 (HRV). Me 6.5 (GS). MD 6.4 (GUC). Es=1.1*10**14 Nm (GS). Mo=8.2*10**18 Nm (GS). Mo=1.2*10**19 Nm (HRV). Felt (V) at Futrono, Panguipulli and Valdivia; (IV) at Castro, Osorno, Puerto Montt and Ranco; (III) at Corral and Temuco.
APR 03	07 26 36.6&	43.164 N	12.701 E	10	5.1	4.8		368	CENTRAL ITALY. <ROM>. Mw 5.2 (HRV). ML 5.3 (VIE), 5.2 (FUR), 5.1 (STR), 5.0 (LDG). Mo=6.1*10**16 Nm (HRV). Five people slightly injured and 300 houses damaged or destroyed in the Gualdo Tadino-Nocera Umbra area. Additional damage to a castle at Foligno. Felt strongly at Assisi. Felt as far south as Rome. Also felt (IV) at Koper, Slovenia.
APR 03	22 01 48.2	8.148 S	74.238 W	165 D	6.1	5.6	0.8	248	PERU-BRAZIL BORDER REGION. Mw 6.6 (GS), 6.6 (HRV). Me 6.4 (GS). mb 6.2 (BRK). Es=9.0*10**13 Nm (GS). Mo=1.0*10**19 Nm (GS). Mo=9.5*10**18 Nm (HRV). Mo=1.5*10**19 Nm (PPT). Felt (II) at Lima, Peru. Also felt in many parts of northern Peru. Two events about 2 seconds apart.
APR 09	23 26 52.6	12.245 S	67.846 E	10 G	5.5	5.4	1.0	220	MID-INDIAN RIDGE. Mw 5.7 (GS), 5.8 (HRV). Me 6.6 (GS). Es=1.7*10**14 Nm (GS). Mo=3.8*10**17 Nm (GS). Mo=5.2*10**17 Nm (HRV).
APR 10	15 00 53.1	32.457 N	59.976 E	33 N	5.3	5.7	1.5	227	NORTHERN IRAN. Mw 5.7 (GS), 5.8 (HRV). Mo=4.2*10**17 Nm (GS). Mo=5.0*10**17 Nm (HRV). At least 12 people killed, 10 injured and more than 600 homes severely damaged in the Birjand-Gonabad area.
APR 12	10 55 32.5	46.245 N	13.652 E	10 G	5.3	5.7	1.2	411	AUSTRIA. Mw 5.7 (GS), 5.7 (HRV), 6.0 (CSEM). ML 5.9 (LDG), 5.6 (CLL), 5.6 (STR), 5.6 (VIE), 5.5 (LJU). Mo=3.6*10**17 Nm (GS). Mo=3.5*10**17 Nm (HRV). Mo=1.1*10**18 Nm (CSEM). One person died of a heart attack at Bovec, Slovenia. Maximum intensity (VIII) in the Bovec-Kobarid area, Slovenia, where damage to buildings a landslides left 700 people homeless. Minor damage at Arnoldstein, Austria. Felt strongly throughout Slovenia and northeastern Italy. Felt throughout Austria and in parts of Croatia, Germany and Hungary.
APR 13	15 14 33.5	39.238 N	41.055 E	33 N	4.8	4.8	1.0	139	TURKEY. Mw 5.3 (HRV). MD 5.0 (ISK). Mo=9.2*10**16 Nm (HRV). Eleven people injured and several buildings damaged or destroyed at Karliova.
MAY 03	23 30 21.9	22.306 N	125.308 E	33 N	6.4	7.3	1.0	458	SOUTHEAST OF TAIWAN. Mw 7.5 (GS), 7.5 (HRV). Me 7.9 (GS). Ms 7.1 (BRK). Es=1.8*10**16 Nm (GS). Mo=1.9*10**20 Nm (GS). Mo=1.8*10**20 Nm (HRV). Mo=2.4*10**20 Nm (PPT). Minor local tsunami generated with recorded wave heights of 4 cm on Miyako-shima and 3 cm on Ishigaki-shima and at Naha, Okinawa. Felt (III JMA) on Iriomote-shima, Ishigaki-shima, Miyako-shima and Yonaguni; (I JMA) on Amami O-shima, Kikai-shima, Okinawa and in the southern part of Kyushu. Also felt in parts of eastern Taiwan. Complex earthquake with at least one larger event about 1 second after onset.
MAY 13	23 02 05.6	5.147 S	151.714 E	61	6.0		0.9	380	NEW BRITAIN REGION, P.N.G. Mw 6.5 (GS), 6.6 (HRV). Me 5.6 (GS). Es=5.6*10**12 Nm (GS). Mo=5.8*10**18 Nm (GS). Mo=1.0*10**19 Nm (HRV). Mo=5.5*10**18 Nm (PPT). Minor damage in the Kokopo area. Felt in much of New Britain and on nearby islands. Two events about 3 seconds apart.
MAY 16	02 22 03.2	22.227 S	179.519 W	586 D	6.1		1.0	598	SOUTH OF FIJI ISLANDS. Mw 6.8 (GS), 6.9 (HRV). Me 6.6 (GS). Es=1.9*10**14 Nm (GS). Mo=2.0*10**19 Nm (GS). Mo=2.3*10**19 Nm (HRV). Mo=2.2*10**19 Nm (PPT).
MAY 21	05 34 25.5	0.207 N	119.584 E	33 N	6.2	6.3	1.0	303	MINAHASSA PENINSULA, SULAWESI. Mw 6.7 (GS), 6.6 (HRV). Me 7.2 (GS). Ms 6.2 (BRK). Es=1.2*10**15 Nm (GS). Mo=1.1*10**19 Nm (GS). Mo=1.0*10**19 Nm (HRV). Felt at Donggala, Palu and Tolitoli.
MAY 22	04 48 50.4	17.731 S	65.431 W	24 G	5.9	6.6	1.4	226	CENTRAL BOLIVIA. Mw 6.6 (GS), 6.6 (HRV). Me 5.9 (GS). Ms 6.4 (BRK). Es=1.7*10**13 Nm (GS). Mo=8.9*10**18 Nm (GS). Mo=8.4*10**18 Nm (HRV). Mo=1.1*10**19 Nm (PPT). At least 105 people killed and 150 injured in the Aiquile-Totora area. Eighty percent of the buildings at Aiquile and seventy percent at Totora were destroyed. Felt as far as La Paz. Complex earthquake with at least two larger events occurring 8 and 12 seconds after the onset.

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
MAY 28	18 33 28.1	31.401 N	27.667 E	10 G	5.5	5.0	1.0	394	EGYPT. Mw 5.5 (GS), 5.5 (HRV). Me 5.4 (GS). MD 5.5 (ISK). ML 5.4 (CSS). Es=2.5*10**12 Nm (GS). Mo=2.1*10**17 Nm (GS). Mo=2.0*10**17 Nm (HRV). One person injured at Cairo. Felt in the Cairo area. Also felt at Elat, Israel.
MAY 28	21 11 44.1	37.388 N	78.843 E	33 N	5.2	5.6	1.0	246	SOUTHERN XINJIANG, CHINA. Mw 5.6 (GS), 5.6 (HRV). Mo=3.1*10**17 Nm (GS). Mo=3.1*10**17 Nm (HRV). Twenty-eight people injured, more than 2,000 buildings destroyed, an additional 3,000 damaged and 5,000 head of cattle killed in southwestern Xinjiang.
MAY 30	06 22 28.9	37.106 N	70.110 E	33 N	5.9	6.9	1.0	465	AFGHANISTAN-TAJIKISTAN BORD REG. Mw 6.6 (GS), 6.6 (HRV), 6.3 (OBN). Me 7.0 (GS). Es=7.8*10**14 Nm (GS). Mo=7.7*10**18 Nm (GS). Mo=7.9*10**18 Nm (HRV). Mo=2.9*10**18 Nm (OBN). At least 4,000 people killed, many thousands injured and homeless in Badakhshan and Takhar Provinces, Afghanistan. Felt strongly at Mazar-e Sharif, Afghanistan. Felt at Kabul, Afghanistan. Felt (III) at Andijon and Samarqand; (II) at Toshkent, Uzbekistan. Also felt at Islamabad, Peshawar and Rawalpindi, Pakistan and Dushanbe, Tajikistan.
JUN 01	05 34 03.5	52.889 N	160.067 E	44	6.2	6.3	0.9	515	OFF EAST COAST OF KAMCHATKA. Mw 6.5 (GS), 6.5 (HRV), 6.9 (OBN). Me 5.9 (GS). Ms 6.0 (BRK). Es=1.7*10**13 Nm (GS). Mo=5.7*10**18 Nm (GS). Mo=5.8*10**18 Nm (HRV). Mo=2.2*10**19 Nm (OBN). Mo=4.4*10**18 Nm (PPT). Felt (V) at Petropavlovsk-Kamchatskiy.
JUN 27	13 55 52.0	36.878 N	35.307 E	33 N	5.8	6.2	1.3	409	TURKEY. Mw 6.2 (GS), 6.3 (HRV). Me 6.6 (GS). Ms 6.3 (BRK). MD 6.3 (ISK). ML 5.9 (GII). Es=1.8*10**14 Nm (GS). Mo=2.4*10**18 Nm (GS). Mo=3.0*10**18 Nm (HRV). At least 145 people killed and more than 1,500 injured in the Adana and Ceyhan areas. At least 6 major buildings collapsed and about 17,000 houses destroyed in Adana Province. Felt in Cyprus, Israel and Syria. Complex earthquake, with at least one larger event occurring about 3.0 seconds after the onset.
JUL 04	02 15 46.9	36.874 N	35.321 E	33 G	5.0	4.7	1.2	267	TURKEY. Mw 5.4 (HRV). ML 5.3 (GII). MD 5.0 (ISK). Mo=1.6*10**17 Nm (HRV). At least 1,000 people injured and one building collapsed in the Adana-Geyhan area.
JUL 09	05 19 07.3	38.650 N	28.626 W	10 G	5.7	6.0	1.0	421	AZORES ISLANDS. Mw 6.2 (GS), 6.2 (HRV). Me 6.6 (GS). Ms 6.0 (BRK). Es=1.6*10**14 Nm (GS). Mo=2.0*10**18 Nm (GS). Mo=2.0*10**18 Nm (HRV). Ten people killed, about 100 injured and 1,000 left homeless on Faial. Some damage on Pico and Terceira. Felt on Corvo and Sao Jorge.
JUL 09	14 19 18.4	38.717 N	48.507 E	26 G	5.9		1.0	442	ARMENIA-AZERBAIJAN-IRAN BORD REG. Mw 5.9 (GS), 6.0 (HRV). Me 5.7 (GS). Es=8.4*10**12 Nm (GS). Mo=7.6*10**17 Nm (GS). Mo=1.0*10**18 Nm (HRV). Extensive damage at Astara, Bilasuvar, Imisli, Lankaran, Masalli and Yardimli, Azerbaijan. Felt at Baku, Azerbaijan. Felt (V) at Goris, Armenia.
JUL 09	14 45 39.9	30.487 S	178.994 W	130 D	6.2	6.2	1.1	483	KERMADEC ISLANDS, NEW ZEALAND. Mw 6.9 (GS), 6.9 (HRV). Me 6.9 (GS). Es=5.4*10**14 Nm (GS). Mo=2.4*10**19 Nm (GS). Mo=2.4*10**19 Nm (HRV). Mo=4.9*10**19 Nm (PPT).
JUL 16	11 56 36.4	11.040 S	166.160 E	110 D	6.4	6.7	0.9	297	SANTA CRUZ ISLANDS. Mw 7.0 (GS), 7.0 (HRV). Me 7.0 (GS). Es=7.5*10**14 Nm (GS). Mo=3.9*10**19 Nm (GS). Mo=4.1*10**19 Nm (HRV). Mo=4.0*10**19 Nm (PPT).
JUL 17	04 51 14.7	23.407 N	120.736 E	13	5.5	5.4	1.1	279	TAIWAN. Mw 5.7 (HRV). Mo=4.3*10**17 Nm (HRV). Five people killed, 27 injured, damage (V JMA) and landslides occurred in Chia-i County. Felt (IV JMA) at Tai-nan; (III JMA) at Hua-lien, Kao-Hsiung and Tai-chung; (II JMA) at Cheng-kung and I-lan; (I JMA) at Taipei. Felt throughout Taiwan. Felt (II JMA) at Ma-kung, Peng-hu. Also felt along the coasts of Fujian and Zhejiang Provinces, China.
JUL 17	08 49 13.2	2.961 S	141.926 E	10 G	5.8	7.1	1.3	60	NEAR N COAST OF NEW GUINEA, PNG. Mw 7.0 (GS), 7.0 (HRV). Me 6.7 (GS). Ms 7.0 (BRK). Es=2.4*10**14 Nm (GS). Mo=3.7*10**19 Nm (GS). Mo=3.7*10**19 Nm (HRV). Mo=3.4*10**19 Nm (PPT). At least 2,183 people killed, thousands injured, about 9,500 homeless and about 500 missing as a result of a tsunami generated in the Sissano area. Maximum wave heights estimated at 15 meters. Several villages were completely destroyed and others extensively damaged. Maximum recorded wave heights from selected tide stations (peak-to-trough, in cm) were as follows: 40 on Miyake-jima; 30 at Tosa-Shimuzu, Shikoku; 26 at Muroto, Shikoku; 24 at Naze, Amami O-shima; 20 on Tanega-shima; 20 at Kushimoto, Honshu; 6 at Jackson Bay and 4.7 at Kaikoura, New Zealand; 5 on Yap. Felt along much of the northern Papua New Guinea coast.

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
JUL 28	04 51 43.9	41.793 N	81.460 E	33 N	5.3	4.7	0.9	231	SOUTHERN XINJIANG, CHINA. Mw 5.2 (HRV). Mo=6.3*10**16 Nm (HRV). Several people injured and 19 houses destroyed in Baicheng County.
JUL 29	07 14 24.0	32.312 S	71.286 W	51 D	6.3		0.9	359	NEAR COAST OF CENTRAL CHILE. Mw 6.4 (GS), 6.4 (HRV). Me 6.5 (GS). Es=1.2*10**14 Nm (GS). Mo=5.0*10**18 Nm (GS). Mo=5.3*10**18 Nm (HRV). Two people had fatal heart attacks at Santiago. Several dozen people slightly injured in the Santiago area. Four miners injured at the Boton de Oro mine. Felt (VI) at La Ligua, Los Andes, Los Vilos, Quillota, San Antonio, San Felipe and Valparaiso; (V) at Illapel, Ovalle, Rancagua and Santiago; (III) at Coquimbo, La Serena and Talca. Rockslides occurred along the Trans-Andean road near Portillo.
JUL 29	18 00 29.9	2.693 S	138.901 E	33 N	5.9	6.7	0.9	248	IRIAN JAYA, INDONESIA. Mw 6.5 (GS), 6.7 (HRV). Me 6.3 (GS). Ms 6.7 (BRK). Es=7.3*10**13 Nm (GS). Mo=6.8*10**18 Nm (GS). Mo=1.2*10**19 Nm (HRV). Felt at Jayapura, Sarmi and Wamena.
AUG 02	04 40 46.4	39.573 N	76.999 E	69 D	5.6		0.9	382	SOUTHERN XINJIANG, CHINA. Mw 5.6 (GS), 5.6 (HRV). Me 4.9 (GS). Es=5.9*10**11 Nm (GS). Mo=3.3*10**17 Nm (GS). Mo=3.3*10**17 Nm (HRV). At least two people injured and several homes destroyed in Jiashi County. Felt (II) at Almaty, Kazakhstan and at Bishkek, Kyrgyzstan.
AUG 04	18 59 20.1	0.593 S	80.393 W	33 N	6.2	7.1	0.9	412	NEAR COAST OF ECUADOR. Mw 7.0 (GS), 7.2 (HRV). Me 6.9 (GS). Ms 7.1 (BRK). Es=4.9*10**14 Nm (GS). Mo=4.2*10**19 Nm (GS). Mo=6.4*10**19 Nm (HRV). Mo=4.5*10**19 Nm (PPT). Three people killed and forty injured in the Bahia de Caraquez-Canoa area. Approximately sixty percent of the buildings at Canoa severely damaged. Electricity, telephone and water services disrupted and most buildings with three or more stories damaged at Bahia de Caraquez. Considerable damage in many other parts of western Manabi Province. Landslides blocked a road between Bahia de Caraquez and Canoa. Felt strongly at Guayaquil and Quito. Felt in much of Ecuador and also at Cali, Colombia. Two large events occurring about 3 and 7 seconds after small onset.
AUG 12	14 10 25.1&	36.755 N	121.464 W	9	4.8	5.0		160	CENTRAL CALIFORNIA. <GM-P>. Mw 5.2 (HRV), 5.1 (BRK). ML 5 (GM), 5.4 (BRK). Mo=7.0*10**16 Nm (HRV). Mo=5.3*10**16 N (BRK). Two people injured in southern Santa Cruz County. damage to a church at San Juan Bautista. Damage to several mobile homes and minor cracking of highway 101 in San Benito County. Considerable loss from items falling from store shelves in the epicentral area. Felt in Alameda, Contra Costa, Marin, Monterey, San Benito, San Francisco, Santa Clara, Santa Cruz and San Mateo Counties. Felt as far north as Rohnert Park, east to Turlock and south to Big Sur and King City.
AUG 20	06 40 55.8	28.932 N	139.329 E	441	6.1		0.9	488	BONIN ISLANDS REGION. Mw 7.1 (GS), 7.1 (HRV). Me 6.8 (GS). Es=3.8*10**14 Nm (GS). Mo=4.3*10**19 Nm (GS). Mo=4.7*10**19 Nm (HRV). Felt (III JMA) on Chichi-jima and at Tateyama, Honshu. Felt (II JMA) in the Tokyo-Yokohama area, Honshu. A small onset is followed by two large events about 7 and 12 seconds later.
AUG 23	13 57 15.3	11.663 N	88.038 W	55	5.7	6.3	1.0	449	OFF COAST OF CENTRAL AMERICA. Mw 6.7 (GS), 6.7 (HRV). Me 6.6 (GS). Ms 6.2 (BRK). Es=1.8*10**14 Nm (GS). Mo=1.2*10**19 Nm (GS). Mo=1.2*10**19 Nm (HRV). Felt at Managua and along the Pacific coast of Nicaragua.
AUG 27	09 03 36.6	39.660 N	77.343 E	33 N	5.6	6.4	1.0	369	SOUTHERN XINJIANG, CHINA. Mw 6.4 (GS), 6.4 (HRV). Me 6.1 (GS). Ms 6.1 (BRK). Es=3.2*10**13 Nm (GS). Mo=4.2*10**18 Nm (GS). Mo=3.9*10**18 Nm (HRV). At least 3 people killed, 7 injured, more than 3,600 houses destroyed, 18,771 damaged and 159 livestock killed in Jiashi County.
AUG 28	23 46 43.9	35.522 N	139.879 E	76 D	5.2		1.0	244	NEAR SOUTH COAST OF HONSHU, JAPAN. Mw 5.4 (HRV). Mo=1.2*10**17 Nm (HRV). Two people slightly injured in the Tokyo-Yokohama area.
SEP 02	08 37 29.9	5.410 N	126.764 E	50 G	6.6	6.7	1.0	424	MINDANAO, PHILIPPINE ISLANDS. Mw 6.8 (GS), 6.8 (HRV). Me 6.7 (GS). Ms 6.7 (BRK). Es=2.3*10**14 Nm (GS). Mo=1.9*10**19 Nm (GS). Mo=2.1*10**19 Nm (HRV). Mo=3.3*10**19 Nm (PPT). Items knocked from shelves (IV RF) at General Santos. Felt (IV RF) on Samal; (III RF) at Butuan, Davao and Kidapawan; (II RF) at Bislig, Cagayan de Oro and Cotabato; (I RF) at Zamboanga. Felt in much of Mindanao. Two events about 2.5 seconds apart.

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
SEP 03	07 58 21.1	39.716 N	140.760 E	38	5.7	5.7	0.8	361	EASTERN HONSHU, JAPAN. Mw 5.9 (GS), 5.8 (HRV). Mo=7.4*10**17 Nm (GS). Mo=6.5*10**17 Nm (HRV). Mo=2.2*10**18 Nm (PPT). Eleven people slightly injured, items knocked from shelves (VI JMA) and power outages at Shizukuishi. Felt (IV JMA) in Akita; (III JMA) in Aomori, Miyagi, Niigata and Yamagata Prefectures. Landslides blocked two roads in the epicentral area.
SEP 03	17 37 58.2	29.450 S	71.715 W	27 G	6.2	6.6	0.9	384	NEAR COAST OF CENTRAL CHILE. Mw 6.5 (GS), 6.6 (HRV). Me 6.4 (GS). Ms 6.5 (BRK). Es=8.3*10**13 Nm (GS). Mo=6.0*10**18 Nm (GS). Mo=7.7*10**18 Nm (HRV). Mo=6.5*10**18 Nm (PPT). Two people injured at La Serena. Felt (VI) at Andacollo, Coquimbo, Hurtado, La Higuera, La Serena, Monte Patria, Paihuano, Punitaqui, Talahuen and Vicuna; (V) at Alto del Carmen, Combarbala and Ovalle; (IV) at Copiapo, El Palqui, Freirina, Huasco, Illapel, Los Molles, Salamanca, Tierra Amarilla and Vallenar; (III) at Caldera, Papudo, Quillota, Quintero and Valparaiso; (II) at Santiago. Felt (III) at San Juan and (II) at Mendoza, Argentina. Also felt at Cordoba, Argentina.
SEP 09	11 27 59.3	40.035 N	15.980 E	10 G	5.2	5.2	1.0	385	SOUTHERN ITALY. Mw 5.5 (GS), 5.6 (HRV), 5.9 (CSEM). Me 5.2 (GS). ML 5.5 (PDG). Es=1.5*10**12 Nm (GS). Mo=1.7*10**17 Nm (GS). Mo=3.3*10**17 Nm (HRV). Mo=7.4*10**17 Nm (CSEM). One person killed by falling rock, another person died from a heart attack, at least 12 people injured and many buildings damaged in the Castelluccio Inferiore-Lauria Inferiore area. Felt from Naples to Reggio di Calabria.
SEP 15	07 24 06.5	38.346 N	140.508 E	50	5.1		0.9	129	EASTERN HONSHU, JAPAN. One person injured in Miyagi Prefecture. Felt (IV JMA) at Sendai and (III JMA) at Yamagata. Felt (III JMA) in much of Miyagi; (II JMA) in southern Akita, eastern Fukushima, eastern Yamagata and parts of Ibaraki; (I JMA) as far as northern Chiba, northern Iwate and western Niigata Prefectures.
SEP 28	13 34 30.4	8.194 S	112.413 E	152 D	6.4		1.4	418	JAWA, INDONESIA. Mw 6.6 (GS), 6.6 (HRV). Me 6.7 (GS). Es=2.4*10**14 Nm (GS). Mo=7.6*10**18 Nm (GS). Mo=7.7*10**18 Nm (HRV). Mo=5.9*10**18 Nm (PPT). One person killed, 38 houses destroyed and 62 others damaged in the Malang area. Some buildings and homes damaged at Blitar and Bantur. Felt throughout central and eastern Jawa. Also felt on Bali and Sumbawa. Complex earthquake, with two events occurring about 3 seconds apart.
SEP 29	22 14 49.5	44.209 N	20.080 E	10 G	5.2	5.3	1.1	356	NORTHWESTERN BALKAN REGION. Mw 5.5 (HRV). ML 5.5 (PDG), 5.1 (THE), 5.1 (ROM). Mo=2.1*10**17 Nm (HRV). One person died from a heart attack, 17 people injured, some houses destroyed and many heavily damaged (VIII) in the Belgrade-Ljig-Valjevo area. Felt (V) at Cacak, Kragujevac, Smederevo and Titovo Uzice; (IV) at Krusevac, Novi Sad, Prijepolje and Prokuplje. Felt throughout Serbia. Also felt in the Sarajevo area, Bosnia and Herzegovina as well as in parts of Croatia and in northern Greece.
SEP 30	23 42 54.2	41.925 N	20.390 E	10 G	5.0	5.1	1.1	309	ALBANIA. Mw 5.3 (HRV). ML 5.1 (PDG). Mo=9.7*10**16 Nm (HRV). At least 700 houses damaged or destroyed and an electric substation damaged in the Kukes District. Felt at Elbasan, Korce, Peshkopi, Pogradec and Tirana.
OCT 05	02 20 33.9	33.199 N	47.225 E	39 D	5.3	4.9	1.1	295	WESTERN IRAN. Mw 5.4 (HRV). Mo=1.4*10**17 Nm (HRV). At least 100 houses damaged in the Darreh Shahr area and minor damage in the Pol-e Dokhtar area.
OCT 18	14 20 08.0*	11.968 N	86.254 W	10 G	4.4		0.7	23	NEAR COAST OF NICARAGUA. Three people injured, 2 houses destroyed and 45 others severely damaged in the Ticuantepe area. Largest of a swarm of over 200 quakes on October 18 and 19.
OCT 26	20 01 44.0	27.213 N	101.057 E	47 *	4.7	4.3	1.1	58	SICHUAN, CHINA. Twenty-eight people injured and more than 700 buildings damaged in Yunnan Province.
OCT 28	16 25 03.8	0.839 N	125.966 E	33 N	6.2	6.2	1.1	326	NORTHERN MOLUCCA SEA. Mw 6.6 (GS), 6.5 (HRV). Me 7.1 (GS). Es=1.1*10**15 Nm (GS). Mo=7.5*10**18 Nm (GS). Mo=6.8*10**18 Nm (HRV). Mo=1.3*10**19 Nm (PPT). Felt at Bitung, Manado and on Ternate, Indonesia.
NOV 09	05 30 14.4	6.954 S	129.022 E	33 N	6.1		1.0	277	BANDA SEA. Mw 6.5 (GS), 6.7 (HRV). Me 6.6 (GS). Es=2.1*10**14 Nm (GS). Mo=6.8*10**18 Nm (GS). Mo=1.4*10**19 Nm (HRV). Felt (III) on Ambon, Indonesia. Also felt at Darwin, Australia.
NOV 09	05 38 44.2	6.920 S	128.946 E	33 N	6.4	7.0	1.1	241	BANDA SEA. Mw 7.0 (GS), 7.0 (HRV). Me 6.9 (GS). Ms 6.9 (BRK). Es=5.8*10**14 Nm (GS). Mo=3.2*10**19 Nm (GS). Mo=3.9*10**19 Nm (HRV). Felt (III) on Ambon, Indonesia. Also felt at Darwin, Australia.

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
NOV 13	13 01 10.5	27.791 N	53.608 E	33 N	5.3	5.1	1.0	278	SOUTHERN IRAN. Mw 5.4 (HRV). Mo=1.6*10**17 Nm (HRV). Fi[redacted] people killed, 105 injured and at least 850 houses damaged by the earthquake and landslides in the Bigherd-Khonj area.
NOV 19	11 38 14.8	27.308 N	101.029 E	33 N	5.2	5.6	1.0	143	SICHUAN, CHINA. Mw 5.6 (HRV). Mo=2.7*10**17 Nm (HRV). Five people killed, at least 1,543 injured, more than 23,600 homeless, over 12,000 houses destroyed, about 16,000 buildings damaged, 47 bridges and 36 reservoires damaged, power and communications cut off in Huaping, Lijiang, Ninglang and Yongsheng Counties. Landslides blocked a river in the epicentral area.
NOV 19	15 39 19.1	22.605 N	125.783 E	10 G	5.8	6.0	1.3	248	SOUTHEAST OF TAIWAN. Mw 6.3 (GS), 6.3 (HRV). Me 6.7 (GS). Es=2.7*10**14 Nm (GS). Mo=2.8*10**18 Nm (GS). Mo=3.3*10**18 Nm (HRV). Mo=3.7*10**18 Nm (PPT). Felt (II JMA) on Iriomote-shima and Ishigaki-shima; (I JMA) on Kume-shima, Miyako-shima and Yonaguni, Ryukyu Islands.
NOV 29	14 10 31.9	2.071 S	124.891 E	33 N	6.5	7.7	1.2	239	CERAM SEA. Mw 7.7 (GS), 7.7 (HRV), 7.4 (OBN). Me 8.3 (GS). Ms 7.5 (BRK). Es=7.2*10**16 Nm (GS). Mo=4.5*10**20 Nm (GS). Mo=4.5*10**20 Nm (HRV). Mo=1.4*10**20 Nm (OBN). Mo=6.9*10**20 Nm (PPT). At least 34 people killed, 89 injured and about 1,000 buildings destroyed or damaged (VII) on Mangole and Taliabu, Indonesia. At least 7 people killed and 18 injured at Manado, Sulawesi. Felt (VI) at Luwuk, Sulawesi; (IV) on Ternate; (III) on Ambon and at Palu, Sulawesi. Complex earthquake, with a large event occurring about 5 seconds after a small onset.
DEC 01	07 37 56.1	26.373 N	104.021 E	10 G	4.5		0.7	30	SOUTHEASTERN CHINA. At least 84 people injured, 21,400 houses and 472 schools damaged in Yunnan Province.
DEC 06	00 47 13.4	1.253 N	126.198 E	33 N	6.3	6.2	1.1	284	NORTHERN MOLUCCA SEA. Mw 6.5 (GS), 6.6 (HRV). Me 6.6 (GS). Ms 6.1 (BRK). Es=2.1*10**14 Nm (GS). Mo=6.8*10**18 Nm (GS). Mo=8.5*10**18 Nm (HRV). Mo=1.2*10**19 Nm (PPT). Felt (V) at Bitung and Tondano; (IV) at Manado; (III) at Galela and on Ternate, Indonesia. Two events about 2.5 seconds apart.
DEC 11	20 16 24.0	36.514 N	71.021 E	223 D	5.0		1.0	240	AFGHANISTAN-TAJIKISTAN BORD REG. Mw 5.7 (GS), 5.6 (HRV). Mo=3.7*10**17 Nm (GS). Mo=3.1*10**17 Nm (HRV). Five people killed, seven injured and some damage at Ka[redacted] Afghanistan.
DEC 14	13 06 09.8	38.969 N	35.794 E	10 G	4.5	3.9	1.1	78	TURKEY. Two people injured, 20 houses destroyed and 118 houses damaged at Kayseri.
DEC 27	00 38 26.7	21.632 S	176.376 W	144 D	6.1		0.9	432	FIJI ISLANDS REGION. Mw 6.8 (GS), 6.8 (HRV). Me 6.7 (GS). mb 6.2 (BRK). Es=2.4*10**14 Nm (GS). Mo=1.7*10**19 Nm (GS). Mo=2.0*10**19 Nm (HRV).

Compiled by Waverly J. Person

Corrections to Previous Monthly Listings

1. Event South of Panama at 04:16:37.7 UTC on July 9, 1996, has been relocated to Northern Colombia at 04:16:42 UTC, by ISC.

2. Delete event at 12:36:05.8 UTC on August 14, 1996. Data belong to event at 12:36:10.9 UTC.

3. Delete event at 04:24:59.5 UTC on August 15, 1996. Data belong to event at 04:05:09.7 UTC.

4. Delete misassociated phase readings from EDR: iP from station PSZ and Pdiff from ULM for event at 06:04:26.1 UTC on October 7, 1996. Data belong to event at 06:07:02.2 UTC.

5. Delete event at 07:40:24.8 UTC on December 3, 1996. Felt comment 'Felt at Patrai' should be associated with event at 07:40:27.7 UTC on December 5.

6. Delete event at 13:45:07.6 UTC on February 2, 1997.

7. Delete event at 11:03:18.8 UTC on February 14, 1997.

8. Delete event at 02:01:03.2 UTC on March 27, 1997. Felt comment 'Felt (IV) at San Salvador' should be associated with event at 02:01:09.6 UTC on March 28.

9. Delete event at 03:14:37.8 UTC on March 27, 1997. Felt comment 'Felt (III) at San Salvador' should be associated with event at 03:14:46.7 UTC on March 28.

10. Delete event at 02:45:29.8 UTC on April 2, 1997. Data belong to event at 02:42:27.6 UTC.

11. Delete event at 11:41:33.7 UTC on April 11, 1997. Event occurred at 11:41:33.9 UTC on April 14, 1997, located by ISC.

12. Delete event at 22:39:17.8 UTC on May 4, 1997.

13. Delete event at 12:02:21.1 UTC on May 5, 1997.

14. Delete event at 01:49:23.5 UTC on May 29, 1997.

15. Delete event at 17:21:55.0 UTC on May 29, 1997. Data are secondary phases (PP) for event at 17:02:38.7 UTC.

16. Delete event at 23:29:20.4 UTC on June 3, 1997. Felt comment 'Felt (IV) at San Salvador' should be associated with event at 23:29:21.6 UTC on June 2.

17. Delete event at 15:40:02.6 UTC on June 6, 1997. Readings from stations VRI, ISR, PPE, CFR, TLB and CVD belong to event in Romania at 15:41:12.7 UTC on June 6, 1997, located by ISC. Readings from stations SPC, PRU and KHC belong to event in Poland but exact epicenter is not known by ISC.

18. Please add the felt comment 'Felt (III) at Baralla, Becerrea and Sarria' to event at 15:16:47.6 UTC on May 15, 1998.

19. Please add the felt comment 'Felt (IV) at Allariz, Beade, Calvos, Carballino, Celanova, Ginzo de Limia, La Guardia, Lobios, Lugo, Marin, Ourense, Porrino, Ribadavia, Sarria and Vigo' to event at 21:42:18.1 UTC on May 28, 1998.

20. The felt comment for event at 19:07:08.7 UTC on June 5, 1998, should read 'Felt (IV) at Granada; (III) at Armilla and Maracena.'

21. Please add the felt comment 'Felt (V) at Antigua and Pajara; (III) at Puerto del Rosario. Also felt at Cotillo.' to event at 21:50:34.0 UTC on June 6, 1998.

22. Please add the felt comment 'Felt (IV) at Bande and Celanova; (III) at Allariz, Ginzo de Limia, Quintela de Leirado and Verea.' to event at 22:00:40.1 UTC on June 12, 1998.

23. Please change the felt comment for event at 00:17:52.6 UTC on June 15, 1998. Comment should read 'Felt in eastern Khorasan Province.'

24. Please change the felt comment for event at 01:14:35.9 UTC on June 15, 1998. Comment should read 'Felt in southwestern Chahar Mahal va Bakhtiari Province.'

The corrections shown above (numbers 1 through 17) are based on information supplied by M. Andrianirina, 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.
BGS British Geological Survey, Edinburgh, United Kingdom.
BLA Virginia Polytechnic Institute and State University, Blacksburg.
BRK University of California, Berkeley.
BSE University of Boise, Idaho.
BUT Montana Bureau of Mines and Geology, Butte.
DOE U.S. Department of Energy (formerly AEC and ERDA).
ECX Centro de Investigacion Cientifica y Educacion Superior de Ensenada, Ensenada, Baja California, Mexico.
EXPLO Some or all parameters of explosion (controlled or accidental) supplied by any group or individual other than DOE or its predecessor organizations.
GEN Dipartimento di Scienze della Terra, Genova, Italy.
GII Geophysical Institute of Israel, Holon, Israel.
GLD U.S. Geological Survey, Golden, Colorado (other than NEIS).
GM U.S. Geological Survey, Menlo Park, California.
GS U.S. Geological Survey, National Earthquake Information Service (NEIS), Golden, Colorado.
GUC Instituto de Geofisica, Universidad de Chile, Santiago, Chile.
HDC Observatorio Vulcanologico y Sismologico de Costa Rica, Universidad Nacional, Heredia, Costa Rica.
HRV Harvard University, Cambridge, Massachusetts.
HVO Hawaiian Volcano Observatory.
ISK Kandilli Observatory, Bogazici University, Istanbul, Turkey.
JMA Japan Meteorological Agency, Tokyo (also used to indicate 7-point Japanese Intensity Scale).
LDG Laboratoire de Detection et de Geophysique, Bruyeres-le-Chatel, France.
MACRO Hypocenter based upon macroseismic information.
MD Duration magnitude (shown as DUR prior to 1986).
MDD Instituto Geografico Nacional, Madrid, Spain.
ME Energy Magnitude.
MG Contributed local or regional magnitude of unspecified type (see "Contributed Magnitudes" below).
MPR University of Puerto Rico, Mayaguez.
MW Moment Magnitude.
OTT Geological Survey of Canada, Earth Physics Branch, Ottawa.
PAL Columbia University, Lamont-Doherty Geological Observatory, Palisades, New York.
PAR Institute de Physique du Globe, Universite Pierre et Marie Curie, Paris, France.
PAS California Institute of Technology, Pasadena.
PGC Pacific Geoscience Centre, Sidney, British Columbia, Canada.
PMR Alaska Tsunami Warning Center, Palmer.
PPT Laboratoire de Geophysique, Papeete, French Polynesia.
REN University of Nevada, Reno.
RF Rossi-Forel Intensity Scale.
ROM Istituto Nazionale di Geofisica, Roma, Italy.
SEA University of Washington, Seattle.
SLC University of Utah, Salt Lake City.
SLM St. Louis University, Missouri.
SNM New Mexico Institute Mining and Technology, Socorro.
SPEC An NEIS solution based on use of dense local networks, a local crustal model, or other methods not routinely applied in calculating the hypocenter parameters.
STR Institut de Physique du Globe de Strasbourg, Strasbourg, France.
TEIC Center for Earthquake Research and Information, Memphis, Tennessee.
TUL Oklahoma Geological Survey, Leonard.
TVA Tennessee Valley Authority, Knoxville.
UNM Universidad Nacional Autonoma de Mexico (UNAM), Distrito Federal, Mexico.
USBR U. S. Bureau of Reclamation.
UVC Universidad del Valle, Cali, Colombia.
WES Weston Observatory, Massachusetts.

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

° ' " Geographic degrees, minutes, seconds.
-P Supplied hypocenter is a preliminary computation.

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

Symbols Following Depth

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

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

G Indicates the depth was restrained by a geophysicist.

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

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

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

Symbols Following Origin Time

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

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

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

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

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

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

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

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

TRAVEL-TIME TABLES

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

MACROSEISMIC INFORMATION

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

GEOGRAPHIC REGIONS

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

DEPTHS FROM BROADBAND DISPLACEMENT SEISMOGRAMS

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

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

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

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

BROADBAND FAULT PLANE SOLUTIONS

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

FOCAL MECHANISM MAPS

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

NEIS MAGNITUDES

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

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

$$Mw = (2/3) \log Mo - 10.7$$

where Mo is the scalar moment of the best double couple in dyne-cm. Mo, 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):

$$Me = (2/3) \log Es - 2.9$$

where Es is the radiated seismic energy in Newton-meters. Me, 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:

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

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 $20° \leq D \leq 160°$.

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

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

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

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

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

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

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

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

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

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

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

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

ML These local magnitudes are computed according to the formula:

$$ML = \log A - \log Ao$$

defined by Richter (1935) where A is the maximum trace amplitude in micrometers recorded on a standard short-period torsion seismometer and log Ao is a standard value as a function of distance where distance ≤ 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 Institute de Physique du Globe, Universite Pierre et Marie Curie, Paris, France.

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

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

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

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

1. DATA USED: currently GDSN, GSN and IDA/IRIS data are used. The numbers following the entries L.P.B. and M.W. indicate the number of stations (S) and total number of records (C) for the long-period body waves and mantle waves, respectively. Mantle waves are routinely used in inversion for sources with moments greater than 5*10**18 Newton-meters (Nm).

2. CENTROID LOCATION: hypocentral parameters obtained by adding perturbations resulting from inversion to the parameters reported in the PDE; standard errors follow the individual entries. If a given parameter is not perturbed in inversion, this is indicated by the letters FIX. If the depth is fixed to be consistent with waveform matching of reconstructed broad-band body waves (Ekstrom, 1989), this is indicated by the letters BDY. The default depth for shallow earthquakes is increased to 15 km. in order to improve the stability of solutions; it was 10 km. In 1981-1985.

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

4. BEST DOUBLE COUPLE: If the eigenvalue (T) is σ_1 and (P) is $-\sigma_2$, then the scalar seismic moment is defined as $Mo = 1/2(\sigma_1 + \sigma_2)$. The strike, dip and slip of the first (NP1) and second (NP2) nodal planes are calculated from the directions of the P, T, and N axes. The remainder is a linear-vector dipole; 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 (Mo) contributed by the University of California, Berkeley (BRK), is given for regional earthquakes based on Wood-Anderson torsion seismograms recorded within 300 km of the epicenter with peak-to-peak amplitudes of at least 3 mm. This seismic moment (Mo) in dyne-cm is defined by log Mo = 16.74 + 1.22log(CDΔ), where C is the maximum peak-to-peak amplitude in mm, D is the duration in seconds from the time of the S-wave onset to the last time that the peak-to-peak amplitude exceeds C/3, and Δ is the epicentral distance in km. Seismic moments quoted in "Preliminary Determination of Epicenters" are converted to Newton-meters (1 Newton-meter = 10**7 dyne-cm).

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

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

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

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

USGS
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U.S. Department of the Interior
U.S. Geological Survey

Preliminary Determination of Epicenters

Monthly Listing

National Earthquake Information Center

FEBRUARY 1999

ORIGIN TIME UTC DAY	HR	MN	SEC	GEOGRAPHIC COORDINATES LAT	LONG	DEPTH	MAGNITUDE GS MB	Msz	SD	NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
01	00	51	53.9	4.561 S	153.579 E	125 *	4.5		0.9	31	NEW IRELAND REGION, P.N.G.
01	00	52	45.1&	47.900 N	6.500 E	17				13	FRANCE. <LDG>. ML 1.9 (LDG), 1.7 (STR).
01	01	25	43.5*	28.492 N	83.188 E	33 N	4.2		1.1	17	NEPAL
01	01	46	27.9*	42.678 N	80.636 E	33 N	3.5		0.9	6	KYRGYZSTAN-XINJIANG BORDER REG.
01	02	52	30.9*	10.511 N	62.706 W	81 *	3.9		1.2	23	NEAR COAST OF VENEZUELA. MD 3.9 (TRN).
01	03	20	56.6?	13.72 S	166.79 E	33 N			1.4	7	VANUATU ISLANDS
01	03	41	12.1?	5.11 S	153.07 E	196 *	4.3		1.0	9	NEW IRELAND REGION, P.N.G.
01	03	43	51.0	43.133 N	46.450 E	33 N	4.2		0.5	5	EASTERN CAUCASUS. Felt (III) at Makhachkala.
01	04	23	43.0*	27.982 S	136.783 E	10 G			1.0	7	SOUTH AUSTRALIA
01	04	24	51.8?	22.16 S	68.42 W	143 ?	4.0		0.5	8	NORTHERN CHILE
01	04	29	35.7&	59.532 N	152.615 W	74	2.7			83	SOUTHERN ALASKA. <AEIC>.
01	04	31	40.0*	85.613 N	85.739 E	10 G	4.4		1.1	10	NORTH OF SEVERNAYA ZEMLYA
01	04	52	40.8	85.641 N	86.100 E	10 G	5.1	4.7	1.1	141	NORTH OF SEVERNAYA ZEMLYA. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 04:52:43.0; Lat 85.67 N; Lon 86.26 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=7.93, Plg=6, Azm=221; (N) Val=-0.04, Plg=13, Azm=130; (P) Val=-7.89, Plg=76, Azm=336; Best double couple: Mo=7.9*10**16 Nm; NP1: Strike=325, Dip=41, Slip=-70; NP2: Strike=120, Dip=52, Slip=-106.
01	05	11	07.1&	44.532 N	7.414 E	20				12	NORTHERN ITALY. <GEN>. ML 2.3 (GEN).
01	05	19	08.9*	85.829 N	85.095 E	10 G	4.4		1.4	18	NORTH OF SEVERNAYA ZEMLYA
01	05	33	17.9*	7.190 S	120.429 E	594 *	4.6		0.8	18	FLORES SEA
01	06	30	10.0&	34.541 S	70.354 W	15				11	CHILE-ARGENTINA BORDER REGION. <GUC>.
01	06	39	40.2?	28.81 S	12.53 W	10 G	4.4		1.3	7	SOUTHERN MID-ATLANTIC RIDGE
01	06	46	54.3	0.077 S	122.870 E	164 ?	4.7		1.0	49	MINAHASSA PENINSULA, SULAWESI
01	06	49	41.7?	40.47 N	50.75 E	10 G	3.8		0.9	8	CASPIAN SEA
01	07	22	56.6&	62.001 N	150.698 W	57				81	CENTRAL ALASKA. <AEIC>. ML 3.5 (AEIC), 3.5 (PMR). Felt at Talkeetna.
01	07	37	49.0*	85.692 N	84.119 E	10 G	4.5		1.3	21	NORTH OF SEVERNAYA ZEMLYA
01	07	51	18.3	85.655 N	85.680 E	10 G	4.5		1.1	26	NORTH OF SEVERNAYA ZEMLYA
01	07	57	59.7?	32.11 S	67.71 W	33 N			1.1	11	MENDOZA PROVINCE, ARGENTINA. MD 4.0 (GUC).
01	08	01	57.5	85.624 N	85.165 E	10 G	4.6		0.9	29	NORTH OF SEVERNAYA ZEMLYA
01	08	12	14.1*	85.451 N	85.487 E	10 G	3.9		1.5	11	NORTH OF SEVERNAYA ZEMLYA
01	08	38	19.7	45.143 N	18.518 E	10 G			1.1	19	NORTHWESTERN BALKAN REGION. ML 3.3 (PDG).
01	08	59	42.1	44.000 N	147.887 E	33 N	4.8		0.9	46	KURIL ISLANDS
01	09	16	16.4	6.596 S	129.738 E	150 G	4.6		1.0	24	BANDA SEA
01	09	33	21.0&	43.110 N	110.790 W	0				10	WYOMING. <USBR>. MD 2.9 (USBR).
01	09	56	35.0	85.734 N	84.439 E	10 G	5.1	5.2	1.4	130	NORTH OF SEVERNAYA ZEMLYA. Mw 5.6 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 09:56:39.8; Lat 85.61 N; Lon 85.17 E; Dep 15.0 Fix; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=2.83, Plg=6, Azm=31; (N) Val=0.01, Plg=10, Azm=122; (P) Val=-2.84, Plg=78, Azm=272; Best double couple: Mo=2.8*10**17 Nm; NP1: Strike=110, Dip=40, Slip=-106; NP2: Strike=311, Dip=52, Slip=-77.
01	10	02	48.0?	85.92 N	86.68 E	10 G			1.4	9	NORTH OF SEVERNAYA ZEMLYA
01	10	11	45.6*	85.618 N	85.505 E	10 G	4.5		1.4	24	NORTH OF SEVERNAYA ZEMLYA
01	10	30	27.0&	34.626 S	71.231 W	87				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.1 (GUC). Felt (II) at Rancagua.
01	10	36	50.4&	44.842 N	7.167 E	11				20	NORTHERN ITALY. <GEN>. ML 2.5 (GEN), 2.5 (LDG).
01	10	39	48.0	85.570 N	87.072 E	10 G	4.4		1.0	20	NORTH OF SEVERNAYA ZEMLYA
01	10	55	14.8&	34.741 S	70.451 W	137				11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.2 (GUC).
01	11	38	00.6?	19.09 N	145.86 E	33 N	3.8		1.2	8	MARIANA ISLANDS
01	11	54	42.9?	4.60 S	153.46 E	114 ?	4.0		0.7	6	NEW IRELAND REGION, P.N.G.
01	11	55	15.0	85.605 N	85.837 E	10 G	4.5		1.2	31	NORTH OF SEVERNAYA ZEMLYA
01	11	56	00.8	85.571 N	87.141 E	10 G	5.1	5.5	1.0	189	NORTH OF SEVERNAYA ZEMLYA. Mw 5.7 (GS), 5.7 (HRV). Moment Tensor (GS): Dep 9; Principal axes (scale 10**17 Nm): (T) Val=4.58, Plg=14, Azm=46; (N) Val=-1.34, Plg=18, Azm=140; (P) Val=-3.24, Plg=67, Azm=280; Best double couple: Mo=3.9*10**17 Nm; NP1: Strike=113, Dip=35,

Slip=-123; NP2: Strike=331, Dip=61, Slip=-69.
Centroid, Moment Tensor (HRV): Centroid origin time 11:56:05.2; Lat 85.56 N; Lon 86.23 E; Dep 15.0 Bdy; Half-duration 1.6 sec; Principal axes (scale 10**17 Nm): (T) Val=3.61, Plg=3, Azm=209; (N) Val=-0.14, Plg=2, Azm=119; (P) Val=-3.46, Plg=86, Azm=351; Best double couple: Mo=3.5*10**17 Nm; NP1: Strike=301, Dip=42, Slip=-86; NP2: Strike=116, Dip=48, Slip=-93.

01	12	24	14.5&	40.354	N	29.156	E	10	G			5	TURKEY. <ISK>. MD 2.6 (ISK).
01	12	35	36.1*	85.378	N	88.227	E	10	G	4.3	1.3	14	NORTH OF SEVERNAYA ZEMLYA
01	12	55	13.7	85.582	N	86.341	E	10	G	4.2	0.9	16	NORTH OF SEVERNAYA ZEMLYA
01	13	06	19.8	85.607	N	85.451	E	10	G	4.5	1.1	31	NORTH OF SEVERNAYA ZEMLYA
01	13	29	09.8&	33.729	S	68.742	W	6				14	MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 4.0 (GUC).
01	13	55	47.3*	85.641	N	86.474	E	10	G	3.8	1.1	10	NORTH OF SEVERNAYA ZEMLYA
01	14	25	56.4	43.018	N	47.056	E	33	N	4.5	1.1	31	EASTERN CAUCASUS. Felt (IV) at Makhachkala.
01	14	45	31.1&	33.312	S	68.738	W	11				14	MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 4.4 (GUC).
01	14	53	35.6*	5.462	S	154.090	E	158	?	4.0	0.9	15	SOLOMON ISLANDS
01	15	04	23.2?	4.68	S	153.99	E	101	?	4.3	0.9	7	NEW IRELAND REGION, P.N.G.
01	15	14	00.7&	57.963	N	151.805	W	22		2.5		40	KODIAK ISLAND REGION. <AEIC>. ML 2.5 (AEIC).
01	15	36	43.3&	62.667	N	148.909	W	50				38	CENTRAL ALASKA. <AEIC>. ML 2.5 (AEIC).
01	16	10	10.8*	50.454	N	18.818	E	5	G		1.0	5	POLAND. ML 3.1 (VIE), 3.0 (WAR).
01	16	13	13.5*	19.254	N	145.662	E	150	G	3.9	1.2	15	MARIANA ISLANDS
01	16	35	31.1	6.474	S	104.721	E	33	N	5.2 4.5	1.0	71	SUNDA STRAIT. Mw 5.2 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 16:35:40.4; Lat 6.84 S; Lon 104.84 E; Dep 44.2; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.22, Plg=68, Azm=27; (N) Val=1.18, Plg=6, Azm=284; (P) Val=-7.40, Plg=22, Azm=191; Best double couple: Mo=6.8*10**16 Nm; NP1: Strike=271, Dip=24, Slip=76; NP2: Strike=106, Dip=67, Slip=96.

01	17	28	23.7*	3.875	N	125.753	E	33	N	3.9	0.8	10	TALAUD ISLANDS, INDONESIA
01	17	57	46.6*	24.364	N	123.039	E	33	N	4.3	1.4	15	SOUTHWESTERN RYUKYU ISLANDS. Felt (I JMA) on Yonaguni-jima.
01	18	26	04.4	38.357	S	175.758	E	189		4.0	0.6	21	NORTH ISLAND, NEW ZEALAND
01	18	47	09.8&	63.195	N	150.562	W	128				63	CENTRAL ALASKA. <AEIC>.
01	19	24	55.7*	50.211	N	129.615	W	10	G		1.1	7	VANCOUVER ISLAND REGION. ML 2.7 (PGC).
01	19	28	02.5?	20.14	S	178.22	W	500	G	4.1	1.0	11	FIJI ISLANDS REGION
01	19	51	33.0*	1.119	N	122.178	E	33	N	4.0	0.7	10	MINAHASSA PENINSULA, SULAWESI
01	20	29	28.6*	18.011	S	172.419	W	33	N	4.8	1.2	33	TONGA ISLANDS REGION
01	20	44	47.5*	4.733	S	153.877	E	99	*	4.2	0.8	14	NEW IRELAND REGION, P.N.G.
01	21	01	07.8&	38.470	N	22.020	E	39				4	GREECE. <ATH>. MD 3.0 (ATH).
01	22	08	44.0&	34.399	S	70.181	W	8				7	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
01	22	18	53.6	5.972	S	103.862	E	33	N	5.2 4.7	0.9	88	SOUTHERN SUMATERA, INDONESIA. Mw 5.3 (HRV). Felt (III) at Liwa.

Centroid, Moment Tensor (HRV): Centroid origin time 22:19:00.1; Lat 6.33 S; Lon 103.48 E; Dep 39.8; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=0.87, Plg=59, Azm=65; (N) Val=0.28, Plg=18, Azm=302; (P) Val=-1.15, Plg=24, Azm=204; Best double couple: Mo=1.0*10**17 Nm; NP1: Strike=261, Dip=26, Slip=46; NP2: Strike=128, Dip=71, Slip=109.

01	22	21	01.2	18.112	S	172.186	W	33	N	4.7	1.2	36	TONGA ISLANDS REGION
01	22	22	05.6&	49.267	N	80.939	W	18	G			10	ONTARIO, CANADA. <OTT-P>. mbLg 3.4 (OTT). Felt strongly at Cochrane and lightly at Smooth Rock Falls.
01	22	25	28.1?	17.81	S	172.54	W	33	N	4.5	0.7	7	TONGA ISLANDS REGION
01	22	30	32.9&	35.630	N	27.090	E	17				4	DODECANESE ISLANDS. <ATH>. MD 3.2 (ATH).
01	22	34	33.5&	34.365	S	70.245	W	7				13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.7 (GUC).
01	22	59	06.1*	2.822	N	127.688	E	33	N	4.2	1.0	13	NORTHERN MOLUCCA SEA
01	23	23	06.1*	4.527	S	136.806	E	33	N	4.2	0.6	10	IRIAN JAYA REGION, INDONESIA. Felt (III) at Timuka.
01	23	57	52.9	42.962	N	46.954	E	33	N	3.2	1.1	19	EASTERN CAUCASUS. Felt (II) at Makhachkala.
02	00	56	36.7*	24.499	S	179.753	E	559	?	4.3	0.8	33	SOUTH OF FIJI ISLANDS
02	01	11	26.6&	32.825	S	71.286	W	53				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
02	01	20	30.1*	6.049	S	149.786	E	70	*	4.3	1.4	21	NEW BRITAIN REGION, P.N.G.
02	01	34	38.7?	11.23	N	122.34	E	33	N	3.9	1.1	7	PANAY, PHILIPPINE ISLANDS
02	03	04	20.0&	38.390	N	22.060	E	10				12	GREECE. <ATH>. MD 3.3 (ATH).
02	03	18	12.3&	34.085	N	117.443	W	3				5	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.6 (PAS). Felt at Bloomington.
02	03	23	48.2	46.272	N	14.607	E	10	G		0.9	9	NORTHWESTERN BALKAN REGION. ML 1.6 (VIE), 1.5 (LJU).
02	03	34	35.4	41.272	N	20.441	E	10	G		1.0	14	ALBANIA. ML 3.3 (PDG).
02	03	53	03.6&	36.045	N	117.715	W	1				37	CALIFORNIA-NEVADA BORDER REGION. <PAS-P>. ML 3.2 (PAS).
02	04	33	51.4&	43.800	N	7.500	E	7				25	NEAR SOUTH COAST OF FRANCE. <LDG>. ML 2.4 (GEN), 2.1 (LDG), 1.8 (STR).
02	04	34	16.3&	32.500	S	71.337	W	41				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
02	06	00	13.4&	39.652	N	29.001	E	14				5	TURKEY. <ISK>. MD 2.6 (ISK).
02	06	58	05.5*	10.883	N	86.198	W	33	N	4.0	1.4	13	OFF COAST OF COSTA RICA. MD 4.0 (SJR).
02	07	43	25.2	13.262	S	167.125	E	267	?	4.6	1.1	64	VANUATU ISLANDS
02	08	20	34.9*	14.107	N	61.029	W	33	N		0.9	9	WINDWARD ISLANDS. MD 3.0 (TRN), 2.8 (FDF).
02	08	50	14.4*	23.365	S	66.483	W	241	?	3.7	0.6	9	JUJUY PROVINCE, ARGENTINA
02	08	51	11.1*	10.962	N	85.900	W	33	N	4.2	1.3	25	COSTA RICA. MD 4.2 (SJR).
02	09	38	22.1*	46.429	S	109.413	E	10	G	4.8 4.1	1.0	48	SOUTHEAST INDIAN RIDGE
02	10	33	23.9&	26.420	S	27.390	E	2	G			14	REPUBLIC OF SOUTH AFRICA. <PRE>. ML 3.5 (PRE).
02	10	57	25.3&	33.032	S	70.068	W	116				13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
02	11	02	52.7&	46.400	N	3.700	E	2				7	FRANCE. <LDG>. ML 2.0 (LDG).
02	11	10	18.3*	29.510	N	141.565	E	33	N		0.7	9	SOUTH OF HONSHU, JAPAN
02	11	30	31.7*	51.492	N	16.085	E	5	G		0.4	5	POLAND. ML 3.0 (VIE), 2.9 (WAR).
02	12	20	32.3*	3.751	N	124.551	E	295	?	4.4	0.9	22	CELEBES SEA
02	12	22	59.1&	44.623	N	7.216	E	14				19	NORTHERN ITALY. <GEN>. ML 2.5 (GEN), 2.2 (LDG).
02	13	22	21.3*	49.410	N	105.550	E	33	N	3.7	1.5	13	MONGOLIA. Felt (II) at Zakamensk, Russia.
02	13	22	49.4	38.098	N	1.413	W	10	G		0.8	27	SPAIN. mbLg 3.6 (MDD). ML 3.6 (LDG). Felt (IV) at Abaran, Cieza and Mula.
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, Torrevieja, 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.

02	14 08 02.1*	38.302 N	21.842 E	10 G	3.5		1.5	16	GREECE. MD 3.5 (ATH).
02	14 16 16.6*	18.350 N	84.884 W	33 N	4.3		1.2	24	CARIBBEAN SEA
02	14 24 25.7	38.051 N	1.453 W	10 G			1.0	15	SPAIN. mbLg 2.9 (MDD).
02	14 27 50.8	38.342 N	21.754 E	10 G	4.0		1.2	78	GREECE. MD 4.1 (ATH).
02	14 46 04.1&	35.530 N	22.260 E	5				8	CENTRAL MEDITERRANEAN SEA. <ATH>. MD 3.4 (ATH).
02	15 11 41.1*	31.264 N	141.953 E	33 N	4.5		0.6	12	SOUTH OF HONSHU, JAPAN
02	15 22 03.1	38.047 N	1.434 W	10 G			0.5	11	SPAIN. mbLg 2.5 (MDD).
02	15 25 01.1	27.981 S	71.406 W	33 N	4.4		0.7	27	NEAR COAST OF NORTHERN CHILE
02	16 24 15.8	40.838 N	27.651 E	10 G			0.9	12	TURKEY. MD 3.4 (ATH), 3.3 (ISK).
02	16 38 25.9&	40.846 N	27.639 E	10				7	TURKEY. <ISK>. MD 2.9 (ISK).
02	17 00 27.7&	40.095 N	27.254 E	9				16	TURKEY. <ISK>. MD 3.6 (ATH), 3.4 (ISK).
02	17 13 16.5	38.122 N	1.501 W	10 G			1.0	28	SPAIN. mbLg 3.8 (MDD). ML 3.5 (LDG).
02	18 01 28.6&	28.830 N	34.670 E	1				10	EGYPT. <GII>. ML 4.0 (GII).
02	18 41 58.1	45.614 N	6.630 E	10 G			1.1	12	FRANCE. ML 2.3 (LDG).
02	19 22 44.9	38.047 N	1.430 W	10 G			1.0	9	SPAIN. mbLg 2.4 (MDD).
02	19 52 53.0&	43.000 N	0.000 E	18				12	FRANCE. <LDG>. ML 2.6 (LDG), 2.3 (STR).
02	20 02 22.7	38.077 N	1.394 W	10 G			1.1	6	SPAIN. mbLg 2.5 (MDD).
02	20 08 51.8&	33.451 S	70.252 W	109				10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.8 (GUC).
02	20 15 37.4&	37.390 N	3.410 W	0				9	SPAIN. <MDD>. mbLg 2.4 (MDD).
02	20 17 41.1	46.434 N	14.438 E	10 G			0.3	10	NORTHWESTERN BALKAN REGION. ML 2.5 (VIE), 1.9 (LJU).
02	20 50 19.0&	38.090 N	1.440 W	0				15	SPAIN. <MDD>. mbLg 2.8 (MDD).
02	21 23 52.2?	23.32 S	67.47 W	185 *			0.5	8	CHILE-ARGENTINA BORDER REGION
02	21 58 23.7&	18.430 N	67.210 W	3				4	MONA PASSAGE. <MPR>. MD 2.7 (MPR).
02	21 59 04.6*	24.782 S	179.415 E	553 ?	4.5		1.0	33	SOUTH OF FIJI ISLANDS
02	22 04 42.7?	17.61 S	178.92 W	515 ?	5.0		1.1	32	FIJI ISLANDS REGION
02	22 21 14.5*	4.375 S	153.355 E	127 *	4.4		0.9	20	NEW IRELAND REGION, P.N.G.
02	22 52 57.8*	3.258 S	122.561 E	74 ?	4.6		1.2	15	SULAWESI, INDONESIA
02	22 58 25.2&	60.158 N	152.926 W	113				49	SOUTHERN ALASKA. <AEIC>.
02	23 12 22.3&	38.010 N	1.520 W	3				9	SPAIN. <MDD>. mbLg 2.6 (MDD). Felt (III) at Cieza and Mula.
02	23 15 50.5?	3.63 S	146.14 E	33 N	3.7		0.8	7	BISMARCK SEA
02	23 58 02.0&	32.350 S	71.439 W	40				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).
03	00 04 37.2*	33.571 N	134.985 E	100 G	4.2		0.8	6	SHIKOKU, JAPAN. Felt (II JMA) in western Wakayama Prefecture, Honshu.
03	01 02 47.3&	39.290 N	21.630 E	31				4	GREECE. <ATH>. MD 2.8 (ATH).
03	01 13 57.5	20.305 S	174.365 W	33 N	5.8	6.2	1.1	135	TONGA ISLANDS. Mw 6.3 (GS), 6.2 (HRV). Me 6.0 (GS).
									Broadband Source Parameters (GS): Dep 9; NP1: Strike=20, Dip=80, Slip=90; NP2: Strike=200, Dip=10, Slip=90; Radiated energy 2.1*10**13 Nm.
									Moment Tensor (GS): Dep 10; Principal axes (scale 10**18 Nm): (T) Val=3.17, Plg=47, Azm=268; (N) Val=0.03, Plg=30, Azm=36; (P) Val=-3.19, Plg=27, Azm=144; Best double couple: Mo=3.2*10**18 Nm; NP1: Strike=281, Dip=32, Slip=158; NP2: Strike=30, Dip=79, Slip=59.
									Centroid, Moment Tensor (HRV): Centroid origin time 01:14:01.9; Lat 20.12 S; Lon 174.75 W; Dep 15.0 Bdy; Half-duration 2.9 sec; Principal axes (scale 10**18 Nm): (T) Val=2.86, Plg=38, Azm=292; (N) Val=-0.52, Plg=1, Azm=23; (P) Val=-2.34, Plg=52, Azm=114; Best double couple: Mo=2.6*10**18 Nm; NP1: Strike=16, Dip=7, Slip=-97; NP2: Strike=203, Dip=83, Slip=-89.
									Scalar Moment (PPT): Mo=2.0*10**18 Nm.
03	01 46 38.3?	53.17 N	170.89 W	126 ?			0.8	8	FOX ISLANDS, ALEUTIAN ISLANDS
03	01 48 28.0*	4.135 S	129.579 E	100 G	4.5		1.1	12	BANDA SEA
03	02 02 28.5	38.120 N	1.491 W	10 G			1.0	35	SPAIN. mbLg 3.5 (MDD). ML 3.5 (LDG). Felt (III) at Cieza and Mula.
03	02 02 49.9&	59.913 N	148.613 W	10				73	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.9 (AEIC).
03	03 19 00.4&	18.680 N	68.720 W	45				9	MONA PASSAGE. <MPR>. MD 3.5 (MPR).
03	03 32 01.4&	44.528 N	7.294 E	14				9	NORTHERN ITALY. <GEN>. ML 2.1 (GEN).
03	04 08 26.0	4.641 S	153.595 E	126	4.6		0.9	25	NEW IRELAND REGION, P.N.G.
03	04 24 07.7&	18.970 N	68.720 W	46				9	MONA PASSAGE. <MPR>. MD 3.8 (MPR).
03	05 30 07.1*	85.603 N	85.495 E	10 G	4.0		1.0	15	NORTH OF SEVERNAYA ZEMLYA
03	05 33 27.4&	40.200 N	21.620 E	5				8	GREECE. <ATH>. MD 3.1 (ATH).
03	05 55 19.4*	33.340 S	69.794 W	10 G			0.3	13	CHILE-ARGENTINA BORDER REGION. MD 4.0 (GUC).
03	05 56 24.2&	40.410 N	22.000 E	13				4	GREECE. <ATH>. MD 3.0 (ATH).
03	06 02 31.1	38.064 N	1.557 W	10 G			1.0	14	SPAIN. mbLg 2.8 (MDD). Felt (III) at Cieza and Mula.
03	06 35 56.6	6.190 S	104.222 E	33 N	5.6	5.6	0.9	176	SUNDA STRAIT. Mw 5.8 (HRV), 5.7 (GS). Me 5.5 (GS). Felt (III) at Liwa, Indonesia.
									Broadband Source Parameters (GS): Dep 32; NP1: Strike=135, Dip=65, Slip=90; NP2: Strike=315, Dip=25, Slip=90; Radiated energy 4.0*10**12 Nm.
									Moment Tensor (GS): Dep 30; Principal axes (scale 10**17 Nm): (T) Val=4.57, Plg=57, Azm=23; (N) Val=-0.75, Plg=1, Azm=116; (P) Val=-3.82, Plg=33, Azm=206; Best double couple: Mo=4.2*10**17 Nm; NP1: Strike=302, Dip=12, Slip=97; NP2: Strike=115, Dip=78, Slip=89.
									Centroid, Moment Tensor (HRV): Centroid origin time 06:36:01.4; Lat 6.66 S; Lon 103.97 E; Dep 39.0 Bdy; Half-duration 2.2 sec; Principal axes (scale 10**17 Nm): (T) Val=5.81, Plg=67, Azm=41; (N) Val=0.83, Plg=6, Azm=297; (P) Val=-6.64, Plg=23, Azm=205; Best double couple: Mo=6.2*10**17 Nm; NP1: Strike=283, Dip=23, Slip=75; NP2: Strike=120, Dip=68, Slip=96.
03	06 56 55.5&	40.797 N	27.981 E	5				4	TURKEY. <ISK>. MD 2.6 (ISK).
03	07 02 26.7?	4.63 S	153.66 E	150 G	4.2		0.7	9	NEW IRELAND REGION, P.N.G.
03	07 26 09.0*	5.271 N	125.092 E	250 G	4.0		0.8	13	MINDANAO, PHILIPPINE ISLANDS

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03  07 32 41.7& 31.628 S   71.857 W   25                    11  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
03  08 20 07.1& 33.002 S   70.158 W    8                    12  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
03  09 57 28.7* 57.264 N  120.636 E   10 G          1.0     7  SOUTHEASTERN SIBERIA, RUSSIA
03  11 49 17.5?  5.24  S  129.57  E  160 ?  4.3      0.9    12  BANDA SEA
03  11 49 58.3? 34.11  N   25.77  E   10 G          1.4    14  CRETE. MD 3.7 (ATH).
03  11 54 32.9& 13.562 N   60.302 W   64                     5  WINDWARD ISLANDS. <TRN>. MD 3.4 (TRN).
03  12 21 26.4? 23.34  S  175.35  W  200 G  4.2      0.8    12  TONGA ISLANDS REGION
03  12 40 55.7  40.358 N   25.847 E   10 G          0.9    10  AEGEAN SEA. MD 3.2 (ISK), 3.2 (ATH).
03  12 46 32.4  28.850 N   95.914 E  111 D  4.4      0.8    27  EASTERN XIZANG-INDIA BORDER REG.
03  13 15 29.8* 36.388 N   71.454 E  119 D  4.6      1.1    24  AFGHANISTAN-TAJIKISTAN BORD REG.
03  13 44 34.3* 14.570 N   94.143 W   33 N  4.1      1.2    22  OFF COAST OF CHIAPAS, MEXICO
03  13 51 45.4  85.489 N   86.285 E   10 G  4.7      0.9    14  NORTH OF SEVERNAYA ZEMLYA
03  13 54 45.4& 34.831 S   71.016 W  106                     8  NEAR COAST OF CENTRAL CHILE. <GUC>.
03  13 59 20.8*  4.430 S  153.529 E  115 *  4.1      0.6    14  NEW IRELAND REGION, P.N.G.
03  14 21 33.2? 36.50  N   71.62  E  115 ?  4.6      0.8     9  AFGHANISTAN-TAJIKISTAN BORD REG.
03  15 01 44.8  20.518 S  178.599 W  600 G  4.2      0.9    45  FIJI ISLANDS REGION
03  15 10 06.1% 37.746 N   72.259 E  150 G          0.6     6  TAJIKISTAN
03  15 39 49.6? 36.83  N   11.40  W   10 G          0.8    19  NORTH ATLANTIC OCEAN. mbLg 3.0 (MDD).
03  16 06 29.3* 85.151 N   94.081 E   10 G  4.7      1.2    11  NORTH OF SEVERNAYA ZEMLYA
03  16 08 31.7*  3.791 N  126.370 E   33 N  4.9 4.2   1.0    33  TALAUD ISLANDS, INDONESIA
03  16 09 09.9  33.833 N   25.523 E   33 N  4.2      1.3    45  EASTERN MEDITERRANEAN SEA
03  16 20 24.8  45.102 N    5.670 E   10 G          1.0    68  FRANCE. ML 3.3 (LDG), 3.1 (STR).
03  17 09 13.9?  4.55  S  154.00  E  100 G  4.1      0.8     9  SOLOMON ISLANDS
03  18 39 20.0*  4.577 S  153.599 E  119 *  4.6      0.9    20  NEW IRELAND REGION, P.N.G.
03  18 42 22.8& 38.630 N   21.610 E    2                     7  GREECE. <ATH>. MD 3.0 (ATH).
03  19 30 28.5& 53.475 N  164.965 W    0                    12  UNIMAK ISLAND REGION. <AEIC>. ML 2.7 (AEIC).
03  19 37 30.2* 23.766 S   66.831 W  200 G  4.0      1.3    15  JUJUY PROVINCE, ARGENTINA
03  19 39 26.4  57.419 N  120.743 E   10 G  4.5      0.7    18  SOUTHEASTERN SIBERIA, RUSSIA
03  20 28 14.9  51.573 N   16.311 E    5 G          0.6    24  POLAND. ML 3.7 (GRF), 3.5 (WAR), 3.5 (VIE).
03  20 38 20.8  18.117 N  145.795 E  100 D  4.7      0.8    51  MARIANA ISLANDS
03  21 48 40.4*  3.039 S  122.881 E   33 N  4.7      1.3    27  SULAWESI, INDONESIA
03  22 34 17.7& 31.880 S   72.539 W   26                    14  OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.2 (GUC).
03  22 45 05.3*  4.663 S  153.888 E  100 G  4.0      1.3    14  NEW IRELAND REGION, P.N.G.
03  23 04 24.8  56.636 N  131.280 E   10 G          0.7    18  SOUTHEASTERN SIBERIA, RUSSIA
03  23 26 56.7& 63.132 N  149.407 W   17                    72  CENTRAL ALASKA. <AEIC>. ML 3.1 (AEIC), 3.2 (PMR).
04  00 10 36.2* 29.350 N  140.297 E   33 N  4.2      0.9    11  SOUTH OF HONSHU, JAPAN
04  00 12 49.8? 12.76  S  166.71  E  177 ?  4.0      0.9    15  SANTA CRUZ ISLANDS
04  00 19 36.9& 37.160 N  121.554 W    6                    14  CENTRAL CALIFORNIA. <GM-P>. Mw 3.5 (BRK). MD 3.6 (GM). ML
                                                                 3.9 (BRK). Felt at Cupertino, Morgan Hill, San Jose and
                                                                 Sunnyvale.
                                                                Moment Tensor (BRK): Dep 5; Principal axes (scale 10**14
                                                                 Nm): (T) Val=2.32, Plg=8, Azm=287; (N) Val=0.00, Plg=76,
                                                                 Azm=161; (P) Val=-2.32, Plg=11, Azm=19; Best double couple:
                                                                 Mo=2.3*10**14 Nm; NP1: Strike=153, Dip=88, Slip=-166; NP2:
                                                                 Strike=63, Dip=76, Slip=-2.
04  00 21 41.2& 37.161 N  121.555 W    6                    12  CENTRAL CALIFORNIA. <GM-P>. Mw 3.5 (BRK). MD 3.4 (GM). ML
                                                                 3.7 (BRK). Felt at San Jose.
                                                                Moment Tensor (BRK): Dep 8; Principal axes (scale 10**14
                                                                 Nm): (T) Val=2.05, Plg=11, Azm=285; (N) Val=0.00, Plg=79,
                                                                 Azm=86; (P) Val=-2.05, Plg=4, Azm=194; Best double couple:
                                                                 Mo=2.1*10**14 Nm; NP1: Strike=60, Dip=85, Slip=10; NP2:
                                                                 Strike=329, Dip=80, Slip=175.
04  00 39 48.3& 45.000 N    5.800 E   18                     6  FRANCE. <LDG>. ML 1.5 (LDG).
04  02 08 58.6* 35.324 N  140.638 E   33 N          1.4    11  NEAR EAST COAST OF HONSHU, JAPAN
04  02 27 56.2? 50.15  N  179.64  E   33 N  3.5      0.4     7  RAT ISLANDS, ALEUTIAN ISLANDS
04  02 35 36.1   8.612 S  149.279 E   98 D  5.7      0.9   227  EASTERN NEW GUINEA REG., P.N.G. Mw 5.8 (GS), 5.8 (HRV). Me
                                                                 5.5 (GS). Felt at Port Moresby.
                                                                Broadband Source Parameters (GS): Dep 89; NP1: Strike=135,
                                                                 Dip=65, Slip=-70; NP2: Strike=274, Dip=32, Slip=-126;
                                                                 Radiated energy 4.4*10**12 Nm.
                                                                Moment Tensor (GS): Dep 91; Principal axes (scale 10**17
                                                                 Nm): (T) Val=4.94, Plg=31, Azm=223; (N) Val=2.15, Plg=6,
                                                                 Azm=129; (P) Val=-7.09, Plg=58, Azm=30; Best double couple:
                                                                 Mo=6.0*10**17 Nm; NP1: Strike=331, Dip=15, Slip=-67; NP2:
                                                                 Strike=128, Dip=77, Slip=-96.
                                                                Centroid, Moment Tensor (HRV): Centroid origin time
                                                                 02:35:40.8; Lat 8.50 S; Lon 149.36 E; Dep 100.2; Half-
                                                                 duration 2.1 sec; Principal axes (scale 10**17 Nm): (T)
                                                                 Val=4.81, Plg=34, Azm=225; (N) Val=0.97, Plg=11, Azm=128;
                                                                 (P) Val=-5.79, Plg=54, Azm=23; Best double couple:
                                                                 Mo=5.3*10**17 Nm; NP1: Strike=354, Dip=15, Slip=-43; NP2:
                                                                 Strike=126, Dip=80, Slip=-101.
04  03 24 10.5& 59.326 N  152.238 W   78                    68  SOUTHERN ALASKA. <AEIC>.
04  03 24 34.0& 34.063 S   70.352 W    9                    10  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.5 (GUC).
04  03 25 22.5& 45.043 N    7.332 E   12                    17  NORTHERN ITALY. <GEN>. ML 2.2 (GEN), 1.8 (LDG).
04  03 36 33.8? 37.06  N   10.86  W   10 G          1.0    17  NORTH ATLANTIC OCEAN. mbLg 2.4 (MDD).
04  03 52 10.1& 45.650 N    7.102 E    0                    61  NORTHERN ITALY. <GEN>. ML 2.9 (LDG), 2.8 (STR), 2.7 (GEN),
                                                                 2.5 (FBB).
04  03 52 21.8* 33.937 N   90.659 E   33 N  3.7      0.8    10  QINGHAI, CHINA
04  04 37 57.7& 33.957 S   72.090 W   47                     7  OFF COAST OF CENTRAL CHILE. <GUC>.
04  05 01 07.5& 38.860 N   20.550 E    5                     8  GREECE. <ATH>. MD 3.1 (ATH).
04  05 28 06.0& 45.600 N    7.000 E    5                     9  NORTHERN ITALY. <LDG>. ML 2.0 (LDG).
04  05 38 39.2& 33.111 S   68.978 W   19                    14  MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 4.0 (GUC).
04  05 41 03.2& 38.890 N   20.450 E    5                     4  GREECE. <ATH>. MD 2.9 (ATH).
04  05 50 26.1& 38.870 N   20.610 E    5                     9  GREECE. <ATH>. MD 3.3 (ATH).
04  06 04 02.5& 38.840 N   20.440 E    5                     8  GREECE. <ATH>. MD 3.1 (ATH).
04  06 15 41.3& 38.030 N    1.470 W    7                    11  SPAIN. <MDD>. mbLg 2.2 (MDD).
04  06 51 52.1* 43.683 N  146.758 E   33 N  4.3      1.2    16  KURIL ISLANDS
04  07 20 32.3  16.001 S  175.053 W  100 G  4.3      1.2    14  TONGA ISLANDS
04  07 51 26.1& 38.880 N   20.650 E    4                     8  GREECE. <ATH>. MD 3.2 (ATH).
04  08 11 45.8* 20.864 S   68.511 W   33 N  4.6      0.6    10  CHILE-BOLIVIA BORDER REGION
04  08 16 53.8? 50.18  S  163.93  E   33 N  4.4      0.8     8  AUCKLAND ISLANDS REGION
04  08 26 17.0& 37.532 N  118.816 W    6                    19  CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.2 (GM). ML 3.3
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(BRK).
04 08 27 12.6& 32.116 S 71.525 W 55 9 NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
04 09 12 56.4 54.191 N 162.301 W 33 N 5.2 4.7 0.9 249 ALASKA PENINSULA. Mw 5.2 (HRV). ML 5.4 (PMR), 5.1 (AEIC)
Felt at Cold Bay and False Pass.
Centroid, Moment Tensor (HRV): Centroid origin time
09:13:02.0; Lat 54.02 N; Lon 161.83 W; Dep 30.5; Half-
duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
Val=6.34, Plg=73, Azm=35; (N) Val=-0.01, Plg=13, Azm=256;
(P) Val=-6.34, Plg=11, Azm=163; Best double couple:
Mo=6.3*10**16 Nm; NP1: Strike=236, Dip=36, Slip=67; NP2:
Strike=84, Dip=57, Slip=106.
04 09 15 21.9* 48.660 N 8.896 E 10 G 0.6 5 GERMANY. ML 2.1 (STR).
04 09 21 06.4& 54.197 N 162.179 W 3 17 ALASKA PENINSULA. <AEIC>. ML 3.2 (AEIC).
04 09 39 53.3& 39.632 N 29.704 E 13 4 TURKEY. <ISK>. MD 2.6 (ISK).
04 10 32 30.9% 4.520 N 75.743 W 10 G 0.5 5 COLOMBIA. ML 2.7 (RSNC).
04 10 36 21.3* 42.991 N 45.875 E 33 N 3.9 1.4 9 EASTERN CAUCASUS. Felt (IV) at Dylym.
04 11 07 41.3& 6.835 N 73.072 W 160 4.2 18 NORTHERN COLOMBIA. <RSNC>.
04 11 54 59.6* 17.990 N 108.796 W 10 G 4.1 1.3 20 REVILLA GIGEDO ISLANDS REGION
04 12 13 03.8& 37.850 N 22.980 E 5 12 SOUTHERN GREECE. <ATH>. MD 3.3 (ATH).
04 12 34 34.4 8.965 S 110.507 E 101 * 5.2 0.9 74 JAWA, INDONESIA. Mw 5.3 (HRV). Felt (III) at Yogyakarta.
Centroid, Moment Tensor (HRV): Centroid origin time
12:34:34.8; Lat 8.87 S; Lon 110.64 E; Dep 81.0; Half-
duration 1.2 sec; Principal axes (scale 10**16 Nm): (T)
Val=9.75, Plg=11, Azm=318; (N) Val=-2.32, Plg=6, Azm=49;
(P) Val=-7.44, Plg=78, Azm=166; Best double couple:
Mo=8.6*10**16 Nm; NP1: Strike=41, Dip=35, Slip=-100; NP2:
Strike=233, Dip=56, Slip=-83.
04 12 57 24.0 8.241 S 117.855 E 176 * 4.6 1.0 28 SUMBAWA REGION, INDONESIA
04 13 02 10.8& 35.342 N 118.540 W 0 34 CENTRAL CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
04 13 10 33.4& 33.436 S 70.436 W 93 13 CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
04 14 32 44.1 54.161 N 162.272 W 33 N 4.1 0.8 38 ALASKA PENINSULA. ML 4.3 (AEIC).
04 14 45 07.5& 39.236 N 27.697 E 10 5 TURKEY. <ISK>. MD 2.8 (ISK).
04 15 28 48.8* 45.739 N 151.518 E 33 N 4.7 1.1 25 KURIL ISLANDS
04 15 28 57.2 11.386 N 139.018 E 33 N 5.4 5.3 1.1 89 WESTERN CAROLINE ISLANDS. Mw 5.7 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time
15:28:59.9; Lat 11.47 N; Lon 139.07 E; Dep 15.0 Bdy; Half-
duration 1.7 sec; Principal axes (scale 10**17 Nm): (T)
Val=3.46, Plg=35, Azm=262; (N) Val=0.38, Plg=50, Azm=50;
(P) Val=-3.84, Plg=16, Azm=160; Best double couple:
Mo=3.7*10**17 Nm; NP1: Strike=296, Dip=53, Slip=165; NP2:
Strike=35, Dip=78, Slip=38.
04 15 34 58.5* 11.360 N 139.196 E 33 N 5.2 0.9 23 WESTERN CAROLINE ISLANDS
04 15 38 18.4& 4.402 N 75.850 W 3 7 COLOMBIA. <RSNC>. ML 2.8 (RSNC).
04 16 30 42.4 42.227 N 118.150 W 5 G 0.3 8 OREGON. ML 3.5 (GS).
04 16 42 16.6 7.879 S 120.082 E 212 * 4.8 1.1 28 FLORES SEA
04 17 47 59.4& 10.991 N 61.612 W 66 5 TRINIDAD. <TRN>. MD 3.0 (TRN).
04 17 52 38.4? 4.54 S 153.69 E 127 ? 4.2 0.9 10 NEW IRELAND REGION, P.N.G.
04 18 07 59.2 46.257 N 13.713 E 10 G 0.9 13 AUSTRIA. ML 2.5 (VIE), 2.0 (LJU).
04 18 51 32.5& 8.776 N 82.930 W 22 3.4 8 PANAMA-COSTA RICA BORDER REGION. <SJR>. MD 3.9 (SJR).
04 18 51 40.0 85.703 N 86.807 E 10 G 4.4 1.0 19 NORTH OF SEVERNAYA ZEMLYA
04 19 28 00.8 4.033 N 95.283 E 56 D 5.8 5.4 0.9 367 NORTHERN SUMATERA, INDONESIA. Mw 5.9 (GS), 5.8 (HRV). Me 6.1
(GS). Felt (IV) at Banda Aceh and Tapatuan.
Broadband Source Parameters (GS): Dep 43; NP1: Strike=320,
Dip=80, Slip=-40; NP2: Strike=58, Dip=51, Slip=-167;
Radiated energy 2.7*10**13 Nm.
Moment Tensor (GS): Dep 43; Principal axes (scale 10**17
Nm): (T) Val=8.67, Plg=18, Azm=40; (N) Val=-1.68, Plg=57,
Azm=159; (P) Val=-6.99, Plg=27, Azm=300; Best double
couple: Mo=7.8*10**17 Nm; NP1: Strike=82, Dip=58,
Slip=-173; NP2: Strike=348, Dip=84, Slip=-33.
Centroid, Moment Tensor (HRV): Centroid origin time
19:28:02.7; Lat 3.96 N; Lon 95.16 E; Dep 47.0 Bdy; Half-
duration 2.0 sec; Principal axes (scale 10**17 Nm): (T)
Val=7.07, Plg=17, Azm=43; (N) Val=-1.74, Plg=37, Azm=146;
(P) Val=-5.33, Plg=48, Azm=293; Best double couple:
Mo=6.2*10**17 Nm; NP1: Strike=93, Dip=43, Slip=-152; NP2:
Strike=341, Dip=71, Slip=-51.
04 19 43 14.0 1.083 N 30.545 W 10 G 4.9 4.6 1.0 59 CENTRAL MID-ATLANTIC RIDGE. Mw 5.2 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time
19:43:20.1; Lat 1.25 N; Lon 30.58 W; Dep 15.0 Fix; Half-
duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
Val=8.31, Plg=0, Azm=251; (N) Val=-0.30, Plg=0, Azm=161;
(P) Val=-8.01, Plg=90, Azm=180; Best double couple:
Mo=8.2*10**16 Nm; NP1: Strike=341, Dip=45, Slip=-90; NP2:
Strike=161, Dip=45, Slip=-90.
04 19 50 04.1& 38.050 N 1.480 W 3 16 SPAIN. <MDD>. mbLg 2.3 (MDD). Felt (III) at Mula.
04 20 10 15.2* 34.017 N 45.582 E 33 N 4.4 1.4 15 IRAN-IRAQ BORDER REGION
04 20 50 07.7* 9.442 S 74.446 W 33 N 1.2 8 CENTRAL PERU
04 21 49 51.1 34.183 N 25.680 E 33 N 4.2 0.9 20 CRETE. MD 3.7 (ATH).
04 21 54 57.7? 31.79 S 71.81 W 10 G 0.3 11 NEAR COAST OF CENTRAL CHILE. MD 4.0 (GUC).
04 22 42 24.4* 18.512 N 121.479 E 33 N 4.3 1.3 19 LUZON, PHILIPPINE ISLANDS
04 23 18 49.0* 53.676 N 158.406 E 141 * 4.0 1.1 14 NEAR EAST COAST OF KAMCHATKA
05 00 10 04.0% 4.519 N 75.754 W 10 G 1.3 6 COLOMBIA. ML 3.0 (RSNC).
05 00 24 14.4* 36.399 N 68.692 E 77 ? 4.3 1.1 24 HINDU KUSH REGION, AFGHANISTAN
05 01 40 49.9& 36.530 N 3.340 W 16 7 STRAIT OF GIBRALTAR. <MDD>. mbLg 2.2 (MDD).
05 01 46 07.4& 62.508 N 149 098 W 56 5 CENTRAL ALASKA. <AEIC>. ML 3.4 (AEIC).
05 01 46 20.2& 38.860 N 20.530 E 5 8 GREECE. <ATH>. MD 3.3 (ATH).
05 02 22 45.0 19.072 N 46.130 W 10 G 4.7 4.4 0.7 37 NORTHERN MID-ATLANTIC RIDGE
05 02 58 58.4* 46.052 N 14.771 E 10 G 0.1 5 NORTHWESTERN BALKAN REGION. ML 1.7 (VIE), 1.0 (LJU).
05 03 16 20.3* 19.992 N 46.152 W 10 G 4.7 0.7 28 NORTHERN MID-ATLANTIC RIDGE
05 03 33 24.3& 10.966 N 61.987 W 88 5 TRINIDAD. <TRN>. MD 3.0 (TRN).
05 04 23 08.2 6.661 S 11.432 W 10 G 5.0 4.6 0.9 69 ASCENSION ISLAND REGION. Mw 5.3 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time

04:23:12.4; Lat 6.56 S; Lon 11.68 W; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**16 Nm): (T) Val=8.22, Plg=9, Azm=116; (N) Val=1.00, Plg=62, Azm=8; (P) Val=-9.22, Plg=26, Azm=210; Best double couple: Mo=8.7*10**16 Nm; NP1: Strike=250, Dip=65, Slip=-13; NP2: Strike=345, Dip=78, Slip=-155.

05	04	34	25.5*	0.197	S	125.223	E	33	N	4.7	1.1	23	SOUTHERN MOLUCCA SEA
05	05	07	48.9&	45.117	N	9.371	E	0				26	NORTHERN ITALY. <GEN>. ML 2.7 (GEN).
05	05	08	13.7&	45.040	N	9.310	E	1		3.6		91	NORTHERN ITALY. <GEN>. ML 4.0 (GEN), 3.8 (STR), 3.7 (LDG).
05	05	11	32.8	1.462	N	128.184	E	99	D	4.5	0.9	26	HALMAHERA, INDONESIA
05	06	12	53.0&	38.940	N	20.740	E	5				7	GREECE. <ATH>. MD 3.2 (ATH).
05	06	35	05.2&	44.334	N	7.425	E	19				4	NORTHERN ITALY. <GEN>. ML 2.4 (GEN).
05	06	42	06.8&	34.172	S	70.528	W	116		.		13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
05	06	50	32.9*	47.045	S	33.191	E	10	G	4.4	1.2	15	PRINCE EDWARD ISLANDS REGION
05	07	03	34.8*	19.665	N	147.002	E	33	N	3.8	0.7	12	MARIANA ISLANDS REGION
05	07	25	55.4?	30.29	N	130.05	E	10	G		1.1	6	KYUSHU, JAPAN
05	07	27	27.8?	15.22	S	177.54	W	33	N	4.2	0.5	7	FIJI ISLANDS REGION
05	08	10	09.0	46.054	N	14.775	E	10	G		0.3	10	NORTHWESTERN BALKAN REGION. ML 2.9 (VIE), 2.3 (LJU).
05	08	10	34.7&	31.783	S	70.232	W	127				12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.2 (GUC).
05	08	37	19.0*	17.152	S	174.284	W	164	D	4.4	1.0	34	TONGA ISLANDS
05	08	59	44.5*	45.514	N	152.119	E	33	N	4.2	0.9	14	EAST OF KURIL ISLANDS
05	09	20	48.7?	63.61	S	149.22	E	10	G	4.6	0.5	5	BALLENY ISLANDS REGION
05	09	20	57.4&	44.548	N	7.179	E	12				7	NORTHERN ITALY. <GEN>. ML 2.1 (GEN).
05	09	35	17.3&	33.002	S	71.390	W	53				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
05	09	55	28.1*	30.294	N	130.252	E	10	G	4.0	0.8	8	KYUSHU, JAPAN
05	10	03	00.8*	85.590	N	84.970	E	10	G	4.1	1.1	15	NORTH OF SEVERNAYA ZEMLYA
05	10	21	27.5*	39.134	S	174.720	E	225	*	4.0	0.7	22	NORTH ISLAND, NEW ZEALAND
05	11	11	22.9	6.149	S	153.204	E	33	N	4.6	0.9	33	NEW BRITAIN REGION, P.N.G.
05	11	14	35.2&	40.636	N	122.409	W	24				5	NORTHERN CALIFORNIA. <GM-P>. MD 2.9 (GM).
05	11	28	30.1&	32.351	S	71.345	W	49				10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
05	11	28	55.2&	45.200	N	6.500	E	2				6	FRANCE. <LDG>. ML 1.5 (LDG).
05	11	39	45.1	12.616	S	166.966	E	213	D	5.7	1.0	266	SANTA CRUZ ISLANDS. Mw 5.9 (GS), 5.9 (HRV). Me 5.6 (GS).

Broadband Source Parameters (GS): Radiated energy 6.6*10**12 Nm.
Moment Tensor (GS): Dep 211; Principal axes (scale 10**17 Nm): (T) Val=7.36, Plg=79, Azm=76; (N) Val=0.21, Plg=1, Azm=172; (P) Val=-7.58, Plg=11, Azm=262; Best double couple: Mo=7.5*10**17 Nm; NP1: Strike=353, Dip=34, Slip=92; NP2: Strike=171, Dip=56, Slip=89.
Centroid, Moment Tensor (HRV): Centroid origin time 11:39:50.4; Lat 12.56 S; Lon 166.85 E; Dep 210.5; Half-duration 2.2 sec; Principal axes (scale 10**17 Nm): (T) Val=7.40, Plg=78, Azm=84; (N) Val=-0.02, Plg=2, Azm=183; (P) Val=-7.38, Plg=11, Azm=274; Best double couple: Mo=7.4*10**17 Nm; NP1: Strike=6, Dip=34, Slip=94; NP2: Strike=182, Dip=56, Slip=88.

05	11	47	19.1&	38.980	N	20.770	E	5				7	GREECE. <ATH>. MD 3.2 (ATH).
05	12	06	15.5*	38.174	N	73.004	E	144	*	4.0	0.7	14	TAJIKISTAN-XINJIANG BORDER REG.
05	12	18	32.0&	18.040	N	65.750	W	10				5	PUERTO RICO REGION. <MPR>. MD 2.8 (MPR).
05	12	18	51.8?	1.71	N	99.79	W	10	G	4.1	0.7	10	WEST OF GALAPAGOS ISLANDS
05	13	47	07.1&	31.955	S	69.345	W	143				12	SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 3.5 (GUC).
05	14	01	49.8	38.500	N	30.652	E	10	G	3.5	0.9	18	TURKEY. MD 3.6 (ISK).
05	14	26	41.8&	38.473	N	30.617	E	10	G			4	TURKEY. <ISK>. MD 3.4 (ISK).
05	14	31	05.5&	39.790	N	20.560	E	5				6	GREECE-ALBANIA BORDER REGION. <ATH>. MD 3.0 (ATH).
05	14	34	41.2?	51.48	N	175.89	W	33	N	3.4	0.6	5	ANDREANOF ISLANDS, ALEUTIAN IS.
05	14	37	53.0	47.505	N	147.158	E	407	D	5.4	0.7	372	NORTHWEST OF KURIL ISLANDS. Mw 5.8 (GS), 5.8 (HRV). Felt (II JMA) in the Hiroo area, Hokkaido. Also felt (I JMA) in eastern Aomori and northern Iwate Prefectures, Honshu.

Moment Tensor (GS): Dep 399; Principal axes (scale 10**17 Nm): (T) Val=4.50, Plg=44, Azm=85; (N) Val=2.96, Plg=7, Azm=348; (P) Val=-7.46, Plg=45, Azm=251; Best double couple: Mo=6.0*10**17 Nm; NP1: Strike=252, Dip=7, Slip=-6; NP2: Strike=348, Dip=89, Slip=-97.
Centroid, Moment Tensor (HRV): Centroid origin time 14:37:56.5; Lat 47.47 N; Lon 147.73 E; Dep 402.4; Half-duration 2.1 sec; Principal axes (scale 10**17 Nm): (T) Val=5.01, Plg=33, Azm=109; (N) Val=2.66, Plg=26, Azm=2; (P) Val=-7.67, Plg=46, Azm=242; Best double couple: Mo=6.3*10**17 Nm; NP1: Strike=253, Dip=27, Slip=-17; NP2: Strike=358, Dip=82, Slip=-116.

05	15	16	44.3*	46.271	N	16.158	E	5	G.		0.8	7	NORTHWESTERN BALKAN REGION. ML 2.1 (VIE), 1.4 (LJU).
05	15	20	06.5?	53.36	S	160.16	E	10	G	4.2	1.3	10	MACQUARIE ISLANDS REGION
05	15	36	42.8	46.057	N	14.770	E	10	G		0.3	8	NORTHWESTERN BALKAN REGION. ML 2.6 (VIE), 1.8 (LJU).
05	15	37	40.1	46.062	N	14.771	E	10	G		1.1	29	NORTHWESTERN BALKAN REGION. ML 3.7 (VIE), 3.4 (FUR), 2.9 (LJU).
05	15	49	14.0&	49.170	N	6.910	E	1	G			9	GERMANY. <FBB>. ML 2.1 (FBB), 2.0 (STR), 1.7 (UCC).
05	15	51	31.0?	18.35	S	168.97	E	222	?	4.2	1.1	14	VANUATU ISLANDS
05	16	07	07.6	35.016	S	70.946	W	86	D	5.0	1.2	60	CHILE-ARGENTINA BORDER REGION. Mw 5.3 (HRV). MD 5.2 (GUC).

Felt (V) at San Fernando and Santa Cruz; (IV) at Curico, Pichilemu, Rancagua, Romeral and Talca; (III) at Casablanca, Cauquenes, Concon, Linares, Parral, Valparaiso and Vina del Mar; (II) at Santiago, Chile.
Centroid, Moment Tensor (HRV): Centroid origin time 16:07:10.0; Lat 34.78 S; Lon 70.56 W; Dep 99.0; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.04, Plg=51, Azm=103; (N) Val=-0.34, Plg=37, Azm=261; (P) Val=-0.70, Plg=11, Azm=359; Best double couple: Mo=8.7*10**16 Nm; NP1: Strike=126, Dip=47, Slip=146; NP2: Strike=241, Dip=66, Slip=48.

05	16	13	35.3*	48.902	N	10.314	E	10	G		0.8	6	GERMANY. ML 2.4 (VIE).
05	16	30	19.6	51.646	N	16.136	E	5	G	3.7	0.5	19	POLAND. ML 4.1 (GRF), 3.8 (WAR), 3.7 (VIE).
05	17	00	05.4	46.063	N	14.769	E	10	G		0.3	9	NORTHWESTERN BALKAN REGION. ML 2.6 (VIE), 1.8 (LJU).
05	17	06	15.1	17.982	S	178.546	W	600	G	4.2	0.9	68	FIJI ISLANDS REGION

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05  17 59 55.3& 39.210 N    7.020 W   15                      4  PORTUGAL. <MDD>. mbLg 2.2 (MDD).
05  18 10 35.2& 40.627 N  122.399 W   26                     10  NORTHERN CALIFORNIA. <GM-P>. MD 3.5 (GM). ML 3.6 (BRK).
05  18 47 30.2& 42.999 N   18.685 E   11                      8  NORTHWESTERN BALKAN REGION. <PDG>. ML 2.2 (PDG).
05  19 51 20.5& 46.600 N    1.500 E    2                      8  FRANCE. <LDG>. ML 1.9 (LDG).
05  22 20 45.5?  4.46  S  153.68  E  110 ?  4.1       0.6    7  NEW IRELAND REGION, P.N.G.
05  22 33 57.4  85.630 N   86.084 E   10 G  4.6 4.2   1.2   33  NORTH OF SEVERNAYA ZEMLYA
05  23 16 52.9& 37.257 N  121.642 W    5                      8  CENTRAL CALIFORNIA. <GM-P>. MD 2.8 (GM).
05  23 22 34.8& 38.485 N   30.599 E   10 G                    8  TURKEY. <ISK>. MD 3.2 (ISK).
05  23 24 24.6& 18.980 N   67.510 W    5                      4  MONA PASSAGE. <MPR>. MD 2.9 (MPR).
05  23 45 16.7& 4.490 N    75.693 W    3                      7  COLOMBIA. <RSNC>. ML 3.4 (RSNC).
05  23 46 55.0* 29.168 S   72.458 W   33 N           0.4   12  OFF COAST OF CENTRAL CHILE
06  00 43 33.1& 60.031 N  152.288 W   70                     31  SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC).
06  01 04 22.0& 34.410 S   70.698 W   99                     10  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
06  01 15 25.2& 54.228 N  162.228 W    0                     10  ALASKA PENINSULA. <AEIC>. ML 2.5 (AEIC).
06  03 10 04.7   9.416 N  127.175 E   33 N  4.7 3.9   1.0   40  PHILIPPINE ISLANDS REGION
06  03 10 27.1* 51.483 N   16.277 E    5 G           0.3    6  POLAND. ML 3.3 (VIE), 3.1 (WAR).
06  03 35 29.8& 38.521 N  123.680 W    1                      9  NEAR COAST OF NORTHERN CALIF. <GM-P>. MD 3.3 (GM). ML 3.3
                                                                  (BRK).
06  03 36 15.9& 38.507 N   30.549 E   10 G                   12  TURKEY. <ISK>. MD 3.6 (ISK).
06  03 48 52.9*  3.042 S  142.910 E   33 N  3.8       0.9    7  NEAR N COAST OF NEW GUINEA, PNG.
06  03 49 56.8& 37.240 N   20.670 E    5    4.2              50  IONIAN SEA. <ATH>. MD 4.0 (ATH). ML 4.0 (PDG).
06  03 50 09.4  46.062 N   14.773 E   10 G           0.3    7  NORTHWESTERN BALKAN REGION. ML 1.7 (VIE), 1.1 (LJU).
06  03 53 41.3? 14.14  N   93.86  E   43 D  4.5       0.8   11  ANDAMAN ISLANDS, INDIA
06  03 56 10.8& 18.090 N   68.070 W  104                      8  MONA PASSAGE. <MPR>. MD 3.3 (MPR).
06  04 04 56.2& 32.354 S   70.304 W   99                     10  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.1 (GUC).
06  05 07 24.7? 38.26  S  140.65  E   10 G  3.6       1.1    8  NEAR SOUTH COAST OF AUSTRALIA
06  05 10 34.5? 51.40  N  175.98  W   33 N           1.2    5  ANDREANOF ISLANDS, ALEUTIAN IS.
06  06 05 25.7?  4.69  S  149.40  E  595 *  4.3       1.2   16  BISMARCK SEA
06  06 06 30.1%  4.542 N   75.674 W   10 G           0.5    7  COLOMBIA. ML 2.3 (RSNC).
06  06 09 17.8& 46.200 N    2.800 E    2                      5  FRANCE. <LDG>. ML 1.4 (LDG).
06  06 36 22.0& 34.605 S   72.299 W   13                     13  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
06  07 09 24.2& 43.070 N    0.600 W    2                      8  PYRENEES. <STR>. ML 2.2 (STR), 2.2 (LDG).
06  07 41 41.9& 18.360 N   66.410 W   14                      4  PUERTO RICO REGION. <MPR>. MD 2.5 (MPR).
06  07 57 44.1* 10.439 S  116.673 E   33 N  4.0       0.8   10  SOUTH OF SUMBAWA, INDONESIA
06  08 24 42.3? 38.47  N  140.39  E   33 N           0.9    5  EASTERN HONSHU, JAPAN
06  08 38 05.9  28.286 S   67.719 W  133    4.3       1.1   29  LA RIOJA PROVINCE, ARGENTINA
06  09 38 48.6& 34.328 N  116.844 W    5                     29  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
06  09 44 50.7& 39.036 N   27.718 E   14                      4  TURKEY. <ISK>. MD 2.8 (ISK).
06  10 19 13.8   4.592 S  153.667 E  113 *  4.4       0.8   26  NEW IRELAND REGION, P.N.G.
06  12 21 50.5& 40.640 N   32.741 E   11                      7  TURKEY. <ISK>. MD 3.4 (ISK).
06  12 24 49.2& 45.000 N    6.600 E    2                     18  FRANCE. <LDG>. ML 2.2 (LDG).
06  12 43 44.2  47.166 N    9.557 E   10 G           1.0   29  GERMANY. ML 2.9 (VIE), 2.6 (STR), 2.6 (LDG), 2.5 (FUR), 2.4
                                                                  (FBB).
06  13 36 12.1  53.561 N  160.402 E   38 *  5.2 4.5   0.8  220  NEAR EAST COAST OF KAMCHATKA. Mw 5.2 (HRV). Felt (II) at
                                                                  Petropavlovsk-Kamchatskiy.
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  13:36:18.7; Lat 53.56 N Fix; Lon 160.40 E Fix; Dep 62.2;
                                                                  Half-duration 1.0 sec; Principal axes (scale 10**16 Nm):
                                                                  (T) Val=7.64, Plg=14, Azm=140; (N) Val=-1.63, Plg=39,
                                                                  Azm=242; (P) Val=-6.01, Plg=47, Azm=34; Best double couple:
                                                                  Mo=6.8*10**16 Nm; NP1: Strike=190, Dip=46, Slip=-151; NP2:
                                                                  Strike=80, Dip=70, Slip=-48.
06  13 36 45.9? 52.33  N  165.96  W   33 N  3.6       0.8    8  SOUTH OF ALEUTIAN ISLANDS
06  13 48 41.2&  4.452 N   75.695 W    4                      7  COLOMBIA. <RSNC>. ML 2.9 (RSNC).
06  15 22 35.2  14.403 N   91.396 W   92 D  4.3       1.0   33  GUATEMALA. MD 4.4 (SJR).
06  16 33 02.0& 40.886 N   27.982 E   14                      4  TURKEY. <ISK>. MD 2.8 (ISK).
06  16 34 53.9& 44.457 N    6.892 E    5                     18  FRANCE. <GEN>. ML 2.2 (GEN), 1.9 (LDG).
06  17 03 22.8* 47.275 N  154.110 E   33 N  4.1       0.9   13  KURIL ISLANDS
06  17 20 54.3   6.927 S  128.504 E   33 N  4.5       0.8   26  BANDA SEA
06  17 45 24.4  19.200 N  121.265 E   33 N  5.4 5.6   0.9  153  PHILIPPINE ISLANDS REGION. Mw 6.0 (GS), 6.0 (HRV).
                                                                 Moment Tensor (GS): Dep 26; Principal axes (scale 10**18
                                                                  Nm): (T) Val=0.92, Plg=70, Azm=102; (N) Val=0.37, Plg=6,
                                                                  Azm=210; (P) Val=-1.29, Plg=19, Azm=302; Best double
                                                                  couple: Mo=1.1*10**18 Nm; NP1: Strike=42, Dip=27, Slip=104;
                                                                  NP2: Strike=207, Dip=64, Slip=83.
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  17:45:27.3; Lat 19.37 N; Lon 120.94 E; Dep 36.1; Half-
                                                                  duration 2.3 sec; Principal axes (scale 10**18 Nm): (T)
                                                                  Val=0.98, Plg=74, Azm=90; (N) Val=0.02, Plg=9, Azm=212; (P)
                                                                  Val=-1.00, Plg=13, Azm=304; Best double couple:
                                                                  Mo=9.9*10**17 Nm; NP1: Strike=46, Dip=33, Slip=106; NP2:
                                                                  Strike=207, Dip=59, Slip=80.
06  18 58 15.5& 45.000 N    5.700 E    2                     10  FRANCE. <LDG>. ML 1.7 (LDG).
06  20 35 08.1& 32.932 S   72.230 W   27                     12  OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
06  20 48 12.9& 34.254 S   70.665 W  100                     10  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.7 (GUC).
06  21 00 26.8* 51.517 N   16.295 E    5 G           0.6    6  POLAND. ML 3.2 (VIE), 2.9 (WAR).
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).
                                                                 Broadband Source Parameters (GS): Dep 76; NP1: Strike=186,
                                                                  Dip=58, Slip=105; NP2: Strike=339, Dip=35, Slip=68;
                                                                  Radiated energy 1.3*10**15 Nm. Complex earthquake, with a
                                                                  small event preceding a much larger one by about 2.5
                                                                  seconds. Depth based on second event.
                                                                 Moment Tensor (GS): Dep 76; Principal axes (scale 10**19
                                                                  Nm): (T) Val=9.01, Plg=69, Azm=114; (N) Val=0.10, Plg=11,
                                                                  Azm=355; (P) Val=-9.11, Plg=18, Azm=261; Best double
                                                                  couple: Mo=9.1*10**19 Nm; NP1: Strike=334, Dip=29, Slip=67;
                                                                  NP2: Strike=180, Dip=64, Slip=102.
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  21:48:09.1; Lat 12.78 S; Lon 166.58 E; Dep 98.2; Half-
                                                                  duration 11.8 sec; Principal axes (scale 10**20 Nm): (T)
                                                                  Val=1.18, Plg=58, Azm=123; (N) Val=-0.14, Plg=24, Azm=348;
                                                                  (P) Val=-1.04, Plg=20  Azm=249; Best double couple:
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														Mo=1.1*10**20 Nm; NP1: Strike=304, Dip=33, Slip=41; NP2: Strike=178, Dip=69, Slip=116. Scalar Moment (PPT): Mo=2.2*10**20 Nm.
06	21	54	32.4%	4.470	N	75.678	W	10	G		1.1	8		COLOMBIA. ML 3.0 (RSNC).
06	22	19	03.2&	36.920	N	21.880	E	4		4.1		23		SOUTHERN GREECE. <ATH>. MD 3.7 (ATH).
06	22	28	39.6&	4.343	N	75.678	W	7				5		COLOMBIA. <RSNC>. ML 2.7 (RSNC).
06	23	17	19.7&	39.170	N	2.880	W	3				27		SPAIN. <MDD>. mbLg 3.0 (MDD).
06	23	27	00.5*	5.646	S	29.284	E	10	G	4.8	1.1	22		LAKE TANGANYIKA REGION
06	23	27	35.9?	36.21	N	140.60	E	85	?		0.4	6		NEAR EAST COAST OF HONSHU, JAPAN
06	23	29	48.6&	46.357	N	111.202	W	1				36		MONTANA. <BUT-P>. MD 3.9 (BUT). ML 3.8 (GS). Felt in the Townsend area.
06	23	44	55.0*	6.004	S	149.077	E	77	*	4.3	1.5	11		NEW BRITAIN REGION, P.N.G.
06	23	47	57.6&	33.605	S	70.529	W	103				11		CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.4 (GUC).
07	00	17	40.1&	38.110	N	1.340	W	0				4		SPAIN. <MDD>. mbLg 2.0 (MDD).
07	00	32	21.8&	40.733	N	29.189	E	10	G			5		TURKEY. <ISK>. MD 2.7 (ISK).
07	00	44	16.8	51.389	N	16.407	E	5	G		0.8	7		POLAND. ML 3.3 (VIE), 2.9 (WAR).
07	01	06	42.2&	4.990	N	75.603	W	120				11		COLOMBIA. <RSNC>.
07	01	39	27.2	46.038	N	14.257	E	10	G		0.4	7		NORTHWESTERN BALKAN REGION. ML 1.4 (LJU).
07	01	51	32.6&	34.681	S	70.223	W	0				14		CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.7 (GUC).
07	02	06	03.8&	44.419	N	7.154	E	5				4		NORTHERN ITALY. <GEN>. ML 1.6 (GEN).
07	02	34	03.2	39.202	N	2.839	W	10	G		0.7	16		SPAIN. mbLg 2.7 (MDD).
07	03	47	12.0	5.806	N	125.981	E	139	?	4.6	1.0	48		MINDANAO, PHILIPPINE ISLANDS
07	04	08	14.2&	34.688	S	70.214	W	1				13		CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.7 (GUC).
07	04	25	41.6&	35.920	N	4.480	W	15				8		STRAIT OF GIBRALTAR. <MDD>. mbLg 1.9 (MDD).
07	04	32	24.5&	63.219	N	151.355	W	16				11		CENTRAL ALASKA. <AEIC>. ML 3.5 (AEIC), 3.9 (PMR).
07	04	52	07.3*	26.642	N	142.039	E	33	N	4.8	1.2	22		BONIN ISLANDS REGION
07	05	33	20.3*	33.735	N	136.967	E	383		3.7	1.0	17		NEAR S. COAST OF WESTERN HONSHU
07	05	35	10.6&	33.943	N	116.366	W	3				5		SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
07	06	27	42.9*	58.656	S	25.324	W	33	N	4.5	0.9	23		SOUTH SANDWICH ISLANDS REGION
07	06	29	26.1*	2.096	S	124.715	E	33	N	4.4	1.5	10		CERAM SEA
07	06	49	02.3*	35.246	N	27.191	E	10	G		1.5	15		DODECANESE ISLANDS. MD 3.9 (ATH).
07	06	53	05.1?	54.15	N	162.49	W	33	N	3.0	1.0	5		ALASKA PENINSULA
07	07	21	13.8?	26.44	N	142.14	E	33	N	3.3	1.0	6		BONIN ISLANDS REGION
07	07	36	24.9&	42.442	N	19.475	E	15				8		NORTHWESTERN BALKAN REGION. <PDG>. ML 1.6 (PDG).
07	07	43	13.4&	36.587	N	121.180	W	4				14		CENTRAL CALIFORNIA. <GM-P>. MD 3.1 (GM). ML 3.1 (BRK).
07	08	23	49.9&	4.477	N	75.692	W	10				10		COLOMBIA. <RSNC>. ML 3.4 (RSNC).
07	08	30	55.4&	38.159	N	30.175	E	5				5		TURKEY. <ISK>. MD 3.2 (ISK).
07	09	14	57.8	34.226	N	132.022	E	45	*	4.1	0.7	14		WESTERN HONSHU, JAPAN. Felt (III JMA) in the epicentral area. Felt in many parts of Hiroshima and Yamaguchi Prefectures. Also felt in northern Ehime Prefecture, Shikoku.
07	09	28	02.9	46.047	N	14.787	E	10	G		0.2	6		NORTHWESTERN BALKAN REGION. ML 1.1 (LJU).
07	09	37	19.9&	32.564	S	71.788	W	21				10		NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
07	11	05	25.3&	40.813	N	28.361	E	10	G			4		TURKEY. <ISK>. MD 2.6 (ISK).
07	11	52	55.4&	38.040	N	1.500	W	0				12		SPAIN. <MDD>. mbLg 2.5 (MDD). Felt (II) at Albudeite and Mula.
07	11	53	55.3*	16.713	S	176.233	W	327	?	4.3	1.4	35		FIJI ISLANDS REGION
07	12	00	22.3*	35.843	N	43.440	E	33	N	4.1	1.2	19		IRAQ
07	12	56	50.0*	27.539	N	130.124	E	43	D	3.5	0.6	8		RYUKYU ISLANDS
07	13	13	12.6?	5.41	S	147.07	E	213	*	4.4	1.2	10		EASTERN NEW GUINEA REG., P.N.G.
07	13	18	58.6?	42.82	N	48.37	E	33	N	3.9	1.5	8		CASPIAN SEA
07	13	27	49.2*	86.212	N	77.744	E	10	G	3.7	0.9	10		NORTH OF SEVERNAYA ZEMLYA
07	13	50	22.5	1.193	N	126.212	E	33	N	4.6	0.7	24		NORTHERN MOLUCCA SEA
07	14	51	34.0&	47.840	N	7.610	E	11				35		SWITZERLAND. <FBB>. ML 2.8 (LDG), 2.5 (FBB), 2.3 (STR).
07	15	19	07.7&	39.060	N	20.880	E	5				11		GREECE-ALBANIA BORDER REGION. <ATH>. ML 3.6 (ATH).
07	16	05	22.7	19.328	S	174.118	E	52	*	5.2 4.8	1.0	76		VANUATU ISLANDS REGION. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 16:05:20.1; Lat 19.45 S; Lon 174.62 E; Dep 34.0; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.56, Plg=71, Azm=305; (N) Val=0.29, Plg=17, Azm=97; (P) Val=-5.85, Plg=8, Azm=189; Best double couple: Mo=5.7*10**16 Nm; NP1: Strike=298, Dip=40, Slip=117; NP2: Strike=85, Dip=55, Slip=70.
07	16	20	22.7*	6.155	S	130.403	E	135	*	4.3	0.8	13		BANDA SEA
07	18	29	02.3&	38.980	N	20.860	E	5				7		GREECE. <ATH>. MD 3.1 (ATH).
07	18	36	34.6&	59.418	N	152.900	W	80		3.1		7		SOUTHERN ALASKA. <AEIC>.
07	18	50	04.1	40.093	S	174.925	E	33	N		0.9	14		COOK STRAIT, NEW ZEALAND. ML 4.0 (WEL). Felt at Bulls on the North Island.
07	18	59	58.1*	12.459	S	166.633	E	120	?	4.4	1.2	34		SANTA CRUZ ISLANDS
07	20	07	40.8&	44.800	N	6.800	E	2				20		FRANCE. <LDG>. ML 2.3 (GEN), 2.2 (LDG).
07	20	19	21.7	36.165	N	69.584	E	161	*	4.4	0.9	42		HINDU KUSH REGION, AFGHANISTAN
07	20	29	09.3&	61.900	N	150.886	W	51				40		SOUTHERN ALASKA. <AEIC>. ML 3.7 (AEIC), 4.4 (PMR).
07	21	18	09.2?	6.78	S	146.81	E	113	*	4.0	0.9	6		EASTERN NEW GUINEA REG., P.N.G.
07	21	32	12.4*	23.510	S	179.967	E	589	?	4.5	0.9	25		SOUTH OF FIJI ISLANDS
07	21	37	47.9*	14.512	N	119.768	E	33	N		1.3	10		LUZON, PHILIPPINE ISLANDS
07	21	37	54.1&	36.440	N	4.520	W	85				13		STRAIT OF GIBRALTAR. <MDD>.
07	22	28	35.0	38.997	N	23.193	E	10	G	4.7	1.3	180		GREECE. ML 4.7 (ATH), 4.6 (PDG).
07	22	31	53.0&	39.010	N	23.230	E	40				9		AEGEAN SEA. <ATH>.
07	22	32	48.0&	39.090	N	23.390	E	15				7		AEGEAN SEA. <ATH>. ML 3.6 (ATH).
07	22	33	31.6&	39.090	N	23.160	E	14				8		AEGEAN SEA. <ATH>. ML 3.6 (ATH).
07	22	36	06.2*	39.059	N	23.334	E	10	G		1.4	7		AEGEAN SEA. ML 3.1 (ATH).
07	22	52	23.6&	39.020	N	23.190	E	25				12		AEGEAN SEA. <ATH>. ML 3.5 (ATH).
07	23	22	18.0&	39.040	N	23.270	E	33	N			12		AEGEAN SEA. <ATH>. ML 3.5 (ATH).
07	23	33	15.8*	15.262	N	144.776	E	33	N	3.4	1.2	8		MARIANA ISLANDS REGION
07	23	33	24.4	49.911	N	8.241	E	10	G		1.4	13		GERMANY. ML 2.5 (LDG), 1.9 (STR).
07	23	38	09.3	39.016	N	23.210	E	10	G	3.9	1.1	18		AEGEAN SEA. ML 3.9 (ATH).
07	23	39	31.7?	31.35	S	69.48	W	150	G		0.6	12		SAN JUAN PROVINCE, ARGENTINA. MD 3.8 (GUC).
08	00	12	44.3&	45.400	N	2.900	E	2				18		FRANCE. <LDG>. ML 2.4 (LDG), 2.2 (STR).
08	00	16	41.5	41.271	S	175.225	E	33	N		0.6	9		NORTH ISLAND, NEW ZEALAND. ML 3.5 (WEL).
08	00	51	01.7	38.987	N	23.308	E	33	N		1.5	17		GREECE. MD 3.6 (ATH).
08	00	57	46.3&	39.000	N	23.210	E	20				13		AEGEAN SEA. <ATH>. ML 3.7 (ATH).
08	01	43	19.3?	12.21	S	168.90	E	600	G	4.3	1.1	10		SANTA CRUZ ISLANDS REGION
08	02	26	58.9?	29.30	N	142.75	E	33	N	3.6	1.4	7		SOUTH OF HONSHU, JAPAN

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08  03 02 44.6& 43.000 N    0.200 E    2                      7  FRANCE. <LDG>. ML 2.4 (STR), 2.2 (LDG).
08  03 33 21.4& 41.918 N   19.969 E   18                     17  ALBANIA. <PDG>. MD 3.3 (ATH), 3.2 (PDG).
08  03 46 40.0% 14.749 N   52.268 E   10 G            0.9     6  EASTERN GULF OF ADEN
08  03 55 50.7& 45.400 N    2.900 E    2                      7  FRANCE. <LDG>. ML 1.7 (LDG).
08  04 08 29.3& 11.146 N   41.871 E    5                      7  ETHIOPIA. <ARO>. ML 3.9 (ARO).
08  04 23 54.4? 14.03  N   56.75  E   33 N  4.5       1.1     7  ARABIAN SEA
08  04 41 34.4* 56.164 S   27.607 W  100 G  4.5       0.5    13  SOUTH SANDWICH ISLANDS REGION
08  04 44 30.5? 31.37  S   69.43  W  100 G            0.9    13  SAN JUAN PROVINCE, ARGENTINA. MD 3.2 (GUC).
08  04 54 01.5& 11.159 N   41.869 E    5                      7  ETHIOPIA. <ARO>. ML 3.7 (ARO).
08  04 59 52.1  45.809 N    7.103 E    5 G            0.6    38  NORTHERN ITALY. ML 2.9 (LDG), 2.8 (STR), 2.5 (GEN).
08  05 01 23.3& 48.400 N    7.900 E    2                     11  FRANCE. <LDG>. ML 2.2 (LDG), 1.8 (FBB), 1.6 (STR).
08  05 10 16.2& 37.500 N   21.690 E    6                     12  SOUTHERN GREECE. <ATH>. ML 4.4 (ATH).
08  05 28 25.8& 40.558 N   30.446 E   10 G                    6  TURKEY. <ISK>. MD 2.9 (ISK).
08  06 29 45.8& 64.984 N  147.503 W   18                     21  CENTRAL ALASKA. <AEIC>. ML 2.5 (AEIC), 2.8 (PMR). Felt in
                                                                   the Fairbanks area.
08  07 42 42.8* 15.589 N   60.434 W  100 G  3.8       0.6    13  LEEWARD ISLANDS. MD 3.7 (TRN).
08  08 34 52.7* 14.801 N   88.004 W   33 N  4.7       1.1    33  HONDURAS. MD 4.6 (SJR).
08  08 51 33.4  38.442 N  143.125 E   33 N  4.8       1.1    43  OFF EAST COAST OF HONSHU, JAPAN
08  09 02 56.9  22.067 N   92.784 E   33 N  4.4       1.2    26  INDIA-BANGLADESH BORDER REGION
08  09 15 57.7& 33.780 N   35.140 E    8                     21  JORDAN - SYRIA REGION. <GII>. ML 4.1 (GII).
08  09 18 47.0*  9.326 N  127.166 E   33 N  4.4       0.9    18  PHILIPPINE ISLANDS REGION
08  09 35 53.9& 11.141 N   41.870 E    5                      7  ETHIOPIA. <ARO>. ML 3.5 (ARO).
08  09 50 36.3* 22.133 N   92.777 E   33 N  4.1       1.5    18  INDIA-BANGLADESH BORDER REGION
08  10 01 31.0* 18.508 N  145.811 E  200 G  3.8       1.2    20  MARIANA ISLANDS
08  10 39 38.4* 85.694 N   83.217 E   10 G  4.0       1.0     8  NORTH OF SEVERNAYA ZEMLYA
08  10 47 31.6   4.576 S  153.734 E  102 D  4.5       0.9    37  NEW IRELAND REGION, P.N.G.
08  12 07 16.0& 34.308 S   70.549 W  118                     12  CHILE-ARGENTINA BORDER REGION. <GUC>.
08  12 19 06.0& 32.274 S   69.856 W  147                     12  MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 3.1 (GUC).
08  12 45 25.4*  9.875 S  124.913 E  138 ?  4.1       1.4    12  TIMOR REGION, INDONESIA
08  13 22 23.7& 46.600 N    1.600 E    2                     14  FRANCE. <LDG>. ML 2.8 (STR), 2.7 (LDG).
08  13 32 10.7& 41.390 N   20.780 E   19                      9  ALBANIA. <SKO>. ML 2.8 (PDG).
08  15 08 30.3& 40.766 N   30.538 E   10 G                    4  TURKEY. <ISK>. MD 2.6 (ISK).
08  15 17 04.5& 33.842 S   70.440 W  103                     11  CHILE-ARGENTINA BORDER REGION. <GUC>.
08  15 23 36.7& 60.090 N  152.881 W  111                      4  SOUTHERN ALASKA. <AEIC>.
08  16 22 54.3   7.908 S  147.734 E   70 D  5.7       0.8   167  EASTERN NEW GUINEA REG., P.N.G. Mw 5.9 (GS), 5.9 (HRV). Felt
                                                                   at Port Moresby.
                                                                   Moment Tensor (GS): Dep 68; Principal axes (scale 10**17
                                                                    Nm): (T) Val=7.28, Plg=45, Azm=214; (N) Val=-0.06, Plg=39,
                                                                    Azm=71; (P) Val=-7.23, Plg=19, Azm=325; Best double couple:
                                                                    Mo=7.3*10**17 Nm; NP1: Strike=11, Dip=43, Slip=23; NP2:
                                                                    Strike=264, Dip=74, Slip=130.
                                                                   Centroid, Moment Tensor (HRV): Centroid origin time
                                                                    16:23:02.2; Lat 7.80 S; Lon 147.82 E; Dep 103.6; Half-
                                                                    duration 2.2 sec; Principal axes (scale 10**17 Nm): (T)
                                                                    Val=8.39, Plg=41, Azm=223; (N) Val=-0.15, Plg=47, Azm=63;
                                                                    (P) Val=-8.24, Plg=10, Azm=322; Best double couple:
                                                                    Mo=8.3*10**17 Nm; NP1: Strike=11, Dip=54, Slip=25; NP2:
                                                                    Strike=266, Dip=70, Slip=141.
08  16 54 07.7* 53.647 N  160.271 E   33 N  4.1       0.9    18  NEAR EAST COAST OF KAMCHATKA
08  17 16 53.1& 37.990 N    1.380 W    0 G                    15  SPAIN. <MDD>. mbLg 2.7 (MDD). Felt (III) in the epicentral
                                                                   area.
08  17 56 05.7* 49.575 N   94.850 E   33 N  4.1       1.4    16  RUSSIA-MONGOLIA BORDER REGION
08  18 10 06.1*  3.688 N   78.195 W   33 N  4.2       1.0    12  SOUTH OF PANAMA
08  19 02 50.5* 12.166 S  166.546 E   33 N  4.8       1.3    18  SANTA CRUZ ISLANDS
08  19 34 38.8* 31.044 N   69.660 E   33 N  3.9       0.6    10  PAKISTAN
08  19 49 17.4* 85.724 N   82.581 E   10 G  3.9       0.9     9  NORTH OF SEVERNAYA ZEMLYA
08  19 59 13.2* 15.584 N  120.035 E   33 N             1.0     8  LUZON, PHILIPPINE ISLANDS
08  20 45 57.6  19.256 S  169.443 E  269 *  4.8       1.0    98  VANUATU ISLANDS
08  21 05 24.3& 43.894 N    7.787 E    5                     26  NEAR SOUTH COAST OF FRANCE. <GEN>. ML 2.8 (GEN), 2.8 (LDG),
                                                                   2.5 (STR).
08  21 14 24.8& 44.511 N    7.168 E    5                      5  NORTHERN ITALY. <GEN>. ML 1.8 (GEN).
08  21 36 01.3* 30.610 N  131.247 E   33 N             1.1    11  KYUSHU, JAPAN
08  22 07 37.6& 46.300 N    2.600 E    2                      9  FRANCE. <LDG>. ML 2.0 (STR), 1.9 (LDG).
08  22 26 17.6*  5.242 S  151.615 E  127    4.6        0.7    16  NEW BRITAIN REGION, P.N.G.
08  22 45 07.7* 51.077 N   15.869 E    5 G            0.1     5  POLAND. ML 3.0 (WAR).
08  23 19 19.1& 38.870 N   20.550 E    5                      9  GREECE. <ATH>. MD 3.6 (ATH).
08  23 19 53.3* 31.409 S   69.507 W  150 G            0.7    11  SAN JUAN PROVINCE, ARGENTINA. MD 3.4 (GUC).
08  23 30 00.2& 42.800 N    0.400 W    2                      6  PYRENEES. <LDG>. ML 2.6 (STR), 2.3 (LDG).
08  23 44 33.5* 33.730 S  179.361 E  236 *  3.9       0.8    16  SOUTH OF KERMADEC ISLANDS
08  23 57 23.0& 47.580 N    7.590 E    2                     15  SWITZERLAND. <STR>. ML 2.0 (FBB), 2.0 (LDG), 1.7 (STR).
09  00 19 37.1  42.328 N  142.983 E   59 D  5.1       0.8   152  HOKKAIDO, JAPAN  REGION. Mw 5.1 (HRV). Felt (III JMA) in the
                                                                   Urakawa area. Felt in much of eastern and southern
                                                                   Hokkaido. Also felt (I JMA) in eastern Aomori Prefecture,
                                                                   Honshu.
                                                                   Centroid, Moment Tensor (HRV): Centroid origin time
                                                                    00:19:42.0; Lat 42.29 N; Lon 143.14 E; Dep 43.1; Half-
                                                                    duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                    Val=5.21, Plg=55, Azm=267; (N) Val=0.31, Plg=17, Azm=24;
                                                                    (P) Val=-5.53, Plg=29, Azm=124; Best double couple:
                                                                    Mo=5.4*10**16 Nm; NP1: Strike=254, Dip=22, Slip=142; NP2:
                                                                    Strike=19, Dip=77, Slip=72.
09  02 16 43.4? 10.62  N  139.34  E   33 N  4.7       1.1    15  WESTERN CAROLINE ISLANDS
09  02 32 36.3* 53.083 S   25.358 E   10 G  4.8 4.5    1.0    25  SOUTH OF AFRICA
09  02 44 21.4*  3.603 N   31.685 W   10 G  4.5       1.1    22  CENTRAL MID-ATLANTIC RIDGE
09  02 54 45.1* 32.849 N   39.640 W   10 G  3.9       1.0    12  NORTHERN MID-ATLANTIC RIDGE
09  02 57 50.5& 49.150 N    6.850 E    2                     11  GERMANY. <STR>. ML 2.1 (STR). Mining induced event in the
                                                                   Lorraine region, France.
09  04 00 51.3& 59.287 N  153.478 W  107    3.2              10  SOUTHERN ALASKA. <AEIC>.
09  04 17 37.0* 49.989 N   18.461 E   10 G            0.4     5  CZECH AND SLOVAK REPUBLICS. ML 3.1 (VIE), 2.8 (WAR).
09  04 37 25.1*  8.529 S  119.753 E  176 ?  4.1       0.9    12  FLORES REGION, INDONESIA
09  04 52 13.6& 37.690 N    3.660 W   14                     11  SPAIN. <MDD>. mbLg 1.9 (MDD).
09  06 06 47.0? 31.43  S  179.83  W  450 G  4.5       1.5    17  KERMADEC ISLANDS REGION
09  06 11 40.2* 47.907 N  153.841 E  100 G  4.2       1.3    21  KURIL ISLANDS
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09  06 50 54.2& 18.710 N   67.450 W   13                      5  MONA PASSAGE. <MPR>. MD 2.9 (MPR).
09  07 12 11.1*  4.464 S  153.429 E  117 *  4.2       0.6   15  NEW IRELAND REGION, P.N.G.
09  07 53 41.9& 36.780 N   21.480 E   25                      4  SOUTHERN GREECE. <ATH>. MD 3.1 (ATH).
09  08 14 45.4& 40.914 N   29.288 E   10 G                    4  TURKEY. <ISK>. MD 2.6 (ISK).
09  08 28 26.8  22.413 N  118.941 E   33 N  4.4       1.2   23  TAIWAN REGION
09  08 53 42.5   6.803 S  125.152 E  543    4.7       0.9   28  BANDA SEA
09  09 18 57.2& 40.870 N   20.700 E   14                     12  GREECE-ALBANIA BORDER REGION. <SKO>. ML 2.9 (PDG).
09  10 00 12.5  41.047 N   20.809 E    5 G            1.2   12  ALBANIA. MD 3.1 (ATH). ML 3.0 (PDG).
09  10 38 47.2  15.543 S  173.343 W   33 N  5.0 5.1  0.9   89  TONGA ISLANDS. Mw 5.4 (HRV).
                                                              Centroid, Moment Tensor (HRV): Centroid origin time
                                                               10:38:53.2; Lat 15.52 S; Lon 172.83 W; Dep 20.9; Half-
                                                               duration 1.3 sec; Principal axes (scale 10**17 Nm): (T)
                                                               Val=1.27, Plg=77, Azm=291; (N) Val=0.13, Plg=7, Azm=171;
                                                               (P) Val=-1.41, Plg=11, Azm=80; Best double couple:
                                                               Mo=1.3*10**17 Nm; NP1: Strike=161, Dip=34, Slip=78; NP2:
                                                               Strike=356, Dip=57, Slip=98.
09  11 14 15.8*  5.520 S  130.478 E   33 N  4.8 4.2  1.1   19  BANDA SEA
09  11 31 15.2& 39.310 N   27.981 E    5                      5  TURKEY. <ISK>. MD 2.7 (ISK).
09  11 33 29.3*  4.778 S   77.613 W   33 N  4.1       0.8   16  NORTHERN PERU
09  11 53 26.9*  4.292 S  144.846 E   33 N  4.1       0.7    7  NEAR N COAST OF NEW GUINEA, PNG.
09  11 56 13.0& 38.490 N  116.010 W    3                     13  NEVADA. <REN-P>. MD 3.2 (REN).
09  12 20 48.4? 11.59  S  166.90  E   33 N  4.3       0.7    9  SANTA CRUZ ISLANDS
09  13 41 18.6  24.393 S  179.637 W  500 G  4.5       0.9   37  SOUTH OF FIJI ISLANDS
09  13 47 15.2& 35.380 S   71.016 W   99                      9  CENTRAL CHILE. <GUC>.
09  14 04 57.0& 39.158 N   27.545 E    5                      4  TURKEY. <ISK>. MD 2.6 (ISK).
09  14 32 47.0& 40.700 N  124.960 W   14    4.0            25  NEAR COAST OF NORTHERN CALIF. <GM-P>. Mw 4.1 (BRK). ML 4.1
                                                               (GM), 4.2 (BRK).
                                                              Moment Tensor (BRK): Dep 10; Principal axes (scale 10**15
                                                               Nm): (T) Val=1.40, Plg=8, Azm=107; (N) Val=0.00, Plg=76,
                                                               Azm=345; (P) Val=-1.40, Plg=12, Azm=198; Best double
                                                               couple: Mo=1.4*10**15 Nm; NP1: Strike=333, Dip=87,
                                                               Slip=-166; NP2: Strike=242, Dip=76, Slip=-3.
09  14 33 45.5& 59.880 N  153.568 W  137    4.7           125  SOUTHERN ALASKA. <AEIC>. Felt (II) at Eagle River and Homer.
09  15 01 52.0& 38.770 N   20.630 E    6                      6  GREECE. <ATH>. MD 3.1 (ATH).
09  15 27 20.5  51.645 N  104.709 E   10 G  4.1       1.1   18  LAKE BAYKAL REGION, RUSSIA. Felt (IV) at Vydrino and (III)
                                                               at Listvyanka.
09  15 41 54.5& 11.137 N   41.888 E    5                      7  ETHIOPIA. <ARO>. ML 3.5 (ARO).
09  16 00 00.0& 35.763 S   71.586 W  132                     10  CENTRAL CHILE. <GUC>. MD 2.3 (GUC).
09  16 28 18.6& 38.810 N   20.560 E    5                     13  GREECE. <ATH>. MD 3.6 (ATH).
09  16 34 03.1? 38.85  N   20.52  E    5 G            1.5   16  GREECE. MD 3.8 (ATH).
09  16 46 38.8  45.530 N   25.695 W   10 G  4.8 4.0  1.1  114  NORTHERN MID-ATLANTIC RIDGE
09  17 33 16.6  36.384 N   70.751 E  192 D  5.1       0.8  206  HINDU KUSH REGION, AFGHANISTAN. Mw 5.3 (HRV).
                                                              Centroid, Moment Tensor (HRV): Centroid origin time
                                                               17:33:12.6; Lat 35.80 N; Lon 70.10 E; Dep 201.7; Half-
                                                               duration 1.2 sec; Principal axes (scale 10**17 Nm): (T)
                                                               Val=1.14, Plg=54, Azm=302; (N) Val=-0.19, Plg=18, Azm=185;
                                                               (P) Val=-0.95, Plg=30, Azm=83; Best double couple:
                                                               Mo=1.0*10**17 Nm; NP1: Strike=131, Dip=23, Slip=34; NP2:
                                                               Strike=9, Dip=78, Slip=109.
09  17 51 04.5& 38.360 N   21.860 E    5                      5  GREECE. <ATH>. MD 2.8 (ATH).
09  18 38 57.5& 38.640 N   20.840 E    8                      5  GREECE. <ATH>. MD 3.0 (ATH).
09  19 19 41.9  55.183 N  162.163 E   49 *  4.7 4.1  0.9   42  NEAR EAST COAST OF KAMCHATKA
09  19 41 51.0& 36.240 N   21.570 E    5                      7  SOUTHERN GREECE. <ATH>. ML 3.6 (ATH).
09  19 48 35.4* 16.332 S  167.218 E   33 N  3.9       0.5    8  VANUATU ISLANDS
09  19 58 37.6& 32.628 S   71.733 W   26                     12  NEAR COAST OF CENTRAL CHILE. <GUC>.
09  20 10 05.5& 63.148 N  151.375 W   12                      7  CENTRAL ALASKA. <AEIC>. ML 2.7 (AEIC), 2.8 (PMR).
09  20 10 14.7& 32.609 S   71.089 W    6                      6  NEAR COAST OF CENTRAL CHILE. <GUC>.
09  21 23 05.3& 35.439 S   71.529 W  106                     14  CENTRAL CHILE. <GUC>. MD 4.3 (GUC). Felt (V) at Los Quenes;
                                                               (IV) at Curico, Linares, Retiro and Talca; (III) at
                                                               Constitucion, Hualane and Licanten.
09  21 40 53.6& 34.736 S   71.111 W   72                      8  NEAR COAST OF CENTRAL CHILE. <GUC>.
09  23 07 40.7& 31.829 S   71.950 W   30                     11  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.1 (GUC).
09  23 23 35.3& 44.125 N    7.150 E   11                      5  NORTHERN ITALY. <GEN>. ML 1.9 (GEN).
09  23 57 23.1* 25.853 S   69.601 E   10 G  4.8       0.7   17  SOUTH INDIAN OCEAN
10  00 00 20.4* 19.848 N  145.944 E  100 G  4.1       0.9   22  MARIANA ISLANDS
10  00 43 53.3& 34.215 S   70.964 W   77                     10  CHILE-ARGENTINA BORDER REGION. <GUC>.
10  01 25 30.6& 18.540 N   65.620 W   95                      7  PUERTO RICO REGION. <MPR>. MD 3.1 (MPR).
10  02 05 01.1& 63.135 N  150.628 W  123                      8  CENTRAL ALASKA. <AEIC>.
10  02 14 09.5  32.565 S  179.930 W  200 G  4.5       0.9   28  SOUTH OF KERMADEC ISLANDS
10  02 21 15.2& 18.330 N   67.220 W   18                      4  MONA PASSAGE. <MPR>. MD 2.4 (MPR).
10  02 30 11.2* 51.460 N  158.398 E   46 D            0.8    8  NEAR EAST COAST OF KAMCHATKA
10  02 48 33.4  39.531 N   28.109 E   10 G            0.4   13  TURKEY. MD 3.5 (ATH), 3.2 (ISK).
10  02 52 07.0& 63.011 N  150.617 W  116    2.8            13  CENTRAL ALASKA. <AEIC>.
10  04 27 28.6? 43.49  N   12.92  E   10 G            1.4   13  CENTRAL ITALY. ML 3.2 (LDG).
10  04 32 04.5  12.785 S  166.810 E   77 D  5.2       0.9   68  SANTA CRUZ ISLANDS. Mw 5.3 (HRV).
                                                              Centroid, Moment Tensor (HRV): Centroid origin time
                                                               04:32:09.0; Lat 12.82 S; Lon 166.48 E; Dep 82.4; Half-
                                                               duration 1.1 sec; Principal axes (scale 10**16 Nm): (T)
                                                               Val=8.59, Plg=63, Azm=77; (N) Val=0.34, Plg=23, Azm=222;
                                                               (P) Val=-8.93, Plg=14, Azm=318; Best double couple:
                                                               Mo=8.8*10**16 Nm; NP1: Strike=76, Dip=37, Slip=130; NP2:
                                                               Strike=210, Dip=63, Slip=64.
10  05 09 46.6  36.551 N  113.518 W    5 G            0.9   14  WESTERN ARIZONA. ML 3.1 (GS).
10  05 51 50.7  32.968 N   15.107 E   10 G  4.5       1.2   78  NEAR COAST OF LIBYA
10  06 25 01.9& 31.977 N  115.100 W    6 G                  19  BAJA CALIFORNIA, MEXICO. <PAS-P>. ML 3.3 (PAS). MD 3.3 (ECX).
10  07 10 26.5? 17.80  N  146.19  E   33 N  3.9       0.6    6  MARIANA ISLANDS
10  08 00 25.2& 34.006 S   72.325 W   31                      9  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
10  08 02 44.3& 38.740 N   20.730 E    5                      6  GREECE. <ATH>. MD 3.0 (ATH).
10  08 05 30.2  51.696 N  104.961 E   10 G  4.6       1.1   39  LAKE BAYKAL REGION, RUSSIA. Felt (IV) at Irkutsk, Listvyanka
                                                               and Vydrino, (III) at Ulan-Ude and (II) at Tyrgana.
10  08 07 00.6% 51.565 N  104.806 E   10 G            0.7   10  LAKE BAYKAL REGION, RUSSIA
10  08 25 17.2   7.592 N   74.904 W   33 N  3.9       1.2   23  NORTHERN COLOMBIA. ML 4.6 (RSNC). Felt at Medellin.
10  08 28 43.0  51.779 N  105.165 E   10 G  4.4       1.2   17  LAKE BAYKAL REGION, RUSSIA. Felt (III) at Irkutsk and (II)
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at Tyrgana.

10	08	30	49.2*	30.277	S	178.469	W	200	G	4.4		1.2	28
10	08	37	10.7&	31.669	S	71.113	W	81					14
10	09	22	35.3	21.706	S	178.842	W	549	D	5.1		0.8	120
10	09	45	14.3	27.765	S	71.279	W	33	N	4.2		1.1	27
10	10	04	55.8	36.530	N	70.977	E	243	*	3.9		0.8	19
10	10	53	44.6*	38.980	N	8.984	W	10	G			1.0	16
10	11	03	41.4	37.032	N	13.619	W	10	G	4.6		1.2	96
10	11	18	14.4	51.682	N	105.046	E	10	G	4.5		1.1	31
10	11	38	03.6*	31.152	N	139.851	E	33	N	4.3		0.9	8
10	12	01	12.0*	35.331	N	26.305	E	10	G			1.2	7
10	12	02	13.2	34.881	N	26.363	E	53	*			1.0	20
10	12	17	21.7*	29.144	N	142.331	E	33	N			0.7	8
10	12	30	28.2*	36.948	N	69.155	E	33	N	4.1		1.4	11
10	12	34	02.9&	31.583	S	70.078	W	113					12
10	13	09	32.8&	43.666	N	7.618	E	12					19
10	13	14	55.2	55.208	N	113.388	E	10	G	4.5		0.9	25
10	13	31	29.1	37.454	N	7.863	W	10	G			0.6	18
10	14	34	25.1	9.558	S	117.297	E	33	N	4.0		0.7	10
10	14	49	02.8?	33.05	N	15.25	E	10	G	3.8		0.9	10
10	16	43	26.0&	38.910	N	23.540	E	5					5
10	17	07	57.6?	21.97	S	68.52	W	100	G	4.1		0.4	9
10	17	35	11.3*	8.386	N	93.022	E	54	D	4.3		1.1	19
10	17	46	10.5&	38.780	N	21.550	E	5					6
10	17	51	40.4*	27.727	N	51.969	E	10	G	3.7		0.4	11
10	17	56	40.9?	23.76	S	179.70	E	600	G	4.5		0.6	17
10	18	04	26.4*	23.983	S	179.007	E	600	G	4.3		0.7	20
10	19	35	38.1	5.300	S	145.636	E	86		4.3		0.8	25
10	20	38	32.8	85.612	N	85.072	E	10	G	4.3	3.7	1.1	18
10	22	19	00.3&	60.160	N	153.119	W	150		2.8			10
10	22	35	07.4&	47.700	N	2.800	W	2					7
10	22	38	41.6	2.815	S	139.321	E	33	N	4.5		0.8	14
10	23	26	44.7*	5.292	S	151.497	E	65	*	4.5		0.9	13
11	00	14	02.4*	51.744	N	104.958	E	10	G	4.2		1.3	13
11	00	48	21.3*	14.399	N	51.505	E	10	G	4.7	3.7	1.3	26
11	00	56	12.4&	41.300	N	24.350	E	35					6
11	00	56	36.1?	17.05	S	65.55	W	33	N	3.9		0.4	7
11	01	22	44.2?	30.39	S	179.07	W	218	D	4.4		1.2	15
11	01	28	47.8&	37.540	N	21.780	E	5					9
11	03	02	42.3?	21.67	N	108.14	W	10	G	4.3		1.1	13
11	04	04	58.9&	42.900	N	6.000	E	10					4
11	04	30	21.8&	34.059	S	70.370	W	9					10
11	04	58	20.6&	33.831	S	72.063	W	8					11
11	05	01	18.5&	38.830	N	20.630	E	5					10
11	05	10	03.4&	33.825	S	72.115	W	30					9
11	05	17	47.6?	7.75	S	121.56	E	213	*	4.3		1.1	10
11	05	43	38.8&	37.050	N	3.680	W	0	G				35
11	05	51	21.3&	31.770	S	71.892	W	26					10
11	05	55	57.7&	31.811	S	71.951	W	26					15
11	06	01	15.5*	22.378	N	93.074	E	64	?	4.0		1.1	14
11	06	15	05.9&	33.804	S	70.222	W	110					11
11	06	37	36.1	35.634	N	111.575	W	5	G			0.6	7
11	06	53	41.9	38.896	N	20.492	E	10	G	3.9		1.3	23
11	07	15	56.8&	35.452	S	72.005	W	40					13
11	07	39	42.6*	49.979	N	19.041	E	5	G			1.2	5
11	07	42	30.5&	38.900	N	20.670	E	5					4
11	07	52	37.0*	86.178	N	75.540	E	10	G	4.4		1.4	15
11	08	04	15.0	32.981	N	15.177	E	10	G	4.1		1.4	30
11	09	26	08.5&	37.630	N	20.800	E	34					4
11	09	58	23.2*	12.481	S	166.497	E	33	N	4.5		0.9	9
11	10	03	33.9*	18.340	S	177.340	W	500	G	4.0		0.8	11
11	10	10	10.0&	4.515	N	75.706	W	2					10
11	11	16	02.6&	38.880	N	20.640	E	5					9
11	11	56	42.9&	46.355	N	111.221	W	3					20
11	12	14	23.5*	85.858	N	76.687	E	10	G	4.6		1.5	11
11	12	57	01.5*	23.184	S	170.191	E	33	N	4.8		1.4	39
11	12	59	15.7*	2.930	S	127.700	E	33	N			1.1	6
11	13	08	58.1&	38.850	N	20.880	E	7					7
11	13	27	06.9	8.575	S	120.479	E	124	D	5.0		1.2	58
11	14	08	51.6	34.259	N	69.364	E	33	N	5.4	5.8	1.3	124

KERMADEC ISLANDS, NEW ZEALAND. Felt on Raoul.

NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).

FIJI ISLANDS REGION. Mw 5.2 (HRV).
Centroid, Moment Tensor (HRV): Centroid origin time 09:22:45.3; Lat 21.35 S; Lon 179.47 W; Dep 572.0; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.70, Plg=14, Azm=156; (N) Val=1.40, Plg=8, Azm=64; (P) Val=-8.11, Plg=74, Azm=306; Best double couple: Mo=7.4*10**16 Nm; NP1: Strike=257, Dip=31, Slip=-75; NP2: Strike=59, Dip=60, Slip=-99.

NEAR COAST OF NORTHERN CHILE. Felt (IV) at Copiapo and Tierra Amarilla; (II) at Los Loros.

HINDU KUSH REGION, AFGHANISTAN

PORTUGAL. mbLg 2.7 (MDD).

NORTH ATLANTIC OCEAN. mbLg 4.0 (MDD).

LAKE BAYKAL REGION, RUSSIA. Felt (IV) at Irkutsk and Listvyanka; (III) at Tyrgana and Ulan-Ude; (II) at Zakamensk.

SOUTH OF HONSHU, JAPAN

CRETE. MD 3.5 (ATH).

CRETE. MD 3.9 (ATH).

SOUTH OF HONSHU, JAPAN

HINDU KUSH REGION, AFGHANISTAN

CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.8 (GUC).

NEAR SOUTH COAST OF FRANCE. <GEN>. ML 2.6 (GEN), 2.5 (STR).

EAST OF LAKE BAYKAL, RUSSIA. Felt (II) at Bodaybo and Uakit.

PORTUGAL. mbLg 3.1 (MDD).

SUMBAWA REGION, INDONESIA

CENTRAL MEDITERRANEAN SEA

GREECE. <ATH>. MD 2.9 (ATH).

CHILE-BOLIVIA BORDER REGION

NICOBAR ISLANDS, INDIA

GREECE. <ATH>. MD 3.0 (ATH).

PERSIAN GULF

SOUTH OF FIJI ISLANDS

SOUTH OF FIJI ISLANDS

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

NORTH OF SEVERNAYA ZEMLYA

SOUTHERN ALASKA. <AEIC>.

FRANCE. <LDG>. ML 1.9 (LDG).

NEAR NORTH COAST OF IRIAN JAYA

NEW BRITAIN REGION, P.N.G.

LAKE BAYKAL REGION, RUSSIA

EASTERN GULF OF ADEN

GREECE-BULGARIA BORDER REGION. <ATH>. MD 3.2 (ATH).

CENTRAL BOLIVIA

KERMADEC ISLANDS REGION

SOUTHERN GREECE. <ATH>. MD 3.3 (ATH).

REVILLA GIGEDO ISLANDS REGION

WESTERN MEDITERRANEAN SEA. <LDG>. ML 2.2 (LDG).

CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.7 (GUC).

OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).

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

OFF COAST OF CENTRAL CHILE. <GUC>.

FLORES SEA

SPAIN. <MDD>. mbLg 3.2 (MDD). Felt (III) at Durcal and Padul; (II) at Granada.

NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).

NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.1 (GUC).

MYANMAR-INDIA BORDER REGION

CHILE-ARGENTINA BORDER REGION. <GUC>.

EASTERN ARIZONA. ML 2.9 (GS).

GREECE. ML 3.8 (ATH), 3.8 (PDG).

NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).

POLAND. ML 3.1 (WAR), 3.0 (VIE).

GREECE. <ATH>. MD 3.0 (ATH).

NORTH OF SEVERNAYA ZEMLYA

NEAR COAST OF LIBYA

IONIAN SEA. <ATH>.

SANTA CRUZ ISLANDS

FIJI ISLANDS REGION

COLOMBIA. <RSNC>. ML 3.2 (RSNC).

GREECE. <ATH>. MD 3.1 (ATH).

MONTANA. <BUT-P>. ML 3.3 (BUT). Felt in the area 15 kilometers northwest of Townsend.

NORTH OF SEVERNAYA ZEMLYA

LOYALTY ISLANDS REGION

CERAM SEA

GREECE. <ATH>. MD 3.1 (ATH).

FLORES REGION, INDONESIA. Mw 5.2 (HRV). Felt (III) at Waingapu, Sumba.
Centroid, Moment Tensor (HRV): Centroid origin time 13:27:08.7; Lat 8.57 S Fix; Lon 120.48 E Fix; Dep 116.3; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=8.10, Plg=44, Azm=191; (N) Val=-2.10, Plg=41, Azm=336; (P) Val=-6.00, Plg=18, Azm=83; Best double couple: Mo=7.1*10**16 Nm; NP1: Strike=216, Dip=45, Slip=158; NP2: Strike=322, Dip=74, Slip=47.

AFGHANISTAN. Mw 6.0 (HRV), 5.9 (GS). 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.

													Moment Tensor (GS): Dep 15; Principal axes (scale 10**17 Nm): (T) Val=9.07, Plg=12, Azm=56; (N) Val=-0.16, Plg=72, Azm=284; (P) Val=-8.91, Plg=13, Azm=149; Best double couple: Mo=9.0*10**17 Nm; NP1: Strike=192, Dip=72, Slip=-1; NP2: Strike=283, Dip=89, Slip=-162. Centroid, Moment Tensor (HRV): Centroid origin time 14:08:56.9; Lat 34.26 N; Lon 68.77 E; Dep 33.0 Fix; Half-duration 2.6 sec; Principal axes (scale 10**18 Nm): (T) Val=1.25, Plg=13, Azm=58; (N) Val=0.03, Plg=66, Azm=296; (P) Val=-1.29, Plg=20, Azm=153; Best double couple: Mo=1.3*10**18 Nm; NP1: Strike=194, Dip=66, Slip=-5; NP2: Strike=286, Dip=85, Slip=-156.
11	15	16	46.3	6.975	S	150.404	E	33	N	5.5 5.2	0.9	133	NEW BRITAIN REGION, P.N.G. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 15:16:50.9; Lat 7.21 S; Lon 150.78 E; Dep 15.0 Fix; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.42, Plg=7, Azm=342; (N) Val=-0.42, Plg=29, Azm=76; (P) Val=-2.00, Plg=60, Azm=239; Best double couple: Mo=2.2*10**17 Nm; NP1: Strike=43, Dip=45, Slip=-132; NP2: Strike=275, Dip=58, Slip=-56.
11	15	41	48.2&	62.949	N	150.411	W	109				78	CENTRAL ALASKA. <AEIC>.
11	15	55	44.9?	25.38	S	179.45	E	532 ?		4.7	0.8	19	SOUTH OF FIJI ISLANDS
11	16	02	42.9&	33.097	S	72.268	W	35				10	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
11	16	22	30.1*	0.666	N	125.991	E	74 ?		4.3	1.4	16	NORTHERN MOLUCCA SEA
11	17	05	36.6&	60.129	N	152.303	W	68		2.7		72	SOUTHERN ALASKA. <AEIC>. ML 3.0 (AEIC).
11	17	44	25.8&	42.606	N	19.042	E	13				9	NORTHWESTERN BALKAN REGION. <PDG>. ML 1.8 (PDG).
11	17	46	29.6&	38.830	N	20.500	E	5				10	GREECE. <ATH>. MD 3.5 (ATH).
11	18	04	54.0&	38.820	N	20.530	E	5				7	GREECE. <ATH>. MD 3.2 (ATH).
11	18	16	46.9	34.823	N	135.634	E	33	N	3.8	1.1	16	NEAR S. COAST OF WESTERN HONSHU. Felt (IV JMA) in the epicentral area. Felt in parts of Fukui, Hyogo, Kyoto, Mie, Nara, Osaka and Shiga Prefectures. Also felt in northern Kagawa Prefecture, Shikoku.
11	18	25	08.9	8.876	S	157.734	E	33	N	4.9 4.8	1.0	35	SOLOMON ISLANDS. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 18:25:08.8; Lat 8.94 S; Lon 157.90 E; Dep 27.6; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.03, Plg=69, Azm=23; (N) Val=0.10, Plg=8, Azm=133; (P) Val=-1.13, Plg=19, Azm=226; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=329, Dip=27, Slip=107; NP2: Strike=130, Dip=65, Slip=82.
11	18	36	28.2?	8.70	S	157.52	E	33	N	3.5	1.4	6	SOLOMON ISLANDS
11	19	06	07.7&	38.700	N	21.640	E	5				6	GREECE. <ATH>. MD 3.0 (ATH).
11	19	49	12.3&	38.850	N	20.600	E	5				6	GREECE. <ATH>. MD 3.1 (ATH).
11	20	27	46.4*	21.624	N	143.186	E	246 ?		3.8	1.3	15	MARIANA ISLANDS REGION
11	20	29	45.6&	38.810	N	20.660	E	5				5	GREECE. <ATH>. MD 2.9 (ATH).
11	20	36	08.1&	46.000	N	3.000	E	2				6	FRANCE. <LDG>. ML 1.6 (LDG).
11	21	03	02.7&	38.280	N	20.230	E	24				7	GREECE. <ATH>. MD 3.1 (ATH).
11	21	14	53.8	8.993	S	157.592	E	87	D	4.7	1.1	43	SOLOMON ISLANDS
11	21	25	46.1*	8.902	S	157.654	E	33	N	4.4	1.2	13	SOLOMON ISLANDS
11	21	40	49.6*	43.540	N	12.979	E	10	G		0.8	12	CENTRAL ITALY. ML 2.9 (LDG).
11	22	03	50.4&	59.224	N	151.503	W	13				44	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.5 (AEIC), 2.8 (PMR).
11	22	42	43.5&	37.520	N	118.785	W	7				8	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.9 (GM).
11	23	02	09.5&	32.343	S	71.439	W	41				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.2 (GUC). Felt (II) at Papudo.
11	23	10	04.1*	12.526	N	122.913	E	33	N	4.2	1.4	12	LUZON, PHILIPPINE ISLANDS
11	23	30	05.2*	8.281	S	158.839	E	33	N	4.6	1.2	20	SOLOMON ISLANDS
11	23	34	07.7*	7.349	S	154.071	E	33	N	4.4	0.6	11	SOLOMON ISLANDS
12	00	06	47.8&	38.670	N	20.830	E	10				5	GREECE. <ATH>. MD 3.0 (ATH).
12	00	06	48.7&	35.025	S	71.078	W	103				11	CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
12	00	55	51.9?	8.61	S	157.41	E	33	N		0.6	6	SOLOMON ISLANDS
12	01	17	11.8*	21.651	N	143.175	E	357 ?		4.1	0.9	17	MARIANA ISLANDS REGION
12	01	17	41.6*	8.726	S	157.428	E	33	N	4.3	1.1	10	SOLOMON ISLANDS
12	01	20	59.4%	4.155	N	73.837	W	10	G		0.6	7	COLOMBIA. ML 3.7 (RSNC).
12	02	01	03.0&	42.421	N	19.778	E	11				9	NORTHWESTERN BALKAN REGION. <PDG>. ML 1.8 (PDG).
12	02	05	07.2&	36.577	N	121.174	W	8				14	CENTRAL CALIFORNIA. <GM-P>. MD 3.5 (GM). ML 3.4 (BRK).
12	02	20	04.3&	34.089	N	117.443	W	4				6	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.6 (PAS). Felt in the Fontana area.
12	02	39	01.0?	32.56	S	179.17	W	150	G	4.1	0.5	10	SOUTH OF KERMADEC ISLANDS
12	02	58	05.6*	34.888	S	68.839	W	5	G		1.0	10	MENDOZA PROVINCE, ARGENTINA. MD 3.9 (GUC).
12	03	37	07.6&	46.200	N	2.800	E	2				6	FRANCE. <LDG>. ML 1.6 (LDG).
12	04	40	26.8&	37.220	N	4.160	W	0	G			7	SPAIN. <MDD>. mbLg 1.8 (MDD).
12	04	48	58.8&	45.600	N	7.500	E	2				5	NORTHERN ITALY. <LDG>. ML 1.8 (LDG).
12	05	42	32.1&	32.410	S	71.789	W	24				10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
12	06	00	13.7?	54.42	S	136.12	W	10	G	4.6	0.8	9	PACIFIC-ANTARCTIC RIDGE
12	06	00	48.0%	85.586	N	83.111	E	10	G		0.6	5	NORTH OF SEVERNAYA ZEMLYA
12	06	08	26.7?	61.83	S	161.59	E	10	G	4.4	1.5	12	BALLENY ISLANDS REGION
12	06	47	12.6*	19.196	S	169.370	E	256		4.2	0.9	17	VANUATU ISLANDS
12	06	54	24.8*	13.026	S	166.413	E	100	G	4.7	0.7	15	VANUATU ISLANDS
12	09	05	04.8&	35.737	S	70.896	W	200				10	CHILE-ARGENTINA BORDER REGION. <GUC>.
12	09	26	32.7*	20.709	S	174.216	W	33	N	4.8 4.4	1.0	25	TONGA ISLANDS
12	09	48	10.9*	28.611	N	129.412	E	95 *		3.8	0.9	14	RYUKYU ISLANDS. Felt (II JMA) on Amami-O-shima and (I JMA) on Kikai-jima.
12	10	46	50.2&	42.982	N	17.870	E	9				9	ADRIATIC SEA. <PDG>. ML 2.4 (PDG).
12	10	59	23.4	6.753	N	73.055	W	161	D	4.4	0.9	47	NORTHERN COLOMBIA
12	11	08	15.2?	7.05	S	130.24	E	100	G	4.2	0.8	9	TANIMBAR ISLANDS REG., INDONESIA
12	11	10	55.3	32.683	S	69.950	W	127 ?			0.9	18	MENDOZA PROVINCE, ARGENTINA. MD 4.4 (GUC).
12	11	32	27.1*	11.689	S	118.723	E	33	N	3.5	1.2	5	SOUTH OF SUMBAWA, INDONESIA
12	12	11	32.8	51.497	N	173.790	W	33	N	4.8 4.6	1.0	145	ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.0 (PMR).
12	12	14	03.3	51.586	N	173.777	W	33	N	4.7	0.9	105	ANDREANOF ISLANDS, ALEUTIAN IS.
12	12	56	37.2&	32.023	S	69.985	W	117				11	MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 3.3 (GUC).
12	13	47	50.0*	21.398	S	174.370	W	33	N	5.1 4.5	1.0	43	TONGA ISLANDS
12	14	15	22.8&	61.450	N	152.120	W	93				59	SOUTHERN ALASKA. <AEIC>.
12	14	36	51.8&	4.478	N	75.678	W	5				5	COLOMBIA. <RSNC>. ML 1.9 (RSNC).

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12  14 38 43.1&  4.387 N   75.640 W    1                    5  COLOMBIA. <RSNC>. ML 2.1 (RSNC).
12  14 43 18.1& 36.908 N   35.546 E   10 G                 15  TURKEY. <ISK>. MD 3.8 (ISK).
12  15 04 15.9& 47.660 N    7.810 E    2                    4  SWITZERLAND. <STR>. ML 1.2 (STR).
12  16 02 59.5* 12.857 S  166.605 E  100 G  4.9       0.9   15  SANTA CRUZ ISLANDS
12  16 19 17.5& 32.581 S   70.888 W   78                   12  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.0 (GUC).
12  17 44 48.5  44.474 N  149.678 E   33 N  5.6 5.3  0.8  270  KURIL ISLANDS. Mw 5.6 (HRV).
                                                              Centroid, Moment Tensor (HRV): Centroid origin time
                                                               17:44:51.4; Lat 44.53 N; Lon 150.15 E; Dep 29.0; Half-
                                                               duration 1.7 sec; Principal axes (scale 10**17 Nm): (T)
                                                               Val=3.11, Plg=74, Azm=281; (N) Val=0.35, Plg=7, Azm=38; (P)
                                                               Val=-3.46, Plg=14, Azm=130; Best double couple:
                                                               Mo=3.3*10**17 Nm; NP1: Strike=230, Dip=32, Slip=104; NP2:
                                                               Strike=34, Dip=59, Slip=82.
12  18 34 33.7* 44.665 N  149.506 E   33 N  4.7       1.0   45  KURIL ISLANDS
12  20 05 48.6* 44.758 N  149.467 E   33 N  3.5       1.2   10  KURIL ISLANDS
12  21 01 31.1? 55.83  N  157.72  W   69 *  4.6       1.3   11  ALASKA PENINSULA
12  21 03 38.7& 34.955 S   71.131 W  101                    9  NEAR COAST OF CENTRAL CHILE. <GUC>.
12  21 28 37.0? 20.81  N  109.44  W   10 G  3.7       1.2   12  REVILLA GIGEDO ISLANDS REGION
12  21 39 57.0& 34.407 N   32.108 E   18                    7  CYPRUS REGION. <CSS>. ML 3.2 (CSS).
12  21 53 03.4  46.068 N   14.775 E   10 G            0.2    7  NORTHWESTERN BALKAN REGION. ML 1.9 (VIE), 1.3 (LJU).
12  22 18 21.0& 43.240 N    1.390 W   13                   10  PYRENEES. <MDD>. mbLg 2.8 (MDD). ML 2.3 (STR), 2.1 (LDG).
12  22 26 30.2* 44.599 N  149.639 E   33 N  4.3       1.2   14  KURIL ISLANDS
12  23 44 17.8*  4.451 N   94.815 E  133 ?  4.0       1.3   14  OFF W COAST OF NORTHERN SUMATERA
13  00 11 05.4*  6.344 S  127.672 E  400 *  4.1       1.1   17  BANDA SEA
13  00 59 10.8? 22.90  S  179.26  W  450 G  4.3       0.9   10  SOUTH OF FIJI ISLANDS
13  01 30 57.2*  6.590 S  103.706 E   33 N            1.1    9  SOUTHWEST OF SUMATERA, INDONESIA
13  01 48 15.9?  2.42  S  140.16  E   10 G  3.6       0.7    7  NEAR NORTH COAST OF IRIAN JAYA
13  02 29 35.2& 47.860 N    7.620 E    5                    7  SWITZERLAND. <STR>. ML 1.6 (LDG), 1.3 (STR).
13  02 51 44.3& 47.850 N    7.610 E    3                    8  SWITZERLAND. <STR>. ML 1.8 (LDG), 1.2 (STR).
13  02 55 39.2& 47.840 N    7.640 E    2 G                  7  SWITZERLAND. <STR>. ML 1.9 (LDG).
13  03 07 38.0& 47.860 N    7.610 E    5                    8  SWITZERLAND. <STR>. ML 1.7 (LDG), 1.1 (STR).
13  03 13 09.0& 37.540 N    3.960 W   25                    7  SPAIN. <MDD>. mbLg 1.7 (MDD).
13  03 28 37.3& 39.562 N   21.616 E    9                   12  GREECE. <PDG>. ML 3.4 (PDG).
13  03 54 31.4* 37.489 N  142.333 E   33 N  3.6       0.6   10  OFF EAST COAST OF HONSHU, JAPAN
13  04 02 35.9? 24.01  S  179.92  E  500 G  4.3       1.0   21  SOUTH OF FIJI ISLANDS
13  04 14 26.2? 15.48  S  173.69  W  103 D  4.1       0.7   13  TONGA ISLANDS
13  04 22 36.0& 32.082 S   71.501 W   30                    7  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
13  04 35 29.9& 33.381 S   70.164 W    7                    8  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.2 (GUC).
13  04 45 28.5& 34.070 S   70.361 W   10                   11  CHILE-ARGENTINA BORDER REGION. <GUC>.
13  05 07 17.9* 54.654 N  162.610 W   33 N            1.0    7  ALASKA PENINSULA
13  05 28 29.7& 16.069 N   61.124 W   22                    6  LEEWARD ISLANDS. <FDF>. MD 2.0 (FDF).
13  06 08 43.1& 40.410 N    3.100 W    3                   15  SPAIN. <MDD>. mbLg 2.7 (MDD).
13  06 12 51.7& 40.380 N    3.070 W    1                    5  SPAIN. <MDD>. mbLg 1.7 (MDD).
13  06 38 44.8* 51.147 N  177.377 W   33 N  4.3       1.2   34  ANDREANOF ISLANDS, ALEUTIAN IS.
13  06 54 46.1*  6.282 S  103.985 E   33 N  4.5       0.9   15  SOUTHWEST OF SUMATERA, INDONESIA
13  07 09 37.8& 58.890 N  151.160 W   34                   11  KODIAK ISLAND REGION. <AEIC>. ML 2.7 (AEIC).
13  07 33 44.6* 48.963 N  151.769 E  231 ?  3.5       1.0   14  KURIL ISLANDS
13  07 39 31.6& 33.050 S   70.297 W  102                   10  CHILE-ARGENTINA BORDER REGION. <GUC>.
13  07 48 13.0* 71.387 N    9.269 W   10 G  3.3       1.4    9  JAN MAYEN ISLAND REGION
13  08 17 55.3  12.484 S  166.687 E   90 D  5.1       1.0   89  SANTA CRUZ ISLANDS. Mw 5.1 (HRV).
                                                              Centroid, Moment Tensor (HRV): Centroid origin time
                                                               08:17:59.0; Lat 12.54 S; Lon 166.33 E; Dep 90.4; Half-
                                                               duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                               Val=5.16, Plg=68, Azm=120; (N) Val=-0.74, Plg=11, Azm=1;
                                                               (P) Val=-4.41, Plg=19, Azm=267; Best double couple:
                                                               Mo=4.8*10**16 Nm; NP1: Strike=339, Dip=28, Slip=66; NP2:
                                                               Strike=186, Dip=65, Slip=102.
13  08 57 42.9?  5.09  S  154.05  E  107 ?  4.3       1.1    9  SOLOMON ISLANDS
13  09 31 36.2   4.094 S  134.906 E   33 N  4.8 4.3  1.2   37  IRIAN JAYA REGION, INDONESIA
13  09 42 35.4*  4.882 S  153.750 E  113 ?  4.7       1.0   14  NEW IRELAND REGION, P.N.G.
13  09 56 06.3* 33.212 N   60.027 E   33 N  4.2       0.9   19  NORTHERN IRAN
13  10 02 42.5& 33.450 S   71.877 W   40                   13  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).
13  10 22 29.4& 32.643 S   71.372 W   45                   15  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.1 (GUC).
13  11 01 46.3& 45.100 N    7.300 E    2                    4  NORTHERN ITALY. <LDG>. ML 1.7 (LDG).
13  11 54 00.4  63.079 N  150.990 W  132 *  2.7       0.7   10  CENTRAL ALASKA
13  12 31 18.7* 32.938 N   15.192 E   10 G  3.9       1.0   25  NEAR COAST OF LIBYA
13  14 45 12.7   3.558 S  144.830 E   10 G  5.6 6.3  1.2   86  NEAR N COAST OF NEW GUINEA, PNG. Mw 6.2 (HRV), 6.1 (GS).
                                                              Moment Tensor (GS): Dep 6; Principal axes (scale 10**18 Nm):
                                                               (T) Val=1.55, Plg=22, Azm=312; (N) Val=0.01, Plg=68,
                                                               Azm=130; (P) Val=-1.55, Plg=1, Azm=221; Best double couple:
                                                               Mo=1.5*10**18 Nm; NP1: Strike=354, Dip=74, Slip=164; NP2:
                                                               Strike=89, Dip=75, Slip=17.
                                                              Centroid, Moment Tensor (HRV): Centroid origin time
                                                               14:45:18.8; Lat 3.51 S; Lon 145.01 E; Dep 15.0 Bdy; Half-
                                                               duration 3.2 sec; Principal axes (scale 10**18 Nm): (T)
                                                               Val=2.54, Plg=3, Azm=312; (N) Val=0.10, Plg=82, Azm=205;
                                                               (P) Val=-2.64, Plg=8, Azm=43; Best double couple:
                                                               Mo=2.6*10**18 Nm; NP1: Strike=87, Dip=83, Slip=-4; NP2:
                                                               Strike=178, Dip=86, Slip=-173.
13  15 04 09.1*  4.049 S  134.960 E   33 N  3.8       1.1   11  IRIAN JAYA REGION, INDONESIA
13  15 46 37.4  31.318 S   68.106 W  106 *            0.9   16  SAN JUAN PROVINCE, ARGENTINA. MD 4.4 (GUC).
13  16 29 12.2& 38.400 N   26.025 E   10 G                 12  AEGEAN SEA. <ISK>. MD 3.6 (ISK).
13  16 35 00.6*  8.862 S  111.395 E   83 *  4.0       1.2   20  JAWA, INDONESIA
13  17 53 24.4* 24.009 N  122.265 E   57 D  4.2       1.1   12  TAIWAN REGION
13  18 52 25.1   8.806 S  111.426 E   78    4.8       0.9   34  JAWA, INDONESIA
13  19 13 57.5& 47.000 N    9.500 E    5 G                  5  GERMANY. <STR>. ML 2.5 (STR), 2.3 (VIE).
13  19 43 42.1?  1.16  S  124.60  E   33 N  3.9       1.4    8  SOUTHERN MOLUCCA SEA
13  20 30 09.1*  6.278 S  130.293 E  104 *  4.5       1.1   19  BANDA SEA
13  20 40 04.7*  8.337 S  110.092 E  114 *            1.0   11  JAWA, INDONESIA
13  20 40 09.3& 40.698 N   29.896 E   10 G                  4  TURKEY. <ISK>. MD 2.6 (ISK).
13  20 59 36.3* 12.119 N  143.869 E   58 ?  4.1       1.2   18  SOUTH OF MARIANA ISLANDS
13  21 11 19.8& 32.190 S   71.615 W   12                   11  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
13  21 20 50.5* 34.559 N  137.969 E  286    4.1       0.9   16  NEAR S. COAST OF HONSHU, JAPAN
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13	21	37	01.7*	46.251	N	13.605	E	10	G		0.2	5	AUSTRIA. ML 1.4 (LJU).
13	21	48	01.6	24.054	N	122.552	E	53	D	4.7	1.1	42	TAIWAN REGION
13	21	49	20.3*	3.560	S	129.120	E	78	?	4.7	0.8	8	SERAM, INDONESIA
13	23	11	48.1&	37.630	N	1.780	W	12				5	SPAIN. <MDD>. mbLg 1.9 (MDD).
13	23	20	03.1*	10.333	S	165.749	E	118	D	4.0	1.1	14	SANTA CRUZ ISLANDS
13	23	26	01.2&	34.478	S	70.190	W	1				11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.6 (GUC).
13	23	56	26.8	32.543	S	70.311	W	104		4.5	1.0	76	CHILE-ARGENTINA BORDER REGION. MD 4.7 (GUC). Felt (III) at Casablanca, Concon, Papudo, Quilpue, Quintero, Valparaiso, Villa Alemana, Vina del Mar and Zapallar; (II) at La Ligua and San Felipe, Chile.
14	00	10	15.6&	44.300	N	4.900	E	2				21	FRANCE. <LDG>. ML 2.6 (STR), 2.3 (LDG).
14	00	14	36.6*	64.273	N	150.140	W	33	N		1.4	6	CENTRAL ALASKA. ML 3.3 (PMR).
14	00	16	58.3&	34.500	S	70.178	W	8				14	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.7 (GUC).
14	00	51	14.5&	44.300	N	5.000	E	2				5	FRANCE. <LDG>. ML 1.9 (LDG).
14	01	14	50.5&	35.500	N	3.970	W	0	G			8	STRAIT OF GIBRALTAR. <MDD>. mbLg 1.9 (MDD).
14	01	51	32.3&	32.125	S	69.092	W	175				11	MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 3.1 (GUC).
14	03	01	02.0	9.558	N	126.199	E	33	N	4.9	1.0	54	MINDANAO, PHILIPPINE ISLANDS
14	03	39	11.5*	32.981	N	15.369	E	10	G	3.8	1.2	24	NEAR COAST OF LIBYA
14	04	16	21.9&	33.402	S	71.165	W	66				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.9 (GUC).
14	04	38	41.3?	8.53	N	126.34	E	125	?	4.1	1.1	15	MINDANAO, PHILIPPINE ISLANDS
14	04	41	11.7	36.187	N	10.775	E	33	N	4.1	1.3	56	TUNISIA. ML 3.8 (ROM).
14	05	23	25.9&	32.605	S	71.015	W	71				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.9 (GUC).
14	05	49	21.2?	19.35	S	169.51	E	148	*	4.4	1.4	11	VANUATU ISLANDS
14	05	57	53.7	46.852	N	7.132	E	10	G		1.3	150	SWITZERLAND. ML 4.7 (LDG), 4.5 (STR), 4.3 (VIE). Minor damage in the epicentral area.
14	05	58	13.4?	15.84	S	174.09	W	33	N	4.1	0.5	12	TONGA ISLANDS
14	06	26	34.0&	34.747	S	70.133	W	9				11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.6 (GUC).
14	06	27	22.6&	46.800	N	7.100	E	2				9	SWITZERLAND. <LDG>. ML 1.8 (LDG), 1.6 (STR).
14	06	30	32.0&	57.320	N	153.930	W	1				51	KODIAK ISLAND REGION. <AEIC>. ML 3.1 (AEIC).
14	06	48	43.4&	46.800	N	7.100	E	2				8	SWITZERLAND. <LDG>. ML 1.9 (LDG), 1.5 (STR).
14	06	58	22.3?	8.49	S	157.43	E	33	N	4.1	1.1	10	SOLOMON ISLANDS
14	07	13	48.9&	46.800	N	7.100	E	2				17	SWITZERLAND. <LDG>. ML 2.6 (LDG), 2.0 (STR).
14	07	16	50.3&	46.800	N	7.100	E	2				13	SWITZERLAND. <LDG>. ML 2.1 (LDG), 1.7 (STR).
14	07	26	43.4&	4.539	N	75.660	W	2				5	COLOMBIA. <RSNC>. ML 2.7 (RSNC).
14	07	47	48.6&	46.800	N	7.100	E	2				5	SWITZERLAND. <LDG>. ML 1.9 (LDG).
14	08	42	48.1&	38.120	N	1.330	W	0	G			7	SPAIN. <MDD>. mbLg 2.4 (MDD).
14	08	50	17.8&	34.498	S	72.201	W	21				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
14	08	56	56.6	17.758	S	174.527	W	127	D	4.7	0.8	74	TONGA ISLANDS
14	09	06	53.3&	35.268	N	33.499	E	20				7	CYPRUS REGION. <CSS>. ML 3.1 (CSS).
14	09	30	19.2%	44.874	N	142.725	E	200	G		0.6	6	HOKKAIDO, JAPAN REGION
14	09	33	53.6&	46.800	N	7.200	E	2				13	SWITZERLAND. <LDG>. ML 2.3 (LDG), 1.9 (STR).
14	09	34	51.1*	34.133	N	138.975	E	33	N		0.9	8	NEAR S. COAST OF HONSHU, JAPAN
14	09	51	31.8	34.219	N	139.037	E	33	N	4.0	0.9	26	NEAR S. COAST OF HONSHU, JAPAN
14	10	09	10.4	52.141	N	169.449	W	33	N	4.6	1.1	68	FOX ISLANDS, ALEUTIAN ISLANDS
14	10	23	15.2?	47.13	N	147.04	E	350	G		1.5	9	NORTHWEST OF KURIL ISLANDS
14	10	52	43.1*	6.991	S	68.026	E	10	G	4.7	1.2	45	CHAGOS ARCHIPELAGO REGION
14	11	01	52.2	44.443	N	149.628	E	33	N	5.3	1.0	150	KURIL ISLANDS
14	11	22	37.8	44.506	N	149.710	E	33	N	5.7 5.0	0.8	304	KURIL ISLANDS. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 11:22:42.5; Lat 44.39 N; Lon 150.11 E; Dep 50.8; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=0.89, Plg=74, Azm=63; (N) Val=0.29, Plg=16, Azm=238; (P) Val=-1.18, Plg=1, Azm=329; Best double couple: Mo=1.0*10**17 Nm; NP1: Strike=75, Dip=46, Slip=113; NP2: Strike=223, Dip=48, Slip=68.
14	11	32	04.6?	44.65	N	149.05	E	33	N		0.4	5	KURIL ISLANDS
14	11	45	53.9	38.171	N	15.061	E	33	N	4.4	1.1	170	SICILY. ML 4.5 (PDG), 4.4 (THE), 3.8 (ROM). Felt at Oliveri.
14	11	55	47.8&	39.381	N	27.563	E	10	G			5	TURKEY. <ISK>. MD 2.7 (ISK).
14	12	14	17.8&	30.696	S	71.681	W	58				16	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.3 (GUC).
14	12	19	54.1&	32.046	S	71.526	W	24				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
14	12	30	52.3&	61.280	N	150.990	W	50				48	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).
14	12	42	40.0*	5.605	N	61.304	E	10	G		1.0	14	CARLSBERG RIDGE
14	12	44	16.8*	5.905	N	61.391	E	10	G	5.0	1.0	29	CARLSBERG RIDGE
14	13	08	26.8	30.174	N	141.068	E	33	N	3.8	1.1	11	SOUTH OF HONSHU, JAPAN
14	13	14	22.9*	5.803	N	61.399	E	10	G	4.8	1.2	39	CARLSBERG RIDGE
14	13	41	35.2?	5.68	N	61.41	E	10	G	4.1	1.0	7	CARLSBERG RIDGE
14	13	49	09.6&	40.434	N	33.226	E	10				5	TURKEY. <ISK>. MD 3.3 (ISK).
14	14	32	16.4&	32.424	S	71.498	W	56				11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
14	14	49	55.9*	9.372	S	114.285	E	33	N	3.8	1.1	9	SOUTH OF BALI, INDONESIA
14	15	02	19.5*	3.975	S	144.663	E	33	N	4.3	1.1	11	NEAR N COAST OF NEW GUINEA, PNG.
14	15	19	04.8&	33.900	S	71.179	W	54				10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.0 (GUC).
14	15	46	39.7?	14.83	S	174.96	W	100	G	4.3	1.2	32	SAMOA ISLANDS REGION
14	15	47	44.9&	31.826	S	69.606	W	150				11	SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 2.9 (GUC).
14	15	56	41.9&	46.800	N	7.100	E	2				4	SWITZERLAND. <LDG>. ML 1.9 (LDG).
14	16	04	49.0?	36.43	N	71.08	E	100	G	3.7	1.2	8	AFGHANISTAN-TAJIKISTAN BORD REG.
14	16	42	19.6*	62.878	S	144.313	E	10	G	4.5	0.8	17	SOUTH OF AUSTRALIA
14	16	57	20.0&	46.800	N	7.200	E	2				7	SWITZERLAND. <LDG>. ML 1.8 (LDG), 1.2 (STR).
14	17	00	08.2	33.643	N	46.747	E	33	N	4.4	0.9	46	IRAN-IRAQ BORDER REGION
14	17	17	27.9	21.581	N	106.681	W	33	N	5.1 4.6	0.9	138	OFF COAST OF CENTRAL MEXICO
14	17	50	04.0*	4.911	S	153.803	E	109	*	4.2	0.8	21	NEW IRELAND REGION, P.N.G.
14	18	22	20.4*	61.044	N	148.092	W	10	G		0.8	8	SOUTHERN ALASKA. ML 3.0 (PMR).
14	18	48	42.4	32.823	S	69.869	W	116		4.3	0.9	56	MENDOZA PROVINCE, ARGENTINA. MD 4.8 (GUC). Felt (III) at San Felipe, Santiago, Valparaiso and Vina del Mar; (II) at Pichicui, Chile.
14	19	27	54.0*	46.079	N	152.736	E	33	N	4.9	1.4	24	KURIL ISLANDS
14	19	53	11.8	37.076	N	3.951	E	10	G	3.8	0.8	96	WESTERN MEDITERRANEAN SEA
14	20	16	42.0	36.518	N	70.983	E	218	*	4.1	0.9	31	HINDU KUSH REGION, AFGHANISTAN
14	20	30	49.8*	17.069	S	168.378	E	221		4.5	1.0	41	VANUATU ISLANDS
14	21	12	24.5	15.507	S	167.996	E	10	G	5.9 5.5	1.0	237	VANUATU ISLANDS. Mw 6.0 (GS), 6.0 (HRV). Me 5.9 (GS). Broadband Source Parameters (GS): Dep 13; NP1: Strike=165, Dip=60, Slip=100; NP2: Strike=326, Dip=31, Slip=73; Radiated energy 1.7*10**13 Nm. Moment Tensor (GS): Dep 5; Principal axes (scale 10**18 Nm):

Day	Hr	Min	Sec	Lat	Lon	Depth	mb	Ms	SD	Sta	Region / Remarks
											(T) Val=1.27, Plg=77, Azm=51; (N) Val=0.05, Plg=3, Azm=155; (P) Val=-1.31, Plg=13, Azm=246; Best double couple: Mo=1.3*10**18 Nm; NP1: Strike=341, Dip=32, Slip=97; NP2: Strike=153, Dip=58, Slip=86. Centroid, Moment Tensor (HRV): Centroid origin time 21:12:31.4; Lat 15.52 S; Lon 168.10 E; Dep 15.0 Bdy; Half-duration 2.4 sec; Principal axes (scale 10**18 Nm): (T) Val=1.04, Plg=72, Azm=326; (N) Val=-0.11, Plg=16, Azm=171; (P) Val=-0.93, Plg=7, Azm=79; Best double couple: Mo=9.8*10**17 Nm; NP1: Strike=151, Dip=41, Slip=65; NP2: Strike=3, Dip=54, Slip=110.
14	22	14	41.5&	34.172 S	70.657 W	99				9	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).
14	22	54	58.7&	47.600 N	6.700 E	19				4	FRANCE. <LDG>. ML 1.4 (LDG).
14	22	58	14.6?	19.80 S	177.71 W	450 G	4.0		0.8	14	FIJI ISLANDS REGION
14	23	25	38.9&	33.385 S	70.570 W	88				13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.2 (GUC).
14	23	31	27.4&	60.460 N	152.130 W	100	2.7			51	SOUTHERN ALASKA. <AEIC>.
14	23	56	10.2*	3.049 S	129.711 E	33 N			0.8	11	SERAM, INDONESIA
14	23	59	17.5&	46.100 N	7.500 E	2				9	SWITZERLAND. <LDG>. ML 1.9 (LDG).
14	23	59	31.0*	7.742 N	135.385 E	33 N	4.5		0.8	11	WESTERN CAROLINE ISLANDS
15	00	14	34.6*	5.726 S	148.048 E	113 *	4.6		1.1	14	NEW BRITAIN REGION, P.N.G.
15	01	12	23.4?	56.13 S	27.31 W	33 N	4.7		0.8	12	SOUTH SANDWICH ISLANDS REGION
15	02	21	21.4&	37.070 N	3.970 W	2				14	SPAIN. <MDD>. mbLg 2.3 (MDD).
15	02	23	40.2&	37.040 N	3.990 W	0				12	SPAIN. <MDD>. mbLg 2.1 (MDD).
15	02	58	52.5%	85.283 N	89.632 E	10 G			1.3	6	NORTH OF SEVERNAYA ZEMLYA
15	03	34	26.8	0.431 N	123.760 E	243	5.2		1.0	73	MINAHASSA PENINSULA, SULAWESI. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 03:34:21.6; Lat 0.01 N; Lon 124.02 E; Dep 219.1; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.65, Plg=27, Azm=2; (N) Val=-2.33, Plg=42, Azm=245; (P) Val=-3.32, Plg=36, Azm=114; Best double couple: Mo=4.5*10**16 Nm; NP1: Strike=144, Dip=42, Slip=-8; NP2: Strike=240, Dip=85, Slip=-132.
15	03	43	05.1*	45.534 N	15.892 E	10 G			0.4	12	NORTHWESTERN BALKAN REGION. ML 2.9 (VIE), 2.6 (ZAG), 2.1 (LJU).
15	03	46	00.8&	33.916 S	71.718 W	33				11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
15	05	00	42.6*	16.569 N	98.948 W	33 N	3.9		0.9	17	NEAR COAST OF GUERRERO, MEXICO
15	05	19	07.3	15.540 S	168.001 E	33 N	5.0	5.4	1.0	92	VANUATU ISLANDS. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 05:19:08.4; Lat 15.43 S; Lon 167.87 E; Dep 33.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.14, Plg=54, Azm=320; (N) Val=1.41, Plg=20, Azm=200; (P) Val=-6.55, Plg=29, Azm=99; Best double couple: Mo=5.8*10**16 Nm; NP1: Strike=147, Dip=25, Slip=34; NP2: Strike=25, Dip=76, Slip=111.
15	05	46	12.3	4.931 N	95.848 E	33 N	5.3	5.1	1.1	150	NORTHERN SUMATERA, INDONESIA. Mw 5.5 (HRV). Felt (II) at Banda Aceh. Centroid, Moment Tensor (HRV): Centroid origin time 05:46:16.0; Lat 5.02 N; Lon 95.98 E; Dep 15.0 Fix; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.13, Plg=16, Azm=257; (N) Val=0.12, Plg=67, Azm=124; (P) Val=-2.25, Plg=16, Azm=352; Best double couple: Mo=2.2*10**17 Nm; NP1: Strike=34, Dip=67, Slip=0; NP2: Strike=304, Dip=90, Slip=157.
15	06	00	03.9&	40.275 N	124.406 W	22				11	NEAR COAST OF NORTHERN CALIF. <GM-P>. Mw 4.7 (BRK). MD 4.0 (GM). ML 3.8 (BRK). Moment Tensor (BRK): Dep 27; Principal axes (scale 10**16 Nm): (T) Val=1.25, Plg=14, Azm=57; (N) Val=0.00, Plg=76, Azm=236; (P) Val=-1.25, Plg=0, Azm=327; Best double couple: Mo=1.3*10**16 Nm; NP1: Strike=193, Dip=80, Slip=10; NP2: Strike=101, Dip=80, Slip=170.
15	06	46	08.5*	85.284 N	90.165 E	10 G	3.5		0.8	6	NORTH OF SEVERNAYA ZEMLYA
15	07	21	38.0?	3.15 S	132.04 E	33 N	3.9		1.0	7	IRIAN JAYA REGION, INDONESIA
15	07	23	45.1&	33.049 S	70.127 W	121				12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.3 (GUC).
15	07	27	21.0&	36.367 N	29.258 E	10 G				5	TURKEY. <ISK>. MD 3.6 (ISK).
15	07	46	51.0	3.499 S	138.646 E	76 *	4.9		0.9	43	IRIAN JAYA, INDONESIA. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 07:46:56.5; Lat 3.10 S; Lon 138.59 E; Dep 71.5; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=9.27, Plg=23, Azm=280; (N) Val=-0.31, Plg=32, Azm=25; (P) Val=-8.96, Plg=49, Azm=162; Best double couple: Mo=9.1*10**16 Nm; NP1: Strike=327, Dip=36, Slip=-153; NP2: Strike=215, Dip=75, Slip=-57.
15	08	10	06.3&	38.359 N	28.153 E	10				8	TURKEY. <ISK>. MD 3.1 (ISK).
15	09	34	57.2?	25.62 S	63.45 W	569 ?	4.0		0.6	11	SALTA PROVINCE, ARGENTINA
15	09	35	30.0&	39.536 N	28.789 E	10 G				4	TURKEY. <ISK>. MD 2.5 (ISK).
15	09	38	50.7&	46.600 N	0.700 E	2				24	FRANCE. <LDG>. ML 3.4 (STR), 3.2 (LDG).
15	09	41	52.9	18.065 S	178.530 W	624 *	4.7		0.8	100	FIJI ISLANDS REGION
15	09	43	01.9	46.168 N	15.015 E	10 G			1.2	8	NORTHWESTERN BALKAN REGION. ML 2.0 (VIE).
15	10	00	43.7*	6.053 N	126.041 E	118 ?	4.1		1.0	24	MINDANAO, PHILIPPINE ISLANDS
15	11	31	25.7*	3.339 S	143.180 E	33 N	3.8		1.0	12	NEAR N COAST OF NEW GUINEA, PNG.
15	11	48	09.9&	38.050 N	1.470 W	0 G				14	SPAIN. <MDD>. mbLg 2.9 (MDD). Felt (III) in the epicentral area.
15	12	20	07.7*	28.789 N	128.225 E	33 N	4.2		1.1	22	RYUKYU ISLANDS
15	12	47	31.0&	42.767 N	19.111 E	7				7	NORTHWESTERN BALKAN REGION. <PDG>. ML 1.3 (PDG).
15	12	48	01.7&	46.340 N	7.500 E	10				7	SWITZERLAND. <STR>. ML 2.1 (STR).
15	13	11	25.4&	38.045 N	30.088 E	12				7	TURKEY. <ISK>. MD 3.3 (ISK).
15	13	15	02.7?	3.91 S	101.35 E	90 ?	4.3		1.4	14	SOUTHERN SUMATERA, INDONESIA
15	13	33	19.6	52.248 N	169.259 W	33 N	4.1		1.0	30	FOX ISLANDS, ALEUTIAN ISLANDS
15	13	45	48.3?	2.97 S	129.91 E	33 N	4.1		0.8	10	SERAM, INDONESIA
15	14	06	16.1&	33.151 S	70.321 W	4				10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
15	14	08	15.5&	45.800 N	5.300 E	2				6	FRANCE. <LDG>. ML 2.2 (LDG).
15	14	30	17.1*	31.683 S	67.441 W	100 G			1.1	13	SAN JUAN PROVINCE, ARGENTINA. MD 3.4 (GUC).
15	14	37	43.0?	20.83 S	68.60 W	100 G	4.0		1.5	11	CHILE-BOLIVIA BORDER REGION

15	14	47	50.1?	4.07	N	94.92	E	33	N			1.3	6	OFF W COAST OF NORTHERN SUMATERA
15	15	32	33.2&	33.557	S	72.014	W	20					14	OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
15	15	37	02.3*	85.691	N	81.064	E	10	G	3.8		1.0	13	NORTH OF SEVERNAYA ZEMLYA
15	15	37	07.6&	45.319	N	121.656	W	7					58	WASHINGTON-OREGON BORDER REGION. <SEA-P>. MD 2.6 (SEA).
15	15	53	49.3?	29.66	N	141.74	E	33	N			0.9	9	SOUTH OF HONSHU, JAPAN
15	17	05	39.9	12.409	N	88.194	W	61	*	4.6		1.1	53	OFF COAST OF CENTRAL AMERICA
15	17	42	06.9	45.819	N	142.547	E	300	G	4.3		0.9	41	HOKKAIDO, JAPAN REGION
15	17	59	50.7&	33.541	S	71.948	W	17					11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
15	18	34	53.6&	34.238	S	70.074	W	5					11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.9 (GUC).
15	18	35	20.1*	12.192	N	87.845	W	75	*	4.6		1.2	32	NEAR COAST OF NICARAGUA
15	18	38	32.1&	34.254	S	70.086	W	7					9	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.7 (GUC).
15	18	43	15.1*	85.547	N	88.782	E	10	G	3.5		1.5	6	NORTH OF SEVERNAYA ZEMLYA
15	18	47	17.4	18.983	S	178.064	W	502	D	4.7		1.0	62	FIJI ISLANDS REGION
15	19	34	52.4	46.022	N	14.783	E	10	G			1.0	22	NORTHWESTERN BALKAN REGION. ML 3.2 (VIE), 2.9 (LDG), 2.8 (LJU). Felt (IV) in the Grosuplje area, Slovenia.
15	19	40	49.5?	18.63	N	100.64	W	111	?	3.9		1.2	27	GUERRERO, MEXICO
15	20	01	56.1?	51.50	N	16.04	E	5	G			1.0	6	POLAND. ML 3.0 (VIE), 2.8 (WAR).
15	20	13	35.1&	35.438	N	77.495	E	33	N			0.3	5	EASTERN KASHMIR
15	21	33	13.0*	35.623	N	88.464	E	33	N	3.3		0.7	8	XIZANG
15	21	36	31.7*	17.996	S	178.055	W	500	G	4.4		1.1	23	FIJI ISLANDS REGION
15	21	40	18.6	42.645	N	111.113	W	5	G			0.9	30	EASTERN IDAHO. ML 3.4 (GS), 3.7 (BUT). Felt at Afton, Wyoming.
15	21	44	23.0?	3.28	S	129.06	E	33	N	4.4		1.4	11	SERAM, INDONESIA
15	22	01	56.9?	4.63	S	152.11	E	161	*	4.3		0.7	7	NEW BRITAIN REGION, P.N.G.
15	23	09	36.6	85.977	N	81.004	E	10	G	4.5		1.0	39	NORTH OF SEVERNAYA ZEMLYA
15	23	30	16.1&	54.278	N	163.300	W	59		2.8			21	UNIMAK ISLAND REGION. <AEIC>. ML 3.0 (AEIC).
16	00	26	02.6*	6.988	S	105.471	E	33	N	4.2		0.8	11	SUNDA STRAIT
16	00	50	50.4&	32.523	S	70.464	W	98					10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).
16	01	28	23.3?	55.28	S	128.74	W	10	G			1.5	9	PACIFIC-ANTARCTIC RIDGE
16	01	31	15.0&	38.050	N	1.450	W	4					16	SPAIN. <MDD>. mbLg 2.6 (MDD).
16	01	34	14.8?	3.63	S	128.49	E	33	N	3.9		0.9	7	SERAM, INDONESIA
16	01	38	08.3?	62.78	S	159.44	W	10	G	4.4		0.9	8	PACIFIC-ANTARCTIC RIDGE
16	01	49	58.3	43.187	N	1.347	W	10	G			1.2	79	PYRENEES. ML 4.3 (STR), 4.1 (LDG). Felt (IV) at Burguete, Elizondo, Urdax and Valcarlos, Spain. Also felt (IV) in southwestern France.
16	02	20	21.9&	34.133	S	70.049	W	3					11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.8 (GUC).
16	02	38	04.6*	5.311	S	146.286	E	158	*	4.4		1.0	15	EASTERN NEW GUINEA REG., P.N.G.
16	03	03	23.7&	60.380	N	153.518	W	165					52	SOUTHERN ALASKA. <AEIC>.
16	04	11	28.0&	34.141	S	70.043	W	3					13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.8 (GUC).
16	04	55	34.7*	31.673	S	69.073	W	100	G			0.9	17	SAN JUAN PROVINCE, ARGENTINA. MD 3.9 (GUC).
16	05	24	53.3&	16.011	N	61.086	W	22					10	LEEWARD ISLANDS. <FDF>. MD 3.2 (TRN). MD 2.8 (FDF).
16	05	29	44.1&	32.747	S	71.491	W	24					12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
16	07	00	42.8?	5.88	S	154.98	E	168	?	4.0		1.0	8	SOLOMON ISLANDS
16	07	19	05.8&	37.090	N	3.930	W	0					15	SPAIN. <MDD>. mbLg 2.4 (MDD).
16	08	40	41.1?	20.31	S	170.60	E	33	N	4.3		0.8	8	VANUATU ISLANDS
16	08	58	19.9	35.345	N	33.676	E	33	N			0.2	6	CYPRUS REGION. ML 3.1 (CSS).
16	09	12	06.9?	5.16	S	154.11	E	134	?	4.1		0.5	9	SOLOMON ISLANDS
16	09	37	30.6*	3.289	N	95.467	E	65	D	4.3		1.0	13	OFF W COAST OF NORTHERN SUMATERA
16	09	37	44.5*	17.790	S	177.709	W	500	G	4.4		0.9	20	FIJI ISLANDS REGION
16	10	08	50.8&	37.681	N	29.326	E	10	G				5	TURKEY. <ISK>. MD 3.0 (ISK).
16	10	13	39.9	85.801	N	82.823	E	10	G	4.4		1.0	34	NORTH OF SEVERNAYA ZEMLYA
16	10	37	19.5	3.156	N	127.732	E	63	*	5.0		1.1	52	TALAUD ISLANDS, INDONESIA. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 10:37:21.4; Lat 3.21 N; Lon 127.40 E; Dep 97.3; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.57, Plg=30, Azm=248; (N) Val=-1.45, Plg=54, Azm=104; (P) Val=-4.12, Plg=17, Azm=348; Best double couple: Mo=4.8*10**16 Nm; NP1: Strike=31, Dip=55, Slip=10; NP2: Strike=295, Dip=82, Slip=145.
16	11	14	23.4	85.632	N	84.663	E	10	G	4.5		1.0	25	NORTH OF SEVERNAYA ZEMLYA
16	11	34	26.4?	7.18	S	129.48	E	133	?	3.9		1.4	12	BANDA SEA
16	11	46	43.3&	41.985	N	19.216	E	3					8	ALBANIA. <PDG>. ML 2.1 (PDG).
16	11	49	13.5&	60.101	N	153.046	W	133		2.9			58	SOUTHERN ALASKA. <AEIC>.
16	12	01	53.9&	60.865	N	150.868	W	12					50	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.8 (AEIC).
16	12	18	37.4*	4.489	N	75.735	W	10	G			1.0	6	COLOMBIA. ML 2.6 (RSNC).
16	12	30	18.6*	85.602	N	83.987	E	10	G	4.2		1.2	9	NORTH OF SEVERNAYA ZEMLYA
16	13	27	47.4&	4.384	N	75.705	W	1					6	COLOMBIA. <RSNC>. ML 2.9 (RSNC).
16	13	40	02.0?	11.18	N	86.23	W	33	N	3.5		1.5	10	NEAR COAST OF NICARAGUA
16	13	53	46.3?	29.64	S	178.42	W	136	D	4.1		0.5	6	KERMADEC ISLANDS, NEW ZEALAND
16	14	49	20.3?	17.43	S	69.37	W	100	?	4.7		0.2	7	PERU-BOLIVIA BORDER REGION
16	14	56	40.9	15.647	N	87.130	W	10	G	5.2	4.5	1.0	185	HONDURAS. Mw 5.2 (HRV). MD 4.8 (SJR). Felt at La Ceiba and San Pedro Sula. Centroid, Moment Tensor (HRV): Centroid origin time 14:56:41.4; Lat 15.70 N; Lon 87.13 W; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=7.40, Plg=1, Azm=88; (N) Val=2.07, Plg=11, Azm=179; (P) Val=-9.47, Plg=79, Azm=351; Best double couple: Mo=8.4*10**16 Nm; NP1: Strike=167, Dip=45, Slip=-105; NP2: Strike=9, Dip=47, Slip=-75.
16	15	38	00.9*	38.898	N	25.737	E	10	G			0.7	7	AEGEAN SEA. MD 3.3 (ISK).
16	16	21	08.0	10.243	N	56.706	E	10	G	4.7	4.7	0.8	39	CARLSBERG RIDGE. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 16:21:10.6; Lat 9.58 N; Lon 56.57 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=8.75, Plg=35, Azm=25; (N) Val=0.85, Plg=0, Azm=295; (P) Val=-9.60, Plg=55, Azm=204; Best double couple: Mo=9.2*10**16 Nm; NP1: Strike=117, Dip=10, Slip=-87; NP2: Strike=295, Dip=80, Slip=-90.
16	16	26	19.6*	12.106	N	87.613	W	33	N	3.9		1.0	9	NEAR COAST OF NICARAGUA. MD 3.9 (SJR).
16	17	14	59.8&	14.841	N	60.243	W	30					13	WINDWARD ISLANDS. <FDF>. MD 3.5 (FDF), 3.5 (TRN).
16	17	15	21.2	17.271	N	145.663	E	162	*	4.7		0.9	89	MARIANA ISLANDS
16	17	32	36.3	85.647	N	83.975	E	10	G	4.2		1.0	21	NORTH OF SEVERNAYA ZEMLYA
16	17	41	51.0&	34.001	S	71.437	W	48					10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).

16	17	42	42.7&	11.393	N	60.801	W	11					10	WINDWARD ISLANDS. <TRN>.
16	17	59	40.8?	28.53	N	52.16	E	33	N	3.6		0.4	8	SOUTHERN IRAN
16	18	53	15.9&	43.920	N	7.040	E	2	G				7	NEAR SOUTH COAST OF FRANCE. <STR>. ML 1.5 (STR).
16	19	20	51.1*	37.486	N	57.323	E	33	N	3.8		1.2	9	TURKMENISTAN-IRAN BORDER REGION
16	19	35	37.8*	28.470	N	52.134	E	33	N	3.8		0.8	13	SOUTHERN IRAN
16	19	55	25.8	6.526	S	129.782	E	130		5.1		1.1	49	BANDA SEA
16	20	58	16.0	5.898	S	146.423	E	112		4.2		0.8	21	EASTERN NEW GUINEA REG., P.N.G.
16	21	02	22.7	58.499	N	142.801	W	10	G			0.7	53	GULF OF ALASKA. ML 4.2 (PMR), 4.2 (PGC), 4.1 (AEIC).
16	21	49	06.0	85.674	N	84.821	E	10	G	4.5		1.0	40	NORTH OF SEVERNAYA ZEMLYA
16	23	22	48.3*	9.324	N	127.021	E	33	N	4.6		1.4	16	PHILIPPINE ISLANDS REGION
16	23	42	49.1*	42.305	N	142.123	E	134	?	3.9		1.3	12	HOKKAIDO, JAPAN REGION
16	23	49	27.1&	45.640	N	6.200	E	2	G				12	FRANCE. <STR>. ML 2.1 (STR), 2.0 (LDG).
17	00	05	48.3&	38.598	N	26.198	E	10	G				7	AEGEAN SEA. <ISK>. MD 3.3 (ISK).
17	00	30	22.9&	55.108	N	159.448	W	7		3.0			41	ALASKA PENINSULA. <AEIC>. ML 3.5 (AEIC).
17	00	55	31.9	29.850	S	69.396	W	33	N	4.4		1.3	30	CHILE-ARGENTINA BORDER REGION
17	02	11	48.5&	62.083	N	150.935	W	70		2.5			67	CENTRAL ALASKA. <AEIC>.
17	02	27	12.3	2.011	S	133.483	E	33	N	5.4	5.4	0.9	73	IRIAN JAYA REGION, INDONESIA. Mw 5.8 (HRV), 5.6 (GS).
														Moment Tensor (GS): Dep 5; Principal axes (scale 10**17 Nm): (T) Val=3.19, Plg=88, Azm=162; (N) Val=0.29, Plg=2, Azm=327; (P) Val=-3.47, Plg=1, Azm=57; Best double couple: Mo=3.3*10**17 Nm; NP1: Strike=150, Dip=44, Slip=93; NP2: Strike=325, Dip=46, Slip=87.
														Centroid, Moment Tensor (HRV): Centroid origin time 02:27:13.2; Lat 2.21 S; Lon 133.88 E; Dep 15.0 Bdy; Half-duration 2.2 sec; Principal axes (scale 10**17 Nm): (T) Val=5.29, Plg=76, Azm=246; (N) Val=0.06, Plg=3, Azm=142; (P) Val=-5.35, Plg=13, Azm=51; Best double couple: Mo=5.3*10**17 Nm; NP1: Strike=137, Dip=32, Slip=84; NP2: Strike=324, Dip=58, Slip=94.
17	02	31	00.7&	42.790	N	7.220	W	10					7	SPAIN. <MDD>. mbLg 2.4 (MDD).
17	02	41	47.3?	2.02	S	133.09	E	33	N	4.4		1.5	11	IRIAN JAYA REGION, INDONESIA
17	02	48	41.8?	1.99	S	132.94	E	33	N	4.2		1.1	11	IRIAN JAYA REGION, INDONESIA
17	02	56	21.1*	2.005	S	133.568	E	33	N	4.2		1.4	16	IRIAN JAYA REGION, INDONESIA
17	02	56	46.1*	2.083	S	133.443	E	33	N	4.6		1.2	12	IRIAN JAYA REGION, INDONESIA
17	03	02	18.8*	33.200	N	74.125	E	33	N	4.0		1.1	9	SOUTHWESTERN KASHMIR
17	03	16	30.2&	34.052	S	70.364	W	7					10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.2 (GUC).
17	03	24	37.2*	2.089	S	133.453	E	33	N	4.4		1.1	16	IRIAN JAYA REGION, INDONESIA
17	03	33	41.6*	1.983	S	133.429	E	33	N	4.3		1.2	15	IRIAN JAYA REGION, INDONESIA
17	03	37	58.3*	2.042	S	133.452	E	33	N	4.4		1.1	16	IRIAN JAYA REGION, INDONESIA
17	04	12	09.0&	4.510	N	75.681	W	3					6	COLOMBIA. <RSNC>. ML 2.0 (RSNC).
17	04	14	28.6*	1.928	S	133.595	E	33	N	4.0		1.0	9	IRIAN JAYA REGION, INDONESIA
17	04	18	35.2?	2.10	S	133.74	E	33	N	4.4		1.4	10	IRIAN JAYA REGION, INDONESIA
17	04	29	13.4&	53.480	N	163.670	W	0		3.8			35	UNIMAK ISLAND REGION. <AEIC>. ML 3.6 (AEIC).
17	04	57	59.0	4.455	N	75.748	W	10	G			1.0	7	COLOMBIA. ML 2.9 (RSNC).
17	05	00	51.1&	34.053	S	70.365	W	7					11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
17	05	02	14.1*	2.248	S	133.211	E	33	N	4.5		0.9	12	IRIAN JAYA REGION, INDONESIA
17	05	25	27.6*	0.105	S	16.380	W	10	G	4.7	4.3	1.0	15	NORTH OF ASCENSION ISLAND
17	05	26	29.2*	85.646	N	83.750	E	10	G			0.9	12	NORTH OF SEVERNAYA ZEMLYA
17	05	41	36.5&	37.030	N	3.980	W	0	G				12	SPAIN. <MDD>. mbLg 2.1 (MDD).
17	05	48	37.0*	4.589	N	75.733	W	10	G			0.6	5	COLOMBIA. ML 2.2 (RSNC).
17	05	58	43.4&	44.900	N	6.700	E	2					4	FRANCE. <LDG>.
17	06	15	09.1*	2.023	S	133.448	E	33	N	4.6		1.0	12	IRIAN JAYA REGION, INDONESIA
17	06	34	56.2?	6.20	S	150.16	E	33	N	4.4		1.4	7	NEW BRITAIN REGION, P.N.G.
17	07	40	16.0	2.069	S	133.423	E	33	N	4.8		1.0	25	IRIAN JAYA REGION, INDONESIA
17	07	52	42.1*	2.052	S	133.184	E	33	N	4.9		1.2	11	IRIAN JAYA REGION, INDONESIA
17	07	58	27.6&	65.417	N	144.390	W	14					17	NORTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).
17	08	08	27.0&	49.170	N	6.940	E	1					5	GERMANY. <FBB>. ML 2.0 (FBB).
17	08	21	40.5&	15.285	N	61.065	W	107					5	LEEWARD ISLANDS. <FDF>. MD 2.8 (FDF).
17	08	30	19.2	2.065	S	133.315	E	33	N	4.8		1.0	23	IRIAN JAYA REGION, INDONESIA
17	08	44	27.2*	2.008	S	133.166	E	33	N	4.4		1.2	12	IRIAN JAYA REGION, INDONESIA
17	08	54	44.3&	43.050	N	0.190	E	2					9	FRANCE. <STR>. ML 2.6 (LDG), 2.4 (STR).
17	10	26	20.7	12.417	N	141.796	E	33	N	5.1	4.5	1.1	51	SOUTH OF MARIANA ISLANDS. Mw 5.2 (HRV).
														Centroid, Moment Tensor (HRV): Centroid origin time 10:26:20.8; Lat 12.47 N; Lon 141.83 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=7.96, Plg=12, Azm=332; (N) Val=-1.34, Plg=0, Azm=62; (P) Val=-6.62, Plg=78, Azm=152; Best double couple: Mo=7.3*10**16 Nm; NP1: Strike=62, Dip=33, Slip=-90; NP2: Strike=242, Dip=57, Slip=-90.
17	10	49	24.9&	55.337	N	159.885	W	64					15	ALASKA PENINSULA. <AEIC>. ML 2.8 (AEIC).
17	11	37	55.2*	14.883	N	60.127	W	10	G			1.0	8	WINDWARD ISLANDS. MD 3.2 (TRN), 3.1 (FDF).
17	11	38	32.7&	45.700	N	5.200	E	12					8	FRANCE. <LDG>. ML 2.0 (LDG).
17	12	15	03.1&	31.314	S	69.507	W	153					9	SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 3.3 (GUC).
17	12	55	25.7&	31.368	S	69.196	W	197					11	SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 3.4 (GUC).
17	13	17	58.1?	15.32	S	174.75	W	33	N	4.6	4.5	1.4	25	TONGA ISLANDS
17	14	49	26.6*	85.598	N	82.677	E	10	G			1.1	12	NORTH OF SEVERNAYA ZEMLYA
17	15	12	17.0&	37.070	N	3.970	W	2					6	SPAIN. <MDD>. mbLg 2.2 (MDD).
17	15	43	42.0&	33.746	S	70.115	W	2					11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
17	16	07	12.1	10.876	S	165.992	E	61	D	4.7		1.0	28	SANTA CRUZ ISLANDS
17	16	07	23.0&	46.810	N	7.220	E	5					23	SWITZERLAND. <STR>. ML 2.7 (LDG), 2.2 (STR), 2.2 (FBB).
17	16	18	02.0&	32.353	S	71.399	W	45					12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
17	16	31	49.3?	19.87	S	177.95	W	600	G	4.7		1.2	15	FIJI ISLANDS REGION
17	18	05	40.9&	46.300	N	2.300	E	2					11	FRANCE. <LDG>. ML 2.0 (LDG).
17	18	32	20.1&	53.459	N	163.652	W	0		4.1			42	UNIMAK ISLAND REGION. <AEIC>. ML 3.6 (AEIC).
17	18	37	49.0*	11.519	N	124.254	E	33	N	4.7		0.9	23	LEYTE, PHILIPPINE ISLANDS
17	18	43	42.8	17.350	N	95.249	W	74	*	4.4		0.9	27	OAXACA, MEXICO
17	18	52	13.9	5.821	S	146.857	E	118		4.5		1.1	24	EASTERN NEW GUINEA REG., P.N.G.
17	19	25	32.8	15.893	N	96.216	W	33	N	4.8		1.0	53	NEAR COAST OF OAXACA, MEXICO
17	20	40	04.0&	39.381	N	28.991	E	9					6	TURKEY. <ISK>. MD 2.6 (ISK).
17	20	53	01.1&	17.890	N	68.870	W	8					6	MONA PASSAGE. <MPR>. MD 3.6 (MPR).
17	21	40	26.9*	39.903	N	73.035	E	33	N	3.5		0.5	9	TAJIKISTAN-XINJIANG BORDER REG.
17	21	52	42.6	5.179	S	133.984	E	33	N	4.4		1.3	15	ARU ISLANDS REGION, INDONESIA
17	21	58	54.5	21.143	S	70.040	W	33	N	5.6	5.1	0.9	164	NEAR COAST OF NORTHERN CHILE. Mw 5.6 (GS), 5.6 (HRV). Felt

(V) at Iquique and Pozo Almonte; (IV) at Maria Elena and Tocopilla; (II) at Arica.
Moment Tensor (GS): Dep 32; Principal axes (scale 10**17 Nm): (T) Val=2.51, Plg=70, Azm=47; (N) Val=0.04, Plg=4, Azm=148; (P) Val=-2.55, Plg=20, Azm=240; Best double couple: Mo=2.5*10**17 Nm; NP1: Strike=337, Dip=25, Slip=100; NP2: Strike=147, Dip=65, Slip=86.
Centroid, Moment Tensor (HRV): Centroid origin time 21:59:02.7; Lat 21.40 S; Lon 71.15 W; Dep 41.1; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.68, Plg=71, Azm=16; (N) Val=-0.18, Plg=15, Azm=157; (P) Val=-2.50, Plg=12, Azm=250; Best double couple: Mo=2.6*10**17 Nm; NP1: Strike=358, Dip=36, Slip=116; NP2: Strike=147, Dip=58, Slip=72.

17	22	50	07.2&	63.180	N	150.698	W	134		2.6		57	CENTRAL ALASKA. <AEIC>.
17	23	13	59.8&	39.623	N	28.993	E	11				9	TURKEY. <ISK>. MD 3.0 (ISK).
17	23	55	38.3&	39.697	N	28.937	E	10	G			7	TURKEY. <ISK>. MD 2.8 (ISK).
18	00	14	18.1?	2.71	S	130.15	E	33	N	3.8	1.2	6	SERAM, INDONESIA
18	01	08	22.3*	23.324	N	142.506	E	136	?	3.9	1.1	16	VOLCANO ISLANDS REGION
18	01	54	28.5*	15.178	N	93.485	W	33	N	4.4	1.1	15	NEAR COAST OF CHIAPAS, MEXICO
18	02	10	58.9?	56.05	N	109.62	E	10	G	3.8	1.3	8	LAKE BAYKAL REGION, RUSSIA
18	02	11	53.4&	34.931	S	71.016	W	104				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.8 (GUC).
18	03	35	56.5&	55.032	N	161.720	W	103				14	ALASKA PENINSULA. <AEIC>.
18	03	41	04.8&	7.689	N	75.056	W	19				5	NORTHERN COLOMBIA. <RSNC>. ML 2.7 (RSNC).
18	03	49	55.8?	2.15	S	133.94	E	33	N	3.7	1.5	8	IRIAN JAYA REGION, INDONESIA
18	03	50	59.2*	2.192	S	133.956	E	33	N	3.9	0.9	10	IRIAN JAYA REGION, INDONESIA
18	04	19	00.4*	6.410	S	147.217	E	82	*	4.2	1.0	13	EASTERN NEW GUINEA REG., P.N.G.
18	04	27	30.2*	2.182	S	134.235	E	33	N	4.0	1.1	12	IRIAN JAYA REGION, INDONESIA
18	04	35	57.4	2.765	S	101.976	E	33	N	5.1 4.3	1.1	58	SOUTHERN SUMATERA, INDONESIA. Mw 5.1 (HRV). Felt (II) at Padangpanjang.
													Centroid, Moment Tensor (HRV): Centroid origin time 04:35:50.9; Lat 3.36 S; Lon 101.78 E; Dep 37.4; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.23, Plg=38, Azm=272; (N) Val=-0.42, Plg=50, Azm=70; (P) Val=-4.80, Plg=11, Azm=173; Best double couple: Mo=5.0*10**16 Nm; NP1: Strike=305, Dip=56, Slip=158; NP2: Strike=48, Dip=72, Slip=36.
18	04	39	04.4*	55.744	N	110.493	E	10	G	4.5	1.2	12	LAKE BAYKAL REGION, RUSSIA
18	04	39	48.3*	55.917	N	110.171	E	10	G	4.6 4.1	1.5	23	LAKE BAYKAL REGION, RUSSIA
18	05	06	49.9*	24.865	N	141.053	E	150	G	3.7	0.6	9	VOLCANO ISLANDS REGION
18	05	27	53.9&	35.711	N	32.017	E	25				4	CYPRUS REGION. <CSS>. ML 2.7 (CSS).
18	06	12	44.0?	6.05	S	127.95	E	367	?	3.7	1.1	12	BANDA SEA
18	06	35	01.1&	46.900	N	7.100	E	2				7	SWITZERLAND. <LDG>. ML 1.9 (LDG).
18	06	51	47.3?	16.70	S	177.97	W	426	?	3.9	1.0	19	FIJI ISLANDS REGION
18	07	01	48.6*	5.511	S	147.259	E	214		4.6	1.0	20	EASTERN NEW GUINEA REG., P.N.G.
18	07	05	16.3&	34.998	N	33.266	E	50				5	CYPRUS REGION. <CSS>.
18	07	19	33.7	30.608	N	131.689	E	33	N	5.2 4.7	1.0	105	KYUSHU, JAPAN. Mw 5.2 (HRV).
													Centroid, Moment Tensor (HRV): Centroid origin time 07:19:35.6; Lat 30.70 N; Lon 131.75 E; Dep 26.9; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.76, Plg=35, Azm=302; (N) Val=3.29, Plg=35, Azm=61; (P) Val=-9.05, Plg=36, Azm=182; Best double couple: Mo=7.4*10**16 Nm; NP1: Strike=333, Dip=35, Slip=-178; NP2: Strike=242, Dip=89, Slip=-55.
18	07	25	46.4*	1.983	S	133.446	E	33	N	4.2	1.4	14	IRIAN JAYA REGION, INDONESIA
18	08	15	43.7&	33.659	S	70.180	W	110				13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.9 (GUC).
18	08	45	34.4*	34.313	N	135.851	E	33	N		0.8	6	NEAR S. COAST OF WESTERN HONSHU
18	08	58	36.4&	38.785	N	122.771	W	2		3.6		29	NORTHERN CALIFORNIA. <GM-P>. Mw 4.1 (BRK). MD 4.2 (GM). ML 4.0 (BRK). Felt at Cobb, Healdsburg, San Francisco and Santa Rosa.
													Moment Tensor (BRK): Dep 5; Principal axes (scale 10**15 Nm): (T) Val=1.83, Plg=4, Azm=299; (N) Val=0.00, Plg=67, Azm=200; (P) Val=-1.83, Plg=23, Azm=31; Best double couple: Mo=1.8*10**15 Nm; NP1: Strike=167, Dip=77, Slip=-161; NP2: Strike=73, Dip=72, Slip=-14.
18	09	22	01.1&	63.560	N	150.522	W	17				76	CENTRAL ALASKA. <AEIC>. ML 3.9 (AEIC), 4.0 (PMR).
18	10	04	12.6&	40.331	N	124.397	W	27				7	NEAR COAST OF NORTHERN CALIF. <GM-P>. MD 3.1 (GM). ML 3.2 (BRK).
18	10	06	39.7&	42.350	N	1.300	E	2	G			7	PYRENEES. <STR>. ML 2.5 (LDG), 2.4 (STR).
18	10	20	32.9&	32.465	S	70.044	W	111				9	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).
18	11	53	18.8&	34.711	S	70.162	W	13				10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
18	12	02	58.6	2.181	S	79.595	W	67	D	5.0	0.9	62	NEAR COAST OF ECUADOR
18	12	04	59.4*	13.271	S	167.161	E	235	?	4.0	0.9	36	VANUATU ISLANDS
18	12	14	52.2&	34.034	S	70.158	W	6				12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.7 (GUC).
18	12	56	24.9&	34.030	S	70.159	W	7				12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.5 (GUC).
18	12	59	18.2*	6.337	S	146.064	E	128	*	4.0	1.0	14	EASTERN NEW GUINEA REG., P.N.G.
18	13	16	48.5?	5.76	S	146.53	E	69	?	3.6	0.8	8	EASTERN NEW GUINEA REG., P.N.G.
18	14	01	01.8&	42.360	N	1.270	E	2	G			6	PYRENEES. <STR>. ML 2.6 (STR), 2.6 (LDG).
18	14	32	23.8&	42.400	N	1.400	E	2				4	PYRENEES. <LDG>. ML 2.1 (LDG).
18	16	42	03.8&	11.492	N	60.491	W	3		3.9		8	WINDWARD ISLANDS. <TRN>. MD 3.5 (TRN).
18	16	49	51.0*	34.103	N	25.719	E	33	N	3.4	1.2	6	CRETE
18	17	05	08.2	6.524	S	129.926	E	100	G	4.9	1.0	28	BANDA SEA
18	17	32	48.8&	47.660	N	7.390	E	1	G			19	SWITZERLAND. <STR>. ML 2.2 (LDG), 1.8 (FBB), 1.6 (STR).
18	18	04	49.8*	36.546	N	70.940	E	253	?	3.6	0.9	17	HINDU KUSH REGION, AFGHANISTAN
18	18	15	58.1&	35.469	N	120.745	W	3				4	CENTRAL CALIFORNIA. <GM-P>. MD 2.5 (GM). ML 2.8 (PAS).
18	18	48	22.3	31.283	N	138.180	E	403	*	4.3	1.1	52	SOUTH OF HONSHU, JAPAN
18	19	08	03.3&	38.010	N	1.470	W	10				9	SPAIN. <MDD>. mbLg 2.0 (MDD).
18	19	15	00.9&	38.040	N	1.490	W	0	G			13	SPAIN. <MDD>. mbLg 2.4 (MDD). Felt (III) at Mula.
18	19	36	31.7&	32.922	S	70.201	W	101				12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.1 (GUC).
18	19	52	11.3&	59.506	N	153.186	W	98				54	SOUTHERN ALASKA. <AEIC>.
18	20	29	15.7?	51.18	N	16.18	E	5	G		0.5	4	POLAND. ML 2.6 (WAR).
18	22	34	50.1*	5.437	N	125.962	E	100	G	4.4	1.1	25	MINDANAO, PHILIPPINE ISLANDS
18	22	52	02.1?	15.15	N	44.78	W	10	G	4.0	1.2	7	NORTHERN MID-ATLANTIC RIDGE

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18  23 17 43.6& 42.730 N    9.150 W    7                     5  SPAIN. <MDD>. mbLg 2.6 (MDD).
18  23 30 40.2& 59.285 N  152.319 W   64                    36  SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).
19  00 11 43.5& 19.050 N   67.370 W   20                     6  MONA PASSAGE. <MPR>. MD 3.1 (MPR).
19  00 19 20.1  39.360 N   20.392 E   47    4.3       1.1   55  GREECE-ALBANIA BORDER REGION
19  01 01 56.0  37.401 N   21.279 E   33 N  4.2       1.2   46  SOUTHERN GREECE. ML 4.0 (PDG), 3.9 (ROM).
19  01 27 02.3  37.356 N   21.090 E   33 N  4.0       1.2   48  SOUTHERN GREECE
19  01 46 45.8& 36.630 N    6.250 W    0 G                    5  STRAIT OF GIBRALTAR. <MDD>. mbLg 1.7 (MDD).
19  02 08 20.1% 40.577 S  175.981 E   33 N            0.3   12  NORTH ISLAND, NEW ZEALAND. ML 4.1 (WEL).
19  02 32 50.3* 29.953 N   96.131 E   33 N  4.2       1.2   18  EASTERN XIZANG-INDIA BORDER REG.
19  02 40 50.3& 47.640 N    7.380 E    2                    10  SWITZERLAND. <STR>. ML 1.8 (LDG).
19  02 43 37.1* 22.484 S  166.727 E   33 N  4.2       0.4   10  NEW CALEDONIA
19  03 08 32.1& 32.592 N  116.165 W    3                    31  CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 4.2 (PAS). MD
                                                                 4.2 (ECX). Felt at Calexico, Pine Valley and Mira Mesa,
                                                                 California. Also felt at Mexicali and Tecate, Baja
                                                                 California.
19  03 22 38.3& 32.603 N  116.153 W    6                    25  CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 3.5 (PAS). MD
                                                                 3.6 (ECX). Felt at Calexico, California. Also felt at
                                                                 Mexicali and Tecate, Baja California.
19  03 43 00.7& 46.800 N    7.100 E    2                     9  SWITZERLAND. <LDG>. ML 1.9 (LDG).
19  04 45 16.2   6.853 S  129.759 E  113    4.6       0.9   36  BANDA SEA
19  05 06 04.2* 27.794 N  111.153 W   10 G  4.4       0.9   11  GULF OF CALIFORNIA. ML 4.2 (GS).
19  05 22 16.5?  7.16  N   33.85  W   10 G  4.6       1.2   14  CENTRAL MID-ATLANTIC RIDGE
19  06 06 16.6  48.989 N    8.840 E    5 G            0.5    7  GERMANY. ML 2.3 (LDG), 1.9 (STR).
19  07 25 58.8   5.922 S  147.403 E  102 D  5.2 4.8   0.8   97  EASTERN NEW GUINEA REG., P.N.G. Mw 5.5 (HRV).
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  07:26:01.9; Lat 6.07 S; Lon 147.40 E; Dep 79.3; Half-
                                                                  duration 1.4 sec; Principal axes (scale 10**17 Nm): (T)
                                                                  Val=1.76, Plg=68, Azm=2; (N) Val=0.47, Plg=4, Azm=101; (P)
                                                                  Val=-2.23, Plg=22, Azm=192; Best double couple:
                                                                  Mo=2.0*10**17 Nm; NP1: Strike=289, Dip=23, Slip=99; NP2:
                                                                  Strike=99, Dip=67, Slip=86.
19  08 32 04.2& 18.040 N   68.530 W   84                     8  MONA PASSAGE. <MPR>. MD 3.5 (MPR).
19  09 45 53.4* 25.362 N   94.673 E  105 ?  4.2       0.4   12  MYANMAR-INDIA BORDER REGION
19  09 54 15.3&  4.497 N   75.686 W    6                     7  COLOMBIA. <RSNC>. ML 2.9 (RSNC).
19  10 25 50.6? 15.53  S  167.57  E  126 ?  4.3       1.2   30  VANUATU ISLANDS
19  10 37 09.2? 17.86  N  147.90  E   33 N  3.3       1.0    9  MARIANA ISLANDS REGION
19  11 14 30.2? 50.31  N   19.25  E    5 G            1.1    7  POLAND. ML 3.1 (WAR), 2.6 (VIE).
19  11 30 17.1* 22.706 N  143.106 E  144 ?  3.9       0.9   14  VOLCANO ISLANDS REGION
19  11 57 55.1& 14.999 N   60.489 W   52    4.3           37  WINDWARD ISLANDS. <FDF>. MD 4.0 (TRN), 3.8 (FDF). Felt (II)
                                                                 on Martinique.
19  12 27 31.2* 46.230 N   15.902 E    5 G            1.0    5  NORTHWESTERN BALKAN REGION. ML 2.1 (VIE).
19  12 29 26.7& 38.409 N   30.414 E   10 G                    7  TURKEY. <ISK>. MD 3.2 (ISK).
19  15 09 15.6* 37.092 S  178.909 E   33 N  4.4       1.1    9  OFF E. COAST OF N. ISLAND, N.Z. ML 4.4 (WEL).
19  15 51 01.1   8.136 N  137.519 E   33 N  4.4       1.0   28  WESTERN CAROLINE ISLANDS
19  16 27 51.0& 33.200 N  115.987 W    6 G                   29  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS). MD 3.7 (ECX).
19  16 39 40.3& 33.124 S   70.282 W    3                     9  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.5 (GUC).
19  16 44 34.6*  3.075 N  125.824 E   33 N  4.4       0.7   12  TALAUD ISLANDS, INDONESIA
19  16 58 55.1& 34.838 N  118.947 W   13                    32  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS). Felt in the
                                                                 Frazier Park area.
19  17 07 06.1? 45.90  N   10.66  E   10 G            0.4    5  NORTHERN ITALY. ML 2.4 (VIE).
19  17 14 36.5& 35.626 S   71.513 W   97                   12  CENTRAL CHILE. <GUC>. MD 2.9 (GUC).
19  17 22 42.5& 44.768 N    7.774 E    0                    7  NORTHERN ITALY. <GEN>. ML 1.8 (GEN).
19  17 23 35.0* 17.828 S  168.658 E   10 G  4.3       1.2    8  VANUATU ISLANDS
19  18 00 13.3  38.631 N   44.524 E   66 *  4.5       1.4   48  TURKEY-IRAN BORDER REGION. Felt in Khvoy, Iran.
19  18 16 28.7   8.590 S  111.315 E   89 *  4.9       1.0   65  JAWA, INDONESIA
19  18 32 35.5& 42.750 N    1.860 E    2 G                   15  PYRENEES. <STR>. ML 3.0 (STR), 2.7 (LDG).
19  19 07 37.1  85.620 N   85.829 E   10 G  4.7       1.0   68  NORTH OF SEVERNAYA ZEMLYA
19  19 10 00.5  85.573 N   87.037 E   10 G  5.1 5.0   0.9  146  NORTH OF SEVERNAYA ZEMLYA. Mw 5.4 (HRV).
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  19:10:03.6; Lat 85.79 N; Lon 88.55 E; Dep 15.0 Fix; Half-
                                                                  duration 1.1 sec; Principal axes (scale 10**17 Nm): (T)
                                                                  Val=1.15, Plg=19, Azm=210; (N) Val=0.02, Plg=17, Azm=115;
                                                                  (P) Val=-1.17, Plg=65, Azm=346; Best double couple:
                                                                  Mo=1.2*10**17 Nm; NP1: Strike=326, Dip=30, Slip=-55; NP2:
                                                                  Strike=107, Dip=66, Slip=-108.
19  21 01 05.3   5.212 N  126.836 E   90 *  4.7       0.8   46  MINDANAO, PHILIPPINE ISLANDS
19  21 05 18.8& 33.227 S   70.078 W  131                   11  CHILE-ARGENTINA BORDER REGION. <GUC>.
19  22 17 54.0& 46.800 N    7.200 E    2                   10  SWITZERLAND. <LDG>. ML 2.3 (LDG).
19  22 41 25.1   6.750 S  126.901 E  428 *  4.4       0.9   26  BANDA SEA
19  22 55 40.1  85.630 N   84.919 E   10 G  4.3       1.0   14  NORTH OF SEVERNAYA ZEMLYA
19  23 39 19.9& 18.500 N   67.420 W    9                    7  MONA PASSAGE. <MPR>. MD 2.8 (MPR).
20  00 17 02.0& 18.960 N   65.130 W  103                    9  PUERTO RICO REGION. <MPR>. MD 3.7 (MPR).
20  00 20 07.8& 38.600 N    1.640 W   15                    7  SPAIN. <MDD>. mbLg 1.7 (MDD).
20  00 33 42.2*  8.600 N  122.394 E   65 D  4.2       1.1   15  MINDANAO, PHILIPPINE ISLANDS
20  00 34 42.2& 42.326 N   18.928 E   10                   13  NORTHWESTERN BALKAN REGION. <PDG>. ML 2.8 (PDG).
20  00 42 57.5& 33.659 S   70.048 W   15                    7  CHILE-ARGENTINA BORDER REGION. <GUC>.
20  01 22 20.4& 36.440 N    3.160 W    4                   12  STRAIT OF GIBRALTAR. <MDD>. mbLg 2.2 (MDD).
20  01 58 08.2  35.510 N  141.818 E   33 N  5.0 5.2   1.3   78  NEAR EAST COAST OF HONSHU, JAPAN. Mw 5.5 (HRV).
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  01:58:07.3; Lat 35.37 N; Lon 142.25 E; Dep 15.0 Bdy; Half-
                                                                  duration 1.2 sec; Principal axes (scale 10**17 Nm): (T)
                                                                  Val=1.77, Plg=64, Azm=299; (N) Val=0.08, Plg=4, Azm=201;
                                                                  (P) Val=-1.85, Plg=25, Azm=109; Best double couple:
                                                                  Mo=1.8*10**17 Nm; NP1: Strike=190, Dip=20, Slip=78; NP2:
                                                                  Strike=22, Dip=70, Slip=94.
20  02 30 42.2& 18.530 N   67.500 W   10                    6  MONA PASSAGE. <MPR>. MD 2.7 (MPR).
20  02 32 50.0?  5.85  S  152.40  E   33 N            1.5    5  NEW BRITAIN REGION, P.N.G.
20  02 38 42.7& 42.329 N   18.926 E    6                    9  NORTHWESTERN BALKAN REGION. <PDG>. ML 1.3 (PDG).
20  02 43 06.8& 40.122 N   28.134 E    5                    7  TURKEY. <ISK>. MD 2.9 (ISK).
20  02 53 43.9  21.733 N  121.874 E  197 *  4.8       1.1  107  TAIWAN REGION. Felt (II JMA) at Kao-hsiung and (I JMA) at
                                                                 Chia-i and Tai-nan. Felt in much of southern Taiwan.
20  04 07 04.4& 37.660 N    2.260 W    0 G                    6  SPAIN. <MDD>. mbLg 1.4 (MDD).
20  04 25 45.5* 85.540 N   80.137 E   10 G  3.8       1.5    6  NORTH OF SEVERNAYA ZEMLYA
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20  05 00 15.1   6.185 S  154.431 E   33 N  5.2 5.5  1.0  110  SOLOMON ISLANDS. Mw 5.7 (GS), 5.7 (HRV).
                                                               Moment Tensor (GS): Dep 25; Principal axes (scale 10**17
                                                                Nm): (T) Val=3.47, Plg=61, Azm=13; (N) Val=0.71, Plg=16,
                                                                Azm=133; (P) Val=-4.18, Plg=23, Azm=230; Best double
                                                                couple: Mo=3.8*10**17 Nm; NP1: Strike=349, Dip=26,
                                                                Slip=128; NP2: Strike=128, Dip=70, Slip=73.
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                05:00:19.3; Lat 6.44 S Fix; Lon 154.45 E Fix; Dep 52.6 Fix;
                                                                Half-duration 1.8 sec; Principal axes (scale 10**17 Nm):
                                                                (T) Val=3.86, Plg=80, Azm=15; (N) Val=0.49, Plg=3, Azm=121;
                                                                (P) Val=-4.35, Plg=10, Azm=211; Best double couple:
                                                                Mo=4.1*10**17 Nm; NP1: Strike=304, Dip=35, Slip=95; NP2:
                                                                Strike=119, Dip=55, Slip=87.
20  05 14 46.5& 40.789 N   27.554 E   13                   8  TURKEY. <ISK>. MD 3.0 (ISK).
20  05 37 06.5& 45.800 N    5.400 E    2                   5  FRANCE. <LDG>. ML 2.0 (LDG).
20  05 43 04.5? 20.11  S  177.84  W  500 G  4.3      1.0  13  FIJI ISLANDS REGION
20  07 09 37.6? 22.16  S  173.80  E   33 N  4.5      1.2  20  LOYALTY ISLANDS REGION
20  07 54 30.2? 20.44  S  172.52  E   33 N  4.1      1.1  12  VANUATU ISLANDS REGION
20  08 17 58.6  55.721 N  161.624 E   58 D  4.7      0.7  69  NEAR EAST COAST OF KAMCHATKA
20  08 54 11.3  34.605 N   24.743 E    5 G  4.0      1.1  30  CRETE. MD 4.0 (ATH).
20  09 06 42.7? 18.34  S  178.27  W  571 ?  4.2      0.6  15  FIJI ISLANDS REGION
20  09 28 42.2& 10.861 N   62.077 W   86                   5  NEAR COAST OF VENEZUELA. <TRN>.
20  10 11 21.3* 43.640 N  147.036 E   98 D  4.1      1.1  24  KURIL ISLANDS
20  10 50 12.7  35.380 N  142.094 E   33 N  4.8 5.0  1.2  67  OFF EAST COAST OF HONSHU, JAPAN. Mw 5.3 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                10:50:14.8; Lat 35.22 N; Lon 142.16 E; Dep 17.1; Half-
                                                                duration 1.3 sec; Principal axes (scale 10**16 Nm): (T)
                                                                Val=8.16, Plg=66, Azm=277; (N) Val=1.06, Plg=9, Azm=27; (P)
                                                                Val=-9.22, Plg=22, Azm=120; Best double couple:
                                                                Mo=8.7*10**16 Nm; NP1: Strike=226, Dip=24, Slip=111; NP2:
                                                                Strike=23, Dip=68, Slip=81.
20  10 54 28.3* 11.378 S   66.345 E   10 G  4.3      0.9   9  MID-INDIAN RIDGE
20  11 10 27.6& 44.352 N    7.135 E    7                  15  NORTHERN ITALY. <LDG>. ML 2.1 (LDG), 2.1 (GEN).
20  11 27 06.4*  7.034 S  148.128 E   33 N  3.7      1.2   9  EASTERN NEW GUINEA REG., P.N.G. ML 3.6 (PMG).
20  12 15 16.7& 32.853 S   70.160 W  108                  12  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
20  12 42 36.0  36.348 N   70.303 E  210 ?  3.9      0.9  25  HINDU KUSH REGION, AFGHANISTAN
20  12 47 01.3? 17.13  N  121.97  E   33 N  4.0      1.3   6  LUZON, PHILIPPINE ISLANDS
20  13 02 40.8* 12.781 S  166.551 E  150 G  3.9      1.0   9  SANTA CRUZ ISLANDS
20  13 38 42.7? 52.53  S  139.68  E   10 G  4.3      1.4  14  WEST OF MACQUARIE ISLAND
20  13 49 07.9? 36.35  N   71.42  E   33 N  4.2      1.1  12  AFGHANISTAN-TAJIKISTAN BORD REG.
20  14 26 28.4  35.059 N   23.289 E   67    4.0      1.1  36  CRETE. MD 3.7 (ATH).
20  15 55 39.3* 46.086 N  149.745 E  194 ?  4.5      0.9  17  KURIL ISLANDS
20  16 29 20.3& 32.268 S   71.765 W   10                   8  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.2 (GUC).
20  16 29 57.7  43.866 N  148.391 E   33 N  4.7      0.8  65  EAST OF KURIL ISLANDS
20  16 42 54.7? 27.34  N  140.87  E  360 ?  3.7      1.2  14  BONIN ISLANDS REGION
20  17 16 09.9& 34.346 S   71.397 W   55                   8  NEAR COAST OF CENTRAL CHILE. <GUC>.
20  17 17 08.4   8.115 S  117.826 E   33 N  5.2 4.5  1.4  48  SUMBAWA REGION, INDONESIA. Mw 5.4 (HRV). Felt (III) at
                                                                Sumbawa Besar.
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                17:17:10.6; Lat 8.27 S; Lon 118.23 E; Dep 65.1; Half-
                                                                duration 1.3 sec; Principal axes (scale 10**17 Nm): (T)
                                                                Val=1.57, Plg=3, Azm=260; (N) Val=-0.02, Plg=85, Azm=126;
                                                                (P) Val=-1.56, Plg=3, Azm=350; Best double couple:
                                                                Mo=1.6*10**17 Nm; NP1: Strike=35, Dip=85, Slip=0; NP2:
                                                                Strike=125, Dip=90, Slip=-175.
20  17 24 20.4& 33.505 S   72.985 W   25                  17  OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.5 (GUC).
20  17 33 59.2& 33.521 S   72.946 W   26                  13  OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
20  17 47 12.3& 33.160 S   70.256 W    0                   8  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
20  17 48 10.0& 33.188 S   70.277 W    6                   9  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
20  18 36 45.8? 85.25  N   83.52  E   10 G  4.1      0.5   6  NORTH OF SEVERNAYA ZEMLYA
20  18 53 28.6   1.576 N  127.260 E  134 *  4.9      0.9  39  HALMAHERA, INDONESIA
20  19 22 [illegible]? 65.37  S  179.69  E   10 G  4.9      1.0  15  BALLENY ISLANDS REGION. Mw 5.4 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                19:22:10.4; Lat 65.84 S; Lon 179.95 W; Dep 15.0 Fix; Half-
                                                                duration 1.0 sec; Principal axes (scale 10**17 Nm): (T)
                                                                Val=1.40, Plg=16, Azm=8; (N) Val=-0.32, Plg=71, Azm=155;
                                                                (P) Val=-1.09, Plg=10, Azm=275; Best double couple:
                                                                Mo=1.2*10**17 Nm; NP1: Strike=51, Dip=71, Slip=175; NP2:
                                                                Strike=142, Dip=85, Slip=19.
20  19 41 18.8& 45.000 N    3.400 E    2                  28  FRANCE. <LDG>. ML 3.0 (LDG).
20  20 02 48.4* 34.540 N   24.716 E    5 G  3.6      1.4   9  CRETE. MD 3.8 (ATH).
20  20 04 47.8* 51.467 N   16.041 E    5 G           0.3  11  POLAND. ML 3.4 (VIE).
20  20 16 38.2& 57.195 N  136.308 W    0 G                   7  SOUTHEASTERN ALASKA. <PGC-P>. ML 3.8 (PGC).
20  20 30 22.7& 37.040 N    5.200 W    3                   8  SPAIN. <MDD>. mbLg 1.5 (MDD).
20  21 25 39.1? 51.75  N  179.75  W   70 G  3.8      0.6   7  ANDREANOF ISLANDS, ALEUTIAN IS.
20  22 24 04.0& 44.486 N    6.990 E   11                   7  FRANCE. <GEN>. ML 1.8 (GEN).
20  22 40 51.1* 12.681 N  143.081 E   33 N  4.4      1.1  14  SOUTH OF MARIANA ISLANDS
20  22 51 28.1& 44.467 N    6.870 E    1                   4  FRANCE. <GEN>. ML 1.6 (GEN).
20  23 23 00.7& 44.452 N    6.884 E    0                   6  FRANCE. <GEN>. ML 1.6 (GEN).
20  23 28 49.4& 15.029 N   60.529 W   33                   9  LEEWARD ISLANDS. <FDF>. MD 3.0 (FDF).
21  00 13 21.2  37.281 N   21.004 E   44    3.9      1.4  75  SOUTHERN GREECE. MD 4.1 (ATH).
21  00 33 21.9? 23.14  N  141.23  E   33 N  4.2      1.5  13  VOLCANO ISLANDS REGION
21  01 51 22.4* 37.614 N  140.092 E   10 G  4.0      1.4  19  EASTERN HONSHU, JAPAN. Felt (III JMA) in central Fukushima
                                                                and (I JMA) in northern Niigata and eastern Tochigi
                                                                Prefectures.
21  02 37 49.3* 55.762 N  110.461 E   10 G  3.5      1.4   9  LAKE BAYKAL REGION, RUSSIA
21  02 51 49.2* 31.320 N   69.964 E   33 N  4.0      0.9  13  PAKISTAN
21  03 21 51.0   8.198 S  149.357 E   61 *  4.5      0.9  29  EASTERN NEW GUINEA REG., P.N.G.
21  03 27 18.2& 44.467 N    6.845 E    7                  20  FRANCE. <GEN>. ML 2.1 (GEN), 1.8 (STR), 1.7 (LDG).
21  03 33 22.6& 60.301 N  140.886 W    2                  36  SOUTHEASTERN ALASKA. <AEIC>. ML 3.0 (AEIC), 3.2 (PGC).
21  03 44 57.5* 17.664 S  180.000 W  671 ?  4.1      0.5  29  FIJI ISLANDS
21  03 51 44.8* 52.445 N  171.260 W   33 N  4.1      1.1  26  FOX ISLANDS, ALEUTIAN ISLANDS
21  03 52 03.6  55.889 N  110.332 E   10 G  4.7 4.8  1.0  45  LAKE BAYKAL REGION, RUSSIA. Felt (III) at Bodaybo, Kichera
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													and Nizhneangarsk; (II) at Severobaykalsk.
21	03	53	14.1*	55.932	N	110.535	E	10 G	4.4	1.2	18		LAKE BAYKAL REGION, RUSSIA
21	04	11	28.3	46.049	N	14.776	E	10 G		0.3	10		NORTHWESTERN BALKAN REGION. ML 2.5 (VIE).
21	04	36	16.1&	47.600	N	7.600	E	2			6		SWITZERLAND. <LDG>. ML 2.0 (LDG).
21	04	47	08.6&	40.495	N	111.359	W	13			20		UTAH. <SLC-P>. ML 2.8 (SLC).
21	04	50	56.2&	31.849	S	69.833	W	137			10		SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 3.2 (GUC).
21	05	32	09.9&	4.471	N	75.744	W	3			10		COLOMBIA. <RSNC>. ML 3.6 (RSNC).
21	05	57	42.7&	4.458	N	75.672	W	5			6		COLOMBIA. <RSNC>. ML 2.7 (RSNC).
21	06	34	59.1?	18.81	S	169.25	E	246 *	3.9	1.2	11		VANUATU ISLANDS
21	07	28	14.4&	34.248	S	70.090	W	7			9		CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.5 (GUC).
21	07	40	11.5?	20.89	S	174.18	W	33 N	4.3	0.8	13		TONGA ISLANDS
21	07	47	44.8*	28.467	S	178.609	W	33 N	4.2	0.9	15		KERMADEC ISLANDS REGION
21	10	01	42.0*	45.451	N	26.594	E	100 G		0.8	8		ROMANIA
21	10	09	03.0&	4.457	N	75.729	W	4			8		COLOMBIA. <RSNC>. ML 2.6 (RSNC).
21	10	34	52.1*	30.845	S	117.959	E	10 G		0.1	5		WESTERN AUSTRALIA
21	10	42	06.2&	49.800	N	6.800	E	2			13		GERMANY. <LDG>. ML 2.5 (LDG), 2.0 (FBB).
21	11	04	12.5&	44.469	N	6.897	E	8			6		FRANCE. <GEN>. ML 1.8 (GEN).
21	11	04	55.6&	37.530	N	21.420	E	10			6		SOUTHERN GREECE. <ATH>. MD 3.4 (ATH).
21	11	18	52.4	38.943	S	74.896	W	33 N	4.8 4.1	0.8	48		OFF COAST OF CENTRAL CHILE
21	11	58	10.9&	34.097	S	70.552	W	105			11		CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.7 (GUC).
21	12	00	42.6&	44.345	N	7.458	E	15			5		NORTHERN ITALY. <GEN>. ML 1.7 (GEN).
21	12	39	33.6&	31.832	S	70.294	W	131			13		CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.5 (GUC).
21	13	09	53.3*	63.034	N	151.269	W	33 N		1.1	6		CENTRAL ALASKA. ML 2.5 (PMR).
21	13	20	44.5*	51.482	N	174.919	W	33 N	3.9	1.3	10		ANDREANOF ISLANDS, ALEUTIAN IS.
21	13	40	42.7&	44.467	N	6.855	E	2			26		FRANCE. <GEN>. ML 2.7 (GEN), 2.6 (STR), 2.3 (LDG).
21	14	07	33.7?	13.60	N	91.80	W	33 N	4.0	1.1	17		NEAR COAST OF GUATEMALA
21	14	35	51.6*	4.686	N	95.795	E	33 N	4.3	1.1	14		NORTHERN SUMATERA, INDONESIA
21	15	16	53.4&	39.397	N	28.550	E	10 G			4		TURKEY. <ISK>. MD 2.8 (ISK).
21	15	47	03.9*	2.179	S	100.663	E	33 N	4.5	0.6	15		SOUTHERN SUMATERA, INDONESIA
21	15	48	25.6*	55.821	N	110.406	E	10 G	4.0	1.4	13		LAKE BAYKAL REGION, RUSSIA
21	16	18	41.0	46.033	N	14.770	E	10 G		0.8	9		NORTHWESTERN BALKAN REGION. ML 2.1 (VIE), 1.5 (LJU).
21	16	50	00.0*	31.045	N	115.656	W	5 G	4.0	1.1	18		BAJA CALIFORNIA, MEXICO
21	17	02	36.9&	38.720	N	0.730	W	30			6		SPAIN. <MDD>. mbLg 1.9 (MDD).
21	17	08	23.7	35.597	N	142.022	E	33 N	4.6	1.1	47		OFF EAST COAST OF HONSHU, JAPAN
21	17	47	57.4	36.538	N	31.001	E	88	4.1	1.1	70		TURKEY. MD 3.9 (ISK).
21	18	14	37.9	43.214	N	46.825	E	65 *	5.1	1.2	252		EASTERN CAUCASUS. Mw 5.3 (HRV). At least one person killed, 20 injured and several homes badly damaged (VI) in the Kizilyurt area. Felt (VI) at Dylym; (V) at Makhachkala and Novolakskoye; (IV) at Gunib, Khasavyurt and Khunzakh; (III) at Pyatigorsk and Sergokala. Centroid, Moment Tensor (HRV): Centroid origin time 18:14:36.6; Lat 43.45 N; Lon 47.19 E; Dep 32.7; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.06, Plg=68, Azm=262; (N) Val=0.15, Plg=15, Azm=129; (P) Val=-1.20, Plg=15, Azm=34; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=103, Dip=33, Slip=61; NP2: Strike=317, Dip=62, Slip=108.
21	18	43	26.3&	44.471	N	6.861	E	3			22		FRANCE. <GEN>. ML 2.3 (GEN), 2.0 (STR), 1.8 (LDG).
21	18	54	40.5	85.629	N	83.547	E	10 G	4.6	1.2	31		NORTH OF SEVERNAYA ZEMLYA
21	19	02	40.6*	85.608	N	84.627	E	10 G	3.8	0.8	11		NORTH OF SEVERNAYA ZEMLYA
21	19	08	31.8&	32.744	S	71.844	W	25			13		NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
21	20	02	21.8?	37.71	S	178.63	E	10 G	4.5	1.4	17		OFF E. COAST OF N. ISLAND, N.Z. ML 4.8 (WEL).
21	20	48	19.7&	44.476	N	6.879	E	1			4		FRANCE. <GEN>. ML 1.7 (GEN).
21	21	04	06.8*	26.414	N	93.662	E	33 N	4.0	1.1	10		NORTHEASTERN INDIA
21	21	05	22.4&	44.473	N	6.878	E	3			10		FRANCE. <GEN>. ML 2.2 (GEN).
21	21	31	44.4&	33.284	S	71.972	W	19			13		NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
21	21	40	54.5*	85.374	N	88.751	E	10 G	3.6	0.5	5		NORTH OF SEVERNAYA ZEMLYA
21	21	50	53.6	52.586	N	168.545	W	33 N	4.3	0.9	27		FOX ISLANDS, ALEUTIAN ISLANDS
21	22	06	18.9	7.839	N	72.629	W	78 ?	4.1	1.3	29		NORTHERN COLOMBIA
21	22	34	50.3	6.807	N	73.004	W	167	4.1	0.9	41		NORTHERN COLOMBIA
21	23	03	11.3&	34.041	S	70.358	W	9			10		CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
21	23	26	56.2*	85.389	N	85.339	E	10 G	3.6	1.3	9		NORTH OF SEVERNAYA ZEMLYA
21	23	50	30.9&	45.600	N	5.600	E	2			11		FRANCE. <LDG>. ML 2.1 (LDG), 2.1 (STR).
22	00	26	08.0&	38.850	N	0.650	W	15			7		SPAIN. <MDD>. mbLg 2.2 (MDD).
22	01	00	32.8	21.452	S	169.682	E	33 N	5.8 6.4	1.0	293		LOYALTY ISLANDS REGION. Mw 6.4 (GS), 6.4 (HRV). Me 6.3 (GS). Broadband Source Parameters (GS): Dep 23; NP1: Strike=160, Dip=82, Slip=90; NP2: Strike=340, Dip=8, Slip=90; Radiated energy 6.3*10**13 Nm. Moment Tensor (GS): Dep 23; Principal axes (scale 10**18 Nm): (T) Val=4.41, Plg=44, Azm=46; (N) Val=-0.02, Plg=23, Azm=160; (P) Val=-4.38, Plg=37, Azm=268; Best double couple: Mo=4.4*10**18 Nm; NP1: Strike=60, Dip=23, Slip=171; NP2: Strike=158, Dip=86, Slip=67. Centroid, Moment Tensor (HRV): Centroid origin time 01:00:39.7; Lat 21.38 S; Lon 169.45 E; Dep 28.0; Half-duration 3.6 sec; Principal axes (scale 10**18 Nm): (T) Val=4.56, Plg=57, Azm=71; (N) Val=0.00, Plg=2, Azm=163; (P) Val=-4.57, Plg=33, Azm=255; Best double couple: Mo=4.6*10**18 Nm; NP1: Strike=351, Dip=12, Slip=98; NP2: Strike=163, Dip=78, Slip=88. Scalar Moment (PPT): Mo=3.5*10**18 Nm.
22	01	11	50.7*	21.546	S	169.697	E	33 N		1.3	13		LOYALTY ISLANDS REGION
22	02	10	00.3?	50.01	N	153.24	E	300 G	3.9	1.0	16		KURIL ISLANDS
22	02	25	23.7*	3.181	S	135.853	E	33 N	4.3	0.9	8		IRIAN JAYA REGION, INDONESIA
22	03	21	15.1*	21.876	S	169.777	E	33 N	4.1	1.0	18		LOYALTY ISLANDS REGION
22	04	44	59.9?	35.99	N	71.20	E	33 N	4.0	1.3	10		PAKISTAN
22	04	49	39.8&	36.980	N	20.940	E	5			8		CENTRAL MEDITERRANEAN SEA. <ATH>. MD 3.0 (ATH).
22	04	54	07.8	34.135	N	25.712	E	10 G	4.4	1.3	105		CRETE. MD 4.2 (ATH).
22	04	56	26.8&	60.034	N	153.023	W	119			52		SOUTHERN ALASKA. <AEIC>.
22	05	39	27.9&	36.580	N	7.150	W	10			17		STRAIT OF GIBRALTAR. <MDD>. mbLg 2.1 (MDD).
22	05	55	56.6&	34.261	S	70.867	W	80			13		CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.9 (GUC).
22	07	52	57.6	43.085	N	17.449	E	10 G	3.3	0.6	18		NORTHWESTERN BALKAN REGION. ML 3.0 (PDG).
22	08	02	11.1	86.278	N	73.394	E	10 G	5.2 4.8	0.9	164		NORTH OF SEVERNAYA ZEMLYA. Mw 5.2 (HRV).

													Centroid, Moment Tensor (HRV): Centroid origin time 08:02:13.8; Lat 86.28 N Fix; Lon 73.39 E Fix; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=8.04, Plg=3, Azm=31; (N) Val=-0.22, Plg=10, Azm=121; (P) Val=-7.82, Plg=79, Azm=287; Best double couple: Mo=7.9*10**16 Nm; NP1: Strike=110, Dip=43, Slip=-105; NP2: Strike=311, Dip=49, Slip=-76.
22	08	02	21.8&	44.459	N	6.889	E	3				21	FRANCE. <GEN>. ML 2.4 (GEN), 2.0 (STR), 1.9 (LDG).
22	08	07	33.1&	33.379	S	72.579	W	30				16	OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.2 (GUC).
22	09	17	22.2*	21.523	S	169.802	E	33	N	3.9	1.3	14	LOYALTY ISLANDS REGION
22	10	10	11.5*	21.499	S	169.670	E	33	N	3.9	1.3	17	LOYALTY ISLANDS REGION
22	10	34	02.1&	44.560	N	4.680	E	2				4	FRANCE. <STR>. ML 2.3 (STR).
22	10	44	27.6&	62.424	N	148.131	W	24				54	CENTRAL ALASKA. <AEIC>. ML 2.6 (AEIC).
22	10	50	33.0*	35.804	N	77.572	E	44	D	4.2	1.2	17	EASTERN KASHMIR
22	11	13	03.0*	21.481	S	169.722	E	33	N	4.2	1.3	19	LOYALTY ISLANDS REGION
22	11	37	49.4	23.307	N	93.722	E	65	D	5.1	0.8	122	MYANMAR-INDIA BORDER REGION. Mw 5.0 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 11:37:53.3; Lat 23.15 N; Lon 93.99 E; Dep 51.0; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=3.95, Plg=11, Azm=326; (N) Val=0.53, Plg=7, Azm=57; (P) Val=-4.48, Plg=77, Azm=180; Best double couple: Mo=4.2*10**16 Nm; NP1: Strike=47, Dip=35, Slip=-103; NP2: Strike=242, Dip=56, Slip=-81.
22	11	42	58.7&	34.294	S	72.620	W	15				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.1 (GUC).
22	12	38	35.5&	34.282	S	72.617	W	20				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
22	12	50	49.3&	57.835	N	156.452	W	0		3.8		104	ALASKA PENINSULA. <AEIC>. ML 4.2 (AEIC).
22	13	04	53.9&	36.710	N	6.250	W	7				10	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.7 (MDD).
22	13	10	01.9&	37.260	N	21.490	E	5				9	SOUTHERN GREECE. <ATH>. ML 3.3 (ATH).
22	13	13	11.0&	32.519	S	70.240	W	109				13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.7 (GUC).
22	13	33	20.0	43.243	N	47.106	E	33	N	4.5	1.4	31	EASTERN CAUCASUS. Felt (IV) at Makhachkala.
22	13	35	14.5*	85.949	N	78.572	E	10	G	3.9	0.8	7	NORTH OF SEVERNAYA ZEMLYA
22	13	49	00.8	24.115	N	122.646	E	43		5.4 5.6	1.1	158	TAIWAN REGION. Mw 5.9 (HRV), 5.8 (GS). Me 5.0 (GS). Felt (III JMA) at I-lan; (II JMA) at Hua-lien and Taipei; (I JMA) at Chia-i, Kao-hsiung, Tai-chung, Tai-nan and Tai-tung. Also felt (II JMA) on Iriomote-jima and Yonaguni-jima, Ryukyu Islands. Broadband Source Parameters (GS): Dep 28; NP1: Strike=345, Dip=30, Slip=-165; NP2: Strike=242, Dip=83, Slip=-61; Radiated energy 7.9*10**11 Nm. Moment Tensor (GS): Dep 34; Principal axes (scale 10**17 Nm): (T) Val=5.69, Plg=65, Azm=308; (N) Val=-0.59, Plg=12, Azm=65; (P) Val=-5.10, Plg=22, Azm=159; Best double couple: Mo=5.4*10**17 Nm; NP1: Strike=271, Dip=25, Slip=119; NP2: Strike=60, Dip=68, Slip=77. Centroid, Moment Tensor (HRV): Centroid origin time 13:49:02.6; Lat 23.92 N Fix; Lon 122.50 E Fix; Dep 36.9; Half-duration 2.3 sec; Principal axes (scale 10**17 Nm): (T) Val=7.70, Plg=61, Azm=311; (N) Val=0.71, Plg=17, Azm=74; (P) Val=-8.41, Plg=23, Azm=171; Best double couple: Mo=8.1*10**17 Nm; NP1: Strike=291, Dip=27, Slip=130; NP2: Strike=68, Dip=70, Slip=72.
22	13	49	42.6*	85.694	N	78.978	E	10	G	3.6	0.4	6	NORTH OF SEVERNAYA ZEMLYA
22	14	12	58.0&	59.995	N	152.812	W	106		2.6		40	SOUTHERN ALASKA. <AEIC>.
22	14	45	51.9*	30.082	N	140.978	E	33	N	4.1	1.0	13	SOUTH OF HONSHU, JAPAN
22	14	54	28.0&	44.469	N	6.856	E	5				27	FRANCE. <GEN>. ML 2.7 (GEN), 2.3 (STR), 2.2 (LDG).
22	16	09	23.2&	44.472	N	6.884	E	5				6	FRANCE. <GEN>. ML 1.8 (GEN).
22	17	05	31.0&	59.552	N	153.134	W	116		3.5		121	SOUTHERN ALASKA. <AEIC>.
22	17	06	55.8	34.601	N	70.906	E	33	N	4.5	1.3	30	AFGHANISTAN
22	17	22	49.1&	48.300	N	0.800	E	4				19	FRANCE. <LDG>. ML 3.1 (LDG).
22	17	40	01.9*	46.051	N	14.786	E	10	G		0.2	5	NORTHWESTERN BALKAN REGION. ML 1.9 (VIE).
22	17	58	18.2?	18.08	N	146.77	E	200	G	3.6	1.4	14	MARIANA ISLANDS
22	18	04	38.3	27.070	N	126.937	E	66	D	4.4	1.3	22	NORTHWEST OF RYUKYU ISLANDS. Felt (I JMA) on Kume-jima.
22	18	10	06.9	6.082	S	146.285	E	33	N	4.2	1.3	28	EASTERN NEW GUINEA REG., P.N.G.
22	18	38	09.0	28.076	N	53.372	E	33	N	4.5 4.1	1.0	41	SOUTHERN IRAN
22	19	31	45.3&	39.607	N	29.053	E	8				5	TURKEY. <ISK>. MD 2.8 (ISK).
22	19	41	03.2*	12.776	N	125.261	E	33	N	4.3	1.1	8	SAMAR, PHILIPPINE ISLANDS
22	19	45	50.5	3.204	N	127.774	E	33	N	4.6	1.1	34	TALAUD ISLANDS, INDONESIA
22	20	04	44.0&	33.882	S	70.549	W	92				7	CHILE-ARGENTINA BORDER REGION. <GUC>.
22	20	06	58.6*	3.140	S	130.027	E	33	N	4.0	0.8	13	SERAM, INDONESIA
22	20	36	02.0&	53.531	N	167.046	W	2				6	FOX ISLANDS, ALEUTIAN ISLANDS. <AEIC>. ML 3.2 (AEIC).
22	21	02	41.5	27.220	N	126.941	E	33	N	4.5	1.2	16	NORTHWEST OF RYUKYU ISLANDS. Felt (I JMA) on Kume-jima.
22	21	06	36.3	34.487	N	32.725	E	33	N	4.5	1.1	107	CYPRUS REGION. ML 4.7 (GII), 4.3 (CSS). MD 4.3 (ISK). Felt (IV) at Limassol and (II) at Larnaca.
22	22	36	19.1?	21.38	S	169.55	E	33	N	4.0	1.1	13	LOYALTY ISLANDS REGION
22	22	44	20.7&	33.594	S	72.843	W	4				9	OFF COAST OF CENTRAL CHILE. <GUC>.
22	23	07	40.2	28.614	S	67.710	W	135			1.2	33	LA RIOJA PROVINCE, ARGENTINA
22	23	20	26.8&	34.669	N	32.795	E	10				7	CYPRUS REGION. <CSS>. ML 3.5 (CSS).
22	23	26	17.1&	40.516	N	123.634	W	28				5	NORTHERN CALIFORNIA. <GM-P>. MD 3.3 (GM). ML 3.2 (BRK).
22	23	54	37.1&	39.059	N	27.617	E	7				4	TURKEY. <ISK>. MD 2.7 (ISK).
23	00	26	24.7?	7.91	N	93.38	E	33	N	4.3	1.4	5	NICOBAR ISLANDS, INDIA
23	01	49	18.9	49.191	N	7.064	E	10	G		0.5	7	GERMANY. ML 2.5 (FBB). Mining induced event in the Lorraine region, France.
23	01	51	42.8&	31.869	S	72.077	W	26				10	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).
23	01	55	20.5&	31.893	S	72.100	W	30				9	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).
23	02	35	00.6*	35.837	N	1.676	W	10	G		0.9	19	NORTHERN ALGERIA. mbLg 2.6 (MDD).
23	02	39	54.1*	21.883	S	169.813	E	33	N	4.0	1.3	12	LOYALTY ISLANDS REGION
23	02	42	04.9?	24.83	S	69.24	E	10	G	4.1	1.4	7	MID-INDIAN RIDGE
23	02	47	16.6&	36.760	N	2.730	W	7				7	STRAIT OF GIBRALTAR. <MDD>. mbLg 1.7 (MDD).
23	03	10	36.3&	36.860	N	3.750	W	0				10	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.0 (MDD).
23	03	13	30.0&	44.473	N	6.888	E	5				5	FRANCE. <GEN>. ML 1.9 (GEN).
23	03	14	24.6&	44.479	N	6.874	E	2				5	FRANCE. <GEN>. ML 1.8 (GEN).
23	03	18	11.1&	44.468	N	6.896	E	4				8	FRANCE. <GEN>. ML 2.0 (GEN).
23	03	20	41.0&	37.080	N	112.330	W	10				11	UTAH. <SLC-P>. ML 3.1 (SLC).

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23  04 03 50.0* 12.802 S  166.721 E  123 ?  4.5       1.0   20  SANTA CRUZ ISLANDS
23  04 06 54.7* 30.526 N   66.320 E   10 G  4.0       0.8    8  PAKISTAN
23  04 52 40.5& 38.720 N   21.210 E    9                     4  GREECE. <ATH>. MD 2.9 (ATH).
23  05 02 44.1  50.981 N  168.195 W   33 N  4.4       1.3   42  SOUTH OF ALEUTIAN ISLANDS
23  05 04 06.0& 39.192 N   27.294 E   10 G                    4  TURKEY. <ISK>. MD 2.7 (ISK).
23  05 46 01.5*  8.972 S  112.665 E   33 N  5.0 4.2   1.1   66  JAWA, INDONESIA
23  06 56 14.8  34.059 N   74.443 E   33 N  4.9       0.9   60  SOUTHWESTERN KASHMIR
23  06 56 37.9& 46.600 N    4.400 E    9                     4  FRANCE. <LDG>. ML 1.6 (LDG).
23  07 12 11.8   5.647 S  150.947 E   71     5.1       0.9   66  NEW BRITAIN REGION, P.N.G.
23  07 27 56.4   0.200 N  119.541 E   33 N  5.6 5.8   1.0  151  MINAHASSA PENINSULA, SULAWESI. Mw 6.2 (GS), 6.1 (HRV). Me
                                                                 6.2 (GS). Felt (IV) at Palu.
                                                                Broadband Source Parameters (GS): Dep 17; NP1: Strike=215,
                                                                 Dip=75, Slip=60; NP2: Strike=101, Dip=33, Slip=152;
                                                                 Radiated energy 4.9*10**13 Nm.
                                                                Moment Tensor (GS): Dep 14; Principal axes (scale 10**18
                                                                 Nm): (T) Val=2.02, Plg=23, Azm=74; (N) Val=0.02, Plg=62,
                                                                 Azm=219; (P) Val=-2.04, Plg=14, Azm=338; Best double
                                                                 couple: Mo=2.0*10**18 Nm; NP1: Strike=114, Dip=63,
                                                                 Slip=173; NP2: Strike=207, Dip=84, Slip=27.
                                                                Centroid, Moment Tensor (HRV): Centroid origin time
                                                                 07:28:00.9; Lat 0.47 N; Lon 119.85 E; Dep 17.6 Fix; Half-
                                                                 duration 2.6 sec; Principal axes (scale 10**18 Nm): (T)
                                                                 Val=1.05, Plg=43, Azm=71; (N) Val=0.64, Plg=42, Azm=219;
                                                                 (P) Val=-1.68, Plg=17, Azm=325; Best double couple:
                                                                 Mo=1.4*10**18 Nm; NP1: Strike=97, Dip=46, Slip=157; NP2:
                                                                 Strike=204, Dip=74, Slip=46.
23  07 41 04.3& 48.700 N    1.200 W    6                     7  FRANCE. <LDG>. ML 2.0 (LDG).
23  07 43 54.3  33.540 N   34.398 E   33 N          0.8   21  EASTERN MEDITERRANEAN SEA. ML 3.5 (CSS).
23  08 01 44.4?  9.56  N  126.03  E   33 N  4.0       1.0    6  MINDANAO, PHILIPPINE ISLANDS
23  08 05 51.4  12.961 N  144.076 E  102    4.9       0.8   52  SOUTH OF MARIANA ISLANDS
23  08 19 23.3* 85.301 N   85.418 E   10 G  4.2       1.1   15  NORTH OF SEVERNAYA ZEMLYA
23  09 01 40.7  53.893 N  171.104 E   33 N  4.8       0.9   72  NEAR ISLANDS, ALEUTIAN ISLANDS
23  09 45 31.3* 35.212 N   23.157 E   76 *  3.8       1.3   22  CRETE. MD 3.7 (ATH).
23  09 49 09.4& 45.610 N    3.110 E    2 G                    4  FRANCE. <STR>. ML 2.0 (STR).
23  09 55 22.7& 45.660 N    2.650 E    5                     6  FRANCE. <STR>. ML 2.3 (STR).
23  10 17 30.1? 52.09  N  178.42  E   33 N          1.5    6  RAT ISLANDS, ALEUTIAN ISLANDS
23  10 23 28.7? 21.38  S  169.60  E   33 N  4.0       1.4   13  LOYALTY ISLANDS REGION
23  11 45 41.9  12.774 S  166.704 E   84 D  5.0       1.2   62  SANTA CRUZ ISLANDS. Mw 5.4 (HRV).
                                                                Centroid, Moment Tensor (HRV): Centroid origin time
                                                                 11:45:46.7; Lat 12.83 S; Lon 166.47 E; Dep 89.6; Half-
                                                                 duration 1.2 sec; Principal axes (scale 10**17 Nm): (T)
                                                                 Val=1.27, Plg=31, Azm=269; (N) Val=0.09, Plg=58, Azm=71;
                                                                 (P) Val=-1.36, Plg=8, Azm=174; Best double couple:
                                                                 Mo=1.3*10**17 Nm; NP1: Strike=307, Dip=62, Slip=163; NP2:
                                                                 Strike=45, Dip=75, Slip=29.
23  12 02 25.1? 52.36  N  179.04  W   33 N  3.5       1.1    5  ANDREANOF ISLANDS, ALEUTIAN IS.
23  12 23 43.6  53.785 N  171.134 E   24 D  4.9 4.4   1.0   91  NEAR ISLANDS, ALEUTIAN ISLANDS. Mw 5.3 (HRV).
                                                                Centroid, Moment Tensor (HRV): Centroid origin time
                                                                 12:23:45.0; Lat 54.03 N; Lon 171.92 E; Dep 15.0 Fix; Half-
                                                                 duration 1.0 sec; Principal axes (scale 10**17 Nm): (T)
                                                                 Val=1.17, Plg=42, Azm=267; (N) Val=-0.44, Plg=39, Azm=130;
                                                                 (P) Val=-0.73, Plg=23, Azm=20; Best double couple:
                                                                 Mo=9.5*10**16 Nm; NP1: Strike=63, Dip=41, Slip=18; NP2:
                                                                 Strike=320, Dip=79, Slip=130.
23  12 27 39.9? 30.23  N  138.69  E  439 ?  3.9       0.6   11  SOUTH OF HONSHU, JAPAN
23  12 28 18.5& 32.555 S   71.534 W   14                    11  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
23  12 55 36.9  41.982 S  172.961 E   33 N          0.8    8  SOUTH ISLAND, NEW ZEALAND. ML 4.0 (WEL).
23  13 23 23.6* 52.846 N  162.630 E   33 N  4.3       1.1   17  OFF EAST COAST OF KAMCHATKA
23  13 51 59.7* 12.138 N   95.829 E   33 N  4.4       1.1    7  ANDAMAN ISLANDS, INDIA
23  15 20 04.1& 32.614 S   71.507 W   30                    9  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
23  16 14 31.0? 33.06  S  179.96  E  483 ?  4.1       1.3   22  SOUTH OF KERMADEC ISLANDS
23  16 20 54.3& 34.406 N   32.005 E   25                    6  CYPRUS REGION. <CSS>. ML 2.9 (CSS).
23  16 27 32.3* 22.254 N  142.864 E  319 ?  3.2       0.7    9  VOLCANO ISLANDS REGION
23  16 36 03.6& 33.178 S   70.301 W    5                    8  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.5 (GUC).
23  16 53 15.2& 43.100 N    5.980 E    1 G                   11  NEAR SOUTH COAST OF FRANCE. <STR>. ML 2.7 (STR).
23  16 57 27.2& 47.600 N    1.400 W    2                    7  FRANCE. <LDG>. ML 2.3 (LDG).
23  17 14 26.5* 37.031 N  125.828 E   33 N          1.2    8  SOUTH KOREA
23  17 19 53.4& 10.950 N   61.906 W   50                    6  TRINIDAD. <TRN>. MD 3.6 (TRN).
23  17 35 28.6& 33.358 S   70.580 W   88                   12  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.9 (GUC).
23  17 41 26.1& 33.871 S   70.807 W   83                   13  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.5 (GUC).
23  18 04 09.0* 77.808 N   19.603 W   10 G  3.6       1.2   14  EASTERN GREENLAND
23  18 07 41.2& 60.409 N  152.940 W  139                   60  SOUTHERN ALASKA. <AEIC>.
23  18 40 35.7& 36.829 N   30.537 E    5                    7  TURKEY. <ISK>. MD 3.5 (ISK).
23  18 56 56.1  20.804 S  174.071 W   36 D  5.3 5.3   1.1  105  TONGA ISLANDS. Mw 5.5 (HRV).
                                                                Centroid, Moment Tensor (HRV): Centroid origin time
                                                                 18:56:58.3; Lat 21.01 S; Lon 173.36 W; Dep 15.0 Bdy; Half-
                                                                 duration 1.4 sec; Principal axes (scale 10**17 Nm): (T)
                                                                 Val=2.23, Plg=66, Azm=328; (N) Val=0.20, Plg=14, Azm=203;
                                                                 (P) Val=-2.43, Plg=19, Azm=108; Best double couple:
                                                                 Mo=2.3*10**17 Nm; NP1: Strike=177, Dip=29, Slip=60; NP2:
                                                                 Strike=30, Dip=65, Slip=105.
23  19 13 59.0& 48.340 N    8.950 E   10                   11  GERMANY. <FBB>. ML 1.7 (STR), 1.6 (FBB).
23  19 18 00.4  43.041 N   46.924 E   39 *  4.2       0.8   16  EASTERN CAUCASUS. Felt (III) at Makhachkala.
23  19 54 10.1* 21.503 S  169.585 E   33 N  4.6 5.1   1.3   48  LOYALTY ISLANDS REGION. Mw 5.2 (HRV).
                                                                Centroid, Moment Tensor (HRV): Centroid origin time
                                                                 19:54:13.2; Lat 21.26 S; Lon 169.24 E; Dep 50.9; Half-
                                                                 duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                 Val=7.61, Plg=7, Azm=292; (N) Val=-0.58, Plg=11, Azm=23;
                                                                 (P) Val=-7.03, Plg=77, Azm=167; Best double couple:
                                                                 Mo=7.3*10**16 Nm; NP1: Strike=9, Dip=39, Slip=-107; NP2:
                                                                 Strike=211, Dip=53, Slip=-77.
23  20 09 11.3* 51.111 N   15.776 E    5 G          0.6    9  POLAND. ML 3.5 (GRF), 3.1 (VIE), 3.1 (WAR).
23  20 14 24.2* 51.056 N   15.799 E    5 G          0.9    7  POLAND. ML 3.3 (VIE), 3.0 (WAR).
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23  20 26 03.9   9.825 N  125.576 E   33 N  4.4        0.9   24  MINDANAO, PHILIPPINE ISLANDS
23  20 32 38.5? 52.14  N  179.48  W  256 *             1.0    6  ANDREANOF ISLANDS, ALEUTIAN IS.
23  21 53 42.1? 20.38  S  178.39  W  587 ?  4.2        0.9   15  FIJI ISLANDS REGION
23  22 22 54.1& 53.166 N  162.076 W   73                       5  SOUTH OF ALASKA. <AEIC>.
23  22 49 23.3  40.510 N   21.359 E   10 G             1.1    6  GREECE. MD 3.2 (ATH).
23  23 53 04.2& 33.372 S   70.581 W   88                       9  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.7 (GUC).
24  00 12 07.2? 20.78  S  174.13  W   33 N  4.5        1.0   17  TONGA ISLANDS
24  00 18 45.7   2.044 N  127.385 E   86 D  5.3        0.9   87  NORTHERN MOLUCCA SEA. Mw 5.2 (HRV). Felt (III) on Ternate,
                                                                   Indonesia.
                                                                  Centroid, Moment Tensor (HRV): Centroid origin time
                                                                   00:18:50.2; Lat 2.30 N; Lon 127.74 E; Dep 97.6 Fix; Half-
                                                                   duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                   Val=8.50, Plg=42, Azm=161; (N) Val=-0.60, Plg=5, Azm=66;
                                                                   (P) Val=-7.90, Plg=48, Azm=331; Best double couple:
                                                                   Mo=8.2*10**16 Nm; NP1: Strike=305, Dip=6, Slip=-31; NP2:
                                                                   Strike=66, Dip=87, Slip=-95.
24  00 55 43.7  46.050 N   14.790 E   10 G             0.3    6  NORTHWESTERN BALKAN REGION. ML 1.3 (LJU).
24  01 03 11.1* 21.497 S  169.706 E   33 N  4.4        0.9   28  LOYALTY ISLANDS REGION
24  01 16 05.2* 35.422 N    0.004 E   10 G             0.8   22  NORTHERN ALGERIA. mbLg 2.5 (MDD).
24  01 43 00.9& 31.174 S   72.396 W   23                      11  OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.2 (GUC).
24  01 48 38.4& 54.721 N  161.425 W   17     3.7              63  ALASKA PENINSULA. <AEIC>. ML 4.2 (AEIC). Felt at King Cove.
24  02 37 17.0& 45.200 N    3.200 E    2                      13  FRANCE. <LDG>. ML 2.1 (LDG).
24  02 40 21.4  22.799 S   68.609 W  103 D  4.6        1.1   65  NORTHERN CHILE. Felt (IV) at Calama, Chuquicamata, Maria
                                                                   Elena, San Pedro and Toconao.
24  02 44 31.7?  4.73  S  151.81  E  167 *  4.6        0.8   11  NEW BRITAIN REGION, P.N.G.
24  03 31 13.2* 12.003 N   87.549 W   33 N  4.9        1.1   39  NEAR COAST OF NICARAGUA
24  03 33 11.0   4.389 N   75.765 W   10 G             0.6    8  COLOMBIA. ML 2.6 (RSNC).
24  05 10 38.3? 50.00  S  119.77  E   10 G  4.4        0.7    9  SOUTH OF AUSTRALIA
24  05 10 54.1& 33.477 S   72.934 W   13                      13  OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
24  05 14 34.9& 33.487 S   72.935 W   14                      11  OFF COAST OF CENTRAL CHILE. <GUC>.
24  05 18 54.2  18.053 N  146.523 E   33 N  5.4 5.6  0.9  154  MARIANA ISLANDS. Mw 5.8 (GS), 5.7 (HRV).
                                                                  Moment Tensor (GS): Dep 35; Principal axes (scale 10**17
                                                                   Nm): (T) Val=4.86, Plg=6, Azm=263; (N) Val=-0.16, Plg=7,
                                                                   Azm=353; (P) Val=-4.69, Plg=81, Azm=132; Best double
                                                                   couple: Mo=4.8*10**17 Nm; NP1: Strike=345, Dip=39,
                                                                   Slip=-101; NP2: Strike=179, Dip=51, Slip=-81.
                                                                  Centroid, Moment Tensor (HRV): Centroid origin time
                                                                   05:19:00.9; Lat 18.28 N; Lon 146.86 E; Dep 45.7; Half-
                                                                   duration 1.7 sec; Principal axes (scale 10**17 Nm): (T)
                                                                   Val=4.10, Plg=12, Azm=264; (N) Val=0.20, Plg=1, Azm=174;
                                                                   (P) Val=-4.30, Plg=78, Azm=78; Best double couple:
                                                                   Mo=4.2*10**17 Nm; NP1: Strike=356, Dip=33, Slip=-88; NP2:
                                                                   Strike=173, Dip=57, Slip=-91.
24  05 40 51.1?  5.28  S  146.96  E  182 *  4.6        0.8    9  EASTERN NEW GUINEA REG., P.N.G.
24  05 49 34.0  43.088 N   46.875 E   42     4.3        1.0   20  EASTERN CAUCASUS. Felt (IV) at Kizilyurt, Kulzeb and Novyy
                                                                   Chirkey; (III) at Makhachkala.
24  05 56 23.0& 33.477 S   72.959 W   24                      12  OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
24  06 20 52.7* 27.179 N  140.259 E  450 G  4.0        1.0   15  BONIN ISLANDS REGION
24  06 28 22.5& 40.770 N    3.680 W    5                       7  SPAIN. <MDD>. mbLg 2.4 (MDD).
24  06 36 07.1  53.534 N  160.398 E   33 N  4.3        0.7   27  NEAR EAST COAST OF KAMCHATKA
24  06 56 23.9& 61.769 N  150.677 W   45                      73  SOUTHERN ALASKA. <AEIC>. ML 3.3 (AEIC).
24  07 04 02.6& 36.936 N   30.554 E    5                       6  TURKEY. <ISK>. MD 3.3 (ISK).
24  07 20 48.0   3.367 N   96.039 E   33 N  5.0 4.5  1.0   53  NORTHERN SUMATERA, INDONESIA. Mw 5.4 (HRV).
                                                                  Centroid, Moment Tensor (HRV): Centroid origin time
                                                                   07:20:48.3; Lat 3.08 N; Lon 96.32 E; Dep 24.5; Half-
                                                                   duration 1.0 sec; Principal axes (scale 10**17 Nm): (T)
                                                                   Val=1.25, Plg=49, Azm=41; (N) Val=0.09, Plg=10, Azm=300;
                                                                   (P) Val=-1.34, Plg=39, Azm=202; Best double couple:
                                                                   Mo=1.3*10**17 Nm; NP1: Strike=237, Dip=11, Slip=27; NP2:
                                                                   Strike=121, Dip=85, Slip=100.
24  07 21 26.8? 34.81  N  141.12  E   33 N  3.7        1.2   10  OFF EAST COAST OF HONSHU, JAPAN. Felt (I JMA) in the Choshi
                                                                   area.
24  07 32 53.5   3.318 N   95.975 E   33 N  4.8        0.8   42  OFF W COAST OF NORTHERN SUMATERA
24  09 07 07.4   6.075 S  148.242 E   84 *  4.5        1.0   22  NEW BRITAIN REGION, P.N.G.
24  09 36 18.3& 46.810 N    7.220 E    2                      24  SWITZERLAND. <STR>. ML 2.8 (LDG), 2.4 (STR).
24  10 02 03.2& 40.748 N  124.476 W   21                      27  NEAR COAST OF NORTHERN CALIF. <GM-P>. Mw 4.2 (BRK). ML 3.9
                                                                   (GM), 3.9 (BRK). Felt at Arcata, Eureka, Ferndale, Fields
                                                                   Landing, Fortuna, Manila and McKinleyville.
                                                                  Moment Tensor (BRK): Dep 21; Principal axes (scale 10**15
                                                                   Nm): (T) Val=1.96, Plg=11, Azm=110; (N) Val=0.00, Plg=78,
                                                                   Azm=269; (P) Val=-1.96, Plg=4, Azm=19; Best double couple:
                                                                   Mo=2.0*10**15 Nm; NP1: Strike=245, Dip=85, Slip=11; NP2:
                                                                   Strike=154, Dip=79, Slip=175.
24  10 47 39.8& 53.673 N  163.146 W   19     4.3              79  UNIMAK ISLAND REGION. <AEIC>. ML 4.1 (AEIC).
24  11 43 13.5   5.541 S  125.790 E  500 G  4.9        0.9   68  BANDA SEA
24  12 02 36.1? 36.00  N    0.02  W   10 G             0.9   20  NORTHERN ALGERIA. mbLg 2.7 (MDD).
24  12 06 26.0& 33.286 S   72.008 W   12                      13  OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
24  12 06 54.2&  4.517 N   75.690 W    6                       6  COLOMBIA. <RSNC>. ML 2.6 (RSNC).
24  12 22 33.0* 32.696 N   47.972 E   33 N  4.4        0.9   17  IRAN-IRAQ BORDER REGION
24  12 24 56.7*  7.071 N   72.828 W  200 G  3.9        1.1   14  NORTHERN COLOMBIA
24  12 28 53.0& 33.293 S   72.039 W   15                      14  OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
24  13 12 40.9  36.101 N   70.466 E  181 *  4.3        0.8   32  HINDU KUSH REGION, AFGHANISTAN
24  13 19 14.4& 44.900 N    6.700 E    2                       6  FRANCE. <LDG>. ML 2.0 (LDG).
24  13 30 26.3& 34.370 S   70.229 W    9                      14  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 4.1 (GUC).
24  14 12 47.1? 12.40  N  144.16  E   33 N             1.4   12  SOUTH OF MARIANA ISLANDS
24  15 14 07.4  45.871 N   15.938 E   10 G             0.6    6  NORTHWESTERN BALKAN REGION. ML 1.8 (ZAG), 1.2 (LJU).
24  15 16 16.1& 53.997 N  164.042 W   31     3.1              41  UNIMAK ISLAND REGION. <AEIC>. ML 3.7 (AEIC).
24  16 09 03.5  36.066 N   23.244 E   33 N  4.4        1.1  103  SOUTHERN GREECE. MD 4.2 (ATH).
24  16 45 17.0& 45.110 N  122.660 W   36                      11  WASHINGTON-OREGON BORDER REGION. <SEA-P>. MD 2.7 (SEA). Felt
                                                                   in Clackamas, Marion, Multnomah and Washington Counties,
                                                                   Oregon. Also felt at Vancouver, Washington.
24  16 59 01.3& 45.380 N    2.550 E    2                       5  FRANCE. <STR>. ML 2.1 (STR).
24  17 20 01.2& 54.575 N  161.697 W    2                      14  ALASKA PENINSULA. <AEIC>. ML 2.8 (AEIC).
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24  18 40 37.7  39.625 N   29.035 E   10 G            0.4   16  TURKEY. MD 3.5 (ISK).
24  18 51 09.9& 39.566 N   29.024 E   10 G                  5  TURKEY. <ISK>. MD 2.7 (ISK).
24  19 11 33.5  13.609 N   90.697 W   85    4.9       1.1  114  NEAR COAST OF GUATEMALA. Mw 5.3 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                19:11:28.6; Lat 13.15 N; Lon 91.11 W; Dep 38.5; Half-
                                                                duration 1.1 sec; Principal axes (scale 10**16 Nm): (T)
                                                                Val=9.64, Plg=78, Azm=41; (N) Val=-1.75, Plg=5, Azm=288;
                                                                (P) Val=-7.89, Plg=11, Azm=197; Best double couple:
                                                                Mo=8.8*10**16 Nm; NP1: Strike=282, Dip=34, Slip=82; NP2:
                                                                Strike=111, Dip=56, Slip=96.
24  19 19 58.2& 59.808 N  152.855 W   95                   59  SOUTHERN ALASKA. <AEIC>.
24  20 21 18.7  45.566 N   15.340 E   10 G            1.1   13  NORTHWESTERN BALKAN REGION. ML 2.9 (VIE), 2.3 (ZAG), 2.1
                                                                (LJU). Felt (IV) in the Crnomelj-Metlika area, Slovenia.
24  20 52 10.1& 18.370 N   68.320 W  145                    6  MONA PASSAGE. <MPR>. MD 3.4 (MPR).
24  21 19 49.5?  8.36  S   74.78  W  150 G  3.8        1.2   11  PERU-BRAZIL BORDER REGION
24  22 47 29.0  35.352 N   25.357 E   65                  0.6   15  CRETE. MD 3.7 (ATH).
24  22 52 46.5* 50.319 N   18.911 E   10 G            1.2    5  POLAND. ML 2.6 (WAR).
24  23 10 11.4& 37.602 N  118.993 W    8                   25  CALIFORNIA-NEVADA BORDER REGION. <GM-P>. ML 3.2 (GM), 3.4
                                                                (BRK).
24  23 10 50.5& 35.058 S   69.376 W   10                    8  MENDOZA PROVINCE, ARGENTINA. <GUC>.
24  23 26 02.5& 33.535 S   72.944 W   18                   12  OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).
25  00 27 28.2&  4.552 N   74.814 W   16                    5  COLOMBIA. <RSNC>. ML 2.2 (RSNC).
25  00 42 51.0& 32.599 S   71.587 W   59                   11  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.2 (GUC).
25  00 55 23.3& 33.901 S   71.315 W   49                   10  NEAR COAST OF CENTRAL CHILE. <GUC>.
25  01 30 43.9& 40.794 N   27.515 E    7                   20  TURKEY. <ISK>. MD 3.6 (ATH), 3.5 (ISK).
25  02 11 29.2  34.104 N   89.869 W    5 G            0.5   14  MISSISSIPPI. mbLg 2.9 (GS). Felt at Courtland.
25  02 18 10.4& 61.436 N  147.510 W   33                   64  SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).
25  02 35 55.2& 39.258 N   29.033 E    5                    8  TURKEY. <ISK>. MD 3.0 (ISK).
25  03 06 17.0  56.528 N  116.105 E   10 G  4.8 4.2   1.0   89  EAST OF LAKE BAYKAL, RUSSIA. Felt (VI) at Nelyaty, (IV) at
                                                                Bodaybo and (III) at Taksimo.
25  03 15 12.8* 18.323 S  179.087 W  500 G  4.6        0.7   18  FIJI ISLANDS REGION
25  03 29 59.9? 12.21  N  143.83  E   33 N  4.0        1.4    9  SOUTH OF MARIANA ISLANDS
25  04 57 22.4& 45.400 N    6.200 E    2                    5  FRANCE. <LDG>. ML 1.8 (LDG).
25  04 59 47.1& 39.760 N    0.350 W    9                    9  SPAIN. <MDD>. mbLg 2.4 (MDD).
25  05 06 49.3  13.347 N   91.048 W   33 N  4.1        1.3   25  NEAR COAST OF GUATEMALA. MD 4.3 (SJR).
25  05 37 56.3  51.649 N  104.831 E   10 G  4.7 4.2   1.2   54  LAKE BAYKAL REGION, RUSSIA. Felt (IV) at Vydrino, (III) at
                                                                Irkutsk and (II) at Zakamensk.
25  05 51 00.3& 61.386 N  146.571 W   15                   65  SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC).
25  06 03 36.9& 33.822 S   70.091 W    4                   14  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 4.2 (GUC).
25  06 22 13.7& 33.118 S   71.764 W   12                   11  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
25  06 45 12.9& 33.539 S   73.011 W   34                   11  OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
25  06 45 30.0? 14.50  S  175.76  W   33 N  4.2        1.0   11  SAMOA ISLANDS REGION
25  07 38 09.3  51.658 N   16.213 E    5 G            0.8   16  POLAND. ML 3.7 (GRF), 3.6 (VIE), 3.5 (WAR).
25  07 42 58.1* 39.557 N   73.650 E   33 N  3.6        1.1    9  TAJIKISTAN-XINJIANG BORDER REG.
25  07 52 56.7& 36.480 N   21.200 E   30    3.3             10  SOUTHERN GREECE. <ATH>. ML 3.7 (ATH).
25  08 41 17.7  52.228 N  173.962 E   33 N  5.1 4.5   0.9  222  NEAR ISLANDS, ALEUTIAN ISLANDS. Mw 5.1 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                08:41:17.3; Lat 52.23 N Fix; Lon 173.96 E Fix; Dep 52.8;
                                                                Half-duration 1.0 sec; Principal axes (scale 10**16 Nm):
                                                                (T) Val=4.33, Plg=44, Azm=285; (N) Val=1.24, Plg=45,
                                                                Azm=87; (P) Val=-5.58, Plg=9, Azm=186; Best double couple:
                                                                Mo=4.9*10**16 Nm; NP1: Strike=316, Dip=53, Slip=152; NP2:
                                                                Strike=63, Dip=68, Slip=41.
25  08 56 49.1*  5.254 S  134.249 E   33 N  4.2        1.1   11  ARU ISLANDS REGION, INDONESIA
25  09 18 22.2* 11.085 N   93.356 E  118 ?  4.3        1.3   18  ANDAMAN ISLANDS, INDIA
25  09 28 01.9   5.509 S  145.669 E  115    5.0        0.9   53  EASTERN NEW GUINEA REG., P.N.G. Mw 5.1 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                09:28:05.6; Lat 5.51 S Fix; Lon 145.67 E Fix; Dep 129.5;
                                                                Half-duration 1.0 sec; Principal axes (scale 10**16 Nm):
                                                                (T) Val=6.09, Plg=43, Azm=18; (N) Val=-1.25, Plg=32,
                                                                Azm=253; (P) Val=-4.85, Plg=31, Azm=141; Best double
                                                                couple: Mo=5.5*10**16 Nm; NP1: Strike=178, Dip=33, Slip=13;
                                                                NP2: Strike=77, Dip=83, Slip=122.
25  09 55 30.0   7.089 S   68.024 E   10 G  5.0 4.5   1.0   87  CHAGOS ARCHIPELAGO REGION. Mw 5.2 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                09:55:29.9; Lat 7.11 S; Lon 68.54 E; Dep 15.0 Fix; Half-
                                                                duration 1.1 sec; Principal axes (scale 10**16 Nm): (T)
                                                                Val=9.45, Plg=23, Azm=295; (N) Val=-3.16, Plg=10, Azm=29;
                                                                (P) Val=-6.28, Plg=65, Azm=141; Best double couple:
                                                                Mo=7.9*10**16 Nm; NP1: Strike=5, Dip=24, Slip=-116; NP2:
                                                                Strike=213, Dip=69, Slip=-79.
25  09 57 01.6& 62.917 N  149.033 W   72                   62  CENTRAL ALASKA. <AEIC>.
25  10 21 56.5& 42.942 N   20.538 E    9                   16  NORTHWESTERN BALKAN REGION. <PDG>. ML 3.2 (PDG).
25  11 00 47.8& 30.860 S   71.639 W   53                    9  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.2 (GUC).
25  11 02 23.0& 37.600 N  118.990 W    8                    6  CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.9 (GM).
25  11 13 54.2* 30.657 N   78.878 E   33 N  4.0        0.9   16  NORTHERN INDIA
25  11 53 45.6* 85.365 N   87.280 E   10 G  3.7        1.5    7  NORTH OF SEVERNAYA ZEMLYA
25  12 13 54.8* 36.420 N   70.816 E  201 *  4.2        0.8   21  HINDU KUSH REGION, AFGHANISTAN
25  13 57 43.3& 39.292 N   29.033 E    9                    8  TURKEY. <ISK>. MD 3.2 (ISK).
25  14 31 55.9  85.649 N   84.987 E   10 G  4.8 4.6   1.0   79  NORTH OF SEVERNAYA ZEMLYA
25  14 36 36.0  85.581 N   86.949 E   10 G  4.4        0.8   16  NORTH OF SEVERNAYA ZEMLYA
25  14 39 10.4& 44.800 N    6.620 E    5 G                   60  FRANCE. <STR>. ML 3.3 (STR), 3.1 (LDG), 2.9 (GEN).
25  14 44 00.8& 44.785 N    6.581 E    6                    9  FRANCE. <GEN>. ML 2.3 (GEN).
25  14 46 46.4& 44.407 N    7.206 E   13                    6  NORTHERN ITALY. <GEN>. ML 1.9 (GEN).
25  15 15 37.7& 38.868 N   26.821 E    6                    6  AEGEAN SEA. <ISK>. MD 3.0 (ISK).
25  15 35 17.2  85.671 N   83.420 E   10 G  4.8 4.8   0.9  100  NORTH OF SEVERNAYA ZEMLYA. Mw 5.3 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                15:35:18.7; Lat 85.76 N; Lon 86.36 E; Dep 15.0 Fix; Half-
                                                                duration 1.0 sec; Principal axes (scale 10**17 Nm): (T)
                                                                Val=1.09, Plg=25, Azm=124, (N) Val=0.04, Plg=7, Azm=131;
                                                                (P) Val=-1.12, Plg=64, Azm=26; Best double couple:
                                                                Mo=1.1*10**17 Nm; NP1: Strike=329, Dip=21, Slip=-71; NP2:
                                                                Strike=128, Dip=70, Slip=-97.
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25	15	38	39.9&	4.442	N	75.666	W	8				12	COLOMBIA. <RSNC>. ML 4.4 (RSNC).
25	15	43	25.3	85.635	N	78.518	E	10	G	3.9	0.9	12	NORTH OF SEVERNAYA ZEMLYA
25	15	47	52.3	85.736	N	84.946	E	10	G	4.4	1.0	21	NORTH OF SEVERNAYA ZEMLYA
25	15	50	14.0&	44.800	N	6.600	E	2				15	FRANCE. <LDG>. ML 2.2 (LDG), 2.1 (GEN).
25	16	01	50.0&	35.450	N	23.170	E	11				8	CRETE. <ATH>. MD 3.8 (ATH).
25	16	07	35.0&	49.150	N	6.670	E	1	G			4	GERMANY. <FBB>. ML 1.9 (FBB).
25	16	30	09.3*	22.345	S	170.749	E	33	N	4.8	1.4	42	LOYALTY ISLANDS REGION
25	16	39	05.9	22.527	S	170.693	E	33	N	4.9	1.0	52	LOYALTY ISLANDS REGION. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 16:39:14.3; Lat 22.33 S; Lon 170.39 E; Dep 25.6; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.78, Plg=59, Azm=358; (N) Val=-0.43, Plg=3, Azm=92; (P) Val=-1.35, Plg=31, Azm=183; Best double couple: Mo=1.6*10**17 Nm; NP1: Strike=282, Dip=14, Slip=100; NP2: Strike=91, Dip=76, Slip=87.
25	17	08	50.7&	33.078	S	72.232	W	13				10	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
25	17	23	37.1*	85.606	N	83.898	E	10	G	4.0	1.1	12	NORTH OF SEVERNAYA ZEMLYA
25	17	24	34.4	85.717	N	84.865	E	10	G	4.8 4.6	0.8	51	NORTH OF SEVERNAYA ZEMLYA
25	17	45	55.8*	4.498	N	122.940	E	609	?	4.1	0.7	13	CELEBES SEA
25	17	55	36.3	10.111	N	125.974	E	33	N	4.9 4.3	1.1	57	LEYTE, PHILIPPINE ISLANDS
25	18	18	08.6	0.232	N	119.484	E	33	N	5.3 4.8	1.0	71	MINAHASSA PENINSULA, SULAWESI. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 18:18:27.6; Lat 1.48 N; Lon 119.59 E; Dep 64.4; Half-duration 1.3 sec; Principal axes (scale 10**17 Nm): (T) Val=1.82, Plg=9, Azm=62; (N) Val=0.34, Plg=73, Azm=186; (P) Val=-2.16, Plg=14, Azm=330; Best double couple: Mo=2.0*10**17 Nm; NP1: Strike=106, Dip=74, Slip=-177; NP2: Strike=15, Dip=87, Slip=-16.
25	18	31	26.0&	39.036	N	26.520	E	10	G			7	TURKEY. <ISK>. MD 3.0 (ISK), 3.0 (ATH).
25	18	41	41.8	34.404	N	32.153	E	45		4.2	1.0	68	CYPRUS REGION. MD 4.0 (ISK).
25	18	58	29.4	51.604	N	104.864	E	10	G	5.9 5.5	1.0	317	LAKE BAYKAL REGION, RUSSIA. Mw 6.0 (CSEM), 6.0 (OBN), 5.9 (GS), 5.9 (HRV). Me 5.9 (GS). Damage to houses (VI) in the Irkutsk area. Felt (VI) at Listvyanka, Tankhoy and Vydrino; (V) at Angarsk, Baykalsk and Slyudyanka; (IV) at Arshan, Kabansk, Kyren, Taloye, Ulan-Ude, Ulsoye-Sibirskoye, Yelantsy and Zakamensk; (III) at Magistralnyy, Sayanskoye and Zima. Broadband Source Parameters (GS): Radiated energy 1.6*10**13 Nm. Moment Tensor (GS): Dep 4; Principal axes (scale 10**17 Nm): (T) Val=8.77, Plg=21, Azm=342; (N) Val=-0.59, Plg=13, Azm=77; (P) Val=-8.18, Plg=65, Azm=195; Best double couple: Mo=8.5*10**17 Nm; NP1: Strike=50, Dip=26, Slip=-120; NP2: Strike=262, Dip=68, Slip=-76. Centroid, Moment Tensor (HRV): Centroid origin time 18:58:39.0; Lat 51.97 N; Lon 104.83 E; Dep 21.0 Bdy; Half-duration 2.2 sec; Principal axes (scale 10**17 Nm): (T) Val=8.93, Plg=9, Azm=334; (N) Val=-0.03, Plg=2, Azm=243; (P) Val=-8.90, Plg=81, Azm=140; Best double couple: Mo=8.9*10**17 Nm; NP1: Strike=66, Dip=36, Slip=-86; NP2: Strike=242, Dip=54, Slip=-93. Moment Tensor (CSEM): Dep 10; Principal axes: (T) Plg=6, Azm=44; (N) Plg=45, Azm=308; (P) Plg=45, Azm=141; Best double couple: Mo=1.1*10**18 Nm; NP1: Strike=172, Dip=55, Slip=-31; NP2: Strike=281, Dip=65, Slip=-141. Moment Tensor (OBN); Principal axes: (T) Plg=26, Azm=331; (N) Plg=5, Azm=63; (P) Plg=64, Azm=163; Best double couple: Mo=1.1*10**18 Nm; NP1: Strike=50, Dip=20, Slip=-104; NP2: Strike=245, Dip=71, Slip=-85.
[illegible]				[illegible]	N	104.744	E	10	G	5.1	1.1	135	LAKE BAYKAL REGION, RUSSIA. Felt (V) at Irkutsk, Listvyanka and Vydrino; (IV) at Kabansk, Slyudyanka, Taloye and Zakamensk; (III) at Tyrgana and Yelantsy.
25	19	16	13.5&	40.725	N	29.852	E	10	G			5	TURKEY. <ISK>. MD 2.8 (ISK).
25	19	31	45.5*	51.810	N	104.403	E	10	G	3.8	1.4	7	LAKE BAYKAL REGION, RUSSIA. Felt (II) at Irkutsk.
25	19	42	03.8&	61.288	N	150.153	W	40				68	SOUTHERN ALASKA. <AEIC>. ML 2.9 (AEIC).
25	19	45	12.3&	38.944	N	27.639	E	10	G			5	TURKEY. <ISK>. MD 2.9 (ISK).
25	20	18	04.1&	57.919	N	156.835	W	0		3.2		39	ALASKA PENINSULA. <AEIC>. ML 3.5 (AEIC), 3.7 (PMR).
25	20	23	04.1&	33.863	S	70.450	W	105				12	CHILE-ARGENTINA BORDER REGION. <GUC>.
25	20	24	30.2	51.695	N	105.152	E	10	G	4.4	1.2	29	LAKE BAYKAL REGION, RUSSIA. Felt (V) at Vydrino; (III) at Arshan, Irkutsk and Zakamensk; (II) at Tyrgana and Yelantsy.
25	20	26	34.9&	63.184	N	151.345	W	13				40	CENTRAL ALASKA. <AEIC>. ML 2.6 (AEIC), 2.9 (PMR).
25	20	42	09.0&	50.230	N	130.260	W	10	G			6	VANCOUVER ISLAND REGION. <PGC-P>. ML 3.0 (PGC).
25	20	47	51.2*	12.212	N	57.610	E	10	G	4.6	0.7	23	ARABIAN SEA
25	21	09	33.2?	21.00	S	178.23	W	500	G	4.5	0.9	14	FIJI ISLANDS REGION
25	21	32	31.1?	6.97	S	12.91	W	10	G	3.8	0.9	12	ASCENSION ISLAND REGION
25	21	57	47.6*	51.847	N	104.438	E	10	G	4.0	1.1	8	LAKE BAYKAL REGION, RUSSIA
25	22	11	16.1*	51.753	N	104.847	E	10	G		1.1	5	LAKE BAYKAL REGION, RUSSIA. Felt (II) at Irkutsk.
25	22	14	52.1*	2.241	S	133.443	E	33	N	4.6	1.6	13	IRIAN JAYA REGION, INDONESIA
25	22	22	30.6	45.948	N	14.871	E	10	G		0.2	8	NORTHWESTERN BALKAN REGION. ML 2.2 (VIE), 1.4 (LJU).
25	22	28	56.4&	34.092	S	71.987	W	42				9	NEAR COAST OF CENTRAL CHILE. <GUC>.
25	22	46	03.9	51.798	N	104.848	E	10	G	4.2	0.9	12	LAKE BAYKAL REGION, RUSSIA. Felt (II) at Irkutsk.
25	23	05	57.1?	19.99	S	177.97	W	500	G	4.2	0.9	18	FIJI ISLANDS REGION
25	23	08	04.6*	22.971	S	170.781	E	33	N	4.6	1.2	26	LOYALTY ISLANDS REGION
25	23	10	21.0&	36.620	N	121.230	W	6				5	CENTRAL CALIFORNIA. <GM-P>. MD 2.8 (GM).
25	23	15	54.9&	39.743	N	29.032	E	10	G			4	TURKEY. <ISK>. MD 2.6 (ISK).
25	23	38	21.7&	14.898	N	60.705	W	29				5	WINDWARD ISLANDS. <FDF>. MD 2.3 (FDF).
25	23	54	31.8&	39.649	N	29.021	E	10	G			4	TURKEY. <ISK>. MD 2.7 (ISK).
26	00	06	02.3&	44.784	N	6.519	E	1				19	FRANCE. <GEN>. ML 2.3 (GEN), 2.2 (LDG).
26	00	08	53.0%	27.833	S	136.538	E	10	G		0.8	6	SOUTH AUSTRALIA
26	00	12	26.6	51.663	N	104.943	E	10	G	5.0	1.0	78	LAKE BAYKAL REGION, RUSSIA. Felt (IV) at Vydrino, (III) at Irkutsk and (II) at Yelantsy.
26	00	12	53.0?	3.14	S	139.82	E	33	N	4.1	0.9	7	IRIAN JAYA, INDONESIA
26	00	27	47.0*	50.346	N	156.365	E	33	N	3.7	0.5	9	KURIL ISLANDS

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26  00 30 44.7& 37.740 N    3.720 W   23                    6  SPAIN. <MDD>. mbLg 1.8 (MDD).
26  00 47 03.8? 15.01  N   60.13  W   33 N            1.1   9  LEEWARD ISLANDS. MD 3.2 (TRN), 3.0 (FDF).
26  01 13 06.9& 14.752 N   60.268 W   30                    8  WINDWARD ISLANDS. <FDF>. MD 2.9 (FDF).
26  01 33 34.5? 54.49  N  159.80  E  200 G  3.7       0.9  10  NEAR EAST COAST OF KAMCHATKA
26  01 50 05.9?  4.94  S  104.10  E  121 *  3.6       1.1   9  SOUTHERN SUMATERA, INDONESIA
26  03 05 55.6& 39.575 N   29.082 E    5                    4  TURKEY. <ISK>. MD 2.5 (ISK).
26  03 16 10.8& 34.161 S   70.618 W  100                    8  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).
26  03 38 43.0& 44.480 N   69.520 W    3                    8  MAINE. <WES-P>. mbLg 3.6 (WES), 3.8 (GS), 3.8 (OTT). Felt in
                                                               Androscoggin, Kennebec, Knox, Lincoln, Somerset and Waldo
                                                               Counties.
26  03 53 04.0* 19.570 N   65.275 W   10 G  3.9       1.4  15  PUERTO RICO REGION. MD 4.0 (MPR).
26  04 05 03.4& 34.940 S   68.102 W    0                   12  MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 4.1 (GUC).
26  04 37 12.5* 21.377 S  169.477 E   44 *  4.8       1.2  31  LOYALTY ISLANDS REGION
26  04 56 39.1* 51.662 N  105.027 E   10 G  4.1       1.5  11  LAKE BAYKAL REGION, RUSSIA. Felt (II) at Irkutsk and
                                                               Zakamensk.
26  05 01 40.5& 32.894 S   71.993 W   35                   13  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
26  05 18 18.0  39.151 N  139.867 E   34    5.2 4.6  0.8 199  NEAR WEST COAST OF HONSHU, JAPAN. Mw 5.3 (HRV). Some minor
                                                               structural damage and items knocked from shelves (V JMA) in
                                                               northwestern Yamagata Prefecture. Felt (III JMA) in much of
                                                               Akita Prefecture. Also felt (II JMA) in western Aomori,
                                                               western Iwate, northern Niigata, central Yamagata and parts
                                                               of Miyagi Prefectures. Felt in much of northern Honshu.
                                                              Centroid, Moment Tensor (HRV): Centroid origin time
                                                               05:18:21.7; Lat 39.12 N; Lon 139.65 E; Dep 16.6; Half-
                                                               duration 1.0 sec; Principal axes (scale 10**17 Nm): (T)
                                                               Val=1.00, Plg=65, Azm=161; (N) Val=-0.12, Plg=18, Azm=27;
                                                               (P) Val=-0.88, Plg=17, Azm=291; Best double couple:
                                                               Mo=9.4*10**16 Nm; NP1: Strike=355, Dip=32, Slip=54; NP2:
                                                               Strike=216, Dip=64, Slip=110.
26  06 44 09.2& 44.460 N    6.868 E    0                   21  FRANCE. <GEN>. ML 2.2 (GEN), 1.8 (LDG), 1.8 (STR).
26  06 54 48.7& 31.492 S   72.192 W   17                   12  OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
26  07 27 08.5& 41.569 N   28.063 E    5                    7  TURKEY. <ISK>. MD 2.8 (ISK).
26  07 38 18.8   1.433 N  126.481 E   33 N  4.5       1.1  19  NORTHERN MOLUCCA SEA
26  07 41 19.6  15.482 S  168.050 E   33 N  5.0       1.0  41  VANUATU ISLANDS
26  07 47 45.5& 40.335 N   27.894 E   13                    7  TURKEY. <ISK>. MD 2.8 (ISK).
26  07 48 21.1& 31.451 S   69.254 W  181                    9  SAN JUAN PROVINCE, ARGENTINA. <GUC>.
26  07 53 21.4& 45.400 N    7.500 E    2                    9  NORTHERN ITALY. <LDG>. ML 2.3 (LDG).
26  08 17 43.5& 57.293 N  154.875 W   62                   41  KODIAK ISLAND REGION. <AEIC>. ML 2.9 (AEIC).
26  08 28 59.6  38.980 N   21.121 E   10 G            1.3  21  GREECE. ML 3.7 (ATH), 3.6 (ROM).
26  08 30 10.1  38.958 N   20.840 E   10 G  4.0       1.4  19  GREECE. MD 3.8 (ATH).
26  08 31 51.4* 38.377 S  178.937 E   56 *  4.5       0.9  23  OFF E. COAST OF N. ISLAND, N.Z.
26  08 37 13.0& 49.150 N    6.750 E    1 G                    6  GERMANY. <FBB>. ML 2.1 (FBB).
26  08 51 04.1& 61.111 N  149.557 W   34                   86  SOUTHERN ALASKA. <AEIC>. ML 3.4 (AEIC), 3.6 (PMR). Felt
                                                               (III) at Anchorage.
26  09 24 15.2& 63.464 N  145.527 W   10                   37  CENTRAL ALASKA. <AEIC>. ML 2.5 (AEIC).
26  09 27 48.5& 26.340 S   27.510 E    2 G  3.9           10  REPUBLIC OF SOUTH AFRICA. <PRE>. ML 3.6 (PRE).
26  09 30 22.2*  0.446 N  119.712 E   33 N            0.5   9  MINAHASSA PENINSULA, SULAWESI
26  09 43 15.4?  5.86  S  144.29  E   33 N  4.0       0.9   5  NEW GUINEA, PAPUA NEW GUINEA
26  09 49 58.5* 21.762 S   67.127 W  203 *  4.2       1.0  23  CHILE-BOLIVIA BORDER REGION
26  09 50 41.9& 44.458 N    6.867 E    4                   25  FRANCE. <GEN>. ML 2.4 (GEN), 2.3 (LDG), 2.2 (STR).
26  10 21 24.2& 35.740 N   27.500 E    6                    9  DODECANESE ISLANDS. <ATH>. MD 3.5 (ATH).
26  11 03 01.4* 22.592 S  170.676 E   33 N  4.6       0.9  33  LOYALTY ISLANDS REGION
26  11 38 44.7*  8.914 S  108.573 W   10 G  4.6       0.8  27  CENTRAL EAST PACIFIC RISE
26  11 40 07.4& 18.310 N   67.210 W   24                    9  MONA PASSAGE. <MPR>. MD 3.3 (MPR). Felt at Anasco,
                                                               Hormigueros and Mayaguez, Puerto Rico.
26  11 47 55.7? 23.14  S   67.64  W   33 N  3.7       1.0   7  CHILE-ARGENTINA BORDER REGION
26  12 07 06.0* 43.823 N   11.782 E   10 G            1.1  14  CENTRAL ITALY. ML 2.9 (LDG), 2.7 (TRI).
26  12 29 23.4& 39.243 N   27.659 E    6                    5  TURKEY. <ISK>. MD 2.7 (ISK).
26  12 33 01.7* 51.708 N  104.465 E   10 G  3.5       1.2   5  LAKE BAYKAL REGION, RUSSIA. Felt (II) at Irkutsk.
26  13 14 36.3  37.244 N   21.062 E   10 G  4.2       1.2  67  SOUTHERN GREECE. MD 4.2 (ATH).
26  13 32 50.9? 30.03  S  178.91  W  254 ?  4.3       1.1  17  KERMADEC ISLANDS, NEW ZEALAND
26  13 35 20.2* 35.359 N   27.904 E   33 N            1.2   8  DODECANESE ISLANDS. MD 3.8 (ATH), 3.6 (ISK).
26  13 48 41.6* 46.155 N   95.897 E   33 N  3.9       1.0  10  MONGOLIA
26  13 51 39.5? 50.04  N  176.35  W   33 N  4.3       1.1  10  ANDREANOF ISLANDS, ALEUTIAN IS.
26  13 56 49.9& 38.168 N   30.892 E    5                   13  TURKEY. <ISK>. MD 3.5 (ISK).
26  14 19 25.7& 40.451 N   29.218 E   10 G                    7  TURKEY. <ISK>. MD 2.7 (ISK).
26  14 20 06.3? 38.64  S  175.76  E  194 ?            0.2  15  NORTH ISLAND, NEW ZEALAND
26  14 44 49.0* 12.459 S  166.467 E   33 N  4.3       0.8  10  SANTA CRUZ ISLANDS
26  15 02 34.9* 20.838 S  178.780 W  600 G  4.0       0.9  23  FIJI ISLANDS REGION
26  15 25 56.7& 35.946 N  120.490 W   11                   25  CENTRAL CALIFORNIA. <GM-P>. Mw 4.0 (BRK). ML 4.0 (GM), 4.1
                                                               (BRK), 4.1 (PAS). Felt at Atascadero and Paso Robles.
                                                              Moment Tensor (BRK): Dep 11; Principal axes (scale 10**15
                                                               Nm): (T) Val=1.33, Plg=6, Azm=103; (N) Val=0.00, Plg=84,
                                                               Azm=310; (P) Val=-1.33, Plg=3, Azm=193; Best double couple:
                                                               Mo=1.3*10**15 Nm; NP1: Strike=148, Dip=88, Slip=174; NP2:
                                                               Strike=238, Dip=84, Slip=2.
26  15 35 24.7  28.487 N  139.727 E  375 *  4.5       0.8  73  BONIN ISLANDS REGION
26  16 17 00.4& 39.560 N   20.350 E    5                    8  GREECE-ALBANIA BORDER REGION. <ATH>. MD 2.9 (ATH).
26  17 02 57.0& 54.984 N  162.311 W   87                   12  ALASKA PENINSULA. <AEIC>.
26  17 14 45.0& 60.104 N  153.173 W  153                   38  SOUTHERN ALASKA. <AEIC>.
26  19 30 20.1& 46.900 N    7.100 E    5                   50  SWITZERLAND. <LDG>. ML 3.2 (LDG), 3.1 (STR), 2.9 (FUR), 2.8
                                                               (FBB).
26  19 32 19.8& 32.149 N  116.922 W    3 G                   19  CALIF.-BAJA CALIF. BORDER REGION. <ECX-P>. MD 3.3 (ECX). ML
                                                               3.3 (PAS).
26  19 34 38.4&  8.738 N   84.410 W   17                   11  OFF COAST OF COSTA RICA. <SJR>. MD 4.1 (SJR), 4.0 (UPA).
26  19 42 02.9& 37.200 N   21.180 E    5                    6  SOUTHERN GREECE. <ATH>. MD 3.2 (ATH).
26  19 45 33.4& 32.578 S   71.723 W   24                   12  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
26  20 13 36.0*  1.603 N  126.233 E   33 N  4.5       1.2  23  NORTHERN MOLUCCA SEA
26  20 56 12.9& 34.818 N   32.672 E   20                    6  CYPRUS REGION. <CSS>. ML 2.1 (CSS).
26  21 42 46.9& 39.311 N   27.763 E   10 G                    5  TURKEY. <ISK>. MD 2.7 (ISK).
26  21 46 58.3& 60.102 N  153.353 W  156                   38  SOUTHERN ALASKA. <AEIC>.
26  22 05 10.6& 34.573 S   72.160 W   14                   11  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
26  22 06 05.7& 62.779 N  148.744 W   59                   60  CENTRAL ALASKA. <AEIC>. ML 3.0 (AEIC), 3.1 (PMR).
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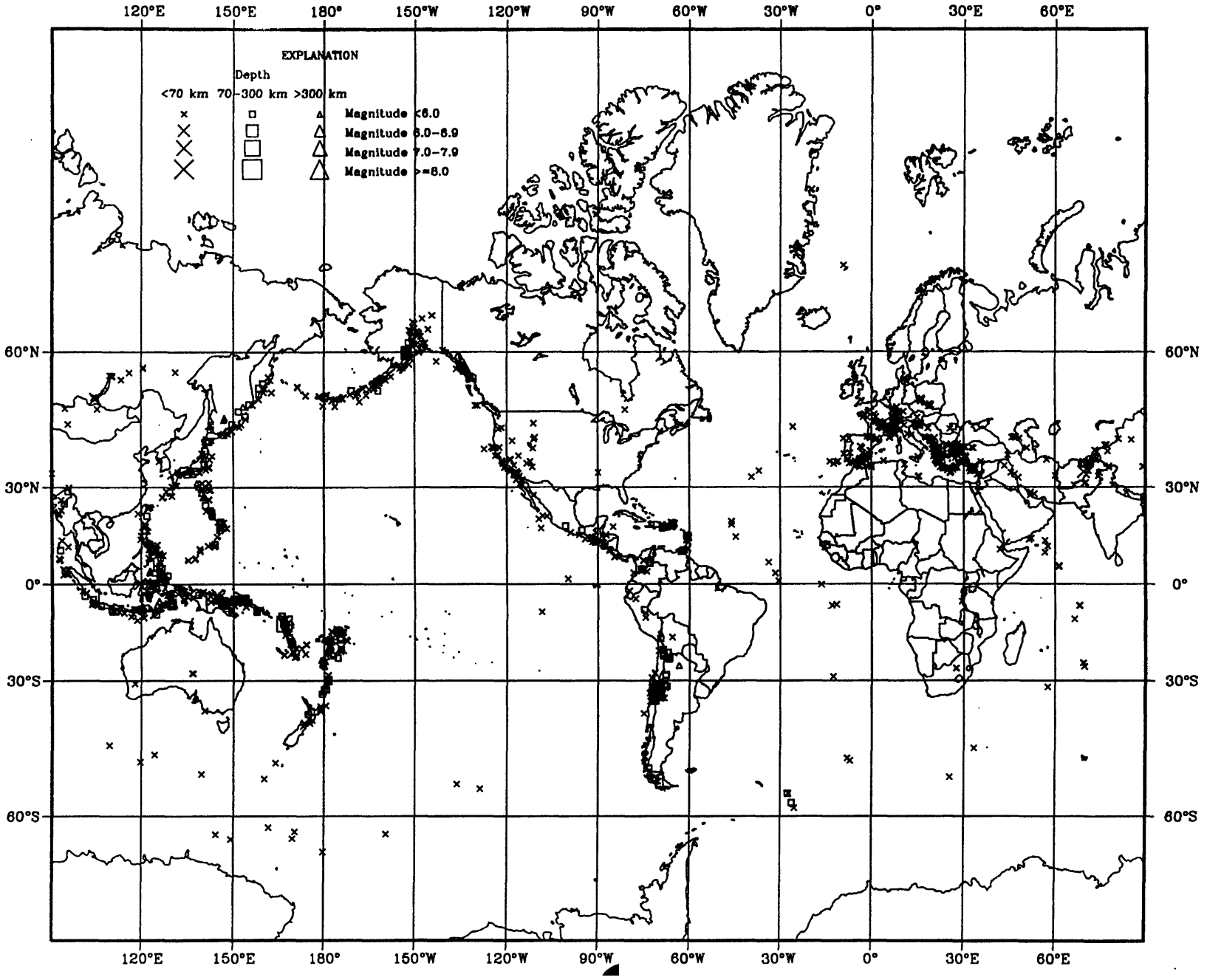
26	23	43	01.6&	60.400	N	152.466	W	90		2.5			65	SOUTHERN ALASKA. <AEIC>.
26	23	57	33.9?	51.49	N	16.08	E	5	G			0.4	8	POLAND. ML 3.2 (VIE), 3.1 (WAR).
27	00	04	06.1*	17.642	S	178.764	W	550	G	4.4		0.9	19	FIJI ISLANDS REGION
27	01	12	01.2&	6.731	N	72.867	W	160		4.4			37	NORTHERN COLOMBIA. <RSNC>.
27	02	18	15.9	52.550	N	158.507	E	95		4.2		0.7	22	NEAR EAST COAST OF KAMCHATKA
27	03	00	11.4	38.642	N	24.728	E	10	G			1.1	20	AEGEAN SEA. ML 3.3 (ATH).
27	03	11	21.8&	38.570	N	24.730	E	17					12	AEGEAN SEA. <ATH>. MD 3.2 (ATH).
27	03	21	44.7	36.423	N	12.331	W	10	G	4.0		1.0	47	NORTH ATLANTIC OCEAN. mbLg 3.6 (MDD).
27	03	33	52.1&	33.493	S	72.954	W	15					12	OFF COAST OF CENTRAL CHILE. <GUC>.
27	03	44	00.3&	33.891	S	72.115	W	22					13	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
27	03	45	35.4?	25.73	S	179.87	W	500	G	4.4		1.0	21	SOUTH OF FIJI ISLANDS
27	04	25	42.3&	42.318	N	18.936	E	9					9	NORTHWESTERN BALKAN REGION. <PDG>. ML 1.3 (PDG).
27	04	27	24.4*	10.036	N	126.025	E	33	N	4.1		1.0	18	PHILIPPINE ISLANDS REGION
27	04	29	05.2*	34.611	N	37.075	W	10	G	4.0		0.5	9	NORTHERN MID-ATLANTIC RIDGE
27	04	32	04.3&	47.700	N	1.300	E	3					15	FRANCE. <LDG>. ML 2.4 (LDG).
27	05	05	39.9*	57.798	S	26.259	W	139	?	4.3		0.9	17	SOUTH SANDWICH ISLANDS REGION
27	05	36	23.8?	36.52	N	70.93	E	247	?	3.6		1.1	9	HINDU KUSH REGION, AFGHANISTAN
27	06	10	08.5&	32.149	S	70.223	W	113					10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.5 (GUC).
27	06	13	48.7&	37.420	N	2.290	W	0	G				19	SPAIN. <MDD>. mbLg 2.9 (MDD).
27	06	27	54.6&	19.730	N	65.990	W	38					6	PUERTO RICO REGION. <MPR>. MD 3.4 (MPR).
27	06	59	05.9*	50.474	N	155.244	E	200	G	4.0		0.9	13	KURIL ISLANDS
27	07	05	34.7%	85.280	N	90.014	E	10	G			0.7	7	NORTH OF SEVERNAYA ZEMLYA
27	07	13	35.9*	63.497	S	169.428	E	10	G	5.0	5.3	1.2	33	BALLENY ISLANDS REGION. Mw 5.6 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 07:13:42.0; Lat 63.63 S; Lon 169.79 E; Dep 15.0 Fix; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=3.44, Plg=26, Azm=16; (N) Val=-1.02, Plg=50, Azm=142; (P) Val=-2.42, Plg=28, Azm=270; Best double couple: Mo=2.9*10**17 Nm; NP1: Strike=54, Dip=50, Slip=-179; NP2: Strike=323, Dip=89, Slip=-40.
27	07	18	37.7	22.611	S	176.895	W	181	D	4.8		0.9	59	SOUTH OF FIJI ISLANDS
27	07	37	58.9&	60.648	N	151.983	W	80		2.6			9	KENAI PENINSULA, ALASKA. <AEIC>.
27	07	55	08.7*	2.829	N	128.773	E	200	G	4.2		0.6	10	HALMAHERA, INDONESIA
27	08	11	36.1&	33.526	S	70.449	W	100					12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.2 (GUC).
27	08	24	20.7*	62.503	S	170.226	E	10	G	4.8		1.3	15	BALLENY ISLANDS REGION
27	08	45	28.1*	31.764	S	57.708	E	10	G	4.5		0.4	10	SOUTHWEST INDIAN RIDGE
27	09	09	55.5&	45.600	N	5.400	E	5					12	FRANCE. <LDG>. ML 2.0 (LDG).
27	09	42	26.5	14.815	N	92.070	W	111		4.1		1.0	37	NEAR COAST OF CHIAPAS, MEXICO
27	09	51	59.0&	32.087	S	71.228	W	66					10	NEAR COAST OF CENTRAL CHILE. <GUC>.
27	09	59	56.7*	86.035	N	78.498	E	10	G	3.9		0.6	11	NORTH OF SEVERNAYA ZEMLYA
27	10	02	44.7&	12.966	N	88.435	W	35					5	OFF COAST OF CENTRAL AMERICA. <SJR>.
27	10	13	29.1&	39.591	N	29.116	E	10					9	TURKEY. <ISK>. MD 3.0 (ISK).
27	10	21	50.8*	8.807	S	124.213	E	33	N	3.7		1.1	11	TIMOR REGION, INDONESIA
27	10	32	22.3&	39.072	N	27.295	E	10	G				4	TURKEY. <ISK>. MD 2.7 (ISK).
27	11	40	37.3&	39.470	N	29.127	E	10	G				4	TURKEY. <ISK>. MD 2.8 (ISK).
27	11	58	16.2*	6.594	S	155.208	E	33	N	4.3		1.2	11	SOLOMON ISLANDS
27	12	38	08.8?	49.78	S	6.98	W	10	G	4.8	4.6	0.9	10	SOUTHERN MID-ATLANTIC RIDGE
27	12	55	13.1*	49.243	S	7.918	W	10	G	5.2	5.2	1.0	31	SOUTHERN MID-ATLANTIC RIDGE. Mw 5.6 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 12:55:19.8; Lat 49.31 S; Lon 7.46 W; Dep 15.0 Fix; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=2.48, Plg=17, Azm=85; (N) Val=-0.22, Plg=5, Azm=177; (P) Val=-2.26, Plg=72, Azm=284; Best double couple: Mo=2.4*10**17 Nm; NP1: Strike=167, Dip=28, Slip=-101; NP2: Strike=0, Dip=62, Slip=-84.
27	13	03	24.0*	39.680	N	77.098	E	33	N	4.0		1.3	15	SOUTHERN XINJIANG, CHINA
27	13	24	21.7?	20.82	S	174.27	W	150	G	4.2		1.3	19	TONGA ISLANDS
27	13	57	35.0?	2.18	N	126.58	E	33	N	3.9		0.9	12	NORTHERN MOLUCCA SEA
27	14	17	55.6&	45.500	N	2.400	E	10					7	FRANCE. <LDG>. ML 1.8 (LDG).
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	186.732	E	122	?	4.8		1.1	38	SANTA CRUZ ISLANDS
[illegible]	[illegible]	[illegible]	38..	[illegible]	[illegible]	72.138	W	39					11	NEAR COAST OF CENTRAL CHILE. <GUC>.
27	14	54	43.2*	48.445	S	124.339	E	10	G	4.0		1.2	10	SOUTH OF AUSTRALIA
27	14	57	36.4&	40.159	N	29.419	E	8					4	TURKEY. <ISK>. MD 2.7 (ISK).
27	14	57	38.5*	51.626	N	105.226	E	10	G	4.7		1.5	33	LAKE BAYKAL REGION, RUSSIA. Felt (III) at Irkutsk; (II) at Slyudyanka, Taloye, Tyrgana and Zakamensk.
27	15	51	49.4&	31.517	S	69.834	W	159					12	SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 2.9 (GUC).
27	16	03	52.3	52.885	N	160.019	E	54		5.0		0.8	163	OFF EAST COAST OF KAMCHATKA
27	16	06	51.2&	45.200	N	5.600	E	11					4	FRANCE. <LDG>. ML 1.6 (LDG).
27	16	13	50.4&	59.703	N	153.454	W	134		2.8			4	SOUTHERN ALASKA. <AEIC>.
27	17	01	35.7&	64.487	N	150.708	W	24					6	CENTRAL ALASKA. <AEIC>. ML 2.5 (AEIC), 2.9 (PMR).
27	17	10	34.9&	37.040	N	3.860	W	9					5	SPAIN. <MDD>. mbLg 1.5 (MDD).
27	17	15	17.7	41.242	N	76.763	E	33	N	4.6		1.3	54	KYRGYZSTAN-XINJIANG BORDER REG. Felt (IV) at Naryn and (III) at Bishkek, Kyrgyzstan. Also felt (III) at Almaty, Kazakhstan.
27	17	28	43.7*	41.163	N	76.268	E	33	N	3.9		1.2	13	KYRGYZSTAN-XINJIANG BORDER REG.
27	17	44	44.5?	13.47	S	167.46	E	250	G	3.7		0.7	16	VANUATU ISLANDS
27	18	35	51.9*	20.666	S	178.740	W	600	G	4.6		1.0	34	FIJI ISLANDS REGION
27	19	06	27.3&	40.392	N	26.018	E	11					4	TURKEY. <ISK>. MD 2.8 (ISK).
27	19	10	23.0	35.448	N	27.021	E	72		4.3		1.1	193	DODECANESE ISLANDS. MD 4.3 (ATH), 4.2 (ISK).
27	19	24	38.5	51.558	N	16.228	E	5	G			0.7	27	POLAND. ML 3.9 (GRF), 3.6 (WAR), 3.5 (VIE), 3.4 (FUR).
27	19	28	58.1	7.945	S	122.976	E	325	*	4.1		1.0	10	FLORES SEA
27	19	46	49.4&	44.526	N	7.269	E	14					12	NORTHERN ITALY. <GEN>. ML 2.1 (GEN).
27	20	26	55.6&	32.846	S	70.271	W	113					10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.7 (GUC).
27	20	49	10.1*	37.344	N	73.298	E	33	N	3.6		1.4	6	TAJIKISTAN
27	21	00	50.7&	35.746	S	72.799	W	17					14	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
27	21	25	56.6&	48.100	N	2.300	W	4					6	FRANCE. <LDG>. ML 1.9 (LDG).
27	21	50	55.2&	38.794	N	26.604	E	5					8	AEGEAN SEA. <ISK>. MD 3.1 (ISK).
27	22	14	08.1*	12.836	S	166.753	E	144	?	4.5		1.2	51	SANTA CRUZ ISLANDS
27	22	29	39.5&	40.350	N	26.139	E	10	G				9	TURKEY. <ISK>. MD 3.2 (ISK).
27	22	31	55.9&	32.174	N	115.024	W	16					35	CALIF.-BAJA CALIF. BORDER REGION. <ECX-P>. MD 3.9 (ECX). ML 3.5 (PAS). Felt in the Mexicali Valley and in the area south of Mexicali, Baja California.
27	23	49	21.6&	35.810	N	3.830	W	1					14	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.2 (MDD).

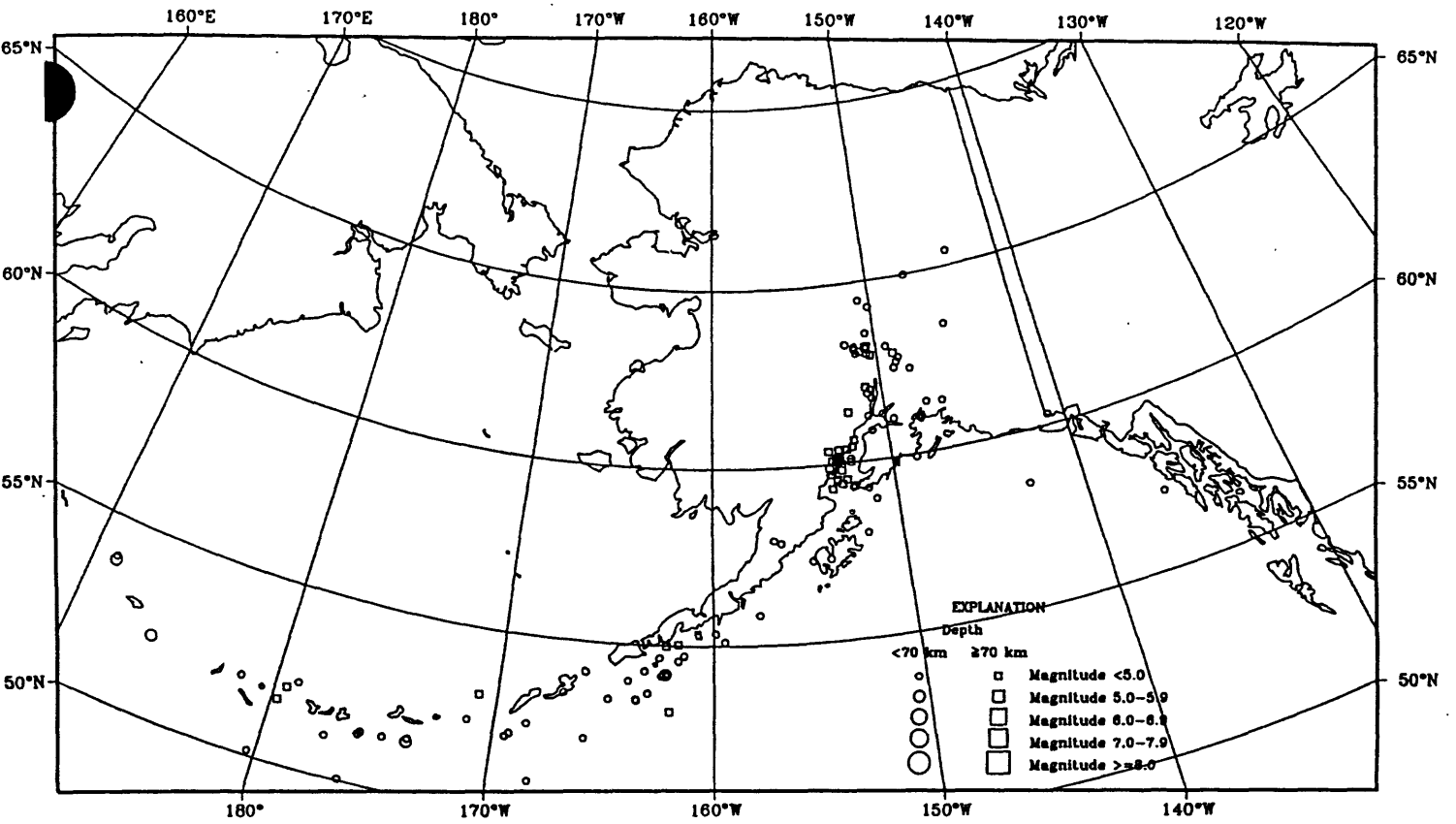
27	23	50	12.0	34.786	N	26.444	E	39		3.8	1.1	43	CRETE. MD 4.0 (ATH).
27	23	58	13.6	36.817	N	29.319	E	10	G		0.7	11	TURKEY. MD 3.7 (ISK).
28	00	03	37.1&	37.866	N	27.284	E	5				6	TURKEY. <ISK>. MD 3.1 (ISK).
28	00	27	02.0&	32.656	S	71.463	W	25				10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
[illegible]	00	33	36.5&	46.700	N	7.300	E	7				20	SWITZERLAND. <LDG>. ML 2.2 (LDG), 2.1 (STR), 2.1 (FBB).
[illegible]	00	47	33.1&	40.299	N	26.327	E	7				9	TURKEY. <ISK>. MD 3.2 (ISK).
[illegible]	01	29	43.6&	41.324	N	25.845	E	10				5	GREECE-BULGARIA BORDER REGION. <ISK>. MD 3.1 (ISK).
28	01	36	51.9*	39.053	N	140.063	E	33	N		0.4	8	EASTERN HONSHU, JAPAN. Felt (I JMA) in southern Akita and northwestern Yamagata Prefectures.
28	02	05	50.6&	40.403	N	25.978	E	10				8	AEGEAN SEA. <ISK>. MD 3.0 (ISK).
28	02	26	47.2*	10.823	S	74.344	W	33	N	3.7	0.7	7	CENTRAL PERU
28	03	14	15.7	40.420	N	25.999	E	10	G		1.0	24	AEGEAN SEA. ML 4.0 (ATH). MD 3.7 (ISK).
28	03	19	46.7&	40.368	N	25.949	E	8				4	AEGEAN SEA. <ISK>. MD 2.7 (ISK).
28	03	23	22.3&	40.343	N	25.917	E	15				4	AEGEAN SEA. <ISK>. MD 2.8 (ISK).
28	03	35	54.9	19.377	N	64.935	W	33	N	4.5	0.9	81	VIRGIN ISLANDS. MD 4.7 (MPR).
28	03	53	57.2&	40.376	N	25.968	E	9				4	AEGEAN SEA. <ISK>. MD 2.6 (ISK).
28	03	55	20.6&	40.226	N	25.742	E	10	G			4	AEGEAN SEA. <ISK>. MD 2.8 (ISK).
28	04	02	44.5&	40.380	N	26.024	E	15				5	TURKEY. <ISK>. MD 2.9 (ISK).
28	04	04	42.4*	24.328	N	122.316	E	33	N	4.2	1.4	13	TAIWAN REGION. Felt (IV JMA) in the epicentral area and (I JMA) at Hua-lien and I-lan.
28	04	58	05.8&	34.824	N	33.765	E	25				8	CYPRUS REGION. <CSS>. ML 2.5 (CSS).
28	05	05	10.6&	34.747	S	71.293	W	83				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.2 (GUC).
28	05	09	39.6&	19.400	N	64.710	W	18				8	VIRGIN ISLANDS. <MPR>. MD 3.6 (MPR).
28	06	28	57.8	41.963	N	142.155	E	74	*	4.5	1.1	72	HOKKAIDO, JAPAN REGION. Felt (II JMA) in the Shizunai-Urakawa area.
28	06	38	10.7*	3.006	S	130.204	E	33	N	4.2	1.4	9	SERAM, INDONESIA
28	07	03	45.6?	5.76	S	142.56	E	33	N	3.7	1.5	6	NEW GUINEA, PAPUA NEW GUINEA
28	07	05	08.6	40.403	N	25.922	E	10	G		0.5	16	AEGEAN SEA. ML 4.0 (ATH). MD 3.7 (ISK).
28	08	29	57.3&	34.409	S	71.056	W	76				9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.6 (GUC).
28	08	56	58.8&	39.193	N	27.465	E	11				4	TURKEY. <ISK>. MD 2.8 (ISK).
28	09	22	19.4&	39.087	N	27.587	E	14				4	TURKEY. <ISK>. MD 2.9 (ISK).
28	09	32	56.9&	40.359	N	26.077	E	7				7	TURKEY. <ISK>. MD 3.0 (ISK).
28	09	38	06.6	63.314	N	151.880	W	33	N		0.8	7	CENTRAL ALASKA. ML 2.7 (PMR).
28	09	40	13.5	44.931	N	6.384	E	10	G		1.0	52	FRANCE. ML 2.8 (STR), 2.6 (LDG).
28	10	22	14.6*	35.667	N	88.730	E	33	N	3.3	1.1	8	XIZANG
28	10	32	48.6&	40.370	N	25.963	E	14				4	AEGEAN SEA. <ISK>. MD 2.7 (ISK).
28	10	43	59.3?	42.49	N	84.86	E	33	N	3.5	1.3	10	NORTHERN XINJIANG, CHINA
28	11	13	27.6?	19.95	N	144.98	E	33	N	4.2	1.3	10	MARIANA ISLANDS
28	13	14	01.1*	39.874	N	140.829	E	141	*	3.7	1.0	13	EASTERN HONSHU, JAPAN
28	13	28	02.2	22.672	S	68.291	W	76	*	4.5	0.8	24	NORTHERN CHILE. Felt (II) at Calama and Chuquicamata.
28	13	40	57.0*	36.928	S	179.368	W	33	N	4.8	1.4	28	EAST OF NORTH ISLAND, N.Z.
28	13	43	20.4&	40.255	N	29.142	E	10	G			4	TURKEY. <ISK>. MD 2.6 (ISK).
28	13	53	55.2	19.213	N	64.921	W	50	*	4.1	1.0	40	VIRGIN ISLANDS. MD 4.3 (MPR).
28	14	26	20.5&	38.787	N	122.979	W	3				9	NORTHERN CALIFORNIA. <GM-P>. MD 2.9 (GM). Felt at Cloverdale.
28	15	33	23.8	40.249	N	127.257	W	10	G	4.5	0.8	48	OFF COAST OF NORTHERN CALIFORNIA. ML 4.4 (BRK).
[illegible]	15	47	31.0	46.061	N	14.784	E	10	G		0.2	6	NORTHWESTERN BALKAN REGION. ML 2.2 (VIE).
[illegible]	15	54	05.1?	21.99	S	177.14	W	300	G	4.2	1.2	30	FIJI ISLANDS REGION
[illegible]	16	06	43.9*	29.442	N	139.611	E	370	*	3.6	1.0	18	SOUTH OF HONSHU, JAPAN
28	16	27	07.8*	8.460	N	137.826	E	33	N	4.1	1.4	14	WESTERN CAROLINE ISLANDS
28	16	34	20.3?	15.86	N	87.28	W	33	N	4.2	1.4	17	HONDURAS
28	16	37	20.3	3.903	N	122.804	E	577		4.8	0.9	45	CELEBES SEA
28	16	42	04.7	4.588	S	151.415	E	33	N	4.5	1.2	22	NEW BRITAIN REGION, P.N.G.
28	16	54	21.1*	45.035	N	25.521	E	33	N		0.9	6	ROMANIA
28	17	21	57.9*	6.297	S	152.798	E	33	N	4.2	0.7	15	NEW BRITAIN REGION, P.N.G.
28	17	38	50.0*	3.950	S	142.546	E	33	N	3.9	0.9	11	NEAR N COAST OF NEW GUINEA, PNG.
28	18	09	15.9*	34.243	N	25.939	E	33	N		1.1	11	CRETE. MD 3.9 (ATH).
28	18	40	26.7&	39.757	N	26.375	E	10	G			5	TURKEY. <ISK>. MD 2.9 (ISK).
28	18	54	02.9*	47.598	N	14.769	E	10	G		1.4	5	AUSTRIA. ML 1.5 (VIE).
28	20	22	44.6*	7.036	S	106.732	E	100	G	4.2	1.2	19	JAWA, INDONESIA
28	20	45	00.5&	39.338	N	26.720	E	6				4	TURKEY. <ISK>. MD 2.9 (ISK).
28	20	48	07.7	40.138	N	19.743	E	10	G		0.9	23	ALBANIA. MD 3.5 (ATH). ML 3.4 (ROM), 3.2 (PDG).
28	20	51	59.8	35.164	N	31.725	E	56			0.8	27	CYPRUS REGION. MD 3.7 (ISK).
28	20	57	58.4*	10.835	S	120.958	E	33	N	3.1	0.3	5	SUMBA REGION, INDONESIA
28	22	01	49.2*	51.265	N	15.825	E	5	G		1.4	7	POLAND. ML 2.9 (VIE), 2.7 (WAR).
28	22	28	29.6&	32.215	S	71.672	W	9				10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
28	22	35	51.6*	5.356	S	151.873	E	61	*	4.7	0.9	20	NEW BRITAIN REGION, P.N.G.
28	23	27	43.4&	40.730	N	28.999	E	5				7	TURKEY. <ISK>. MD 2.6 (ISK).

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.

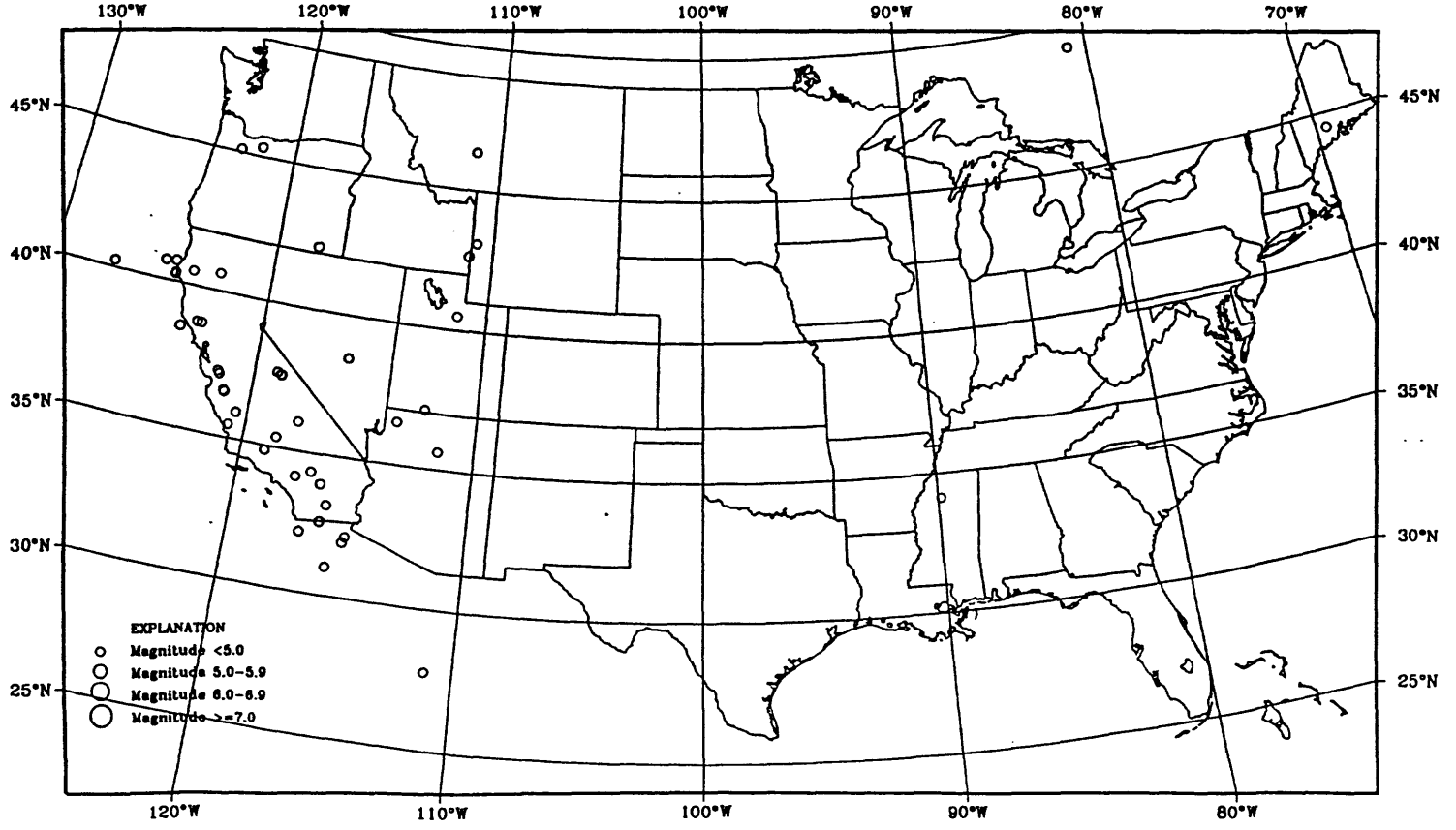
Earthquakes located worldwide in February 1999



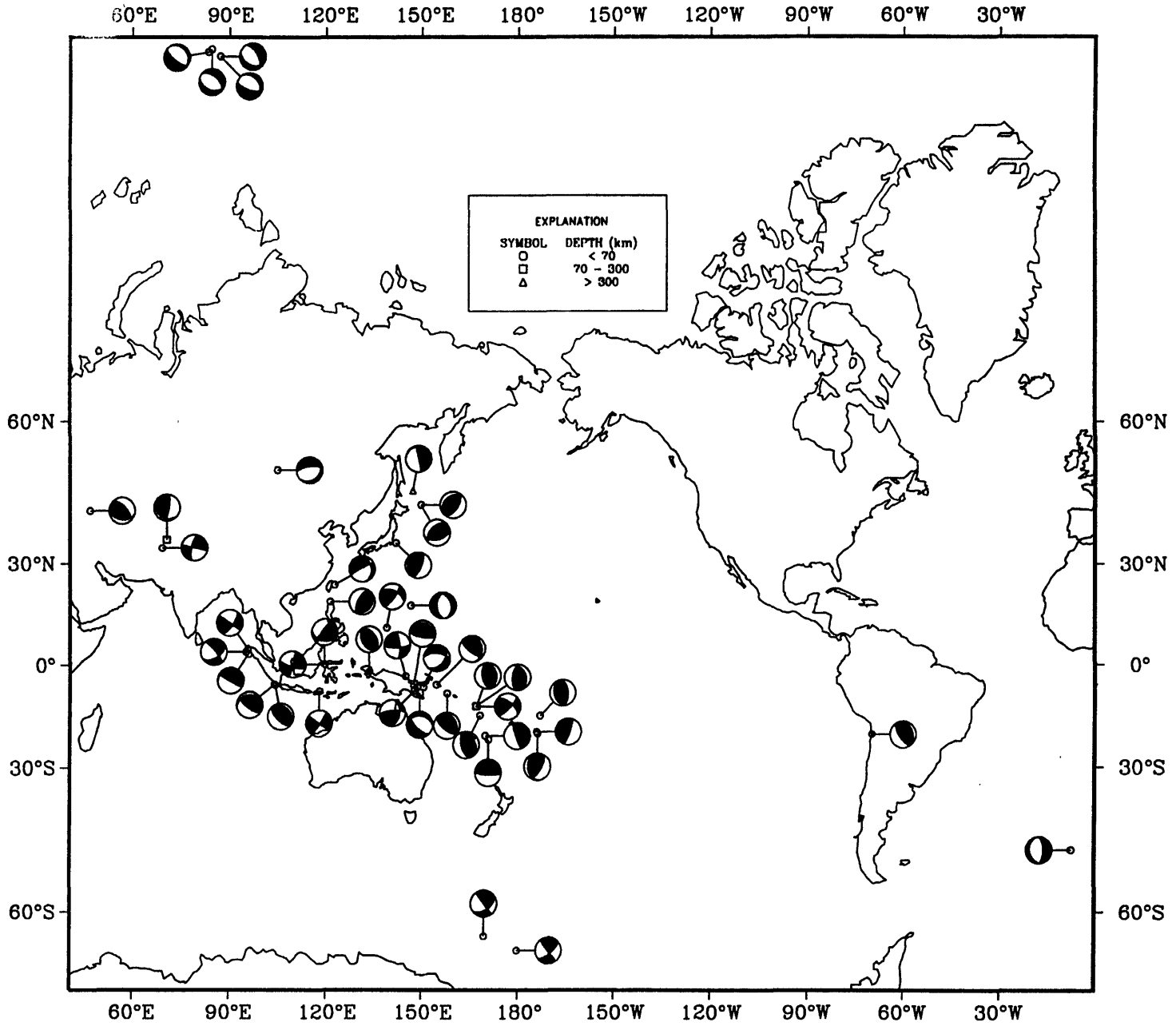
Earthquake epicenters in Alaska and adjacent regions for February 1999



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



Earthquake Focal Mechanisms for February 1999



USGS
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U.S. Department of the Interior
U.S. Geological Survey

Preliminary Determination of Epicenters

Monthly Listing

National Earthquake Information Center

MARCH 1999

ORIGIN TIME UTC DAY	HR	MN	SEC	GEOGRAPHIC COORDINATES LAT	LONG	DEPTH	MAGNITUDE GS MB	Msz	SD	NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
01	00	39	08.4&	16.268 N	98.216 W	5				6	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.9 (UNM).
01	01	00	12.5*	33.963 N	74.938 E	33 N			0.6	7	SOUTHWESTERN KASHMIR
01	01	02	47.5&	18.150 N	67.240 W	23				5	MONA PASSAGE. <MPR>. MD 2.8 (MPR).
01	01	28	48.5*	25.790 S	137.678 E	10 G			1.1	7	NORTHERN TERRITORY, AUSTRALIA
01	02	58	45.4&	62.109 N	149.629 W	45				16	CENTRAL ALASKA. <AEIC>. ML 2.7 (AEIC), 2.8 (PMR).
01	03	02	42.4&	34.700 N	26.320 E	5				5	CRETE. <ATH>. MD 3.8 (ATH).
01	03	28	31.5*	34.744 N	26.335 E	10 G	3.5		1.3	13	CRETE. MD 3.9 (ATH).
01	04	43	49.4*	5.463 N	126.096 E	33 N	4.2		0.8	12	MINDANAO, PHILIPPINE ISLANDS
01	05	13	01.4&	4.469 N	75.660 W	3				6	COLOMBIA. <RSNC>. ML 2.3 (RSNC).
01	05	37	02.9*	34.483 N	136.208 E	80 *			0.9	7	WESTERN HONSHU, JAPAN
01	05	51	32.5&	34.034 N	118.318 W	9				5	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.6 (PAS). Felt at Los Angeles.
01	06	03	54.6	28.219 N	129.484 E	55 *	4.7	3.9	1.3	56	RYUKYU ISLANDS. Felt (III JMA) on Amami-O-shima, (II JMA) on Kikai-jima and (I JMA) on Toku-no-shima.
01	06	36	45.1&	33.886 S	70.633 W	87				11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
01	06	41	59.7*	41.682 N	80.346 E	33 N	4.4		1.0	14	SOUTHERN XINJIANG, CHINA
01	07	32	46.8*	11.487 S	120.225 E	33 N	3.4		1.5	5	SOUTH OF SUMBA, INDONESIA
01	07	54	05.2&	37.160 N	21.130 E	5				6	SOUTHERN GREECE. <ATH>. MD 3.4 (ATH).
01	08	00	23.5&	32.573 N	104.656 W	1				9	NEW MEXICO. <SNM-P>. MD 2.7 (SNM). mbLg 2.9 (GS).
01	08	51	00.8	2.975 S	126.528 E	33 N	5.7	5.3	1.0	135	CERAM SEA. Mw 5.7 (HRV), 5.6 (GS). Moment Tensor (GS): Dep 12; Principal axes (scale 10**17 Nm): (T) Val=3.06, Plg=41, Azm=95; (N) Val=0.01, Plg=49, Azm=278; (P) Val=-3.08, Plg=2, Azm=186; Best double couple: Mo=3.1*10**17 Nm; NP1: Strike=239, Dip=61, Slip=30; NP2: Strike=133, Dip=64, Slip=147. Centroid, Moment Tensor (HRV): Centroid origin time 08:51:02.7; Lat 2.79 S Fix; Lon 126.50 E Fix; Dep 15.0 Fix; Half-duration 1.9 sec; Principal axes (scale 10**17 Nm): (T) Val=4.09, Plg=55, Azm=136; (N) Val=-0.19, Plg=31, Azm=285; (P) Val=-3.90, Plg=14, Azm=24; Best double couple: Mo=4.0*10**17 Nm; NP1: Strike=149, Dip=41, Slip=142; NP2: Strike=270, Dip=66, Slip=56.
01	09	10	25.0	1.853 N	126.337 E	33 N	4.7		1.0	34	NORTHERN MOLUCCA SEA
01	09	34	23.4%	44.770 N	6.818 E	10 G			0.5	6	FRANCE
01	10	23	09.1?	0.05 S	122.14 E	100 G	4.1		1.0	11	MINAHASSA PENINSULA, SULAWESI
01	10	49	46.3	53.461 N	153.913 E	500 G	3.9		0.6	20	SEA OF OKHOTSK
01	10	58	05.4&	32.552 S	71.466 W	39				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC). Felt (II) at Papudo.
01	11	31	30.1*	23.482 S	179.956 E	567 ?	4.6		0.8	50	SOUTH OF FIJI ISLANDS
01	11	39	19.7&	61.889 N	150.752 W	56				56	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).
01	11	42	14.7	51.637 N	16.136 E	5 G			0.8	19	POLAND. ML 3.5 (WAR), 3.5 (VIE).
01	12	13	40.5*	2.723 S	138.924 E	33 N	4.1		0.9	11	IRIAN JAYA, INDONESIA
01	13	09	35.8&	36.420 N	6.840 W	10				34	STRAIT OF GIBRALTAR. <MDD>. mbLg 3.0 (MDD).
01	14	58	40.5*	2.966 S	126.434 E	33 N	4.3		0.9	15	CERAM SEA
01	15	13	43.1&	33.967 S	72.055 W	15				9	OFF COAST OF CENTRAL CHILE. <GUC>.
01	15	48	15.2	42.687 N	111.171 W	5 G			0.8	22	EASTERN IDAHO. ML 3.2 (GS), 3.5 (BUT).
01	16	13	39.1*	7.438 S	129.224 E	156 *	4.4		1.3	16	BANDA SEA
01	16	52	06.3*	51.490 N	16.345 E	5 G			0.6	8	POLAND. ML 3.4 (VIE), 3.2 (WAR).
01	17	11	21.9	32.393 S	69.731 W	114			0.9	25	MENDOZA PROVINCE, ARGENTINA. MD 4.4 (GUC).
01	17	25	00.0	8.560 N	83.240 W	22	4.9	4.2	1.1	73	COSTA RICA. MD 4.5 (CASC). Felt at Rio Sereno, Panama.
01	17	46	46.3	85.686 N	86.034 E	10 G	5.0	5.0	0.8	88	NORTH OF SEVERNAYA ZEMLYA. Mw 5.5 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 17:46:48.4; Lat 85.96 N; Lon 84.04 E; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.71, Plg=30, Azm=199; (N) Val=-0.01, Plg=14, Azm=111; (P) Val=-1.70, Plg=57, Azm=349; Best double couple: Mo=1.7*10**17 Nm; NP1: Strike=324, Dip=20, Slip=-46; NP2: Strike=98, Dip=76, Slip=-104.
01	18	11	45.2?	1.77 S	135.27 E	33 N	3.6		1.1	7	IRIAN JAYA REGION, INDONESIA
01	18	29	40.5&	60.866 N	147.372 W	34	4.0			101	SOUTHERN ALASKA. <AEIC>. ML 3.9 (AEIC), 4.0 (PMR).
01	18	35	11.8?	53.76 N	169.53 W	202 ?			0.8	8	FOX ISLANDS, ALEUTIAN ISLANDS

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01  18 45 01.2*  8.673 N   83.230 W   33 N  4.9       1.4   29  COSTA RICA. ML 4.7 (CASC).
01  19 23 59.0  10.485 S   74.726 W   33 N  5.0       0.9   64  CENTRAL PERU
01  19 37 06.8& 40.070 N   24.480 E   34                   6  AEGEAN SEA. <ATH>. MD 3.4 (ATH).
01  20 07 28.4* 48.187 N  146.259 E  500 G             0.9   12  SEA OF OKHOTSK
01  20 12 21.7  85.669 N   84.903 E   10 G  4.5 3.9   1.0   42  NORTH OF SEVERNAYA ZEMLYA
01  21 09 50.6& 61.531 N  146.585 W   32                  60  SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC).
01  21 51 22.0  13.640 N   88.734 W   33 N  4.7 4.2   1.3   59  EL SALVADOR. MD 4.7 (CASC). Felt (VI) at San Vicente.
01  22 07 58.1& 13.635 N   60.848 W   38                   8  WINDWARD ISLANDS. <TRN>. MD 3.8 (TRN).
02  01 57 21.0& 38.890 N   21.220 E   26                   4  GREECE. <ATH>. MD 2.8 (ATH).
02  02 02 26.3? 60.35  S  155.66  E   33 N  4.5       1.0   11  MACQUARIE ISLANDS REGION
02  02 02 49.7& 38.780 N   21.160 E   13                   6  GREECE. <ATH>. MD 2.9 (ATH).
02  02 14 07.0?  6.79  S  147.39  E   33 N  3.9       1.3    7  EASTERN NEW GUINEA REG., P.N.G.
02  02 19 45.7* 37.281 N   72.003 E  174 ?  3.8       1.2   17  TAJIKISTAN
02  02 30 09.2& 44.413 N    7.201 E   12                   5  NORTHERN ITALY. <GEN>. ML 1.7 (GEN).
02  04 09 54.3& 46.800 N    2.800 E    7                  20  FRANCE. <LDG>. ML 2.9 (STR), 2.5 (LDG).
02  04 24 40.3* 51.753 N  104.467 E   10 G  4.0       1.2    9  LAKE BAYKAL REGION, RUSSIA. Felt (II) at Irkutsk.
02  04 26 51.5& 46.800 N    2.800 E   11                   6  FRANCE. <LDG>. ML 1.6 (LDG).
02  04 27 47.2& 60.512 N  151.549 W   63                  55  KENAI PENINSULA, ALASKA. <AEIC>. ML 2.7 (AEIC).
02  04 29 54.0& 37.360 N    2.050 W   16                  11  SPAIN. <MDD>. mbLg 2.1 (MDD).
02  04 55 31.0& 49.180 N    6.720 E    1 G                 4  GERMANY. <FBB>. ML 2.0 (FBB), 1.8 (UCC).
02  05 00 49.9  21.559 S   68.211 W  129 D  4.7       1.0   54  CHILE-BOLIVIA BORDER REGION
02  05 31 54.6* 17.455 S  178.933 W  516 ?  4.7       1.0   36  FIJI ISLANDS REGION
02  06 09 15.6*  5.326 N   82.603 W   33 N  4.6       1.2   51  SOUTH OF PANAMA
02  06 38 19.8& 35.630 N    6.340 W   16                  18  STRAIT OF GIBRALTAR. <MDD>. mbLg 2.0 (MDD).
02  06 51 57.2& 60.539 N  153.509 W    3                  66  SOUTHERN ALASKA. <AEIC>. ML 3.4 (AEIC), 3.3 (PMR).
02  06 59 07.8* 85.728 N   81.596 E   10 G  3.4       1.5    5  NORTH OF SEVERNAYA ZEMLYA
02  07 11 17.9* 75.734 N   94.855 W    5 G             0.8    5  QUEEN ELIZABETH ISLANDS, CANADA
02  07 12 20.7  35.592 N  141.751 E   33 N  5.4 5.6   0.9  194  NEAR EAST COAST OF HONSHU, JAPAN. Mw 5.9 (GS), 5.9 (HRV).
                                                                 Felt (I JMA) in northern Chiba and parts of Fukushima and
                                                                 Ibaraki Prefectures.
                                                                Moment Tensor (GS): Dep 9; Principal axes (scale 10**17 Nm):
                                                                 (T) Val=8.61, Plg=49, Azm=270; (N) Val=0.11, Plg=15,
                                                                 Azm=18; (P) Val=-8.71, Plg=37, Azm=119; Best double couple:
                                                                 Mo=8.7*10**17 Nm; NP1: Strike=262, Dip=16, Slip=156; NP2:
                                                                 Strike=16, Dip=83, Slip=75.
                                                                Centroid, Moment Tensor (HRV): Centroid origin time
                                                                 07:12:22.7; Lat 35.40 N Fix; Lon 141.85 E Fix; Dep 15.0
                                                                 Fix; Half-duration 2.3 sec; Principal axes (scale 10**17
                                                                 Nm): (T) Val=8.48, Plg=54, Azm=253; (N) Val=0.52, Plg=15,
                                                                 Azm=5; (P) Val=-9.00, Plg=32, Azm=104; Best double couple:
                                                                 Mo=8.7*10**17 Nm; NP1: Strike=234, Dip=19, Slip=141; NP2:
                                                                 Strike=2, Dip=78, Slip=75.
02  07 13 02.6& 13.385 N   88.992 W    0                   7  EL SALVADOR. <CASC>. MD 4.1 (CASC).
02  07 42 13.8&  4.399 N   75.701 W    4                   9  COLOMBIA. <RSNC>. ML 3.3 (RSNC).
02  08 02 53.1& 35.349 S   71.374 W  107                  13  CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
02  08 17 20.9*  3.047 S  122.770 E   33 N  4.0       1.0    6  SULAWESI, INDONESIA
02  08 57 22.8& 35.277 S   71.859 W   26                  10  CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
02  09 06 51.3? 12.84  N   58.12  E   33 N  4.1       1.3   10  ARABIAN SEA
02  09 38 45.9? 41.85  N  131.21  E  581 ?  3.6       1.1    9  SEA OF JAPAN
02  10 27 59.0* 39.598 N   75.018 E   33 N  3.1       0.9    5  SOUTHERN XINJIANG, CHINA
02  10 41 19.8& 38.850 N   21.150 E    5                  11  GREECE. <ATH>. MD 3.2 (ATH).
02  11 14 47.6* 27.263 N   55.149 E   33 N  4.3       1.5   19  SOUTHERN IRAN
02  11 32 34.9& 37.320 N   20.610 E    5                   4  IONIAN SEA. <ATH>. MD 2.8 (ATH).
02  11 58 11.2*  4.910 S  151.527 E  123 *  4.1       1.2   23  NEW BRITAIN REGION, P.N.G.
02  12 32 40.2& 38.360 N   26.550 E   26                   4  AEGEAN SEA. <ATH>. MD 3.6 (ATH).
02  13 26 27.9& 15.595 N   95.693 W   48                   4  NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 4.0 (UNM).
02  13 46 03.8?  7.37  S  117.92  E  259 *  3.8       1.5   11  BALI SEA
02  14 05 29.0? 23.86  N  144.20  E   97 D             1.1    6  VOLCANO ISLANDS REGION
02  14 08 28.0* 31.413 S   68.936 W  100 G             1.1   15  SAN JUAN PROVINCE, ARGENTINA. MD 3.9 (GUC).
02  14 20 49.5  32.871 N  132.547 E   33 N  4.2       1.3   25  SHIKOKU, JAPAN. Felt (II JMA) in southern Kochi and (I JMA)
                                                                 in western Ehime Prefectures. Also felt (II JMA) in
                                                                 southeastern Oita and (I JMA) in northern Miyazaki
                                                                 Prefectures, Kyushu.
02  14 44 01.6*  3.743 N   31.528 W   10 G  4.6 4.1   1.0   25  CENTRAL MID-ATLANTIC RIDGE
02  14 56 56.7& 33.156 S   70.223 W    4                   9  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.2 (GUC).
02  14 59 12.0& 36.600 N  121.200 W    6                  11  CENTRAL CALIFORNIA. <GM-P>. MD 2.9 (GM).
02  15 54 58.6* 55.838 N  161.053 E   33 N  4.6       1.0   18  NEAR EAST COAST OF KAMCHATKA
02  16 07 49.3* 16.494 S  172.428 W   33 N  4.7       1.2   29  SAMOA ISLANDS REGION
02  16 40 08.6* 27.344 S  176.688 W   33 N  5.1 4.9   1.2   45  KERMADEC ISLANDS REGION. Mw 5.2 (HRV).
                                                                Centroid, Moment Tensor (HRV): Centroid origin time
                                                                 16:40:16.5; Lat 27.32 S; Lon 176.41 W; Dep 15.0 Fix; Half-
                                                                 duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                 Val=7.01, Plg=69, Azm=275; (N) Val=1.92, Plg=7, Azm=24; (P)
                                                                 Val=-8.93, Plg=20, Azm=116; Best double couple:
                                                                 Mo=8.0*10**16 Nm; NP1: Strike=218, Dip=26, Slip=106; NP2:
                                                                 Strike=20, Dip=65, Slip=82.
02  16 54 16.1* 27.608 S  176.486 W   33 N  5.3 5.4   1.1   57  KERMADEC ISLANDS REGION. Mw 5.6 (HRV).
                                                                Centroid, Moment Tensor (HRV): Centroid origin time
                                                                 16:54:20.7; Lat 27.23 S; Lon 176.00 W; Dep 35.2; Half-
                                                                 duration 1.6 sec; Principal axes (scale 10**17 Nm): (T)
                                                                 Val=2.40, Plg=60, Azm=305; (N) Val=0.25, Plg=8, Azm=202;
                                                                 (P) Val=-2.65, Plg=29, Azm=108; Best double couple:
                                                                 Mo=2.5*10**17 Nm; NP1: Strike=177, Dip=18, Slip=64; NP2:
                                                                 Strike=24, Dip=74, Slip=98.
02  17 40 52.8* 44.496 N  149.190 E   33 N  3.5       0.7    8  KURIL ISLANDS
02  17 45 55.1  22.717 S   68.503 W  111 D  5.8       1.0  343  NORTHERN CHILE. Mw 5.9 (GS), 5.9 (HRV). Me 5.9 (GS). Felt
                                                                 (V) at Calama, Camar, Chuquicamata, Quillagua, San Pedro de
                                                                 Atacama, Socaire and Talabre; (IV) at Peine, Sierra Gorda,
                                                                 Toconao and Tocopilla; (III) at Antofagasta, Chanaral,
                                                                 Copiapo, El Salvador, Iquique, Maria Elena, Mejillones and
                                                                 Taltal.
                                                                Broadband Source Parameters (GS): Dep 108; NP1: Strike=165,
                                                                 Dip=25, Slip=-90; NP2: Strike=345, Dip=65, Slip=-90;
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Radiated energy 1.5*10**13 Nm.
Moment Tensor (GS): Dep 110; Principal axes (scale 10**18 Nm): (T) Val=1.02, Plg=25, Azm=78; (N) Val=-0.15, Plg=11, Azm=173; (P) Val=-0.87, Plg=63, Azm=284; Best double couple: Mo=9.4*10**17 Nm; NP1: Strike=146, Dip=22, Slip=-119; NP2: Strike=357, Dip=71, Slip=-79.
Centroid, Moment Tensor (HRV): Centroid origin time 17:45:58.9; Lat 22.93 S; Lon 68.72 W; Dep 124.8; Half-duration 2.1 sec; Principal axes (scale 10**17 Nm): (T) Val=8.19, Plg=19, Azm=66; (N) Val=-0.75, Plg=9, Azm=159; (P) Val=-7.44, Plg=69, Azm=273; Best double couple: Mo=7.8*10**17 Nm; NP1: Strike=142, Dip=27, Slip=-109; NP2: Strike=343, Dip=64, Slip=-80.

02	18	45	03.8	44.236	N	149.297	E	33	N	4.3 4.1	1.1	34	KURIL ISLANDS
02	18	59	48.7*	29.487	N	138.902	E	447	*		1.0	17	SOUTH OF HONSHU, JAPAN
02	19	08	22.2	36.458	N	114.515	W	5	G		0.8	9	SOUTHERN NEVADA. ML 3.0 (GS).
02	19	09	25.4?	13.52	N	89.74	W	33	N	3.9	1.3	15	EL SALVADOR
02	19	14	02.2?	24.14	S	175.46	W	41	D	4.6	1.3	16	SOUTH OF TONGA ISLANDS
02	19	35	09.8?	6.13	S	150.53	E	75	?	3.6	0.8	9	NEW BRITAIN REGION, P.N.G.
02	20	38	04.7&	37.590	N	23.570	E	33	N			5	SOUTHERN GREECE. <ATH>. MD 2.5 (ATH).
02	20	45	11.3	16.980	N	99.610	W	33	N	4.2	1.2	27	NEAR COAST OF GUERRERO, MEXICO. MD 4.2 (UNM).
02	21	15	29.8	51.591	N	179.538	E	72	D	5.3	0.9	232	RAT ISLANDS, ALEUTIAN ISLANDS. Mw 5.3 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 21:15:35.8; Lat 51.44 N; Lon 178.84 E; Dep 78.2; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.01, Plg=49, Azm=56; (N) Val=-0.20, Plg=32, Azm=191; (P) Val=-0.82, Plg=23, Azm=296; Best double couple: Mo=9.1*10**16 Nm; NP1: Strike=70, Dip=36, Slip=154; NP2: Strike=181, Dip=75, Slip=57.

02	21	47	38.0*	3.026	S	130.232	E	33	N	4.3	0.9	11	SERAM, INDONESIA
02	22	26	06.7*	2.965	S	130.153	E	33	N	4.9	1.2	20	SERAM, INDONESIA
02	22	33	58.0*	5.972	S	148.484	E	91	*	4.4	0.9	23	NEW BRITAIN REGION, P.N.G.
02	22	55	57.2?	1.12	S	100.66	E	120	?	4.4	1.4	15	SOUTHERN SUMATERA, INDONESIA
02	23	01	35.8	12.462	N	144.880	E	46	*	4.6 4.0	1.1	40	SOUTH OF MARIANA ISLANDS
02	23	29	21.0*	51.363	N	15.861	E	5	G		0.9	14	POLAND. ML 3.6 (GRF), 3.4 (VIE).
02	23	32	49.0*	3.036	S	130.086	E	33	N	4.0	1.1	8	SERAM, INDONESIA
02	23	35	26.7?	36.36	N	69.33	E	71	?	3.9	1.3	8	HINDU KUSH REGION, AFGHANISTAN
03	00	32	47.8&	34.700	S	70.252	W	45				9	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.1 (GUC).
03	00	40	20.4&	36.660	N	121.286	W	9				10	CENTRAL CALIFORNIA. <GM-P>. MD 3.0 (GM). ML 3.0 (BRK).
03	01	04	56.0?	23.68	S	66.06	W	235	*	3.8	0.8	9	JUJUY PROVINCE, ARGENTINA
03	01	24	12.2&	18.910	N	66.270	W	71				4	PUERTO RICO REGION. <MPR>. MD 2.9 (MPR).
03	02	08	37.3*	51.586	N	103.800	E	10	G	3.8	1.0	8	LAKE BAYKAL REGION, RUSSIA. Felt (II) at Irkutsk.
03	02	11	33.4&	33.466	S	70.879	W	77				11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.2 (GUC).
03	02	16	53.9*	34.677	S	179.333	W	150	G	4.3	1.2	24	SOUTH OF KERMADEC ISLANDS
03	02	50	51.1	3.488	S	131.253	E	33	N	4.8 4.5	1.3	36	IRIAN JAYA REGION, INDONESIA
03	03	58	11.2	3.888	N	31.522	W	10	G	4.8 4.5	1.0	48	CENTRAL MID-ATLANTIC RIDGE
03	04	28	51.2	37.260	N	27.169	E	10	G	4.1	1.4	70	TURKEY. ML 4.4 (ATH).
03	04	44	57.4	14.364	N	92.039	W	67		4.0	1.3	29	NEAR COAST OF CHIAPAS, MEXICO. MD 4.7 (UNM), 4.3 (CASC).
03	04	52	48.4*	39.200	N	23.607	E	10	G		0.2	5	AEGEAN SEA. MD 3.1 (ATH).
03	04	53	56.9&	61.499	N	146.594	W	16				35	SOUTHERN ALASKA. <AEIC>. ML 3.3 (AEIC), 3.4 (PMR).
03	05	00	48.0*	7.425	S	128.623	E	149	?	4.3	1.4	14	BANDA SEA
03	05	19	10.5?	8.69	S	119.82	E	153	*	3.9	0.7	6	FLORES REGION, INDONESIA
03	05	26	45.8&	48.420	N	7.810	E	10	G			6	FRANCE. <STR>. ML 1.8 (STR).
03	05	31	40.4	31.825	N	137.679	E	426		4.2	0.8	44	SOUTH OF HONSHU, JAPAN
03	06	01	08.9?	8.84	N	82.32	W	33	N	4.1	1.0	6	PANAMA-COSTA RICA BORDER REGION
03	06	17	41.2*	35.415	S	179.432	W	100	G	4.3	1.4	17	EAST OF NORTH ISLAND, N.Z.
03	06	45	50.6	15.587	N	47.006	W	10	G	4.5	1.1	34	NORTHERN MID-ATLANTIC RIDGE
03	07	51	47.0	5.651	S	133.817	E	24	*	4.4	1.4	22	ARU ISLANDS REGION, INDONESIA
03	08	15	36.0&	45.210	N	117.100	W	5	G			14	OREGON. <BSE-P>. ML 2.8 (BSE).
03	08	25	03.0&	45.230	N	117.100	W	5	G	2.7		25	OREGON. <BSE-P>. ML 3.3 (BSE), 3.5 (BUT).
03	08	50	04.7&	11.033	N	62.145	W	99				5	WINDWARD ISLANDS. <TRN>. MD 2.9 (TRN).
03	09	11	41.5&	34.497	S	70.451	W	2				9	CHILE-ARGENTINA BORDER REGION. <GUC>.
03	09	51	35.7?	50.15	N	19.40	E	5	G		1.3	7	POLAND. ML 3.3 (WAR).
03	12	23	26.2	51.091	N	155.495	E	178	?	4.3	0.8	30	NORTHWEST OF KURIL ISLANDS
03	12	35	11.5&	47.900	N	6.600	E	2				4	FRANCE. <LDG>. ML 2.0 (LDG).
03	13	10	47.4	45.969	N	15.039	E	10	G		0.5	8	NORTHWESTERN BALKAN REGION. ML 2.0 (VIE), 1.4 (LJU).
03	13	45	15.7&	38.790	N	20.690	E	2				5	GREECE. <ATH>. MD 2.9 (ATH).
03	14	26	16.0	46.050	N	14.788	E	10	G		0.3	5	NORTHWESTERN BALKAN REGION. ML 1.2 (LJU).
03	14	29	08.7	37.839	N	114.338	W	5	G		0.6	8	SOUTHERN NEVADA. ML 2.8 (GS).
03	14	41	26.2&	33.173	S	70.940	W	70				10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.2 (GUC).
03	14	51	38.7?	11.23	N	144.28	E	33	N	3.7	1.2	7	SOUTH OF MARIANA ISLANDS
03	15	56	33.8&	33.051	S	71.955	W	15				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
03	16	51	25.7	18.070	S	175.281	W	243	D	4.9	1.0	52	TONGA ISLANDS
03	17	53	54.0*	85.660	N	85.223	E	10	G	3.8	0.9	12	NORTH OF SEVERNAYA ZEMLYA
03	18	16	54.4	34.523	N	26.052	E	33	N		1.4	19	CRETE
03	18	44	00.2?	33.93	N	140.55	E	100	?		0.6	6	SOUTH OF HONSHU, JAPAN
03	18	53	01.3	17.823	N	100.188	W	76	D		1.1	27	GUERRERO, MEXICO. MD 4.3 (UNM).
03	19	40	48.5*	31.306	S	68.616	W	100	G		1.2	14	SAN JUAN PROVINCE, ARGENTINA. MD 3.3 (GUC).
03	20	10	57.2&	33.115	S	70.292	W	1				7	CHILE-ARGENTINA BORDER REGION. <GUC>.
03	20	37	09.0&	18.720	N	67.310	W	29				4	MONA PASSAGE. <MPR>. MD 2.5 (MPR).
03	20	38	08.9?	3.60	S	130.89	E	33	N	4.2	1.4	7	SERAM, INDONESIA
03	20	48	27.2*	51.287	N	15.762	E	5	G		1.1	9	POLAND. ML 3.4 (GRF), 3.1 (VIE).
03	21	03	50.4*	28.684	N	130.065	E	33	N	3.6	1.4	10	RYUKYU ISLANDS
03	21	07	04.1*	85.852	N	83.073	E	10	G		1.0	11	NORTH OF SEVERNAYA ZEMLYA
03	21	55	15.5&	34.776	S	71.768	W	31				11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
03	22	13	01.1&	32.749	S	70.929	W	69				11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 1.7 (GUC .
03	23	55	03.2&	17.041	N	94.773	W	125				7	CHIAPAS, MEXICO. <UNM>. MD 4.1 (UNM).
04	00	16	51.3*	55.109	N	4.857	W	10	G		0.6	17	UNITED KINGDOM. Felt (IV) on Arran. Felt at Ayr, Castle Douglas, Dumfries and Peebles, Scotland. Also felt at Belfast, Northern Ireland.
04	00	57	29.1&	37.620	N	21.030	E	5				11	SOUTHERN GREECE. <ATH>. ML 3.4 (ATH).
04	01	47	32.6*	13.404	N	96.719	E	33	N	4.6	1.3	11	ANDAMAN ISLANDS, INDIA
04	02	24	04.8*	13.390	N	96.649	E	33	N	4.5	1.0	7	ANDAMAN ISLANDS, INDIA

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04  02 59 09.2& 59.819 N  153.237 W  125                    54  SOUTHERN ALASKA. <AEIC>.
04  03 32 46.8  80.619 N    3.279 W   10 G  4.5       1.1   25  NORTH OF SVALBARD
04  04 10 04.5* 14.147 S  175.977 W   33 N  4.4       0.7   13  SAMOA ISLANDS REGION
04  05 13 23.4& 35.387 S   71.512 W   94                     11  CENTRAL CHILE. <GUC>. MD 2.9 (GUC).
04  05 34 11.4& 33.654 S   72.496 W    6                     12  OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
04  05 38 26.5  28.343 N   57.193 E   33 N  6.2 6.5  0.9  368  SOUTHERN IRAN. Mw 6.6 (HRV), 6.4 (GS), 6.4 (CSEM). Me 6.0
                                                               (GS). One person killed and at least 517 houses damaged in
                                                               the Kerman area. Felt at Baft, Bam, Esfandaqeh, Rafsanjan,
                                                               Ravar, Sirjan and Zehmakan. Also felt at Dubai, United Arab
                                                               Emirates.
                                                              Broadband Source Parameters (GS): Dep 23; NP1: Strike=90,
                                                               Dip=83, Slip=60; NP2: Strike=348, Dip=31, Slip=166;
                                                               Radiated energy 2.2*10**13 Nm.
                                                              Moment Tensor (GS): Dep 21; Principal axes (scale 10**18
                                                               Nm): (T) Val=4.16, Plg=53, Azm=354; (N) Val=-0.02, Plg=8,
                                                               Azm=95; (P) Val=-4.13, Plg=35, Azm=190; Best double couple:
                                                               Mo=4.1*10**18 Nm; NP1: Strike=314, Dip=12, Slip=130; NP2:
                                                               Strike=93, Dip=81, Slip=82.
                                                              Centroid, Moment Tensor (HRV): Centroid origin time
                                                               05:38:34.2; Lat 27.91 N; Lon 57.49 E; Dep 26.0 Bdy; Half-
                                                               duration 5.5 sec; Principal axes (scale 10**19 Nm): (T)
                                                               Val=0.95, Plg=59, Azm=11; (N) Val=0.12, Plg=6, Azm=271; (P)
                                                               Val=-1.07, Plg=30, Azm=178; Best double couple:
                                                               Mo=1.0*10**19 Nm; NP1: Strike=250, Dip=16, Slip=68; NP2:
                                                               Strike=93, Dip=75, Slip=96.
                                                              Moment Tensor (CSEM): Dep 40; Principal axes: (T) Plg=31,
                                                               Azm=340; (N) Plg=40, Azm=100; (P) Plg=35, Azm=226; Best
                                                               double couple: Mo=4.7*10**18 Nm; NP1: Strike=15, Dip=40,
                                                               Slip=-176; NP2: Strike=282, Dip=87, Slip=-50.
04  05 47 49.9  28.323 N   57.147 E   33 N  5.6       0.9  227  SOUTHERN IRAN
04  05 50 28.3  28.411 N   57.097 E   33 N  5.1       0.7   53  SOUTHERN IRAN
04  06 03 42.9& 34.639 S   70.451 W  151                     13  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
04  06 21 51.2  28.336 N   57.092 E   33 N  4.6       0.8   35  SOUTHERN IRAN
04  07 16 36.2  28.496 N   57.076 E   33 N  5.0       1.1  110  SOUTHERN IRAN
04  07 19 18.2  28.127 N   57.113 E   33 N  5.3       0.9  125  SOUTHERN IRAN
04  07 22 48.6*  6.580 S  154.649 E   71 *  4.4       1.3   29  SOLOMON ISLANDS
04  07 26 04.4  28.466 N   56.939 E   33 N  5.2       1.0  149  SOUTHERN IRAN
04  07 31 37.4? 56.30  S  139.38  W   10 G  4.2       0.9   10  PACIFIC-ANTARCTIC RIDGE
04  07 52 45.5  85.735 N   84.906 E   10 G  4.9 4.8  1.2   55  NORTH OF SEVERNAYA ZEMLYA. Mw 5.5 (HRV).
                                                              Centroid, Moment Tensor (HRV): Centroid origin time
                                                               07:52:49.8; Lat 85.84 N; Lon 88.45 E; Dep 15.0 Fix; Half-
                                                               duration 1.1 sec; Principal axes (scale 10**17 Nm): (T)
                                                               Val=1.62, Plg=19, Azm=68; (N) Val=0.45, Plg=6, Azm=160; (P)
                                                               Val=-2.08, Plg=70, Azm=266; Best double couple:
                                                               Mo=1.9*10**17 Nm; NP1: Strike=148, Dip=26, Slip=-103; NP2:
                                                               Strike=343, Dip=65, Slip=-84.
04  07 57 18.7& 16.801 N  100.184 W    7                     21  NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.8 (UNM).
04  08 17 43.7* 85.368 N   87.491 E   10 G  3.4       0.9    5  NORTH OF SEVERNAYA ZEMLYA
04  08 21 45.0& 38.960 N  111.360 W    1                     11  UTAH. <SLC-P>. ML 2.9 (SLC).
04  08 29 16.0? 36.13  N  139.26  E   90 *  3.2       0.9    9  EASTERN HONSHU, JAPAN
04  08 52 01.9   5.397 N  121.937 E   33 N  6.4 6.5  1.2  251  CELEBES SEA. Mw 7.1 (HRV), 7.0 (GS). Me 6.9 (GS). 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.
                                                              Broadband Source Parameters (GS): Radiated energy 5.9*10**14
                                                               Nm.
                                                              Moment Tensor (GS): Dep 7; Principal axes (scale 10**19 Nm):
                                                               (T) Val=3.13, Plg=72, Azm=106; (N) Val=-0.06, Plg=6,
                                                               Azm=356; (P) Val=-3.06, Plg=17, Azm=264; Best double
                                                               couple: Mo=3.1*10**19 Nm; NP1: Strike=344, Dip=29, Slip=77;
                                                               NP2: Strike=179, Dip=62, Slip=97.
                                                              Centroid, Moment Tensor (HRV): Centroid origin time
                                                               08:52:11.1; Lat 5.38 N; Lon 122.03 E; Dep 18.0 Bdy; Half-
                                                               duration 9.1 sec; Principal axes (scale 10**19 Nm): (T)
                                                               Val=5.00, Plg=81, Azm=96; (N) Val=-0.15, Plg=3, Azm=345;
                                                               (P) Val=-4.84, Plg=9, Azm=254; Best double couple:
                                                               Mo=4.9*10**19 Nm; NP1: Strike=340, Dip=37, Slip=84; NP2:
                                                               Strike=167, Dip=54, Slip=94.
                                                              Scalar Moment (PPT): Mo=9.2*10**19 Nm.
04  09 06 54.5?  5.22  N  121.76  E   33 N  4.6       1.1   11  CELEBES SEA
04  09 16 10.1?  5.45  N  121.76  E   33 N  4.3       1.1   10  CELEBES SEA
04  09 19 36.3  28.481 N   57.012 E   33 N  4.5       0.8   21  SOUTHERN IRAN
04  09 33 52.8*  5.369 N  122.045 E   33 N  4.4       1.1   12  CELEBES SEA
04  09 35 53.3?  5.47  N  122.26  E   33 N  4.4       0.8    6  CELEBES SEA
04  09 38 02.0*  5.187 N  121.857 E   33 N  4.4       0.9   14  CELEBES SEA
04  09 50 38.1* 37.235 N  141.996 E   33 N  4.5       0.3    6  NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) in eastern
                                                               Fukushima Prefecture.
04  09 52 03.0  28.513 N   57.210 E   33 N  5.3       0.9  170  SOUTHERN IRAN
04  09 58 54.3?  4.97  S  151.27  E   76 ?  4.1       0.3    7  NEW BRITAIN REGION, P.N.G.
04  10 05 06.2*  5.356 N  122.063 E   33 N  4.6       1.2   19  CELEBES SEA
04  10 27 34.0& 37.520 N  118.800 W    5                      6  CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.8 (GM).
04  11 12 59.1  28.406 N   57.087 E   33 N  4.9       0.8   56  SOUTHERN IRAN
04  11 45 44.0& 31.756 S   72.315 W   20                      9  OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).
04  11 52 45.3% 39.183 S  174.865 E   10 G              0.3    7  NORTH ISLAND, NEW ZEALAND. ML 4.2 (WEL). Felt at Taumarunui.
04  11 59 18.5?  5.29  N  122.93  E   33 N  4.2       1.4   12  CELEBES SEA
04  12 26 55.0  54.849 N  164.233 W   33 N  5.1 4.9  1.3  183  UNIMAK ISLAND REGION. ML 5.5 (PMR), 5.2 (AEIC). Felt at Cold
                                                               Bay.
04  12 39 09.8* 51.855 N  178.619 E   33 N  3.7       0.4    9  RAT ISLANDS, ALEUTIAN ISLANDS
04  12 42 44.4& 54.751 N  164.192 W    0                     19  UNIMAK ISLAND REGION. <AEIC>. ML 3.1 (AEIC).
04  12 53 35.4   7.027 S  154.637 E   39 D  4.7       1.1   34  SOLOMON ISLANDS
04  13 02 09.0*  5.343 N  122.315 E   33 N  4.2       1.3   15  CELEBES SEA
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04	13	13	59.4*	3.584	S	131.173	E	33	N	4.1		1.5	20	IRIAN JAYA REGION, INDONESIA
04	14	10	21.0*	5.184	N	121.845	E	33	N	4.4		1.2	17	CELEBES SEA
04	14	11	45.6	5.336	N	122.003	E	33	N	4.7	4.3	1.2	33	CELEBES SEA
04	14	18	22.8?	28.49	N	56.87	E	33	N			1.5	8	SOUTHERN IRAN
04	15	15	59.2	39.277	N	70.694	E	25	*	4.8		1.4	43	TAJIKISTAN. Felt (II) at Toshkent, Uzbekistan.
04	15	27	26.6&	37.710	N	3.980	W	23					8	SPAIN. <MDD>. mbLg 2.0 (MDD).
04	15	35	28.5?	15.61	S	167.60	E	131	?	3.8		0.8	14	VANUATU ISLANDS
04	17	23	00.2&	42.714	N	18.442	E	27					5	NORTHWESTERN BALKAN REGION. <PDG>. ML 1.8 (PDG).
04	18	30	16.0	5.342	N	122.212	E	33	N	4.5		0.9	33	CELEBES SEA
04	18	39	23.6&	34.765	S	71.186	W	68					12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.2 (GUC).
04	19	25	54.5	28.333	N	56.953	E	33	N	4.9		1.0	58	SOUTHERN IRAN
04	19	27	15.8&	47.400	N	2.200	W	6					8	FRANCE. <LDG>. ML 2.1 (LDG).
04	19	34	17.1&	35.582	N	117.513	W	10					28	CENTRAL CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
04	19	36	03.0&	16.900	N	99.117	W	47		3.5			22	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.0 (UNM).
04	19	53	08.9&	43.820	N	7.677	E	16					27	NEAR SOUTH COAST OF FRANCE. <GEN>. ML 2.7 (GEN), 2.2 (LDG), 2.2 (STR).
04	21	09	00.6*	24.228	N	123.056	E	33	N	4.4		1.6	7	SOUTHWESTERN RYUKYU ISLANDS
04	21	13	59.6&	43.826	N	7.683	E	15					14	NEAR SOUTH COAST OF FRANCE. <GEN>. ML 2.3 (GEN), 2.0 (LDG).
04	21	53	17.7*	15.270	N	120.209	E	98	D	3.9		1.3	13	LUZON, PHILIPPINE ISLANDS
04	22	10	06.7	46.064	N	14.770	E	10	G			0.2	7	NORTHWESTERN BALKAN REGION. ML 2.1 (VIE).
04	22	28	35.0&	37.180	N	3.790	W	0	G				20	SPAIN. <MDD>. mbLg 2.8 (MDD). Felt (III) at Chauchina, Chimeneas, Cijuela, Fuente Vaqueros, Lachar, Romilla and Santa Fe.
04	22	39	10.6&	37.170	N	3.770	W	0	G				9	SPAIN. <MDD>. mbLg 2.0 (MDD).
04	22	45	56.5*	17.527	S	14.259	W	10	G	4.7		0.8	11	SOUTHERN MID-ATLANTIC RIDGE
04	22	53	44.4&	65.184	N	149.046	W	17					6	NORTHERN ALASKA. <AEIC>. ML 2.8 (AEIC), 3.1 (PMR).
04	23	13	32.9*	9.463	S	78.805	W	57	?	4.6		0.8	21	NEAR COAST OF NORTHERN PERU
04	23	25	36.8&	36.520	N	7.620	W	8					8	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.1 (MDD).
04	23	29	13.5*	5.514	S	105.858	E	204		4.2		1.1	23	SUNDA STRAIT
04	23	45	41.9*	10.858	N	62.547	W	77	*			1.3	17	NEAR COAST OF VENEZUELA. MD 3.9 (TRN).
04	23	50	44.8?	28.49	N	57.25	E	33	N			0.7	6	SOUTHERN IRAN
05	00	07	55.9*	85.709	N	85.279	E	10	G	4.1		1.1	15	NORTH OF SEVERNAYA ZEMLYA
05	00	18	49.3&	35.934	N	120.483	W	10					30	CENTRAL CALIFORNIA. <GM-P>. MD 3.4 (GM). ML 3.2 (BRK), 3.4 (PAS).
05	00	33	46.9	20.423	S	68.901	W	111	D	5.7		1.1	181	CHILE-BOLIVIA BORDER REGION. Mw 5.8 (GS), 5.8 (HRV). Felt (V) at Iquique; (IV) at Arica; (III) at Chuquicamata, Putre and Visviri; (II) at Calama and Tocopilla, Chile. Moment Tensor (GS): Dep 103; Principal axes (scale 10**17 Nm): (T) Val=5.47, Plg=29, Azm=95; (N) Val=-0.09, Plg=15, Azm=357; (P) Val=-5.37, Plg=57, Azm=243; Best double couple: Mo=5.4*10**17 Nm; NP1: Strike=220, Dip=21, Slip=-45; NP2: Strike=353, Dip=75, Slip=-105. Centroid, Moment Tensor (HRV): Centroid origin time 00:33:52.4; Lat 20.27 S; Lon 69.20 W; Dep 123.0; Half-duration 1.9 sec; Principal axes (scale 10**17 Nm): (T) Val=5.72, Plg=23, Azm=78; (N) Val=-0.64, Plg=11, Azm=344; (P) Val=-5.08, Plg=64, Azm=230; Best double couple: Mo=5.4*10**17 Nm; NP1: Strike=190, Dip=24, Slip=-62; NP2: Strike=339, Dip=69, Slip=-102.
05	00	50	19.0&	40.788	N	27.494	E	5					8	TURKEY. <ISK>. MD 2.7 (ISK).
05	00	52	47.4&	40.776	N	27.498	E	5					6	TURKEY. <ISK>. MD 2.7 (ISK).
05	00	55	29.2&	40.769	N	27.499	E	5					6	TURKEY. <ISK>. MD 2.7 (ISK).
05	01	02	54.7	28.553	N	57.117	E	33	N	4.6		1.0	52	SOUTHERN IRAN
05	02	04	19.2&	54.734	N	164.179	W	0					19	UNIMAK ISLAND REGION. <AEIC>. ML 3.4 (AEIC).
05	03	35	14.7	34.673	S	69.600	W	10	G	5.2	5.5	1.0	103	CHILE-ARGENTINA BORDER REGION. Mw 6.0 (HRV). MD 5.6 (GUC). Centroid, Moment Tensor (HRV): Centroid origin time 03:35:19.2; Lat 34.75 S; Lon 70.25 W; Dep 15.0 Fix; Half-duration 2.6 sec; Principal axes (scale 10**17 Nm): (T) Val=9.84, Plg=56, Azm=287; (N) Val=-0.44, Plg=4, Azm=191; (P) Val=-9.40, Plg=34, Azm=98; Best double couple: Mo=9.6*10**17 Nm; NP1: Strike=170, Dip=12, Slip=69; NP2: Strike=12, Dip=79, Slip=94.
05	03	36	36.7&	47.900	N	2.900	W	17					14	FRANCE. <LDG>. ML 2.6 (LDG).
05	04	01	56.0&	38.770	N	26.060	E	32					12	AEGEAN SEA. <ATH>. MD 3.6 (ATH), 3.3 (ISK).
05	04	16	07.5&	34.900	S	69.594	W	13					14	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 4.1 (GUC).
05	04	30	21.2&	34.958	S	69.710	W	9					13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 4.3 (GUC).
05	04	42	06.6?	30.89	S	68.65	W	33	N			0.7	10	SAN JUAN PROVINCE, ARGENTINA. MD 3.4 (GUC).
05	04	46	08.1&	34.884	S	69.663	W	9					14	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 4.0 (GUC).
05	04	52	20.0&	31.803	S	70.207	W	127					14	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
05	04	52	49.1	15.860	N	95.294	W	41	D	4.0		1.1	28	NEAR COAST OF OAXACA, MEXICO. MD 4.5 (UNM).
05	05	00	35.2&	34.813	S	69.732	W	7					17	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 4.3 (GUC).
05	05	00	54.5	5.611	S	150.643	E	104	*	4.4		1.1	27	NEW BRITAIN REGION, P.N.G.
05	05	12	19.2	7.418	S	128.581	E	129	*	4.7		1.1	37	BANDA SEA
05	05	31	28.1&	8.533	N	83.325	W	2					11	COSTA RICA. <CASC>. MD 4.2 (CASC).
05	06	13	02.9&	33.968	N	116.352	W	8					28	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS). Felt in the Desert Hot Springs-Palm Springs area.
05	06	24	31.3	42.063	N	142.376	E	67	D	4.5		1.1	54	HOKKAIDO, JAPAN REGION. Felt (II JMA) in the Urakawa area and (I JMA) in parts of western Hokkaido. Also felt (I JMA) in northern Aomori Prefecture, Honshu.
05	06	29	14.4*	5.459	N	121.947	E	33	N	4.7		1.2	32	CELEBES SEA
05	06	37	58.7&	32.101	S	69.840	W	145					12	MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 2.5 (GUC).
05	06	53	33.3*	35.075	S	54.499	E	10	G	4.6		1.3	17	SOUTH INDIAN OCEAN
05	06	56	48.0	43.549	N	146.833	E	33	N	4.7		1.0	44	KURIL ISLANDS
05	07	17	02.6&	34.960	S	69.745	W	4					12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.7 (GUC).
05	07	28	06.5	34.825	S	69.696	W	10	G			1.1	22	CHILE-ARGENTINA BORDER REGION. MD 4.4 (GUC).
05	07	28	31.7*	51.610	N	16.207	E	5	G			1.3	7	POLAND. ML 3.2 (VIE).
05	07	53	29.0&	18.150	N	67.840	W	113					7	MONA PASSAGE. <MPR>. MD 3.1 (MPR).
05	08	36	23.5&	54.732	N	164.166	W	0					37	UNIMAK ISLAND REGION. <AEIC>. ML 4.0 (AEIC), 4.5 (PMR).
05	08	50	16.2&	34.815	S	69.700	W	13					8	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
05	09	00	00.7&	34.775	S	69.741	W	30					11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.6 (GUC).
05	09	24	44.0	12.050	N	140.451	E	32	D	4.7		1.3	32	WESTERN CAROLINE ISLANDS
05	09	36	53.5&	54.740	N	164.182	W	1		3.4			27	UNIMAK ISLAND REGION. <AEIC>. ML 3.9 (AEIC).
05	09	41	45.5&	31.004	S	71.773	W	35					12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.1 (GUC).

05	10	06	27.9&	39.788	N	27.815	E	14					12	TURKEY. <ISK>. MD 3.2 (ISK).
05	10	54	55.9*	5.364	N	122.051	E	33	N	4.6		1.4	26	CELEBES SEA
05	11	06	44.3&	39.793	N	27.747	E	14					9	TURKEY. <ISK>. MD 3.2 (ISK).
05	11	08	18.5&	45.300	N	6.600	E	2					18	FRANCE. <LDG>. ML 2.2 (LDG).
05	11	08	27.6&	39.805	N	27.803	E	5					7	TURKEY. <ISK>. MD 3.0 (ISK).
05	11	22	05.2*	6.839	S	150.734	E	10	G	4.4		1.2	19	NEW BRITAIN REGION, P.N.G.
05	11	41	31.5	28.825	N	139.601	E	418	D	4.4		0.9	56	BONIN ISLANDS REGION
05	12	01	11.3&	34.861	S	69.734	W	9					9	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.8 (GUC).
05	12	08	04.1*	5.568	N	126.705	E	33	N	4.4		1.1	20	MINDANAO, PHILIPPINE ISLANDS
05	12	10	59.7&	34.855	S	69.727	W	13					7	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.5 (GUC).
05	12	36	21.7*	5.425	N	121.982	E	33	N	4.4		1.0	18	CELEBES SEA
05	12	53	32.5*	20.307	S	68.457	W	183	D	4.2		1.4	24	CHILE-BOLIVIA BORDER REGION
05	13	01	10.9	5.255	N	122.168	E	33	N	5.6	5.1	1.0	128	CELEBES SEA. Mw 5.9 (HRV), 5.7 (GS). Me 5.7 (GS). Broadband Source Parameters (GS): Dep 6; NP1: Strike=330, Dip=30, Slip=75; NP2: Strike=167, Dip=61, Slip=98; Radiated energy 6.9*10**12 Nm. Moment Tensor (GS): Dep 6; Principal axes (scale 10**17 Nm): (T) Val=3.55, Plg=63, Azm=69; (N) Val=-0.22, Plg=8, Azm=323; (P) Val=-3.33, Plg=26, Azm=230; Best double couple: Mo=3.4*10**17 Nm; NP1: Strike=301, Dip=21, Slip=67; NP2: Strike=146, Dip=71, Slip=98. Centroid, Moment Tensor (HRV): Centroid origin time 13:01:14.7; Lat 5.40 N; Lon 122.58 E; Dep 15.0 Bdy; Half-duration 2.0 sec; Principal axes (scale 10**17 Nm): (T) Val=7.32, Plg=76, Azm=96; (N) Val=2.53, Plg=5, Azm=345; (P) Val=-9.85, Plg=13, Azm=253; Best double couple: Mo=8.6*10**17 Nm; NP1: Strike=336, Dip=32, Slip=80; NP2: Strike=168, Dip=59, Slip=96.
05	13	07	19.6?	85.69	N	91.54	E	10	G			1.1	8	NORTH OF SEVERNAYA ZEMLYA
05	13	11	03.4&	32.704	S	71.718	W	28					11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
05	13	41	12.7*	1.533	S	135.519	E	33	N	3.8		0.9	10	IRIAN JAYA REGION, INDONESIA
05	13	51	21.9*	5.432	N	122.198	E	33	N	4.6		0.9	9	CELEBES SEA
05	13	58	31.8%	33.980	S	148.148	E	10	G			0.6	5	NEW SOUTH WALES, AUSTRALIA
05	14	17	42.4?	12.53	N	142.04	E	33	N			1.1	6	SOUTH OF MARIANA ISLANDS
05	14	25	08.7&	37.015	N	28.889	E	10					6	TURKEY. <ISK>. MD 3.1 (ISK).
05	14	48	55.7	40.559	N	116.136	W	5	G			0.6	12	NEVADA. ML 3.4 (GS).
05	14	55	10.6&	39.108	N	27.623	E	14					5	TURKEY. <ISK>. MD 2.7 (ISK).
05	15	17	06.6?	28.97	N	56.94	E	33	N	3.7		0.7	6	SOUTHERN IRAN
05	15	24	39.8&	40.330	N	25.909	E	10	G				4	AEGEAN SEA. <ISK>. MD 2.7 (ISK).
05	15	59	00.4&	39.799	N	27.772	E	7					7	TURKEY. <ISK>. MD 2.8 (ISK).
05	16	03	09.2&	40.215	N	25.997	E	10	G				5	AEGEAN SEA. <ISK>. MD 2.9 (ISK).
05	16	40	18.2&	33.256	S	70.290	W	8					6	CHILE-ARGENTINA BORDER REGION. <GUC>.
05	16	51	15.1*	35.486	N	141.806	E	33	N	4.0		0.6	10	NEAR EAST COAST OF HONSHU, JAPAN
05	17	18	21.1	52.004	N	178.352	E	33	N	4.6		1.1	24	RAT ISLANDS, ALEUTIAN ISLANDS
05	17	42	11.0&	49.170	N	6.780	E	1	G				6	GERMANY. <FBB>. ML 2.2 (FBB).
05	18	10	55.1	40.376	N	25.929	E	10	G			1.1	10	AEGEAN SEA. MD 3.1 (ISK), 3.1 (ATH).
05	18	30	24.4	45.943	N	14.864	E	10	G			0.3	10	NORTHWESTERN BALKAN REGION. ML 2.8 (VIE), 2.2 (LJU). Felt (IV) at Grosuplje and Radohova Vas, Slovenia.
05	19	02	43.0&	45.900	N	7.400	E	2					7	NORTHERN ITALY. <LDG>. ML 2.1 (LDG).
05	19	15	37.1&	54.735	N	164.161	W	0					18	UNIMAK ISLAND REGION. <AEIC>. ML 3.1 (AEIC).
05	19	53	03.7	40.390	N	25.887	E	10	G			1.0	9	AEGEAN SEA. MD 3.1 (ATH), 3.0 (ISK).
05	20	50	39.2&	44.470	N	7.318	E	6					8	NORTHERN ITALY. <GEN>. ML 2.1 (GEN).
05	20	56	58.2&	34.700	S	69.801	W	14					12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.5 (GUC).
05	21	12	27.3*	23.075	N	120.593	E	33	N	4.2		1.3	18	TAIWAN. Felt (III JMA) in the epicentral area and (II JMA) at Chia-i, Tai-nan and Tai-tung.
05	21	18	00.2	53.512	N	164.826	W	33	N	4.8	4.3	1.0	123	UNIMAK ISLAND REGION. ML 4.8 (PMR), 4.5 (AEIC). Felt at Akutan.
05	21	56	24.3&	53.605	N	164.775	W	53					19	UNIMAK ISLAND REGION. <AEIC>. ML 3.5 (AEIC).
05	22	01	35.8?	5.18	N	122.02	E	33	N	4.2		1.1	10	CELEBES SEA
05	22	05	07.7&	34.779	S	69.735	W	20					11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
05	22	09	15.0*	51.189	S	138.854	E	10	G	4.5		0.9	17	SOUTH OF AUSTRALIA
05	22	18	36.9*	36.187	N	139.379	E	152		4.5		1.0	26	EASTERN HONSHU, JAPAN
05	22	42	22.6&	46.000	N	6.700	E	2					7	SWITZERLAND. <LDG>. ML 2.1 (LDG).
05	22	43	17.6*	5.441	N	122.227	E	33	N	4.4		1.3	17	CELEBES SEA
05	22	45	13.6?	5.44	N	122.29	E	33	N	4.4		1.1	11	CELEBES SEA
05	22	47	27.3	40.393	N	25.924	E	10	G			0.8	15	AEGEAN SEA. MD 3.5 (ATH), 3.4 (ISK).
05	22	58	22.6	40.438	N	26.008	E	10	G			0.8	20	TURKEY. MD 3.8 (ATH), 3.5 (ISK).
05	23	24	31.7&	40.353	N	26.120	E	9					11	TURKEY. <ISK>. MD 3.2 (ATH), 3.1 (ISK).
05	23	56	11.3&	40.307	N	26.153	E	13					10	TURKEY. <ISK>. MD 3.3 (ISK).
06	00	28	41.0*	16.981	N	100.185	W	33	N			1.5	7	NEAR COAST OF GUERRERO, MEXICO. MD 3.6 (UNM).
06	00	30	51.4&	34.462	S	70.441	W	6					9	CHILE-ARGENTINA BORDER REGION. <GUC>.
06	00	35	48.4&	32.598	S	71.664	W	48					10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
06	00	54	34.7	51.582	N	104.754	E	10	G	4.4		1.0	38	LAKE BAYKAL REGION, RUSSIA. Felt (IV) at Vydrino; (III) at Irkutsk; (II) at Slyudyanka, Taloye, Tyrgana and Yelantsy.
06	01	22	08.7&	60.267	N	151.110	W	64					51	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.7 (AEIC).
06	01	26	13.6&	38.020	N	22.060	E	24					16	GREECE. <ATH>. ML 3.4 (ATH).
06	02	00	02.3&	40.300	N	26.108	E	6					5	TURKEY. <ISK>. MD 2.8 (ISK).
06	02	16	14.2&	40.291	N	26.250	E	13					4	TURKEY. <ISK>. MD 2.5 (ISK).
06	02	26	51.4	17.701	S	177.285	W	189	D	4.7		1.0	65	FIJI ISLANDS REGION
06	02	30	38.4&	40.273	N	25.799	E	10	G				4	AEGEAN SEA. <ISK>. MD 2.7 (ISK).
06	03	24	32.3&	4.503	N	75.680	W	4					7	COLOMBIA. <RSNC>. ML 3.3 (RSNC).
06	03	54	31.7	42.009	N	142.210	E	71	D	4.8		0.9	92	HOKKAIDO, JAPAN REGION. Felt (III JMA) in the Shizunai area and (I JMA) in many other parts of southern Hokkaido. Also felt (I JMA) in eastern Aomori Prefecture, Honshu.
06	04	02	29.5&	53.555	N	164.724	W	34					12	UNIMAK ISLAND REGION. <AEIC>. ML 3.5 (AEIC).
06	05	39	14.3&	43.044	N	19.906	E	4					11	NORTHWESTERN BALKAN REGION. <PDG>. MD 2.5 (PDG).
06	06	00	23.8*	55.415	N	161.808	E	33	N	3.2		1.0	14	NEAR EAST COAST OF KAMCHATKA
06	06	35	58.3&	15.221	N	93.439	W	78					13	NEAR COAST OF CHIAPAS, MEXICO. <UNM>. MD 4.3 (UNM).
06	06	43	18.0?	3.47	N	123.74	E	500	G	4.1		1.0	12	CELEBES SEA
06	07	21	38.1	85.673	N	84.871	E	10	G	4.6	4.8	1.3	73	NORTH OF SEVERNAYA ZEMLYA. Mw 5.1 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 07:21:48.7; Lat 85.84 N; Lon 83.14 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)

Val=4.21, Plg=10, Azm=241; (N) Val=1.55, Plg=17, Azm=147; (P) Val=-5.76, Plg=70, Azm=0; Best double couple: Mo=5.0*10**16 Nm; NP1: Strike=350, Dip=38, Slip=-62; NP2: Strike=136, Dip=57, Slip=-110.

06	07	36	36.0*	11.147	N	138.780	E	33	N	4.3		1.2	14	WESTERN CAROLINE ISLANDS
06	07	44	12.8	85.673	N	85.012	E	10	G	4.4	4.4	1.0	30	NORTH OF SEVERNAYA ZEMLYA
06	07	48	28.2*	85.664	N	84.256	E	10	G	4.3		0.8	11	NORTH OF SEVERNAYA ZEMLYA
06	08	22	10.7*	37.242	N	141.438	E	48	D	4.0		1.3	17	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) in eastern Fukushima Prefecture.
06	08	35	59.8&	34.657	S	72.251	W	17					5	NEAR COAST OF CENTRAL CHILE. <GUC>.
06	08	51	35.0&	36.940	N	117.530	W	8					12	CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.8 (REN). ML 3.0 (GS).
06	09	24	42.4*	15.718	S	175.138	W	279	?	4.2		0.4	28	TONGA ISLANDS
06	09	41	59.4&	39.597	N	29.686	E	10	G				4	TURKEY. <ISK>. MD 2.6 (ISK).
06	09	56	47.0*	85.675	N	83.248	E	10	G	3.8		1.4	9	NORTH OF SEVERNAYA ZEMLYA
06	10	13	50.9	17.468	N	100.736	W	10	G			1.2	14	GUERRERO, MEXICO. MD 4.1 (UNM).
06	10	18	42.0?	45.68	N	26.79	E	150	G			0.4	5	ROMANIA
06	10	36	35.2*	52.116	N	104.390	E	10	G	3.5		1.2	7	LAKE BAYKAL REGION, RUSSIA
06	10	43	44.8?	36.59	N	71.29	E	114	?	3.1		1.5	6	AFGHANISTAN-TAJIKISTAN BORD REG.
06	10	50	08.0*	5.136	N	123.163	E	100	G	4.1		1.3	12	MINDANAO, PHILIPPINE ISLANDS
06	11	13	37.6&	39.276	N	27.706	E	10	G				4	TURKEY. <ISK>. MD 2.6 (ISK).
06	11	28	00.7	28.273	S	179.736	W	438	D	4.6		1.1	79	KERMADEC ISLANDS REGION
06	11	36	24.1&	60.009	N	153.032	W	125		2.8			64	SOUTHERN ALASKA. <AEIC>.
06	11	39	07.0&	61.534	N	152.267	W	141					48	SOUTHERN ALASKA. <AEIC>.
06	11	50	03.6*	31.267	N	130.561	E	138	?	4.6		1.3	15	KYUSHU, JAPAN. Felt (I JMA) in southern Kyushu.
06	12	06	26.8&	33.842	S	70.755	W	79					13	CHILE-ARGENTINA BORDER REGION. <GUC>.
06	12	22	23.9*	6.997	S	145.409	E	33	N	3.9		1.2	9	NEW GUINEA, PAPUA NEW GUINEA
06	12	23	25.9?	46.30	S	75.35	W	33	N	4.7		0.8	12	SOUTHERN CHILE
06	13	15	33.6	5.366	N	121.906	E	33	D	4.9		1.0	57	CELEBES SEA. Mw 5.2 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 13:15:35.7; Lat 5.31 N; Lon 121.56 E; Dep 15.0 Bdy; Half-duration 1.1 sec; Principal axes (scale 10**16 Nm): (T) Val=6.01, Plg=64, Azm=241; (N) Val=0.18, Plg=3, Azm=146; (P) Val=-6.19, Plg=26, Azm=55; Best double couple: Mo=6.1*10**16 Nm; NP1: Strike=139, Dip=19, Slip=82; NP2: Strike=327, Dip=71, Slip=93.

06	13	48	24.8&	39.659	N	29.412	E	10	G				5	TURKEY. <ISK>. MD 2.8 (ISK).
06	15	03	37.2&	10.583	N	61.616	W	1					4	TRINIDAD. <TRN>. MD 2.7 (TRN).
06	15	26	43.3&	16.456	N	99.835	W	7					14	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.7 (UNM).
06	15	30	19.9&	47.800	N	2.100	E	4					37	FRANCE. <LDG>. ML 3.3 (LDG), 3.1 (STR).
06	15	30	28.1	23.590	S	118.221	E	10	G	4.0		1.1	10	WESTERN AUSTRALIA
06	17	17	48.6&	44.429	N	7.260	E	11					10	NORTHERN ITALY. <GEN>. ML 2.4 (GEN).
06	17	25	38.9&	32.827	S	71.491	W	13					10	NEAR COAST OF CENTRAL CHILE. <GUC>.
06	18	20	11.5	5.224	N	122.116	E	33	N	4.9	3.9	1.1	54	CELEBES SEA
06	18	34	30.7*	36.504	N	70.868	E	226	?	3.2		0.9	9	HINDU KUSH REGION, AFGHANISTAN
06	19	29	03.5	45.630	N	15.562	E	10	G			0.7	7	NORTHWESTERN BALKAN REGION. ML 2.2 (VIE), 1.6 (LJU).
06	20	28	53.6	21.734	S	179.465	W	603	D	5.4		0.9	333	FIJI ISLANDS REGION. Mw 5.7 (HRV), 5.6 (GS).

Moment Tensor (GS): Dep 607; Principal axes (scale 10**17 Nm): (T) Val=3.97, Plg=74, Azm=107; (N) Val=-1.56, Plg=6, Azm=355; (P) Val=-2.42, Plg=15, Azm=264; Best double couple: Mo=3.2*10**17 Nm; NP1: Strike=345, Dip=30, Slip=78; NP2: Strike=179, Dip=60, Slip=97.

Centroid, Moment Tensor (HRV): Centroid origin time 20:28:59.6; Lat 21.60 S; Lon 179.04 W; Dep 634.1; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=4.16, Plg=79, Azm=111; (N) Val=-1.09, Plg=1, Azm=205; (P) Val=-3.07, Plg=10, Azm=295; Best double couple: Mo=3.6*10**17 Nm; NP1: Strike=26, Dip=35, Slip=91; NP2: Strike=205, Dip=56, Slip=89.

06	21	00	03.7	50.176	N	29.018	W	10	G	4.8	4.5	1.2	154	NORTHERN MID-ATLANTIC RIDGE
06	21	19	42.5	5.634	S	147.352	E	168		4.5		0.7	23	EASTERN NEW GUINEA REG., P.N.G.
06	21	33	22.5&	44.308	N	7.317	E	10					9	NORTHERN ITALY. <GEN>. ML 2.1 (GEN).
06	22	11	37.9*	37.695	N	142.389	E	33	N	3.4		0.9	9	OFF EAST COAST OF HONSHU, JAPAN
06	22	17	12.8?	2.02	S	133.15	E	33	N	4.1		0.9	6	IRIAN JAYA REGION, INDONESIA
06	22	43	45.0&	34.321	S	70.574	W	104					12	CHILE-ARGENTINA BORDER REGION. <GUC>.
06	23	22	23.4&	39.386	N	29.038	E	8					6	TURKEY. <ISK>. MD 2.8 (ISK).
06	23	54	39.4	28.529	S	139.064	E	10	G	4.1		1.4	21	SOUTH AUSTRALIA
07	00	08	08.7	7.448	S	128.247	E	126		5.0		1.1	75	BANDA SEA
07	00	22	16.3*	14.151	N	92.396	W	33	N	4.2		1.2	29	NEAR COAST OF CHIAPAS, MEXICO. MD 4.6 (UNM).
07	01	03	42.1	42.939	N	145.906	E	33	N	5.2	4.2	0.9	210	HOKKAIDO, JAPAN REGION. Mw 5.1 (HRV). Felt (II JMA) in eastern Hokkaido and (III) at Yuzhno-Kurilsk, Kunashir.

Centroid, Moment Tensor (HRV): Centroid origin time 01:03:42.3; Lat 43.04 N; Lon 146.07 E; Dep 42.4; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.07, Plg=19, Azm=171; (N) Val=0.36, Plg=33, Azm=68; (P) Val=-5.43, Plg=51, Azm=286; Best double couple: Mo=5.2*10**16 Nm; NP1: Strike=301, Dip=39, Slip=-30; NP2: Strike=56, Dip=71, Slip=-125.

07	01	32	27.0	5.812	S	107.558	E	325	D	5.0		1.0	115	JAWA, INDONESIA. Mw 5.2 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 01:32:32.2; Lat 5.72 S Fix; Lon 107.90 E Fix; Dep 322.1; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=7.42, Plg=62, Azm=307; (N) Val=-0.35, Plg=21, Azm=83; (P) Val=-7.08, Plg=18, Azm=180; Best double couple: Mo=7.2*10**16 Nm; NP1: Strike=299, Dip=33, Slip=131; NP2: Strike=73, Dip=66, Slip=67.

07	01	49	27.4&	36.560	N	3.640	W	8					9	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.1 (MDD).
07	01	58	04.1&	42.800	N	0.300	W	2					15	PYRENEES. <LDG>. ML 2.8 (STR), 2.4 (LDG). mbLg 2.3 (MDD).
07	02	17	14.7*	85.615	N	83.472	E	10	G	3.8		1.3	10	NORTH OF SEVERNAYA ZEMLYA
07	03	03	01.7&	60.052	N	152.935	W	118		3.5			96	SOUTHERN ALASKA. <AEIC>.
07	03	07	23.5*	55.761	N	110.465	E	10	G	3.9		1.2	11	LAKE BAYKAL REGION, RUSSIA
07	03	42	15.5&	53.392	N	131.470	W	10					11	QUEEN CHARLOTTE ISLANDS REGION. <PGC-P>. ML 3.8 (PGC).
07	04	01	32.4&	39.539	N	29.075	E	13					5	TURKEY. <ISK>. MD 2.6 (ISK).

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07  04 02 06.5& 44.187 N    7.272 E   11                      32  NORTHERN ITALY. <GEN>. ML 2.8 (GEN), 2.7 (STR), 2.5 (LDG).
07  04 10 22.7* 85.629 N   82.167 E   10 G  3.6        0.9    6  NORTH OF SEVERNAYA ZEMLYA
07  04 18 39.0*  5.228 N  121.890 E   33 N  4.2        1.2   18  CELEBES SEA
07  04 31 56.3& 31.963 S   71.256 W   65                      13  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.8 (GUC).
07  04 50 21.9? 52.94  N  173.59  E   33 N              0.7    6  NEAR ISLANDS, ALEUTIAN ISLANDS
07  04 52 28.9& 37.170 N    3.820 W    0 G                       7  SPAIN. <MDD>. mbLg 1.8 (MDD).
07  05 13 18.9& 38.870 N   29.185 E   10 G                       9  TURKEY. <ISK>. MD 3.0 (ISK).
07  05 31 32.9& 34.712 S   69.864 W    0                       6  CHILE-ARGENTINA BORDER REGION. <GUC>.
07  06 06 21.5& 33.345 S   70.302 W   10                       8  CHILE-ARGENTINA BORDER REGION. <GUC>.
07  06 43 49.8* 20.709 S  178.646 W  600 G  4.2        0.8   17  FIJI ISLANDS REGION
07  07 05 47.7& 48.800 N    7.400 E    2                       8  FRANCE. <LDG>. ML 2.2 (LDG), 1.8 (FBB).
07  07 31 41.5   5.200 N  122.232 E   33 N  4.5        1.1   26  CELEBES SEA
07  07 55 15.8* 51.313 N   15.702 E    5 G              1.0    9  POLAND. ML 3.3 (VIE).
07  08 34 53.4& 34.523 S   70.844 W    5                       7  CHILE-ARGENTINA BORDER REGION. <GUC>.
07  08 35 40.0& 39.436 N   29.203 E   10 G                       5  TURKEY. <ISK>. MD 2.6 (ISK).
07  08 46 57.1   5.259 N  122.276 E   33 N  4.6        1.0   23  CELEBES SEA
07  09 16 24.1& 31.402 S   71.302 W   19                      11  NEAR COAST OF CENTRAL CHILE. <GUC>.
07  09 50 55.1& 35.006 S   69.748 W    8                      13  MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 3.7 (GUC).
07  10 06 49.4? 13.19  N   87.45  W  300 G  4.0        1.0   18  HONDURAS
07  10 09 59.5& 39.656 N   29.034 E   10 G                       9  TURKEY. <ISK>. MD 2.9 (ISK).
07  10 12 16.5*  5.276 N  122.296 E   33 N  4.4        0.8   13  CELEBES SEA
07  10 35 15.8* 27.949 N  139.631 E  500 G  3.9        1.0   15  BONIN ISLANDS REGION
07  10 55 20.2  52.774 N  159.408 E   69    4.7        0.8   98  OFF EAST COAST OF KAMCHATKA. Felt (III) at Petropavlovsk-
                                                                   Kamchatskiy.
07  11 09 14.2* 52.844 N  159.527 E   68    4.2        0.5   16  OFF EAST COAST OF KAMCHATKA
07  11 28 59.3& 40.758 N   33.024 E   10 G                       7  TURKEY. <ISK>. MD 3.3 (ISK).
07  11 56 31.2  34.088 N   26.166 E   47 *  3.9        1.1   40  CRETE. MD 4.0 (ATH).
07  12 05 41.7* 10.879 S  166.016 E  249 ?  4.4        1.0   36  SANTA CRUZ ISLANDS
07  12 47 51.0& 41.029 N   29.400 E   10 G                       7  TURKEY. <ISK>. MD 2.6 (ISK).
07  13 40 00.7* 10.488 S   74.732 W   33 N  4.9        0.9   30  CENTRAL PERU
07  13 46 35.2  46.049 N   14.789 E   10 G              0.2    6  NORTHWESTERN BALKAN REGION. ML 1.9 (VIE).
07  13 49 59.2& 37.170 N    3.790 W    0                       5  SPAIN. <MDD>. mbLg 1.9 (MDD).
07  13 53 13.9& 46.500 N    3.000 E   13                       7  FRANCE. <LDG>. ML 1.8 (LDG).
07  14 01 20.7& 39.889 N   28.886 E   10 G                       4  TURKEY. <ISK>. MD 2.5 (ISK).
07  14 12 30.4?  5.65  S  102.10  E   33 N  4.4        1.2    8  SOUTHERN SUMATERA, INDONESIA
07  14 15 57.9& 39.561 N   29.086 E   14                       5  TURKEY. <ISK>. MD 2.6 (ISK).
07  14 17 44.7& 39.511 N   29.152 E   14                       5  TURKEY. <ISK>. MD 2.7 (ISK).
07  14 49 11.3*  0.217 S  125.586 E   53 ?  4.2        1.1   10  SOUTHERN MOLUCCA SEA
07  14 59 17.4? 24.91  S  179.91  E  566 ?  4.5        0.9   22  SOUTH OF FIJI ISLANDS
07  17 49 35.7* 12.847 N   87.884 W   63 *  4.0        1.0   30  NEAR COAST OF NICARAGUA. MD 4.1 (CASC).
07  18 01 36.1  19.440 N   64.968 W   33 N  4.4        0.9   46  VIRGIN ISLANDS. MD 4.7 (MPR).
07  18 51 46.0& 53.495 N  164.686 W   42                      13  UNIMAK ISLAND REGION. <AEIC>. ML 3.3 (AEIC).
07  19 46 58.0& 16.875 N   99.773 W   40                       8  NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.6 (UNM).
07  19 56 59.6& 36.350 N    4.560 W  106                      11  STRAIT OF GIBRALTAR. <MDD>.
07  20 02 07.6& 39.276 N   28.177 E    6                       5  TURKEY. <ISK>. MD 2.7 (ISK).
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).
                                                                   Broadband Source Parameters (GS): Dep 11; NP1: Strike=190,
                                                                    Dip=85, Slip=-175; NP2: Strike=100, Dip=85, Slip=-5;
                                                                    Radiated energy 1.9*10**14 Nm.
                                                                   Moment Tensor (GS): Dep 28; Principal axes (scale 10**18
                                                                    Nm): (T) Val=1.64, Plg=7, Azm=316; (N) Val=0.00, Plg=80,
                                                                    Azm=183; (P) Val=-1.64, Plg=7, Azm=47; Best double couple:
                                                                    Mo=1.6*10**18 Nm; NP1: Strike=92, Dip=80, Slip=0; NP2:
                                                                    Strike=182, Dip=90, Slip=-170.
                                                                   Centroid, Moment Tensor (HRV): Centroid origin time
                                                                    20:35:48.5; Lat 15.79 S; Lon 179.33 W; Dep 15.0 Fix; Half-
                                                                    duration 2.8 sec; Principal axes (scale 10**18 Nm): (T)
                                                                    Val=1.73, Plg=5, Azm=318; (N) Val=-0.08, Plg=80, Azm=82;
                                                                    (P) Val=-1.65, Plg=8, Azm=227; Best double couple:
                                                                    Mo=1.7*10**18 Nm; NP1: Strike=3, Dip=81, Slip=-178; NP2:
                                                                    Strike=273, Dip=88, Slip=-9.
07  20 51 38.9  46.065 N   14.774 E   10 G              0.2    7  NORTHWESTERN BALKAN REGION. ML 2.0 (VIE).
07  20 56 23.0* 23.836 N  125.784 E   33 N  4.2        1.4    9  SOUTHWESTERN RYUKYU ISLANDS
07  21 06 15.5& 36.990 N    4.340 W    7                      11  STRAIT OF GIBRALTAR. <MDD>. mbLg 2.0 (MDD).
07  21 45 26.8& 34.808 S   69.740 W   12                      12  CHILE-ARGENTINA BORDER REGION. <GUC>.
07  21 56 32.8*  7.205 S  129.120 E  200 *  4.1        1.0   14  BANDA SEA
07  21 59 05.1& 42.330 N   19.027 E   10                       6  NORTHWESTERN BALKAN REGION. <PDG>. ML 1.3 (PDG).
07  22 19 32.5& 39.528 N   29.093 E   11                       4  TURKEY. <ISK>. MD 2.7 (ISK).
08  00 08 53.9& 47.300 N    7.000 E    2                      11  SWITZERLAND. <LDG>. ML 1.9 (LDG), 1.8 (STR).
08  00 25 31.0& 39.329 N   27.764 E    5                       6  TURKEY. <ISK>. MD 3.0 (ISK).
08  01 02 41.8? 36.70  S  178.48  E  268 *  4.2        0.5   14  OFF E. COAST OF N. ISLAND, N.Z.
08  01 42 43.6*  7.267 S  129.387 E  100 G  4.1        1.3   18  BANDA SEA
08  01 49 46.8* 41.188 N   81.730 E   33 N  4.6        1.4   24  SOUTHERN XINJIANG, CHINA
08  01 51 08.7*  5.303 N  122.208 E   33 N  4.5        0.8   17  CELEBES SEA
08  01 58 21.1* 36.403 N  140.124 E   66 ?  3.4        1.4   20  NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) in southern
                                                                    Tochigi and (I JMA) in parts of Gumma, Ibaraki and Saitama
                                                                    Prefectures.
08  02 16 30.8? 23.85  S  179.96  W  600 G  4.2        0.9   11  SOUTH OF FIJI ISLANDS
08  03 13 01.8& 59.005 N  152.817 W   61                      39  SOUTHERN ALASKA. <AEIC>. ML 2.9 (AEIC).
08  03 47 10.3* 11.086 N   86.661 W   60 *  4.3        1.3   28  NEAR COAST OF NICARAGUA. MD 4.2 (CASC).
08  04 18 09.3& 61.818 N  151.093 W   59                      60  SOUTHERN ALASKA. <AEIC>. ML 2.8 (AEIC), 3.0 (PMR).
08  04 50 23.9& 44.474 N    7.260 E    4                       4  NORTHERN ITALY. <GEN>. ML 1.5 (GEN).
08  05 10 17.5  37.595 N   21.732 E   44    4.4        1.3  118  SOUTHERN GREECE. MD 4.1 (ATH). Felt widely on Peloponnisos.
08  05 17 46.1& 18.760 N   67.150 W   40                       7  MONA PASSAGE. <MPR>. MD 3.0 (MPR).
08  05 40 00.6  52.129 N  159.482 E   50 D  5.4 5.4  0.9  356  OFF EAST COAST OF KAMCHATKA. Mw 5.8 (HRV). Felt (IV) at
                                                                    Petropavlovsk-Kamchatskiy and Yelizovo. Felt (II) at Severo-
                                                                    Kurilsk, Paramushir.
                                                                   Centroid, Moment Tensor (HRV): Centroid origin time
                                                                    05:40:05.6; Lat 52.05 N; Lon 159.59 E; Dep 28.0 Bdy; Half-
                                                                    duration 2.2 sec; Principal axes (scale 10**17 Nm): (T)
                                                                    Val=5.60, Plg=77, Azm=295; (N) Val=-0.74, Plg=1, Azm=202;
                                                                    (P) Val=-4.87, Plg=13, Azm=112; Best double couple:
                                                                    Mo=5.2*10**17 Nm; NP1: Strike=201, Dip=32, Slip=89; NP2:
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												Strike=23, Dip=58, Slip=91.
08	05	45	41.8	52.141	N	159.552	E	54 D 4.8	0.9	106		OFF EAST COAST OF KAMCHATKA
08	05	57	52.8	52.132	N	159.529	E	55 D 5.3	0.9	314		OFF EAST COAST OF KAMCHATKA. Mw 5.8 (HRV). Felt (IV) at Petropavlovsk-Kamchatskiy.
												Centroid, Moment Tensor (HRV): Centroid origin time 05:57:55.4; Lat 51.95 N; Lon 160.01 E; Dep 39.2; Half-duration 1.8 sec; Principal axes (scale 10**17 Nm): (T) Val=4.34, Plg=75, Azm=266; (N) Val=0.31, Plg=8, Azm=26; (P) Val=-5.15, Plg=13, Azm=118; Best double couple: Mo=5.0*10**17 Nm; NP1: Strike=219, Dip=33, Slip=105; NP2: Strike=21, Dip=59, Slip=81.
08	06	15	52.6*	52.391	N	159.404	E	33 N 3.9	0.9	10		OFF EAST COAST OF KAMCHATKA
08	06	16	31.0*	39.695	N	136.268	E	331 * 4.0	0.9	13		EASTERN SEA OF JAPAN
08	06	19	40.1&	32.676	S	71.459	W	25		9		NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
08	06	32	47.4&	44.831	N	7.206	E	11		6		NORTHERN ITALY. <GEN>. ML 1.8 (GEN).
08	06	33	47.6&	34.203	S	71.143	W	67		12		NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.6 (GUC).
08	06	47	18.3*	14.454	N	92.525	W	45 * 4.2	1.4	43		NEAR COAST OF CHIAPAS, MEXICO
08	07	12	29.8*	13.687	N	88.088	W	250 G 4.4	1.1	14		EL SALVADOR
08	07	59	47.0&	47.400	N	5.100	E	15		7		FRANCE. <LDG>. ML 2.1 (LDG).
08	08	08	34.4*	40.431	N	144.135	E	46 D 3.9	1.2	17		OFF EAST COAST OF HONSHU, JAPAN
08	08	27	37.8*	14.982	S	72.079	W	90 ? 4.3	0.9	14		CENTRAL PERU
08	08	46	34.0	39.124	N	139.763	E	50 * 4.2	0.8	24		NEAR WEST COAST OF HONSHU, JAPAN. Felt (III JMA) in southwestern Yamagata and (I JMA) in parts of Akita, Iwate and Miyagi Prefectures.
08	08	59	46.4	37.818	N	21.983	E	56 4.1	1.3	47		SOUTHERN GREECE
08	09	00	51.2&	38.000	N	21.790	E	21		5		GREECE. <ATH>. ML 3.5 (ATH).
08	09	10	42.0&	49.140	N	6.870	E	1 G		9		GERMANY. <FBB>. ML 2.6 (FBB). Mining induced event in the Lorraine region, France.
08	09	22	45.7?	52.61	N	158.30	E	33 N 3.3	1.5	8		NEAR EAST COAST OF KAMCHATKA
08	09	29	15.3&	39.152	N	27.492	E	5		5		TURKEY. <ISK>. MD 2.7 (ISK).
08	09	37	16.0*	29.010	S	71.414	W	58 * 4.1	1.2	32		NEAR COAST OF CENTRAL CHILE
08	09	46	53.2*	44.442	N	129.896	W	10 G 3.1	0.7	31		OFF COAST OF OREGON
08	10	11	43.8&	37.780	N	21.710	E	2		4		SOUTHERN GREECE. <ATH>. MD 2.8 (ATH).
08	10	19	17.4	44.627	N	129.877	W	10 G 4.1	0.9	70		OFF COAST OF OREGON
08	10	20	11.9*	10.017	N	122.141	E	33 N 4.3	1.4	13		PANAY, PHILIPPINE ISLANDS
08	10	27	39.8*	9.855	N	122.051	E	33 N 4.4	0.9	11		NEGROS, PHILIPPINE ISLANDS
08	10	29	23.4&	10.876	N	62.448	W	78		4		NEAR COAST OF VENEZUELA. <TRN>. MD 2.7 (TRN).
08	10	29	35.4&	39.168	N	27.569	E	10		5		TURKEY. <ISK>. MD 2.8 (ISK).
08	10	52	12.8&	44.300	N	7.700	E	2		6		NORTHERN ITALY. <LDG>. ML 2.1 (LDG).
08	10	59	48.8&	60.016	N	151.522	W	62 3.7		121		KENAI PENINSULA, ALASKA. <AEIC>. ML 4.0 (AEIC), 3.9 (PMR). Felt (III) at Ninilchik. Also felt at Anchor Point and Kasilof.
08	11	08	08.4*	35.687	N	88.535	E	33 N 3.9	1.4	12		XIZANG
08	11	23	53.2&	18.020	N	66.930	W	22		4		PUERTO RICO REGION. <MPR>. MD 2.3 (MPR).
08	11	48	50.3&	33.259	S	70.362	W	100		10		CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.2 (GUC).
08	11	52	49.7	46.220	N	15.065	E	10 G	1.3	12		NORTHWESTERN BALKAN REGION. ML 2.5 (VIE), 2.0 (LJU). Felt (IV) at Prebold, Slovenia.
08	12	09	20.7&	34.335	N	118.474	W	10		28		SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
08	12	25	19.2&	39.362	N	27.264	E	9		4		TURKEY. <ISK>. MD 2.8 (ISK).
08	12	25	48.9	52.056	N	159.520	E	57 D 5.7	1.1	430		OFF EAST COAST OF KAMCHATKA. Mw 7.0 (OBN), 6.9 (HRV), 6.8 (GS). Me 6.4 (GS). Felt (V) at Petropavlovsk-Kamchatskiy. Also felt (III) at Severo-Kurilsk, Paramushir.
												Broadband Source Parameters (GS): Dep 19; NP1: Strike=40, Dip=65, Slip=80; NP2: Strike=243, Dip=27, Slip=110; Radiated energy 7.8*10**13 Nm.
												Moment Tensor (GS): Dep 21; Principal axes (scale 10**19 Nm): (T) Val=1.78, Plg=61, Azm=328; (N) Val=0.02, Plg=16, Azm=205; (P) Val=-1.81, Plg=23, Azm=108; Best double couple: Mo=1.8*10**19 Nm; NP1: Strike=169, Dip=27, Slip=51; NP2: Strike=31, Dip=70, Slip=108.
												Centroid, Moment Tensor (HRV): Centroid origin time 12:25:51.6; Lat 51.75 N; Lon 159.87 E; Dep 15.0 Bdy; Half-duration 7.1 sec; Principal axes (scale 10**19 Nm): (T) Val=2.65, Plg=72, Azm=306; (N) Val=-0.17, Plg=5, Azm=52; (P) Val=-2.48, Plg=17, Azm=144; Best double couple: Mo=2.6*10**19 Nm; NP1: Strike=242, Dip=28, Slip=101; NP2: Strike=49, Dip=62, Slip=84.
												Moment Tensor (OBN); Principal axes: (T) Plg=63, Azm=327; (N) Plg=9, Azm=219; (P) Plg=25, Azm=124; Best double couple: Mo=3.5*10**19 Nm; NP1: Strike=194, Dip=21, Slip=63; NP2: Strike=42, Dip=71, Slip=100.
												Scalar Moment (PPT): Mo=2.8*10**19 Nm.
08	13	03	49.2&	58.261	N	151.566	W	15		39		KODIAK ISLAND REGION. <AEIC>. ML 3.8 (AEIC), 4.1 (PMR).
08	13	04	25.0?	52.14	N	159.94	E	33 N	1.4	7		OFF EAST COAST OF KAMCHATKA
08	13	05	43.3	52.267	N	159.559	E	64 * 4.1	0.8	24		OFF EAST COAST OF KAMCHATKA
08	13	11	41.3*	52.335	N	159.524	E	54 D 3.5	0.9	14		OFF EAST COAST OF KAMCHATKA
08	13	30	43.2*	24.261	S	67.086	W	186 * 3.7	1.0	15		CHILE-ARGENTINA BORDER REGION
08	13	35	12.7*	56.390	S	27.432	W	100 G 4.9	1.1	23		SOUTH SANDWICH ISLANDS REGION
08	13	58	16.3&	39.148	N	27.345	E	10		4		TURKEY. <ISK>. MD 2.8 (ISK).
08	14	10	38.1&	39.900	N	20.830	E	5		7		GREECE-ALBANIA BORDER REGION. <ATH>. MD 3.2 (ATH).
08	14	42	03.1&	39.306	N	27.596	E	10 G		4		TURKEY. <ISK>. MD 2.8 (ISK).
08	14	43	32.4*	52.254	N	159.651	E	33 N 3.0	0.5	8		OFF EAST COAST OF KAMCHATKA
08	15	18	47.0*	5.137	N	74.949	W	33 N	1.5	5		COLOMBIA. ML 3.4 (RSNC).
08	15	25	38.2&	38.945	N	28.468	E	10 G		4		TURKEY. <ISK>. MD 2.7 (ISK).
08	16	08	59.8	7.495	S	126.717	E	240 * 4.4	0.9	20		BANDA SEA
08	16	36	22.0&	45.480	N	15.940	E	22		11		NORTHWESTERN BALKAN REGION. <ZAG>. ML 2.9 (VIE), 2.6 (ZAG), 2.1 (LJU).
08	16	46	32.5*	15.470	N	95.885	W	33 N 4.1	1.3	27		NEAR COAST OF OAXACA, MEXICO. MD 4.6 (UNM).
08	16	47	51.3&	31.728	S	71.344	W	37		9		NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
08	17	27	23.1	27.073	S	63.359	W	569 4.5	0.7	57		SANTIAGO DEL ESTERO PROV., ARG.
08	17	29	01.7&	32.470	S	70.259	W	193		8		CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.6 (GUC).
08	17	36	15.7&	42.251	N	20.573	E	2		12		NORTHWESTERN BALKAN REGION. <PDG>. ML 2.3 (PDG).
08	17	38	43.2*	52.382	N	159.421	E	71 * 4.2	0.9	11		OFF EAST COAST OF KAMCHATKA

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08  17 45 26.8*  9.795 S  160.063 E   33 N  3.8        0.9    9  SOLOMON ISLANDS
08  17 46 26.7& 34.797 S   69.650 W   13                      15  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 4.0 (GUC).
08  19 53 34.7  42.857 N   17.399 E   10 G              1.0   19  ADRIATIC SEA. ML 3.1 (PDG).
08  20 03 21.2  39.533 S  174.437 E  100 G              0.7   16  NORTH ISLAND, NEW ZEALAND
08  20 06 00.7* 33.959 N   26.129 E   10 G  4.2         1.5   20  EASTERN MEDITERRANEAN SEA. MD 3.9 (ATH).
08  20 10 19.7* 73.152 N    7.213 E   10 G  3.7         1.1    7  GREENLAND SEA
08  20 16 53.8  17.014 N  145.842 E  161 D  4.4         1.1   35  MARIANA ISLANDS
08  20 18 04.6& 33.887 S   70.690 W   99                       9  CHILE-ARGENTINA BORDER REGION. <GUC>.
08  20 46 47.0* 12.829 N   87.662 W   70 D  4.4         1.4   24  NEAR COAST OF NICARAGUA. MD 4.1 (CASC).
08  21 02 40.3*  9.455 S  113.233 E   33 N  3.4         1.2   10  SOUTH OF JAWA, INDONESIA
08  21 03 58.8* 52.067 N  159.692 E   44 D  4.3         1.2   15  OFF EAST COAST OF KAMCHATKA
08  21 51 07.1& 10.772 N   61.056 W   18                       4  TRINIDAD. <TRN>. MD 2.7 (TRN).
08  21 55 37.9*  7.273 S  128.851 E   33 N  3.7         1.4    8  BANDA SEA
08  22 31 22.0* 15.844 N   98.850 W   33 N  3.9         1.5   25  OFF COAST OF GUERRERO, MEXICO. MD 4.4 (UNM).
08  22 34 45.4* 15.728 N   98.707 W   10 G  3.9         1.4   19  OFF COAST OF GUERRERO, MEXICO. MD 4.3 (UNM).
08  22 35 42.5* 30.560 N  131.330 E   43 D              0.5    7  KYUSHU, JAPAN
08  22 48 01.5& 35.910 N    3.470 W    0 G                      14  STRAIT OF GIBRALTAR. <MDD>. mbLg 2.0 (MDD).
08  22 49 30.3& 42.140 N    8.120 W    8                        5  SPAIN. <MDD>. mbLg 2.2 (MDD).
08  22 52 03.5& 15.827 N   98.721 W   12                       13  OFF COAST OF GUERRERO, MEXICO. <UNM>. MD 4.1 (UNM).
08  22 53 51.7& 43.806 N    7.670 E   17                       23  NEAR SOUTH COAST OF FRANCE. <GEN>. ML 2.3 (GEN), 2.2 (STR),
                                                                   2.1 (LDG).
08  22 55 36.2* 16.072 N   98.587 W   33 N  3.8         1.4   26  NEAR COAST OF GUERRERO, MEXICO. MD 4.3 (UNM).
08  23 12 51.8* 19.623 N  108.572 W   33 N  3.9 3.5     1.0   17  REVILLA GIGEDO ISLANDS REGION
08  23 32 30.0& 52.575 N  143.420 E   33 N              1.0    6  SAKHALIN ISLAND
09  00 03 00.8?  4.34  S  127.29  E  292 ?  4.2         1.4    8  BANDA SEA
09  00 58 07.1& 39.613 N   28.973 E   10 G                       4  TURKEY. <ISK>. MD 2.7 (ISK).
09  02 36 45.7& 34.392 S   70.204 W    6                      13  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.5 (GUC).
09  03 41 05.7  39.079 N   20.558 E   33 N  3.8         1.2   32  GREECE-ALBANIA BORDER REGION. MD 3.6 (ATH). ML 3.4 (PDG).
09  03 53 52.8  32.930 N  131.028 E   13 *  4.6 4.1     1.2   31  KYUSHU, JAPAN. Felt (III JMA) in central Kumamoto; (II JMA)
                                                                   in western Fukuoka and southern Oita Prefectures. Felt in
                                                                   much of Kyushu.
09  04 29 25.3& 34.701 S   69.773 W    1                      13  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.8 (GUC).
09  05 12 11.3& 34.267 S   70.605 W  103                      13  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
09  05 23 03.1* 39.238 N   20.809 E   33 N  4.0         1.5   35  GREECE-ALBANIA BORDER REGION. MD 3.6 (ATH). ML 3.5 (PDG).
09  05 34 32.2* 44.498 S   79.679 W   33 N  4.5 4.6     1.5   18  OFF COAST OF SOUTHERN CHILE
09  05 38 02.4& 18.040 N   67.120 W    2                       4  MONA PASSAGE. <MPR>. MD 2.3 (MPR).
09  06 10 18.5   9.904 N  122.037 E   33 N  4.5 3.9     0.9   26  NEGROS, PHILIPPINE ISLANDS
09  06 16 00.4& 32.048 S   70.305 W  110                      13  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.5 (GUC).
09  07 04 52.2  36.263 N  141.589 E   33 N  4.2         0.7   19  NEAR EAST COAST OF HONSHU, JAPAN
09  07 41 49.0? 18.16  S  172.97  W   33 N  4.7         1.5   19  TONGA ISLANDS REGION
09  07 55 20.1  13.358 N   88.542 W   52 D  4.2         1.2   34  EL SALVADOR. MD 4.3 (CASC).
09  08 19 41.7?  3.88  S  151.30  E   33 N              1.5    6  NEW IRELAND REGION, P.N.G.
09  08 35 03.5& 32.915 S   71.868 W   46                      10  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
09  09 14 14.6* 34.925 S   69.710 W   33 N              1.2   13  CHILE-ARGENTINA BORDER REGION. MD 3.6 (GUC).
09  09 28 11.7*  2.703 S  138.927 E   33 N  4.2         0.6    7  IRIAN JAYA, INDONESIA
09  09 32 36.8& 35.584 N   29.122 E    9                      15  EASTERN MEDITERRANEAN SEA. <ISK>. MD 3.6 (ISK).
09  09 33 27.9  16.079 S  175.919 W  135 D  5.0         0.8  116  TONGA ISLANDS
09  09 42 04.7  39.115 N   44.800 E   68 *  4.4         1.3   28  ARMENIA-AZERBAIJAN-IRAN BORD REG
09  09 51 50.4& 33.518 S   70.691 W   85                      10  CHILE-ARGENTINA BORDER REGION. <GUC>.
09  10 09 26.1  35.720 N   88.604 E   33 N  4.7 4.3     1.0   42  XIZANG
09  10 58 47.7& 30.861 S   71.730 W   31                      12  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
09  12 04 57.8* 15.571 N   92.826 W  157 ?              0.9   22  MEXICO-GUATEMALA BORDER REGION. MD 4.4 (UNM).
09  12 07 05.0& 44.760 N   73.800 W   10                       6  NEW YORK. <PAL-P>. MD 2.9 (PAL), 2.7 (WES).
09  12 08 08.3  28.767 N   56.583 E   81 ?  4.5         0.8   38  SOUTHERN IRAN
09  12 39 09.0& 37.820 N  112.360 W    1    3.4              26  UTAH. <SLC-P>. ML 3.1 (SLC), 3.5 (GS).
09  13 19 03.0& 39.150 N   27.501 E   10 G                       5  TURKEY. <ISK>. MD 2.6 (ISK).
09  13 25 42.4& 47.700 N    1.500 W    2                       4  FRANCE. <LDG>. ML 2.1 (LDG).
09  13 27 23.5* 73.109 N    6.058 E   10 G  3.3         1.4   12  GREENLAND SEA
09  14 10 33.0* 15.704 N   87.005 W   33 N  4.1         1.4   23  HONDURAS. MD 4.3 (CASC).
09  14 11 16.5* 35.883 N   22.110 E   33 N              1.4    9  CENTRAL MEDITERRANEAN SEA. MD 3.6 (ATH).
09  14 22 05.2& 56.053 N  153.957 W    0 G                     101  KODIAK ISLAND REGION. <AEIC>. ML 4.2 (AEIC), 4.2 (PMR).
09  14 42 58.0& 61.669 N  150.145 W   41                      61  SOUTHERN ALASKA. <AEIC>. ML 2.8 (AEIC).
09  14 45 13.3* 35.014 S   69.689 W   33 N              1.4   11  MENDOZA PROVINCE, ARGENTINA
09  14 46 23.0& 34.855 S   69.819 W   15                      13  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 4.2 (GUC).
09  15 03 43.9*  6.707 S  142.146 E   33 N  3.7         1.3   10  NEW GUINEA, PAPUA NEW GUINEA
09  15 09 18.7* 14.039 S  166.654 E   33 N  4.5         1.3   15  VANUATU ISLANDS
09  15 11 24.2? 19.33  S  177.54  W  600 G  4.5         0.9   12  FIJI ISLANDS REGION
09  15 31 36.0& 47.720 N    8.530 E    5 G                      17  SWITZERLAND. <FBB>. ML 2.5 (LDG), 2.1 (FBB), 2.1 (STR).
09  15 42 59.6* 32.176 N   47.827 E   33 N  4.4         1.1   28  IRAN-IRAQ BORDER REGION
09  16 34 48.6* 34.279 S  178.786 W   52 ?  4.9         1.0   25  SOUTH OF KERMADEC ISLANDS
09  17 22 46.7* 34.139 N   25.830 E   33 N  3.2         1.4    8  CRETE
09  17 27 55.2* 12.440 N  142.066 E   33 N  4.5         0.7    8  SOUTH OF MARIANA ISLANDS
09  17 48 42.6  43.454 N  127.074 W   10 G  5.0 4.6     1.0  213  OFF COAST OF OREGON. Mw 5.2 (HRV).
                                                                   Centroid, Moment Tensor (HRV): Centroid origin time
                                                                    17:48:45.9; Lat 43.27 N Fix; Lon 127.29 W Fix; Dep 15.0
                                                                    Fix; Half-duration 1.0 sec; Principal axes (scale 10**16
                                                                    Nm): (T) Val=7.77, Plg=11, Azm=73; (N) Val=-0.06, Plg=69,
                                                                    Azm=192; (P) Val=-7.72, Plg=18, Azm=340; Best double
                                                                    couple: Mo=7.8*10**16 Nm; NP1: Strike=118, Dip=69,
                                                                    Slip=-174; NP2: Strike=26, Dip=85, Slip=-21.
09  17 51 35.9* 45.568 N   26.516 E  150 G              0.6    8  ROMANIA
09  18 01 08.4  47.607 N    8.740 E   33 N              1.1   27  SWITZERLAND. ML 2.6 (VIE), 2.5 (LDG), 2.4 (FBB), 2.2 (STR).
09  18 02 34.9& 40.136 N   28.769 E   10 G                       4  TURKEY. <ISK>. MD 2.6 (ISK).
09  18 52 26.1  25.246 N  124.637 E  100 D  4.7         1.3   25  NORTHEAST OF TAIWAN
09  19 03 59.6? 51.01  N  176.55  W   33 N  3.9         1.2    6  ANDREANOF ISLANDS, ALEUTIAN IS.
09  19 05 58.1* 31.877 S   69.198 W  100 G              0.9   15  SAN JUAN PROVINCE, ARGENTINA. MD 2.9 (GUC).
09  19 13 53.6* 51.204 N  176.901 W   33 N  4.0 4.3     1.3   28  ANDREANOF ISLANDS, ALEUTIAN IS.
09  19 31 43.2& 59.798 N  153.567 W  126                      58  SOUTHERN ALASKA. <AEIC>.
09  19 41 56.5& 34.811 S   69.601 W   26                      13  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.6 (GUC).
09  19 44 05.5& 61.652 N  151.731 W  105    3.6              93  SOUTHERN ALASKA. <AEIC>. Felt at Anchorage.
09  20 46 48.6* 34.252 N   25.461 E   33 N  3.7         1.5    7  CRETE. MD 3.7 (ATH).
09  21 32 43.7*  0.268 S  129.096 E   33 N  4.9 4.3     1.4   28  HALMAHERA, INDONESIA. Mw 5.0 (HRV).
                                                                   Centroid, Moment Tensor (HRV): Centroid origin time
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21:32:44.1; Lat 0.11 N; Lon 129.24 E; Dep 33.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=3.59, Plg=7, Azm=323; (N) Val=-0.89, Plg=0, Azm=53; (P) Val=-2.70, Plg=83, Azm=143; Best double couple: Mo=3.1*10**16 Nm; NP1: Strike=53, Dip=38, Slip=-90; NP2: Strike=233, Dip=52, Slip=-90.

09	22	22	01.5&	33.595	S	71.999	W	16				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
09	22	31	51.4*	29.657	N	130.681	E	89 *	4.0		1.3	16	RYUKYU ISLANDS
09	22	34	08.6&	14.214	N	55.936	E	33 N			0.4	10	ARABIAN SEA
09	22	56	52.9	27.684	S	67.288	W	155 D	5.0		1.4	47	CATAMARCA PROVINCE, ARGENTINA. Mw 5.2 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 22:57:00.4; Lat 27.91 S; Lon 66.70 W; Dep 140.7; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.76, Plg=11, Azm=77; (N) Val=-0.44, Plg=68, Azm=318; (P) Val=-6.32, Plg=19, Azm=170; Best double couple: Mo=6.5*10**16 Nm; NP1: Strike=212, Dip=69, Slip=-6; NP2: Strike=305, Dip=85, Slip=-159.

09	22	57	37.7&	43.810	N	7.674	E	17				22	NEAR SOUTH COAST OF FRANCE. <GEN>. ML 2.3 (GEN), 1.9 (LDG), 1.9 (STR).
09	23	01	00.2*	39.663	S	174.119	E	178 ?			0.7	16	NORTH ISLAND, NEW ZEALAND
09	23	12	57.2?	2.76	N	127.42	E	130 ?	4.1		0.7	8	NORTHERN MOLUCCA SEA
09	23	44	03.5*	9.481	S	123.896	E	72 ?	4.4		1.4	23	TIMOR REGION, INDONESIA
09	23	45	31.8&	37.049	N	29.653	E	10				6	TURKEY. <ISK>. MD 3.2 (ISK).
10	00	25	13.1&	32.616	S	71.680	W	23				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
10	00	52	39.2&	37.040	N	3.940	W	11				6	SPAIN. <MDD>. mbLg 1.0 (MDD).
10	01	02	37.9*	4.534	S	143.890	E	120 *	3.8		1.5	9	NEW GUINEA, PAPUA NEW GUINEA
10	01	06	37.9&	39.692	N	28.916	E	10				5	TURKEY. <ISK>. MD 2.7 (ISK).
10	01	25	45.5&	42.650	N	1.670	E	10 G				6	PYRENEES. <STR>. ML 2.3 (STR), 2.0 (LDG).
10	01	58	43.3&	32.153	S	71.755	W	27				9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
10	02	01	28.9*	85.638	N	79.159	E	10 G	3.7		0.8	8	NORTH OF SEVERNAYA ZEMLYA
10	02	03	59.0*	46.260	N	13.512	E	10 G			1.0	7	AUSTRIA. ML 2.2 (VIE).
10	02	20	21.7	41.426	S	174.160	E	60	4.6		0.8	21	COOK STRAIT, NEW ZEALAND. Felt at Wellington on the North Island.
10	02	41	17.8*	6.337	S	154.807	E	85 ?	4.1		0.9	14	SOLOMON ISLANDS
10	02	57	50.1&	18.770	N	67.430	W	6				8	MONA PASSAGE. <MPR>. MD 3.0 (MPR).
10	03	06	01.7	2.246	N	127.029	E	100 G	4.9		0.9	47	NORTHERN MOLUCCA SEA
10	03	19	53.3	2.196	N	127.088	E	81 D	5.1		1.0	59	NORTHERN MOLUCCA SEA. Mw 5.2 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 03:19:58.0; Lat 2.85 N; Lon 127.38 E; Dep 41.2; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.25, Plg=27, Azm=121; (N) Val=0.45, Plg=9, Azm=26; (P) Val=-6.70, Plg=61, Azm=280; Best double couple: Mo=6.5*10**16 Nm; NP1: Strike=232, Dip=20, Slip=-63; NP2: Strike=23, Dip=73, Slip=-99.

10	04	02	16.9	34.459	N	28.781	E	33 N	3.9		1.0	33	EASTERN MEDITERRANEAN SEA. MD 3.9 (ATH), 3.6 (ISK).
10	04	07	13.3	43.123	N	0.070	W	10 G			1.0	22	PYRENEES. ML 3.1 (LDG), 2.6 (STR).
10	04	49	29.1*	30.639	N	141.879	E	33 N	4.6		1.1	24	SOUTH OF HONSHU, JAPAN
10	05	13	56.4*	17.501	S	178.948	W	600 G	4.2		0.3	12	FIJI ISLANDS REGION
10	05	17	05.3	22.067	S	65.986	W	263 D	4.7		0.8	93	JUJUY PROVINCE, ARGENTINA
10	05	54	53.1&	34.899	S	69.701	W	13				17	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 4.1 (GUC).
10	06	00	29.2&	34.591	S	70.800	W	99				13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.9 (GUC).
10	06	20	01.0?	4.58	S	140.09	E	33 N	4.1		1.5	9	IRIAN JAYA, INDONESIA
10	07	34	52.4	55.886	N	110.438	E	10 G	4.1		1.2	21	LAKE BAYKAL REGION, RUSSIA. Felt (III) at Kichera.
10	07	43	47.5&	31.768	S	69.462	W	40				13	SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 3.8 (GUC).
10	07	45	43.4	28.868	N	56.595	E	85 *	4.8		0.7	114	SOUTHERN IRAN
10	07	45	53.6	51.377	N	168.226	W	33 N	4.8		0.9	80	FOX ISLANDS, ALEUTIAN ISLANDS
10	07	51	27.3&	37.421	N	11.422	E	10				5	SICILY. <ROM>. ML 3.5 (ROM).
10	08	12	52.9&	62.991	N	150.982	W	110				54	CENTRAL ALASKA. <AEIC>.
10	08	15	25.7*	28.645	N	56.725	E	33 N	3.9		0.9	13	SOUTHERN IRAN
10	08	37	50.0&	47.810	N	7.690	E	17				7	SWITZERLAND. <FBB>. ML 1.9 (STR), 1.7 (FBB).
10	09	00	01.9&	39.633	N	29.543	E	10 G				4	TURKEY. <ISK>. MD 2.8 (ISK).
10	09	00	53.6&	34.161	S	70.027	W	7				10	CHILE-ARGENTINA BORDER REGION. <GUC>.
10	09	05	02.5*	5.679	S	147.193	E	52 ?	3.5		1.0	9	EASTERN NEW GUINEA REG., P.N.G.
10	09	06	22.8*	3.554	S	151.394	E	33 N	4.1		1.4	9	NEW IRELAND REGION, P.N.G.
10	09	07	06.8*	86.233	N	79.503	E	10 G	4.6	4.0	1.2	29	NORTH OF SEVERNAYA ZEMLYA
10	09	57	08.7*	54.862	S	30.975	W	33 N	4.6		0.9	13	SOUTH SANDWICH ISLANDS REGION
10	10	01	19.4&	39.162	N	27.512	E	10 G				4	TURKEY. <ISK>. MD 2.6 (ISK).
10	10	07	16.7&	63.332	N	149.574	W	102				44	CENTRAL ALASKA. <AEIC>.
10	10	17	20.7&	38.623	N	122.700	W	8				10	NORTHERN CALIFORNIA. <GM-P>. ML 3.2 (GM), 3.2 (BRK).
10	10	21	49.4&	40.340	N	21.550	E	6				8	GREECE. <ATH>. MD 3.2 (ATH).
10	10	47	58.8&	30.534	S	70.883	W	60				10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.1 (GUC).
10	10	56	55.2*	51.602	N	16.200	E	5 G			0.8	6	POLAND. ML 3.3 (VIE).
10	11	10	44.8?	14.14	S	166.21	E	33 N	4.2		1.3	7	VANUATU ISLANDS
10	11	37	29.7&	60.768	N	146.750	W	23				60	SOUTHERN ALASKA. <AEIC>. ML 2.9 (AEIC).
10	11	46	01.0&	39.490	N	122.990	W	9				5	NORTHERN CALIFORNIA. <GM-P>. MD 2.6 (GM).
10	12	28	18.6&	39.598	N	29.735	E	10 G				4	TURKEY. <ISK>. MD 2.6 (ISK).
10	12	35	57.4*	51.135	N	15.779	E	5 G			1.1	7	POLAND. ML 3.0 (VIE).
10	13	12	55.6	52.432	N	31.849	W	10 G	5.2	5.2	0.9	255	NORTHERN MID-ATLANTIC RIDGE. Mw 5.3 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 13:12:57.4; Lat 52.35 N; Lon 31.62 W; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.05, Plg=9, Azm=108; (N) Val=0.03, Plg=4, Azm=198; (P) Val=-1.08, Plg=80, Azm=310; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=193, Dip=36, Slip=-96; NP2: Strike=21, Dip=54, Slip=-86.

10	13	54	00.1	41.653	N	19.879	E	10 G			0.5	10	ALBANIA. ML 2.3 (PDG).
10	14	30	11.6	38.213	N	26.744	E	10 G			1.1	7	AEGEAN SEA. MD 3.6 (ATH), 3.2 (ISK).
10	14	34	57.7*	2.510	S	125.205	E	33 N	4.0		0.9	9	CERAM SEA
10	14	45	17.6*	52.449	N	159.455	E	33 N	4.0		0.7	15	OFF EAST COAST OF KAMCHATKA
10	16	04	29.4&	44.434	N	7.274	E	10				8	NORTHERN ITALY. <GEN>. ML 2.0 (GEN).
10	16	06	05.4&	44.400	N	7.800	E	2				5	NORTHERN ITALY. <LDG>. ML 2.0 (LDG).
10	16	10	09.5*	3.073	N	127.075	E	33 N	4.1		1.1	14	TALAUD ISLANDS, INDONESIA
10	16	55	34.2&	45.999	N	118.480	W	5				36	OREGON. <SEA-P>. MD 2.6 (SEA).

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10  16 58 09.1& 33.114 S   70.276 W    5                        8  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
10  17 15 19.2& 34.035 S   71.808 W   56                        9  NEAR COAST OF CENTRAL CHILE. <GUC>.
10  17 21 47.9?  5.36  N  122.13  E   33 N            1.0      8  CELEBES SEA
10  17 26 52.9& 33.198 N  116.009 W    2                        3  SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
10  17 27 45.3& 32.340 S   70.948 W   71                       15  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
10  18 07 04.9& 39.802 N   28.920 E    5                        5  TURKEY. <ISK>. MD 2.8 (ISK).
10  18 13 10.5& 61.788 N  151.955 W  125     4.0               106  SOUTHERN ALASKA. <AEIC>. Felt at Anchorage, Skwentna and
                                                                     Talkeetna.
10  18 57 46.1& 30.709 S   71.602 W   17                       10  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
10  19 39 49.4  47.667 N    1.306 W   10 G            0.4      7  FRANCE. ML 1.9 (LDG).
10  20 14 57.6   7.448 N  126.878 E   44 D   4.2      1.1     30  MINDANAO, PHILIPPINE ISLANDS
10  20 33 47.6  37.492 N   21.694 E   10 G   4.0      1.4     69  SOUTHERN GREECE. ML 4.2 (PDG), 4.1 (ATH).
10  20 45 33.9& 18.910 N   65.420 W   50                        5  PUERTO RICO REGION. <MPR>. MD 3.0 (MPR).
10  20 56 19.7& 42.405 N   19.325 E   20                        7  NORTHWESTERN BALKAN REGION. <PDG>. ML 1.1 (PDG).
10  21 41 29.5* 16.939 S  179.257 W  500 G   4.3      0.7     16  FIJI ISLANDS REGION
10  21 46 42.3& 39.766 N   28.907 E   10 G                        4  TURKEY. <ISK>. MD 2.6 (ISK).
10  21 55 12.5? 60.60  S   28.99  W   33 N   4.6      1.5     14  SOUTH SANDWICH ISLANDS REGION
10  22 20 26.2% 31.404 N  131.934 E   44 D            1.1      9  KYUSHU, JAPAN
10  22 25 41.6& 55.295 N  162.304 W  140                       13  ALASKA PENINSULA. <AEIC>.
10  23 06 32.3& 31.672 S   69.733 W  138                        8  SAN JUAN PROVINCE, ARGENTINA. <GUC>.
10  23 11 24.1& 34.722 S   69.793 W   11                        9  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
10  23 18 55.1   5.507 N  122.181 E   33 N   4.4 4.0  0.8     18  CELEBES SEA
10  23 22 05.0* 85.587 N   84.717 E   10 G   4.8      1.2     19  NORTH OF SEVERNAYA ZEMLYA
10  23 49 15.8& 32.793 S   70.205 W  105                        9  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.7 (GUC).
11  00 01 18.4  39.010 N   27.980 E   10 G            1.1     12  TURKEY. MD 3.5 (ATH), 3.3 (ISK).
11  00 09 58.2  85.700 N   85.153 E   10 G   4.2      1.0     16  NORTH OF SEVERNAYA ZEMLYA
11  00 15 32.3& 60.126 N  147.861 W   14                       79  SOUTHERN ALASKA. <AEIC>. ML 3.3 (AEIC), 3.2 (PMR).
11  00 37 15.7  28.500 S   69.436 W  120 G            1.1     15  CHILE-ARGENTINA BORDER REGION
11  01 27 42.0& 31.171 S   69.344 W  149                        9  SAN JUAN PROVINCE, ARGENTINA. <GUC>.
11  02 21 17.3* 30.775 N  131.375 E   59 ?   4.2      0.8     13  KYUSHU, JAPAN
11  02 35 48.5*  5.438 N  122.016 E   33 N   4.0      1.0     16  CELEBES SEA
11  02 39 47.0   5.440 N  121.912 E   33 N   4.5      0.9     34  CELEBES SEA
11  02 43 12.9   5.521 N  122.072 E   33 N   4.9      1.2     40  CELEBES SEA. Mw 5.1 (HRV).
                                                                     Centroid, Moment Tensor (HRV): Centroid origin time
                                                                      02:43:13.8; Lat 5.24 N; Lon 121.87 E; Dep 33.0 Fix; Half-
                                                                      duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                      Val=4.94, Plg=69, Azm=183; (N) Val=-1.04, Plg=20, Azm=346;
                                                                      (P) Val=-3.90, Plg=6, Azm=78; Best double couple:
                                                                      Mo=4.4*10**16 Nm; NP1: Strike=189, Dip=43, Slip=120; NP2:
                                                                      Strike=330, Dip=54, Slip=65.
11  02 57 35.6   5.490 N  121.912 E   33 N   4.8 4.4  1.2     47  CELEBES SEA
11  02 57 37.6& 36.740 N    6.220 W    0 G                        5  STRAIT OF GIBRALTAR. <MDD>. mbLg 1.9 (MDD).
11  03 06 58.6*  5.433 N  122.265 E   33 N   4.2      0.9     12  CELEBES SEA
11  03 15 58.0*  7.344 S  128.997 E  140 ?   4.0      1.3     15  BANDA SEA
11  04 16 34.0& 15.753 N   97.423 W   16                        9  NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 4.0 (UNM).
11  04 39 05.3*  9.251 S  120.933 E  177 *   4.2      1.5      7  SUMBA REGION, INDONESIA
11  05 15 07.8& 59.994 N  152.709 W   92                       78  SOUTHERN ALASKA. <AEIC>.
11  05 23 07.8& 33.752 S   70.403 W   10                       13  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.5 (GUC).
11  05 52 26.6& 37.430 N   21.690 E    5                        9  SOUTHERN GREECE. <ATH>. ML 3.3 (ATH).
11  06 37 30.3?  5.28  N  121.84  E   33 N   4.0      0.6      8  CELEBES SEA
11  07 22 29.7*  8.767 S  119.807 E  152 ?   4.2      0.9      9  FLORES REGION, INDONESIA
11  08 29 36.4   9.160 S  150.190 E   33 N   5.2 5.0  1.0     60  EASTERN NEW GUINEA REG., P.N.G. Mw 5.4 (HRV). ML 4.7 (PMG).
                                                                     Centroid, Moment Tensor (HRV): Centroid origin time
                                                                      08:29:38.4; Lat 9.25 S; Lon 150.39 E; Dep 15.0 Fix; Half-
                                                                      duration 1.2 sec; Principal axes (scale 10**17 Nm): (T)
                                                                      Val=0.91, Plg=4, Azm=9; (N) Val=0.58, Plg=33, Azm=102; (P)
                                                                      Val=-1.49, Plg=57, Azm=273; Best double couple:
                                                                      Mo=1.2*10**17 Nm; NP1: Strike=69, Dip=50, Slip=-135; NP2:
                                                                      Strike=306, Dip=57, Slip=-50.
11  09 18 27.8& 15.386 N   95.918 W   16                        8  NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 3.9 (UNM).
11  09 20 11.5& 15.299 N   95.874 W   14                        8  NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 4.1 (UNM).
11  10 51 30.7? 15.25  S  167.42  E  100 G            0.7      6  VANUATU ISLANDS
11  11 05 54.9  39.618 N  141.871 E   49 *   4.6      1.4     36  EASTERN HONSHU, JAPAN. Felt (III JMA) in many parts of Iwate
                                                                      Prefecture. Also felt (III JMA) in northern Miyagi; (II
                                                                      JMA) in southeastern Aomori and central Miyagi; (I JMA) in
                                                                      parts of Akita, southern Miyagi and northwestern Yamagata
                                                                      Prefectures.
11  11 21 33.0* 43.316 N  127.556 W   10 G            0.4     34  OFF COAST OF OREGON
11  11 27 59.2* 31.461 S   69.393 W  100 G            0.9     16  SAN JUAN PROVINCE, ARGENTINA. MD 3.7 (GUC).
11  11 33 07.1* 17.462 S  178.259 W  300 G   3.9      0.9     13  FIJI ISLANDS REGION
11  11 36 55.5?  5.61  N  122.82  E   33 N   4.1      1.0      7  CELEBES SEA
11  11 40 09.8* 12.437 S  166.657 E  119 ?   4.3      0.8     16  SANTA CRUZ ISLANDS
11  11 50 29.9* 34.309 N  138.394 E  239 *   4.0      1.4     17  NEAR S. COAST OF HONSHU, JAPAN
11  11 52 12.7& 39.584 N   29.650 E   10 G                        4  TURKEY. <ISK>. MD 2.7 (ISK).
11  11 52 28.6* 34.840 S   69.695 W   10 G            1.1     13  CHILE-ARGENTINA BORDER REGION. MD 3.6 (GUC).
11  11 52 41.6* 16.259 S  178.184 W  400 G   4.3      0.8     16  FIJI ISLANDS REGION
11  11 52 52.2*  8.734 N  126.674 E   33 N   4.5 4.2  1.0     22  MINDANAO, PHILIPPINE ISLANDS
11  12 20 32.9& 38.990 N   27.759 E    9                        6  TURKEY. <ISK>. MD 2.8 (ISK).
11  12 40 02.3* 52.601 N  169.589 W   33 N   3.9      0.7     10  FOX ISLANDS, ALEUTIAN ISLANDS
11  12 59 41.4*  5.565 N  122.115 E   33 N   4.1      1.0     11  CELEBES SEA
11  13 07 23.7&  4.502 N   75.664 W    3                        8  COLOMBIA. <RSNC>. ML 3.5 (RSNC).
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). Three people
                                                                      injured, at least 200 houses destroyed and 3,000 houses
                                                                      damaged in Zhangbei County. Felt as far as Beijing.
                                                                     Centroid, Moment Tensor (HRV): Centroid origin time
                                                                      13:18:13.3; Lat 41.73 N; Lon 114.64 E; Dep 15.0 Fix; Half-
                                                                      duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                      Val=6.10, Plg=11, Azm=160; (N) Val=-0.40, Plg=64, Azm=46;
                                                                      (P) Val=-5.70, Plg=23, Azm=255; Best double couple:
                                                                      Mo=5.9*10**16 Nm; NP1: Strike=295, Dip=65, Slip=[illegible]; NP2:
                                                                      Strike=29, Dip=82, Slip=-155.
11  13 40 17.7% 39.047 S  174.714 E  260 ?            0.4     17  NORTH ISLAND, NEW ZEALAND
11  14 15 00.1& 35.070 N   23.690 E   13                        5  CRETE. <ATH>. MD 3.5 (ATH).
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11  14 15 21.4*  8.841 N  126.627 E   33 N  4.0       1.1   17  MINDANAO, PHILIPPINE ISLANDS
11  14 19 37.2& 61.543 N  151.039 W   68                      51  SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC).
11  14 26 58.0? 47.09  N   27.37  W   10 G  3.5       0.9    6  NORTHERN MID-ATLANTIC RIDGE
11  14 43 34.5& 39.599 N   28.702 E   10 G                    7  TURKEY. <ISK>. MD 2.7 (ISK).
11  15 10 34.4& 39.208 N   27.349 E    8                      4  TURKEY. <ISK>. MD 2.8 (ISK).
11  15 11 23.7& 34.328 N  116.846 W    5                     26  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.0 (PAS).
11  15 20 54.0?  5.49  N  122.06  E   33 N  4.3       1.0    7  CELEBES SEA
11  15 30 04.3? 12.82  S  167.15  E   33 N  4.2       0.7    9  SANTA CRUZ ISLANDS
11  16 30 17.5& 37.626 N   29.282 E    9                      6  TURKEY. <ISK>. MD 3.3 (ISK).
11  16 33 57.8& 37.856 N   29.272 E   10 G                    5  TURKEY. <ISK>. MD 3.1 (ISK).
11  16 56 34.6   2.646 N   79.823 W   33 N  4.9       0.8   68  SOUTH OF PANAMA. Mw 4.9 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                16:56:40.5; Lat 2.97 N; Lon 79.86 W; Dep 33.0 Fix; Half-
                                                                duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                Val=2.77, Plg=5, Azm=277; (N) Val=0.03, Plg=20, Azm=185;
                                                                (P) Val=-2.80, Plg=70, Azm=21; Best double couple:
                                                                Mo=2.8*10**16 Nm; NP1: Strike=27, Dip=43, Slip=-61; NP2:
                                                                Strike=170, Dip=53, Slip=-115.
11  17 06 14.8? 51.45  N  178.20  W   33 N  3.4       1.1    7  ANDREANOF ISLANDS, ALEUTIAN IS.
11  17 16 08.3& 45.000 N    5.700 E    5                     26  FRANCE. <LDG>. ML 2.4 (LDG), 2.0 (STR).
11  17 38 36.6& 32.716 S   71.725 W   26                     11  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
11  17 53 09.9& 45.000 N    5.800 E    2                      5  FRANCE. <LDG>. ML 1.5 (LDG).
11  18 19 38.9& 35.520 N   23.440 E    5                      5  CRETE. <ATH>. MD 3.2 (ATH).
11  18 28 27.3*  5.456 N  122.070 E   33 N  4.3       1.2   18  CELEBES SEA
11  18 54 04.2& 31.682 S   71.561 W   48                     11  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
11  19 45 03.0& 35.470 N    3.400 W    9                     16  STRAIT OF GIBRALTAR. <MDD>. mbLg 2.8 (MDD).
11  21 13 39.8* 51.119 N   15.942 E    5 G       1.0    7  POLAND. ML 3.2 (VIE).
11  22 12 42.4? 25.64  N   94.32  E  106 ?  4.5       0.9    9  MYANMAR-INDIA BORDER REGION
11  23 10 58.6* 17.227 N  145.574 E  522 ?  4.1       0.9   25  MARIANA ISLANDS
11  23 23 50.2* 18.420 S  172.735 W   84 D  4.5       0.7   23  TONGA ISLANDS REGION
11  23 32 16.8& 31.027 S   69.601 W  190                     11  SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 3.3 (GUC).
12  00 06 16.1* 53.908 S  141.525 E   10 G  4.2       1.0   10  WEST OF MACQUARIE ISLAND
12  00 18 21.7& 42.883 N   17.482 E    1                     10  ADRIATIC SEA. <PDG>. ML 2.0 (PDG).
12  00 21 35.3& 40.667 N   29.896 E    5                      4  TURKEY. <ISK>. MD 2.5 (ISK).
12  00 21 46.7& 33.027 S   71.051 W   66                     14  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
12  00 28 08.2* 23.734 S  177.526 W  287 ?  4.4       0.7   26  SOUTH OF FIJI ISLANDS
12  00 30 48.5   7.477 S  123.402 E  380    5.2       0.8  140  BANDA SEA. Mw 5.4 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                00:30:52.8; Lat 7.43 S; Lon 123.83 E; Dep 392.7; Half-
                                                                duration 1.3 sec; Principal axes (scale 10**17 Nm): (T)
                                                                Val=1.60, Plg=12, Azm=176; (N) Val=-0.16, Plg=45, Azm=74;
                                                                (P) Val=-1.44, Plg=42, Azm=278; Best double couple:
                                                                Mo=1.5*10**17 Nm; NP1: Strike=308, Dip=51, Slip=-25; NP2:
                                                                Strike=53, Dip=71, Slip=-139.
12  00 51 54.0& 16.792 N   94.754 W  181                      6  OAXACA, MEXICO. <UNM>. MD 4.0 (UNM).
12  00 56 12.5* 40.918 S   44.343 E   10 G  4.7 4.4   1.0   34  SOUTHWEST INDIAN RIDGE
12  00 57 58.8& 40.705 N   29.941 E    5                      7  TURKEY. <ISK>. MD 3.0 (ISK).
12  01 10 58.0?  0.03  S   99.76  E   33 N  4.4       0.6    8  SOUTHERN SUMATERA, INDONESIA
12  01 15 23.6& 40.010 N   20.570 E   17                      4  GREECE-ALBANIA BORDER REGION. <ATH>. MD 2.9 (ATH).
12  01 20 52.7& 32.670 S   71.544 W   29                     10  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
12  01 47 51.0?  5.09  N   72.96  W   33 N  4.0       0.9    8  COLOMBIA
12  02 13 26.7*  1.909 N   32.199 W   10 G  4.4       0.9   18  CENTRAL MID-ATLANTIC RIDGE
12  02 15 51.9? 39.24  N  144.03  E   33 N              1.3    9  OFF EAST COAST OF HONSHU, JAPAN
12  02 55 58.7& 33.397 S   70.041 W  128                     12  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.9 (GUC).
12  02 56 02.6* 46.089 N   14.779 E   10 G              0.5    5  NORTHWESTERN BALKAN REGION. ML 1.6 (VIE).
12  03 02 30.2& 40.700 N   29.919 E   10 G                    4  TURKEY. <ISK>. MD 2.5 (ISK).
12  03 22 46.0& 45.430 N   15.970 E    0                      6  NORTHWESTERN BALKAN REGION. <ZAG>. ML 2.4 (VIE), 2.1 (ZAG).
12  03 43 59.8* 23.355 S   69.127 E   10 G  4.5       1.2   23  MID-INDIAN RIDGE
12  03 48 37.1* 15.766 N   95.747 W   10 G  3.9       1.5   16  NEAR COAST OF OAXACA, MEXICO. MD 4.5 (UNM).
12  03 59 40.3& 35.810 N   27.010 E    5                     22  DODECANESE ISLANDS. <ATH>. ML 4.1 (ATH).
12  04 36 33.0& 37.820 N  112.360 W    1    3.0               17  UTAH. <SLC-P>. ML 2.7 (SLC), 3.0 (GS).
12  04 54 25.6& 40.783 N   33.028 E   10 G                    7  TURKEY. <ISK>. MD 3.4 (ISK).
12  05 50 04.5& 33.158 S   70.271 W  112                     12  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
12  05 58 43.0* 31.382 S   69.199 W  102 ?              1.0   15  SAN JUAN PROVINCE, ARGENTINA. MD 3.9 (GUC).
12  07 05 31.1& 37.080 N    3.920 W    4                     13  SPAIN. <MDD>. mbLg 2.3 (MDD).
12  07 07 40.4  22.219 N  107.368 W   10 G  5.1 4.7   1.2   94  OFF COAST OF CENTRAL MEXICO. Mw 5.3 (HRV). MD 4.9 (UNM).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                07:07:42.7; Lat 22.20 N; Lon 107.63 W; Dep 15.0 Fix; Half-
                                                                duration 1.1 sec; Principal axes (scale 10**17 Nm): (T)
                                                                Val=1.12, Plg=4, Azm=229; (N) Val=-0.28, Plg=83, Azm=357;
                                                                (P) Val=-0.85, Plg=5, Azm=138; Best double couple:
                                                                Mo=9.9*10**16 Nm; NP1: Strike=274, Dip=83, Slip=-179; NP2:
                                                                Strike=183, Dip=89, Slip=-7.
12  07 34 14.7* 64.211 N  153.637 E   10 G  4.3       1.3   27  EASTERN SIBERIA, RUSSIA. Felt (IV) at Seymchan.
12  07 46 00.1* 52.801 N   34.961 W   10 G  4.2       1.1   27  NORTH ATLANTIC OCEAN
12  07 59 32.3? 27.89  N   57.40  E   33 N  4.4       0.8    8  SOUTHERN IRAN
12  08 26 26.4& 39.279 N   27.705 E    6                      4  TURKEY. <ISK>. MD 2.7 (ISK).
12  08 31 47.8  27.233 N   53.372 E   33 N  4.4       0.9   38  SOUTHERN IRAN
12  08 39 43.8& 58.403 N  151.995 W   54    2.6               47  KODIAK ISLAND REGION. <AEIC>. ML 2.9 (AEIC).
12  08 48 46.3& 42.829 N   18.755 E   20                      6  NORTHWESTERN BALKAN REGION. <PDG>. ML 1.3 (PDG).
12  09 01 38.4  49.242 N  147.743 E  542 *  3.9       0.8   57  SEA OF OKHOTSK
12  09 14 55.6& 40.445 N   27.790 E   11                      4  TURKEY. <ISK>. MD 2.5 (ISK).
12  09 46 34.4? 36.46  N   71.18  E  239 *              0.9    8  AFGHANISTAN-TAJIKISTAN BORD REG.
12  09 54 00.5& 43.060 N    0.630 W   10 G                   23  PYRENEES. <STR>. ML 3.1 (LDG), 2.8 (STR). mbLg 3.0 (MDD).
                                                                Felt (III) at Aspet, France.
12  10 07 51.3& 15.461 N   95.999 W   10                      8  NEAR COAST OF OAXACA, MEXICO. <UNM>. MD 3.9 (UNM).
12  11 16 39.4  20.000 S  177.765 W  587 D  5.2       0.9  259  FIJI ISLANDS REGION. Mw 5.6 (GS), 5.6 (HRV).
                                                               Moment Tensor (GS): Dep 574; Principal axes (scale 10**17
                                                                Nm): (T) Val=2.73, Plg=31, Azm=156; (N) Val=-0.24, Plg=24,
                                                                Azm=51; (P) Val=-2.49, Plg=49, Azm=291; Best double couple:
                                                                Mo=2.6*10**17 Nm; NP1: Strike=296, Dip=26, Slip=-23; NP2:
                                                                Strike=47, Dip=80, Slip=-114.
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
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11:16:42.9; Lat 19.91 S; Lon 177.61 W; Dep 585.5; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=2.77, Plg=41, Azm=154; (N) Val=0.33, Plg=17, Azm=48; (P) Val=-3.10, Plg=44, Azm=300; Best double couple: Mo=2.9*10**17 Nm; NP1: Strike=312, Dip=17, Slip=-5; NP2: Strike=48, Dip=88, Slip=-107.

12	11	22	54.6&	34.157	S	71.320	W	60				10	NEAR COAST OF CENTRAL CHILE. <GUC>.
12	11	41	13.2&	39.644	N	29.469	E	10	G			5	TURKEY. <ISK>. MD 2.6 (ISK).
12	12	25	06.8&	39.576	N	29.714	E	5				4	TURKEY. <ISK>. MD 2.6 (ISK).
12	12	29	24.2?	4.28	S	144.37	E	33	N	3.8	0.5	8	NEAR N COAST OF NEW GUINEA, PNG.
12	12	48	29.7?	39.15	N	67.53	E	33	N	4.1	1.3	6	SOUTHEASTERN UZBEKISTAN
12	13	05	11.4&	47.334	N	117.641	W	6				36	WASHINGTON. <SEA-P>. MD 3.0 (SEA), 2.8 (BUT).
12	14	03	27.1	35.926	N	70.674	E	117	D	4.6	0.8	57	HINDU KUSH REGION, AFGHANISTAN
12	14	17	13.5&	42.887	N	17.873	E	0				9	ADRIATIC SEA. <PDG>. ML 2.0 (PDG).
12	14	23	17.5&	62.877	N	150.543	W	91				40	CENTRAL ALASKA. <AEIC>.
12	14	24	25.1*	34.605	N	135.770	E	10	G	3.5	0.9	9	NEAR S. COAST OF WESTERN HONSHU. Felt (II JMA) in southeastern Hyogo and northern Osaka; (I JMA) in western Fukui, northern Nara and western Shiga Prefectures.
12	14	45	11.5?	27.55	S	176.41	W	33	N	4.1	0.6	11	KERMADEC ISLANDS REGION
12	14	49	59.6%	45.440	N	26.460	E	100	G		0.9	7	ROMANIA
12	15	16	29.7*	41.330	N	114.809	E	10	G	4.2	1.4	16	NORTHEASTERN CHINA. ML 4.6 (BJI).
12	15	26	18.0?	10.30	S	166.18	E	33	N	4.2	1.4	12	SANTA CRUZ ISLANDS
12	15	58	34.3&	42.581	N	18.992	E	10				7	NORTHWESTERN BALKAN REGION. <PDG>. ML 1.3 (PDG).
12	16	00	14.1	85.768	N	83.352	E	10	G	4.5 3.9	1.3	41	NORTH OF SEVERNAYA ZEMLYA
12	16	01	06.3	15.842	N	94.852	W	10	G		0.9	11	NEAR COAST OF OAXACA, MEXICO. MD 4.2 (UNM).
12	16	01	51.5&	64.787	N	148.999	W	24				26	CENTRAL ALASKA. <AEIC>. ML 2.7 (AEIC), 2.9 (PMR).
12	16	28	22.0&	33.158	S	70.271	W	6				10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
12	17	33	58.8	41.318	N	20.494	E	5	G		0.9	13	ALBANIA. MD 3.1 (ATH). ML 3.1 (PDG).
12	17	55	15.9&	38.947	N	30.580	E	10	G			4	TURKEY. <ISK>. MD 2.9 (ISK).
12	18	09	51.9*	7.583	S	148.287	E	33	N	3.8	1.3	12	EASTERN NEW GUINEA REG., P.N.G. ML 3.9 (PMG).
12	18	55	06.5*	30.589	S	178.612	W	250	G	4.4	1.2	19	KERMADEC ISLANDS, NEW ZEALAND
12	18	57	36.3&	39.420	N	27.790	E	10				5	TURKEY. <ISK>. MD 2.7 (ISK).
12	19	22	21.8?	53.26	N	34.48	W	10	G		0.8	9	NORTH ATLANTIC OCEAN
12	19	50	34.2	37.168	N	21.238	E	42		4.1	1.0	50	SOUTHERN GREECE. MD 4.0 (ATH).
12	20	01	08.9&	37.520	N	118.875	W	8				44	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. Mw 3.5 (BRK). MD 3.7 (GM).

Moment Tensor (BRK): Dep 8; Principal axes (scale 10**14 Nm): (T) Val=2.05, Plg=17, Azm=254; (N) Val=0.00, Plg=43, Azm=360; (P) Val=-2.05, Plg=42, Azm=148; Best double couple: Mo=2.1*10**14 Nm; NP1: Strike=195, Dip=74, Slip=-45; NP2: Strike=300, Dip=47, Slip=-158.

12	20	30	24.7&	39.980	N	21.610	E	5				8	GREECE. <ATH>. MD 3.0 (ATH).
12	20	35	03.5&	36.950	N	21.030	E	5				8	SOUTHERN GREECE. <ATH>. ML 3.7 (ATH).
12	20	42	35.0	19.292	S	68.847	W	118	D	5.1	0.9	204	CHILE-BOLIVIA BORDER REGION. Mw 5.2 (HRV). Felt (IV) at Arica, Huara and Iquique; (II) at Pozo Almonte, Chile.

Centroid, Moment Tensor (HRV): Centroid origin time 20:42:39.1; Lat 19.64 S; Lon 69.22 W; Dep 140.6; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=4.54, Plg=3, Azm=128; (N) Val=4.05, Plg=10, Azm=38; (P) Val=-8.58, Plg=80, Azm=234; Best double couple: Mo=6.6*10**16 Nm; NP1: Strike=229, Dip=43, Slip=-75; NP2: Strike=29, Dip=49, Slip=-103.

12	20	43	22.4&	40.834	N	35.923	E	5				4	TURKEY. <ISK>. MD 3.2 (ISK).
12	21	09	31.8	85.655	N	84.962	E	10	G	4.5	0.9	48	NORTH OF SEVERNAYA ZEMLYA
12	21	31	51.4*	85.688	N	84.673	E	10	G	4.2	0.6	10	NORTH OF SEVERNAYA ZEMLYA
12	21	43	30.2*	44.739	S	36.771	E	10	G	4.4	1.1	12	PRINCE EDWARD ISLANDS REGION
12	21	53	17.3*	37.360	N	71.587	E	105	?	4.1	0.8	14	AFGHANISTAN-TAJIKISTAN BORD REG.
12	22	01	29.0%	85.613	N	83.590	E	10	G		1.0	9	NORTH OF SEVERNAYA ZEMLYA
12	22	04	01.1	51.606	N	16.218	E	7			0.7	24	POLAND. ML 3.8 (GRF), 3.5 (VIE), 3.0 (CLL).
12	22	49	57.2&	35.880	S	70.865	W	9				14	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 4.4 (GUC).
12	23	08	21.3?	37.61	N	72.30	E	203	?	3.0	0.9	8	TAJIKISTAN
12	23	11	41.1	36.686	N	27.156	E	156		4.0	1.1	62	DODECANESE ISLANDS. MD 3.9 (ATH).
12	23	34	01.3*	21.637	N	143.214	E	325	?	3.6	1.3	15	MARIANA ISLANDS REGION
12	23	41	08.1&	12.000	N	43.814	E	5				7	WESTERN ARABIAN PENINSULA. <ARO>. ML 3.5 (ARO).
13	00	08	20.2*	1.946	S	139.105	E	33	N	4.4	1.1	18	NEAR NORTH COAST OF IRIAN JAYA
13	00	08	33.4&	47.900	N	2.700	W	2				4	FRANCE. <LDG>. ML 1.5 (LDG).
13	00	21	51.5&	34.366	S	70.160	W	15				7	CHILE-ARGENTINA BORDER REGION. <GUC>.
13	00	41	08.0*	46.262	N	13.663	E	10	G		0.8	8	AUSTRIA. ML 2.5 (VIE), 1.9 (LJU).
13	01	26	33.5	85.692	N	84.797	E	10	G	5.3 5.1	0.9	229	NORTH OF SEVERNAYA ZEMLYA. Mw 5.4 (HRV).

Centroid, Moment Tensor (HRV): Centroid origin time 01:26:34.8; Lat 85.73 N; Lon 84.22 E; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.44, Plg=10, Azm=209; (N) Val=-0.17, Plg=8, Azm=117; (P) Val=-1.27, Plg=77, Azm=350; Best double couple: Mo=1.4*10**17 Nm; NP1: Strike=308, Dip=36, Slip=-76; NP2: Strike=112, Dip=56, Slip=-99.

13	01	35	29.0?	37.00	N	71.46	E	116	?	4.3	1.2	10	AFGHANISTAN-TAJIKISTAN BORD REG.
13	01	48	45.4%	38.862	S	174.972	E	250	G		0.3	14	NORTH ISLAND, NEW ZEALAND
13	02	30	49.8?	52.20	N	158.88	E	82	*		0.8	11	NEAR EAST COAST OF KAMCHATKA
13	02	32	01.2&	33.664	S	71.410	W	45				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
13	02	37	27.6&	40.837	N	27.430	E	8				10	TURKEY. <ISK>. MD 3.1 (ISK).
13	02	55	28.3&	33.413	S	70.212	W	9				10	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.1 (GUC).
13	02	57	55.7?	51.77	N	176.81	W	68	*	3.9	1.3	8	ANDREANOF ISLANDS, ALEUTIAN IS.
13	03	04	03.0&	57.830	N	153.332	W	53				54	KODIAK ISLAND REGION. <AEIC>. ML 2.6 (AEIC).
13	03	04	06.9&	33.420	S	70.224	W	10				12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
13	03	40	51.3&	42.712	N	18.467	E	13				5	NORTHWESTERN BALKAN REGION. <PDG>. ML 0.9 (PDG).
13	04	03	11.9&	35.808	S	70.769	W	6				9	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.7 (GUC).
13	04	30	15.4?	35.38	N	53.46	E	33	N	4.5	1.1	7	NORTHERN IRAN
13	04	51	50.7&	39.332	N	29.488	E	14				4	TURKEY. <ISK>. MD 2.5 (ISK).
13	05	28	08.8&	37.220	N	21.210	E	5				4	SOUTHERN GREECE. <ATH>. MD 2.9 (ATH).
13	06	04	00.8?	30.27	N	90.37	E	33	N	4.4	1.5	8	XIZANG
13	06	30	26.5	56.231	N	164.139	E	33	*	4.6 4.4	1.0	76	KOMANDORSKY ISLANDS REGION
13	06	40	30.5	14.151	N	92.266	W	37		4.4	1.0	66	NEAR COAST OF CHIAPAS, MEXICO. MD 4.8 (UNM).

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13  07 27 19.1& 38.440 N   23.670 E   11                      18  GREECE. <ATH>. ML 3.7 (ATH).
13  08 20 50.0? 15.06  S  167.42  E  150 G            0.9     7  VANUATU ISLANDS
13  09 11 37.3  24.016 N  108.992 W   10 G  4.5       1.1    53  GULF OF CALIFORNIA
13  09 37 29.4& 15.883 N   98.814 W   17                     22  OFF COAST OF GUERRERO, MEXICO. <UNM>. MD 4.2 (UNM).
13  09 41 31.8  35.866 N   32.213 E   10 G            1.0    11  CYPRUS REGION. ML 3.6 (CSS). MD 3.4 (ISK).
13  09 42 47.5  28.839 S   67.192 W  145              1.1    24  LA RIOJA PROVINCE, ARGENTINA
13  09 52 19.6& 39.576 N   29.107 E   10 G                   4  TURKEY. <ISK>. MD 2.7 (ISK).
13  10 05 58.1& 42.379 N   19.339 E   14                     8  NORTHWESTERN BALKAN REGION. <PDG>. ML 1.3 (PDG).
13  10 24 29.3  46.055 N   14.788 E   10 G            0.2    7  NORTHWESTERN BALKAN REGION. ML 2.0 (VIE).
13  10 29 05.3& 41.358 N   19.371 E   19                    10  ALBANIA. <PDG>. ML 2.2 (PDG).
13  10 57 47.1  28.274 S   65.845 W   35 *            1.2    15  SANTIAGO DEL ESTERO PROV., ARG.
13  10 58 04.3& 40.612 N   27.894 E    9                     8  TURKEY. <ISK>. MD 2.9 (ISK).
13  11 01 56.6& 44.593 N    9.797 E   15                    16  NORTHERN ITALY. <GEN>. ML 3.0 (GEN), 2.4 (LDG).
13  11 17 48.8?  5.55  S  148.27  E  210 *  4.4       1.3    10  NEW BRITAIN REGION, P.N.G.
13  11 20 07.1& 39.570 N   29.527 E   12                     4  TURKEY. <ISK>. MD 2.4 (ISK).
13  11 33 22.2*  8.116 N  126.181 E   33 N  4.4       1.1    16  MINDANAO, PHILIPPINE ISLANDS
13  12 52 59.6& 42.990 N    0.090 W    2 G                    14  PYRENEES. <STR>. ML 2.8 (LDG), 2.5 (STR).
13  13 09 24.2& 30.616 S   72.011 W   54                    11  OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
13  13 31 20.4& 32.588 N  116.167 W    7                    42  CALIF.-BAJA CALIF. BORDER REGION. <PAS-P>. ML 4.3 (PAS). MD
                                                                 4.0 (ECX). Felt at El Centro, Escondido, Jacumba and
                                                                 Lakeside, California. Also felt at La Rumorosa and Tecate,
                                                                 Baja California.
13  14 23 41.0  85.761 N   84.736 E   10 G  4.5       0.9    30  NORTH OF SEVERNAYA ZEMLYA
13  14 24 43.1   8.088 N  126.113 E   33 N  4.5       0.9    35  MINDANAO, PHILIPPINE ISLANDS
13  16 27 27.7?  2.74  N   95.78  E   33 N            1.1     7  OFF W COAST OF NORTHERN SUMATERA
13  16 32 37.6& 42.582 N   18.237 E   15                     6  NORTHWESTERN BALKAN REGION. <PDG>. ML 1.7 (PDG).
13  16 33 31.1*  8.690 S  110.209 E   39 D  4.2       1.1    19  JAWA, INDONESIA
13  16 59 43.2   8.146 N  126.369 E   33 N  4.6 4.0    0.9    28  MINDANAO, PHILIPPINE ISLANDS
13  17 05 10.8*  8.201 N  126.429 E   33 N  4.2       1.1    14  MINDANAO, PHILIPPINE ISLANDS
13  18 00 16.7& 44.607 N    9.797 E    9                    25  NORTHERN ITALY. <GEN>. ML 2.8 (GEN), 2.5 (LDG), 2.3 (STR).
13  19 20 36.9  45.986 N   14.314 E   10 G            0.5     6  NORTHWESTERN BALKAN REGION. ML 2.2 (VIE).
13  19 39 05.8* 41.257 N  114.763 E   33 N            1.1     8  NORTHEASTERN CHINA. ML 3.7 (BJI).
13  20 22 21.4* 43.240 N   46.656 E   33 N  4.2       0.8     9  EASTERN CAUCASUS. Felt (III) at Dubki and Kizilyurt.
13  20 28 12.5*  4.751 S  151.584 E   33 N  3.8       0.7     8  NEW BRITAIN REGION, P.N.G.
13  21 11 57.7& 42.620 N    8.230 W   10                     7  SPAIN. <MDD>. mbLg 3.0 (MDD).
13  21 17 37.5& 38.439 N   39.239 E   10 G                   6  TURKEY. <ISK>. MD 4.0 (ISK).
13  22 41 30.2& 35.580 N    2.750 W    0 G                    7  STRAIT OF GIBRALTAR. <MDD>. mbLg 1.8 (MDD).
13  23 10 15.7   6.056 S  148.895 E   83    4.7       0.9    31  NEW BRITAIN REGION, P.N.G.
14  00 01 15.7* 34.239 N  138.807 E   61 ?  4.1       1.0    17  NEAR S. COAST OF HONSHU, JAPAN
14  00 03 56.0* 34.347 N  139.072 E   55 ?  4.0       1.1    31  NEAR S. COAST OF HONSHU, JAPAN
14  00 04 44.5  34.131 N  139.091 E   33 N  5.1 4.4    0.8   152  NEAR S. COAST OF HONSHU, JAPAN. Felt (IV JMA) on Kozu-shima
                                                                 and Miyake-jima; (III JMA) on Nii-jima.
14  00 13 32.2* 33.965 S  146.969 E   10 G  3.9       1.4    15  NEW SOUTH WALES, AUSTRALIA. Felt strongly at West Wyalong.
                                                                 Also felt at Ungarie.
14  00 21 22.4* 34.046 N  139.111 E   33 N  4.2       0.5     7  NEAR S. COAST OF HONSHU, JAPAN
14  00 37 14.2* 34.093 N  139.035 E   44 *  4.2       0.9    20  NEAR S. COAST OF HONSHU, JAPAN
14  00 44 33.9? 34.07  N  139.14  E   33 N  4.5       1.4     9  NEAR S. COAST OF HONSHU, JAPAN
14  01 34 33.4* 34.285 N  139.283 E   33 N  4.2       1.0    13  NEAR S. COAST OF HONSHU, JAPAN
14  01 50 45.4& 34.079 N  139.143 E   33 N            0.6     7  NEAR S. COAST OF HONSHU, JAPAN
14  02 07 11.9& 35.042 N   32.366 E   20                     4  CYPRUS REGION. <CSS>. ML 1.7 (CSS).
14  02 24 43.4* 30.962 N  138.455 E  392 *  4.2       0.5    16  SOUTH OF HONSHU, JAPAN
14  02 51 16.8& 39.432 N   27.935 E   10 G                   6  TURKEY. <ISK>. MD 2.8 (ISK).
14  03 02 26.3* 72.159 N    1.806 E   10 G            1.4     8  NORWEGIAN SEA
14  03 22 23.5& 37.260 N   21.010 E    5                     4  SOUTHERN GREECE. <ATH>. MD 2.8 (ATH).
14  03 33 48.9& 33.392 S   71.147 W   63                    11  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.3 (GUC).
14  03 41 39.3& 42.578 N   18.226 E   16                     9  NORTHWESTERN BALKAN REGION. <PDG>. ML 1.9 (PDG).
14  03 44 49.6? 20.00  S  177.62  W  500 G  3.9       1.3    15  FIJI ISLANDS REGION
14  04 01 04.3& 32.406 N  138.463 E  325 *            0.6     9  SOUTH OF HONSHU, JAPAN
14  04 08 44.6& 43.899 N    8.666 E   14                     9  CORSICA. <GEN>. ML 2.5 (GEN).
14  04 47 46.3* 34.174 N  139.021 E   33 N  4.3       1.1    14  NEAR S. COAST OF HONSHU, JAPAN. Felt (IV JMA) on Kozu-shima
                                                                 and (III JMA) on Miyake-jima and Nii-jima.
14  05 15 28.9& 59.802 N  151.893 W   64                    32  KENAI PENINSULA, ALASKA. <AEIC>. ML 2.5 (AEIC).
14  05 32 46.4& 33.175 S   70.363 W   95                    11  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.1 (GUC).
14  06 05 36.7  17.494 N  119.985 E   33 N            1.1    11  PHILIPPINE ISLANDS REGION
14  07 08 58.4* 30.386 S  179.149 W  300 G  4.0       1.0    19  KERMADEC ISLANDS REGION
14  08 11 58.9  12.033 N  143.645 E   33 N  5.1 5.0    1.1    67  SOUTH OF MARIANA ISLANDS. Mw 5.5 (HRV).
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  08:12:02.8; Lat 12.18 N; Lon 144.22 E; Dep 15.0 Bdy; Half-
                                                                  duration 1.0 sec; Principal axes (scale 10**17 Nm): (T)
                                                                  Val=2.43, Plg=37, Azm=256; (N) Val=-0.23, Plg=13, Azm=356;
                                                                  (P) Val=-2.20, Plg=50, Azm=102; Best double couple:
                                                                  Mo=2.3*10**17 Nm; NP1: Strike=296, Dip=15, Slip=-151; NP2:
                                                                  Strike=177, Dip=83, Slip=-77.
14  08 20 05.6? 13.59  N  145.67  E  100 G            1.3     9  MARIANA ISLANDS
14  08 54 17.4& 60.149 N  152.859 W  104                    31  SOUTHERN ALASKA. <AEIC>.
14  09 07 23.8& 33.908 S   71.184 W   54                    10  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.8 (GUC).
14  09 09 16.5  47.172 N  150.761 E  204 ?  4.2       1.0    39  KURIL ISLANDS
14  10 31 53.7  28.796 S   67.380 W  141              1.0    23  LA RIOJA PROVINCE, ARGENTINA
14  10 37 55.5& 47.300 N    3.300 W    2                     7  FRANCE. <LDG>. ML 2.4 (LDG).
14  11 22 48.2? 16.68  S  174.68  W   33 N  4.7       1.1    22  TONGA ISLANDS
14  11 25 33.9* 16.590 S  172.710 W   33 N  4.8 4.8    1.1    59  SAMOA ISLANDS REGION. Mw 5.4 (HRV).
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  11:25:36.8; Lat 16.88 S; Lon 172.82 W; Dep 15.0 Fix; Half-
                                                                  duration 1.0 sec; Principal axes (scale 10**17 Nm): (T)
                                                                  Val=1.32, Plg=9, Azm=223; (N) Val=0.11, Plg=49, Azm=324;
                                                                  (P) Val=-1.43, Plg=40, Azm=126; Best double couple:
                                                                  Mo=1.4*10**17 Nm; NP1: Strike=273, Dip=56, Slip=-156; NP2:
                                                                  Strike=168, Dip=70, Slip=-37.
14  11 56 58.1  13.163 N  125.459 E   33 N  4.5       0.9    23  PHILIPPINE ISLANDS REGION
14  11 59 38.5& 32.179 S   71.186 W   72                     9  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.8 (GUC).
14  12 11 10.2*  7.359 S  128.708 E  100 G  4.0       1.3    14  BANDA SEA
14  12 21 58.1& 58.464 N  152.771 W   47                    44  KODIAK ISLAND REGION. <AEIC>. ML 2.6 (AEIC).
14  12 32 40.7  21.526 S  177.850 W  378 D  4.8       0.9   124  FIJI ISLANDS REGION
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14	12	37	45.7&	37.160	N	21.180	E	5				4	SOUTHERN GREECE. <ATH>. MD 3.0 (ATH).
14	12	57	38.8&	42.800	N	0.300	W	6				7	PYRENEES. <LDG>. ML 2.2 (STR), 1.9 (LDG).
14	13	25	11.2	37.555	N	20.837	E	43 *	3.9		1.5	56	IONIAN SEA. MD 3.9 (ATH).
14	13	30	03.6&	37.130	N	21.140	E	5				4	SOUTHERN GREECE. <ATH>. MD 3.0 (ATH).
14	13	32	43.1?	5.31	S	103.22	E	33 N	4.3		0.9	11	SOUTHERN SUMATERA, INDONESIA
14	13	53	02.4*	12.035	S	166.784	E	145 D	4.6		1.0	57	SANTA CRUZ ISLANDS
14	14	45	14.6&	35.688	N	118.453	W	4				9	CENTRAL CALIFORNIA. <PAS-P>. ML 2.9 (PAS).
14	15	21	17.5	37.479	N	20.664	E	33 N	4.1		1.1	68	IONIAN SEA. ML 4.3 (PDG), 4.2 (ATH).
14	15	41	05.8	38.900	N	26.354	E	10 G			0.9	8	AEGEAN SEA. MD 3.4 (ATH), 3.2 (ISK).
14	16	12	21.0&	45.660	N	16.000	E	18				9	NORTHWESTERN BALKAN REGION. <ZAG>. ML 2.6 (ZAG), 2.5 (VIE).
14	16	25	43.6*	5.436	N	122.026	E	33 N	4.6		1.2	21	CELEBES SEA
14	16	30	56.5&	38.960	N	26.440	E	5				7	AEGEAN SEA. <ATH>. MD 3.1 (ATH), 3.0 (ISK).
14	16	38	44.5&	43.000	N	1.300	W	4				5	PYRENEES. <LDG>. ML 2.2 (STR), 2.1 (LDG).
14	17	29	58.7*	85.542	N	86.836	E	10 G			0.9	8	NORTH OF SEVERNAYA ZEMLYA
14	17	45	05.3&	18.620	N	66.810	W	83				6	PUERTO RICO REGION. <MPR>. MD 2.7 (MPR).
14	17	52	58.6	7.197	S	67.869	E	10 G	4.9	4.6	1.0	91	MID-INDIAN RIDGE. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 17:53:04.0; Lat 7.37 S; Lon 68.00 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=7.06, Plg=23, Azm=15; (N) Val=0.55, Plg=6, Azm=283; (P) Val=-7.62, Plg=66, Azm=180; Best double couple: Mo=7.3*10**16 Nm; NP1: Strike=117, Dip=22, Slip=-75; NP2: Strike=281, Dip=68, Slip=-96.
14	18	11	22.5&	30.896	S	71.549	W	20				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).
14	18	14	49.0&	40.477	N	125.423	W	3				13	OFF COAST OF NORTHERN CALIFORNIA. <GM-P>. ML 3.8 (GM).
14	18	28	57.0&	40.408	N	125.644	W	3				7	OFF COAST OF NORTHERN CALIFORNIA. <GM-P>. ML 3.6 (GM).
14	18	37	18.2&	42.830	N	0.870	W	2 G				8	PYRENEES. <STR>. ML 2.3 (STR), 2.1 (LDG).
14	18	42	48.8	55.128	N	110.525	E	10 G	4.4		0.5	9	LAKE BAYKAL REGION, RUSSIA
14	19	25	35.3&	33.931	S	70.479	W	14				15	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 4.3 (GUC).
14	20	04	08.9*	48.243	N	8.718	E	5 G			0.6	8	GERMANY. ML 2.1 (LDG), 1.8 (STR).
14	20	21	04.1	13.179	N	88.635	W	49 D	4.5		1.3	101	EL SALVADOR. MD 5.0 (UNM), 4.8 (CASC).
14	20	32	15.6*	38.302	N	55.934	E	33 N	3.9		1.4	6	TURKMENISTAN-IRAN BORDER REGION. Felt (III) at Kara-Kala, Turkmenistan.
14	20	51	03.3*	22.190	N	143.082	E	206 ?	4.2		0.7	16	VOLCANO ISLANDS REGION
14	21	31	01.0	53.336	N	164.568	W	10 G			0.8	18	UNIMAK ISLAND REGION. ML 3.6 (AEIC).
14	22	28	28.1&	37.790	N	21.750	E	5				7	SOUTHERN GREECE. <ATH>. ML 3.0 (ATH).
14	22	43	17.9&	32.591	N	104.630	W	1 G				46	NEW MEXICO. <SNM-P>. MD 4.0 (SNM). mbLg 4.0 (GS). Felt at Carlsbad, Hope and Lakewood. Also felt west of Artesia.
14	22	53	52.1&	37.770	N	21.700	E	2				8	SOUTHERN GREECE. <ATH>. MD 3.0 (ATH).
14	22	57	08.0*	20.593	S	178.637	W	600 G	4.5		1.0	25	FIJI ISLANDS REGION
14	23	19	55.0&	39.710	N	20.310	E	5				9	GREECE-ALBANIA BORDER REGION. <ATH>. MD 3.0 (ATH).
14	23	31	37.2&	64.881	N	150.530	W	24				33	CENTRAL ALASKA. <AEIC>. ML 3.1 (AEIC), 3.2 (PMR).
15	00	04	23.8&	34.304	N	33.280	E	5				7	CYPRUS REGION. <CSS>. ML 3.0 (CSS).
15	01	46	23.8	33.154	N	138.209	E	299	4.5		0.9	83	SOUTH OF HONSHU, JAPAN
15	01	50	40.9?	39.11	S	174.55	E	200 G			0.9	11	NORTH ISLAND, NEW ZEALAND
15	02	54	49.6&	50.100	N	8.500	E	7				15	GERMANY. <LDG>. ML 2.5 (LDG), 2.4 (STR).
15	02	55	51.5&	44.100	N	7.000	E	2				13	NORTHERN ITALY. <LDG>. ML 1.7 (STR), 1.6 (LDG).
15	03	06	32.7	17.553	N	145.545	E	275 *	4.3		1.1	39	MARIANA ISLANDS
15	03	21	30.8?	24.17	S	179.52	E	586 ?	3.9		0.8	18	SOUTH OF FIJI ISLANDS
15	03	45	47.4&	40.592	N	28.974	E	8				9	TURKEY. <ISK>. MD 3.0 (ISK).
15	03	51	13.2	44.462	N	149.373	E	63 D	4.7		1.0	79	KURIL ISLANDS
15	05	09	52.3*	3.879	S	131.318	E	33 N	4.7		1.4	29	IRIAN JAYA REGION, INDONESIA
15	05	13	33.1*	0.153	S	63.616	W	33 N	4.2		1.4	21	WESTERN BRAZIL
15	05	15	47.7*	33.802	N	96.453	E	33 N	4.3		1.3	10	QINGHAI, CHINA
15	05	51	17.4*	44.391	N	149.461	E	58 D	4.5		1.2	34	KURIL ISLANDS
15	06	47	52.9&	38.460	N	26.640	E	15				9	AEGEAN SEA. <ATH>. MD 3.6 (ATH), 3.4 (ISK).
15	07	27	25.0&	40.759	N	35.291	E	10				6	TURKEY. <ISK>. MD 3.8 (ISK).
15	07	49	10.6&	44.352	N	7.016	E	8				9	NORTHERN ITALY. <GEN>. ML 2.0 (GEN).
15	08	34	50.7&	41.690	N	2.390	W	1				9	SPAIN. <MDD>. mbLg 2.7 (MDD).
15	09	19	11.5	13.808	N	61.429	W	200 G	3.7		0.8	29	WINDWARD ISLANDS. MD 3.6 (TRN).
15	09	44	58.6	43.478	N	139.149	E	51 *	4.7	4.3	1.0	100	EASTERN SEA OF JAPAN. Felt (I JMA) in western Hokkaido.
15	09	56	26.1	7.226	S	128.694	E	100 G	4.7		1.0	61	BANDA SEA
15	10	02	52.0*	36.110	N	22.866	E	33 N	3.9		1.4	21	SOUTHERN GREECE. ML 3.5 (ATH).
15	10	28	56.5	31.684	S	117.061	E	10 G	3.7		1.0	6	WESTERN AUSTRALIA
15	10	42	55.4	41.891	N	82.692	E	10 G	5.3	5.0	0.9	242	SOUTHERN XINJIANG, CHINA. Mw 5.5 (HRV). Felt in Baicheng and Xinhe Counties. Centroid, Moment Tensor (HRV): Centroid origin time 10:43:01.0; Lat 41.98 N; Lon 82.38 E; Dep 17.0 Bdy; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.72, Plg=56, Azm=304; (N) Val=-0.01, Plg=13, Azm=55; (P) Val=-1.71, Plg=30, Azm=153; Best double couple: Mo=1.7*10**17 Nm; NP1: Strike=279, Dip=19, Slip=135; NP2: Strike=52, Dip=77, Slip=76.
15	10	47	24.8&	35.610	N	26.890	E	5				7	CRETE. <ATH>. MD 3.9 (ATH).
15	11	02	09.7&	44.300	N	7.500	E	0				5	NORTHERN ITALY. <LDG>. ML 2.0 (LDG).
15	11	57	45.6*	22.417	N	120.706	E	33 N	4.2		1.2	7	TAIWAN
15	12	09	16.5*	24.908	N	128.480	E	33 N	3.4		0.9	9	SOUTHEAST OF RYUKYU ISLANDS
15	12	20	33.2*	6.091	S	151.124	E	33 N	4.3		0.9	15	NEW BRITAIN REGION, P.N.G.
15	12	53	20.8*	4.010	S	142.491	E	33 N	3.7		1.3	7	NEW GUINEA, PAPUA NEW GUINEA
15	13	16	45.7&	35.650	N	26.330	E	5				5	CRETE. <ATH>. MD 3.5 (ATH).
15	13	22	25.9&	18.880	N	67.280	W	45				5	MONA PASSAGE. <MPR>. MD 3.0 (MPR).
15	14	44	15.9*	0.816	S	135.420	E	33 N	4.2		1.3	10	IRIAN JAYA REGION, INDONESIA
15	15	02	25.0&	36.510	N	4.440	W	0 G				8	STRAIT OF GIBRALTAR. <MDD>. mbLg 1.8 (MDD).
15	15	54	08.1&	44.400	N	2.500	E	8				5	FRANCE. <LDG>. ML 2.2 (LDG).
15	16	09	15.4*	18.225	S	173.677	W	33 N	4.3		0.5	13	TONGA ISLANDS
15	16	24	02.0*	85.774	N	84.316	E	10 G	3.6		0.8	6	NORTH OF SEVERNAYA ZEMLYA
15	16	24	47.4&	33.638	N	119.060	W	6 G				27	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
15	16	56	06.5&	39.970	N	23.850	E	5				13	AEGEAN SEA. <ATH>. ML 3.5 (ATH).
15	17	00	31.4&	44.373	N	7.294	E	11				7	NORTHERN ITALY. <GEN>. ML 2.0 (GEN).
15	17	05	34.5	17.918	N	101.586	W	33 N			1.[illegible]	[illegible]	NEAR COAST OF GUERRERO, MEXICO. MD 4.3 (UNM).
15	17	18	47.1&	36.610	N	4.480	W	0 G				8	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.2 (MDD).
15	17	27	00.5&	44.803	N	7.503	E	37				26	NORTHERN ITALY. <GEN>.
15	17	33	33.6&	33.927	S	70.483	W	13				9	CHILE-ARGENTINA BORDER REGION. <GUC>.

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15  17 35 03.3* 37.075 N  137.145 E   33 N  3.2        1.1    7  NEAR WEST COAST OF HONSHU, JAPAN
15  18 00 35.0& 65.460 N  150.080 W   13                      25  NORTHERN ALASKA. <AEIC>. ML 2.9 (AEIC), 3.4 (PMR).
15  18 22 27.0? 31.59  S   68.43  W  100 G            0.9   11  SAN JUAN PROVINCE, ARGENTINA
15  18 56 03.9& 34.316 S   70.069 W    4                     13  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.6 (GUC).
15  19 00 23.6& 39.353 N   27.077 E    6                      5  TURKEY. <ISK>. MD 2.8 (ISK).
15  19 19 16.7  46.050 N   14.779 E   10 G            0.3   10  NORTHWESTERN BALKAN REGION. ML 2.5 (VIE), 1.9 (LJU).
15  19 37 14.1& 34.280 S   70.072 W    9                      9  CHILE-ARGENTINA BORDER REGION. <GUC>.
15  19 44 38.1  46.053 N   14.777 E   10 G            0.3    8  NORTHWESTERN BALKAN REGION. ML 2.2 (VIE).
15  20 13 04.0& 33.165 S   70.302 W    4                      8  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.2 (GUC).
15  20 34 45.3  32.873 N   12.769 W   10 G            1.2   34  MADEIRA ISLANDS REGION. mbLg 3.4 (MDD).
15  21 51 12.5  54.555 N  160.871 W   33 N  4.8       1.1   31  ALASKA PENINSULA. ML 4.2 (PMR).
15  22 07 06.4? 14.11  S   75.56  W   33 N  4.1       0.9   10  NEAR COAST OF PERU
15  23 46 50.8% 23.615 N  121.151 E   33 N            0.5    8  TAIWAN. Felt (III JMA) in western Nan-tou and eastern Yun-
                                                                  lin Counties; (II JMA) at Chia-i.
16  00 00 36.5* 34.919 N   22.499 E   33 N            1.3   11  CENTRAL MEDITERRANEAN SEA. MD 3.8 (ATH).
16  00 12 40.6* 85.609 N   86.312 E   10 G  4.4       1.2   17  NORTH OF SEVERNAYA ZEMLYA
16  00 15 28.7& 35.390 N   22.300 E   33 N                   8  CENTRAL MEDITERRANEAN SEA. <ATH>. MD 3.6 (ATH).
16  00 45 52.8& 33.169 S   70.996 W   44                      9  CHILE-ARGENTINA BORDER REGION. <GUC>.
16  00 54 50.8& 36.650 N   22.870 E   10                      5  SOUTHERN GREECE. <ATH>. MD 3.2 (ATH).
16  01 51 04.0  37.907 N   69.911 E   46 D  4.2 3.9     0.9   33  AFGHANISTAN-TAJIKISTAN BORD REG.
16  02 21 18.7& 34.858 S   69.748 W   15                      9  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
16  02 50 04.8? 55.38  S  128.87  W   10 G  4.6       1.4   17  PACIFIC-ANTARCTIC RIDGE
16  03 23 29.8* 21.840 N  121.728 E   33 N            1.2   14  TAIWAN REGION
16  03 32 16.2   2.683 N  125.674 E  114 D  5.6       1.1  138  TALAUD ISLANDS, INDONESIA. Mw 5.5 (HRV). Felt (III) at
                                                                  Manado and (II) at Bitung, Sulawesi.
                                                                  Centroid, Moment Tensor (HRV): Centroid origin time
                                                                   03:32:16.3; Lat 2.83 N; Lon 126.00 E; Dep 76.4; Half-
                                                                   duration 1.5 sec; Principal axes (scale 10**17 Nm): (T)
                                                                   Val=2.25, Plg=75, Azm=282; (N) Val=-0.03, Plg=1, Azm=18;
                                                                   (P) Val=-2.22, Plg=15, Azm=108; Best double couple:
                                                                   Mo=2.2*10**17 Nm; NP1: Strike=200, Dip=30, Slip=93; NP2:
                                                                   Strike=17, Dip=60, Slip=88.
16  03 39 34.8& 16.241 N   98.053 W    2                      8  NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.8 (UNM).
16  03 41 32.6& 34.094 S   71.969 W   43                     12  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
16  03 49 23.8& 38.965 N   27.138 E   10 G                    4  TURKEY. <ISK>. MD 2.8 (ISK).
16  04 06 49.4& 15.990 N   99.020 W   10                      5  OFF COAST OF GUERRERO, MEXICO. <UNM>. MD 3.7 (UNM).
16  05 06 17.7& 59.920 N  142.010 W    6                     49  GULF OF ALASKA. <AEIC>. ML 3.1 (AEIC), 3.1 (PGC).
16  05 27 25.5  42.121 N  125.439 W   10 G  3.7       0.6   27  OFF COAST OF OREGON
16  05 36 59.2& 14.147 N   61.035 W   27                      6  WINDWARD ISLANDS. <TRN>. MD 3.1 (TRN).
16  06 14 07.6  22.002 N  107.375 W   33 N  4.5 4.1     0.9   44  OFF COAST OF CENTRAL MEXICO. MD 4.7 (UNM).
16  06 49 01.0& 33.086 S   70.642 W   87                     14  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.7 (GUC).
16  06 52 17.1  34.179 N   25.809 E   33 N  3.8       1.1   26  CRETE. MD 4.0 (ATH).
16  07 29 45.2& 36.290 N   22.000 E    6                      7  SOUTHERN GREECE. <ATH>. MD 3.6 (ATH).
16  07 36 50.4* 46.135 N   15.049 E   10 G            0.2    5  NORTHWESTERN BALKAN REGION. ML 1.1 (LJU).
16  07 43 36.9  35.213 N  135.820 E   33 N  5.1 4.4     0.9  146  WESTERN HONSHU, JAPAN. Felt (IV JMA) in Shiga and (III JMA)
                                                                   in western Fukui, southern Kyoto and northeastern Mie
                                                                   Prefectures. Felt in much of central Honshu.
16  09 04 37.8  52.630 N  106.864 E   10 G  4.1       1.1   19  LAKE BAYKAL REGION, RUSSIA. Felt (V) at Tyrgana and
                                                                   Yelantsy; (IV) at Irkutsk, Krasnyy Yar, Oymur, Shergino and
                                                                   Sukhaya; (II) at Slyudyanka and Ulan-Ude.
16  09 12 45.6* 17.773 N  101.157 W   33 N            0.8    6  NEAR COAST OF GUERRERO, MEXICO. MD 3.8 (UNM).
16  10 13 49.4  42.388 N  111.571 W    5 G            0.9   23  EASTERN IDAHO. ML 3.2 (BUT), 3.1 (GS).
16  10 24 21.8& 39.278 N   28.305 E   10 G                    4  TURKEY. <ISK>. MD 2.7 (ISK).
16  10 31 54.4& 41.091 N   28.952 E   10 G                    4  TURKEY. <ISK>. MD 2.6 (ISK).
16  10 37 42.3& 34.109 S   70.119 W    6                     12  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.0 (GUC).
16  10 56 32.1& 44.390 N    7.550 E    2 G                   10  NORTHERN ITALY. <STR>. ML 2.3 (LDG), 1.8 (STR).
16  11 30 29.0& 19.681 N   98.634 W    5                      9  CENTRAL MEXICO. <UNM>. MD 3.0 (UNM).
16  12 02 05.7& 41.109 N   28.500 E   10 G                    6  TURKEY. <ISK>. MD 2.7 (ISK).
16  12 19 07.0? 18.24  S  169.02  E  238 *  4.2       1.4   16  VANUATU ISLANDS
16  12 48 36.0& 60.180 N  137.530 W    5 G                   12  SOUTHERN YUKON TERRITORY, CANADA. <PGC-P>. ML 3.5 (PGC).
16  12 50 48.0& 49.610 N   66.320 W   18 G  4.4            74  GASPE PENINSULA, CANADA. <OTT-P>. mbLg 5.1 (OTT), 4.8 (GS).
                                                                   Felt (V) at Gros Morne. Felt at Baie-Comeau, Baie-Trinite,
                                                                   Cap-Chat, Causapscal, Dochville, Gaspe, Matane,
                                                                   Murdochville, Pointe-au-Pere, Port-Cartier, Riviere-au-
                                                                   Tonnerre, St.-Rene, Ste.-Anne-des-Monts and Sept-Iles. Also
                                                                   felt near Bathurst, New Brunswick and as far west as Quebec.
16  13 13 48.4*  5.120 S  153.539 E   33 N            1.5    7  NEW IRELAND REGION, P.N.G.
16  13 59 35.5  15.894 N   60.113 W   33 N  3.6       0.6   19  LEEWARD ISLANDS. MD 3.5 (TRN).
16  14 08 12.4& 44.400 N    7.600 E    2                      4  NORTHERN ITALY. <LDG>. ML 2.1 (LDG).
16  14 22 16.7* 14.800 S  167.221 E  107 ?  4.2       0.9   30  VANUATU ISLANDS
16  14 42 54.3   0.029 N   16.807 W   10 G  5.0 4.7     0.9  123  NORTH OF ASCENSION ISLAND. Mw 5.3 (HRV).
                                                                  Centroid, Moment Tensor (HRV): Centroid origin time
                                                                   14:42:59.0; Lat 0.47 N; Lon 17.20 W; Dep 15.0 Fix; Half-
                                                                   duration 1.1 sec; Principal axes (scale 10**17 Nm): (T)
                                                                   Val=0.96, Plg=2, Azm=222; (N) Val=0.07, Plg=74, Azm=319;
                                                                   (P) Val=-1.02, Plg=16, Azm=132; Best double couple:
                                                                   Mo=9.9*10**16 Nm; NP1: Strike=268, Dip=77, Slip=-170; NP2:
                                                                   Strike=176, Dip=80, Slip=-13.
16  15 49 06.0& 38.630 N   21.360 E   18                      6  GREECE. <ATH>. MD 2.9 (ATH).
16  16 13 32.5& 34.439 N   32.120 E   15                      6  CYPRUS REGION. <CSS>. ML 3.0 (CSS).
16  16 20 42.3& 48.230 N    7.260 E    8 G                   32  FRANCE. <STR>. ML 2.8 (LDG), 2.3 (STR), 2.3 (FBB).
16  16 39 17.3& 48.200 N    7.270 E    2 G                   55  FRANCE. <STR>. ML 3.4 (GRF), 3.3 (LDG), 3.2 (FBB), 3.2
                                                                   (VIE), 2.9 (STR).
16  17 13 37.7& 38.850 N   21.480 E   10                      6  GREECE. <ATH>. MD 3.0 (ATH).
16  18 06 32.5  42.095 N  125.509 W   10 G  4.4       0.6   52  OFF COAST OF OREGON. Mw 4.3 (BRK).
                                                                  Moment Tensor (BRK): Dep 8; Principal axes (scale 10**15
                                                                   Nm): (T) Val=3.13, Plg=12, Azm=71; (N) Val=0.00, Plg=35,
                                                                   Azm=170; (P) Val=-3.13, Plg=52, Azm=324; Best double
                                                                   couple: Mo=3.1*10**15 Nm; NP1: Strike=8, Dip=66, Slip=-51;
                                                                   NP2: Strike=125, Dip=45, Slip=-145.
16  18 33 14.7& 62.670 N  149.450 W   68                     42  CENTRAL ALASKA. <AEIC>. ML 2.5 (AEIC).
16  18 40 21.0& 41.229 N   34.652 E   11                      4  TURKEY. <ISK>. MD 2.7 (ISK).
16  20 32 11.1? 12.05  N  143.69  E   33 N  4.2       1.4   10  SOUTH OF MARIANA ISLANDS
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16	20	36	38.9*	4.895	S	153.898	E	33	N	4.4	0.4	6	NEW IRELAND REGION, P.N.G.
16	20	53	14.3?	9.69	N	125.66	E	33	N	3.8	0.9	10	MINDANAO, PHILIPPINE ISLANDS
16	21	03	41.9*	28.792	N	139.548	E	459	*	3.8	0.6	16	BONIN ISLANDS REGION
16	21	10	58.5&	34.720	N	4.240	W	0				12	MOROCCO. <MDD>. mbLg 2.3 (MDD).
16	21	41	37.2*	34.222	N	4.386	W	10	G	3.8	1.0	36	MOROCCO. mbLg 3.0 (MDD).
16	22	27	52.7?	28.52	N	78.23	E	33	N	4.2	0.5	8	NORTHERN INDIA
16	23	39	50.4&	39.329	N	27.995	E	10	G			4	TURKEY. <ISK>. MD 2.6 (ISK).
16	23	51	38.4*	8.106	S	120.042	E	208	?	4.1	1.1	13	FLORES REGION, INDONESIA
17	00	13	13.5*	24.254	S	66.973	W	200	G	3.9	0.5	9	SALTA PROVINCE, ARGENTINA
17	00	24	57.2?	5.91	S	128.74	E	300	G	3.7	1.1	8	BANDA SEA
17	01	04	37.0*	4.475	N	75.779	W	10	G		1.2	6	COLOMBIA. ML 3.4 (RSNC).
17	01	47	21.4	4.389	S	152.021	E	153	D	4.8	0.8	110	NEW BRITAIN REGION, P.N.G.
17	01	49	11.7&	46.500	N	2.400	E	11				6	FRANCE. <LDG>. ML 1.7 (LDG).
17	01	50	23.1&	34.456	N	32.126	E	15				7	CYPRUS REGION. <CSS>. ML 3.0 (CSS).
17	01	52	01.8&	40.960	N	27.922	E	5				4	TURKEY. <ISK>. MD 2.6 (ISK).
17	01	58	10.4	34.186	S	150.635	E	10	G	3.8	1.1	14	NEAR S.E. COAST OF AUSTRALIA. Slight damage and power outages in the Sydney area. Felt throughout the Sydney area and at Newcastle.
17	03	08	22.3	11.283	N	125.407	E	49	D	4.8	0.8	39	SAMAR, PHILIPPINE ISLANDS
17	03	28	12.4*	43.029	N	0.172	W	10	G		0.1	5	PYRENEES. ML 2.4 (STR). Felt (III) in the epicentral area.
17	03	54	24.8*	0.494	S	100.773	E	200	G		0.6	10	SOUTHERN SUMATERA, INDONESIA
17	03	54	42.2?	8.34	S	76.64	W	150	G	3.8	1.4	17	CENTRAL PERU
17	03	59	07.6&	44.820	N	6.694	E	14				6	FRANCE. <GEN>. ML 1.8 (GEN).
17	04	22	38.1	38.951	N	21.959	E	10	G		1.2	6	GREECE. MD 3.0 (ATH).
17	04	43	56.1&	32.188	S	71.122	W	62				14	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.0 (GUC).
17	04	44	55.6?	14.28	N	90.69	W	33	N		1.0	6	GUATEMALA
17	04	45	48.1&	62.380	N	150.640	W	68				58	CENTRAL ALASKA. <AEIC>. ML 2.7 (AEIC).
17	05	18	58.1	42.420	N	111.546	W	5	G		0.7	21	EASTERN IDAHO. ML 2.8 (GS).
17	05	25	30.7&	34.926	S	69.771	W	17				9	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
17	06	04	34.3	35.827	N	6.078	E	10	G	4.4	1.2	77	NORTHERN ALGERIA
17	06	05	33.6*	59.853	S	26.431	W	33	N	4.4	0.7	9	SOUTH SANDWICH ISLANDS REGION
17	06	57	58.6*	36.224	N	139.922	E	100	G	3.2	0.6	5	EASTERN HONSHU, JAPAN
17	07	01	17.4*	45.538	N	26.452	E	150	G		0.7	9	ROMANIA
17	07	21	20.3	30.958	S	138.900	E	10	G		1.4	9	SOUTH AUSTRALIA. Felt in the epicentral area.
17	07	24	14.9*	35.770	N	22.724	E	10	G		1.2	8	CENTRAL MEDITERRANEAN SEA. ML 3.6 (ATH).
17	07	27	05.1*	47.419	N	154.225	E	33	N	4.1	1.2	17	KURIL ISLANDS
17	08	22	47.2&	32.601	S	71.439	W	41				12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
17	08	44	07.6	18.196	N	100.410	W	33	N		0.4	17	GUERRERO, MEXICO. MD 3.6 (UNM).
17	10	38	26.7&	60.860	N	150.660	W	37				48	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.5 (AEIC).
17	10	52	30.3*	21.508	S	68.114	W	100	G	4.4	1.0	11	CHILE-BOLIVIA BORDER REGION
17	11	38	42.8*	34.856	N	136.324	E	350	G	3.6	0.4	10	WESTERN HONSHU, JAPAN
17	11	52	32.7*	16.523	S	71.271	W	100	G	4.2	1.0	23	SOUTHERN PERU
17	11	57	33.5	65.194	N	170.934	W	10	G	3.8	1.2	29	EASTERN SIBERIA, RUSSIA
17	12	29	23.1&	32.582	N	104.672	W	1	G			17	NEW MEXICO. <SNM-P>. MD 3.5 (SNM).
17	12	40	13.8?	21.71	S	179.41	W	600	G	4.6	0.9	20	FIJI ISLANDS REGION
17	12	55	22.6&	11.001	N	62.155	W	51				6	WINDWARD ISLANDS. <TRN>. MD 2.9 (TRN).
17	14	07	01.0	11.356	N	143.370	E	46	D	4.6	0.6	32	SOUTH OF MARIANA ISLANDS
17	14	12	25.3?	31.08	S	68.86	W	100	G		1.0	13	SAN JUAN PROVINCE, ARGENTINA. MD 3.7 (GUC).
17	15	05	51.3*	19.448	S	69.038	W	100	G	4.5	0.6	7	NORTHERN CHILE
17	15	18	58.6&	35.900	S	70.688	W	13				6	CHILE-ARGENTINA BORDER REGION. <GUC>.
17	15	33	39.5&	58.990	N	152.970	W	66				16	KODIAK ISLAND REGION. <AEIC>. ML 2.5 (AEIC), 2.8 (PMR).
17	16	23	27.1	39.449	N	76.798	E	33	N	4.5	0.6	24	SOUTHERN XINJIANG, CHINA
17	16	31	58.7&	49.150	N	6.820	E	1				10	GERMANY. <STR>. ML 2.0 (STR), 2.0 (FBB).
17	16	43	00.6	18.241	S	174.764	W	100	G	4.6	1.1	48	TONGA ISLANDS
17	17	20	22.5*	48.220	N	5.710	E	10	G		1.3	12	FRANCE. ML 2.8 (LDG), 2.4 (STR), 2.3 (FBB).
17	17	41	27.0	45.928	N	14.615	E	10	G		0.2	6	NORTHWESTERN BALKAN REGION. ML 2.0 (VIE).
17	18	03	49.7*	65.287	N	170.894	W	10	G	3.5	0.9	23	EASTERN SIBERIA, RUSSIA
17	18	29	43.6	30.338	N	113.931	W	10	G	4.3	1.1	47	GULF OF CALIFORNIA
17	18	41	17.7*	3.490	S	142.601	E	100	G	4.0	1.2	6	NEAR N COAST OF NEW GUINEA, PNG.
17	18	51	11.7	43.937	N	147.227	E	33	N	4.7	0.8	39	KURIL ISLANDS
17	19	17	37.5&	18.420	N	67.420	W	10				4	MONA PASSAGE. <MPR>. MD 2.7 (MPR).
17	19	28	19.3&	37.515	N	118.790	W	5				11	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.2 (GM).
17	19	45	08.5*	9.655	N	122.643	E	33	N	4.4	0.9	19	NEGROS, PHILIPPINE ISLANDS
17	19	51	12.8&	63.190	N	150.670	W	138				46	CENTRAL ALASKA. <AEIC>.
17	19	59	10.9*	42.033	N	125.716	W	10	G		0.4	9	OFF COAST OF OREGON
17	20	00	47.8	37.576	N	105.490	E	33	N	4.5	1.1	21	WESTERN NEI MONGOL, CHINA. ML 4.8 (BJI).
17	20	27	46.3	40.251	N	32.140	E	10	G	3.6	0.8	27	TURKEY. MD 4.0 (ISK).
17	21	19	01.6&	40.670	N	31.974	E	10	G			9	TURKEY. <ISK>. MD 3.5 (ISK).
17	21	38	36.7	13.462	N	89.217	W	33	N	4.5	0.9	38	EL SALVADOR. ML 4.7 (CASC).
17	22	07	58.9&	36.550	N	2.700	W	0	G			9	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.1 (MDD).
17	22	10	43.7	45.732	N	26.481	E	150		4.4	1.0	30	ROMANIA
17	22	26	11.2	46.221	N	15.148	E	10	G		1.3	15	NORTHWESTERN BALKAN REGION. ML 3.1 (VIE), 2.6 (LJU). Felt (IV) at Prebold, Sempeter and Zalec, Slovenia.
17	23	00	33.0*	47.581	N	15.773	E	10	G		1.1	7	AUSTRIA. ML 2.7 (VIE). Felt (IV) at Spital.
17	23	27	04.5&	32.700	S	72.052	W	39				11	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
18	00	04	55.9?	15.78	S	176.42	W	400	G	3.9	1.2	11	FIJI ISLANDS REGION
18	00	53	05.0?	51.17	N	15.98	E	5	G		1.6	5	POLAND. MG 2.8 (WAR).
18	01	38	51.5&	63.940	N	148.960	W	0		2.7		23	CENTRAL ALASKA. <AEIC>. ML 2.7 (AEIC), 3.0 (PMR).
18	01	50	07.1*	23.227	S	175.620	W	46	D	4.7	0.8	10	TONGA ISLANDS REGION
18	01	50	47.0&	33.007	S	70.134	W	116				13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
18	01	59	00.9	0.034	S	124.313	E	89	D	5.5 5.1	1.2	191	SOUTHERN MOLUCCA SEA. Mw 5.8 (GS), 5.8 (HRV). Felt (III) at Bitung and Manado, Indonesia.

Moment Tensor (GS): Dep 59; Principal axes (scale 10**17 Nm): (T) Val=5.40, Plg=81, Azm=272; (N) Val=1.31, Plg=3, Azm=164; (P) Val=-6.72, Plg=9, Azm=73; Best double couple: Mo=6.1*10**17 Nm; NP1: Strike=160, Dip=36, Slip=85; NP2: Strike=346, Dip=54, Slip=94.

Centroid, Moment Tensor (HRV): Centroid origin time 01:59:08.6; Lat 0.40 N; Lon 124.46 E; Dep 76.3; Half-duration 2.1 sec; Principal axes (scale 10**17 Nm): (T) Val=5.78, Plg=71, Azm=248; (N) Val=0.64, Plg=18, Azm=41; (P) Val=-6.43, Plg=8, Azm=134; Best double couple: Mo=6.1*10**17 Nm; NP1: Strike=243, Dip=40, Slip=118; NP2:

Strike=29, Dip=55, Slip=69.

18	02 27 42.9?	9.38 N	126.16 E	94 ?	4.4		0.9	17	MINDANAO, PHILIPPINE ISLANDS
18	02 30 51.2&	45.800 N	7.300 E	2				13	NORTHERN ITALY. <LDG>. ML 2.2 (LDG).
18	02 42 07.8	35.314 N	30.748 E	33 N			0.8	19	EASTERN MEDITERRANEAN SEA. ML 3.5 (CSS).
18	02 53 50.5	35.320 N	30.619 E	33 N			0.6	21	EASTERN MEDITERRANEAN SEA. ML 3.7 (CSS).
18	02 57 35.4*	51.395 N	157.913 E	107 *	4.0		1.0	10	NEAR EAST COAST OF KAMCHATKA
18	03 10 49.8	38.777 S	177.388 E	40 *	4.9		1.2	33	NORTH ISLAND, NEW ZEALAND. Felt along the east coast of the North Island from East Cape to Napier.
18	03 37 34.5&	33.603 S	71.872 W	24				14	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 4.3 (GUC).
18	04 01 39.0&	39.690 N	118.030 W	12				21	NEVADA. <REN-P>. MD 3.0 (REN).
18	04 03 21.4?	38.59 S	175.38 E	200 G			0.6	10	NORTH ISLAND, NEW ZEALAND
18	04 05 37.0&	39.690 N	118.030 W	11				26	NEVADA. <REN-P>. MD 3.1 (REN).
18	04 16 00.6&	36.020 N	4.600 W	8				14	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.0 (MDD).
18	04 41 44.9*	54.444 N	160.758 W	10 G			0.5	13	ALASKA PENINSULA. ML 3.1 (AEIC).
18	04 46 41.9%	41.238 S	175.291 E	33 N			0.3	9	NORTH ISLAND, NEW ZEALAND. ML 3.0 (WEL).
18	06 49 32.4&	61.020 N	146.480 W	15				41	SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).
18	08 12 30.7&	33.144 S	70.388 W	98				9	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.2 (GUC).
18	09 03 51.2&	34.550 N	4.100 W	0 G				12	MOROCCO. <MDD>. mbLg 2.4 (MDD).
18	09 12 48.2?	31.32 S	69.30 W	100 G			0.9	13	SAN JUAN PROVINCE, ARGENTINA. MD 3.4 (GUC).
18	09 59 47.6&	42.848 N	17.789 E	2				12	ADRIATIC SEA. <PDG>. ML 2.7 (PDG).
18	10 30 08.0&	44.430 N	114.830 W	15				7	WESTERN IDAHO. <BSE-P>. ML 2.8 (BSE).
18	11 06 59.3*	41.544 N	79.019 E	33 N	3.9		1.1	18	KYRGYZSTAN-XINJIANG BORDER REG.
18	11 58 55.5	2.789 S	139.012 E	44 *	4.7	4.4	1.2	32	NEAR NORTH COAST OF IRIAN JAYA
18	11 59 09.2	24.201 S	179.908 E	524	4.2		0.8	24	SOUTH OF FIJI ISLANDS
18	12 02 52.0?	16.52 S	72.57 W	57 ?	4.4		1.4	14	NEAR COAST OF PERU
18	12 03 22.9&	59.970 N	151.540 W	62	2.9			66	KENAI PENINSULA, ALASKA. <AEIC>. ML 3.2 (AEIC), 3.3 (PMR).
18	12 27 31.3*	41.117 N	142.295 E	78 ?	4.5		1.0	22	HOKKAIDO, JAPAN REGION. Felt (I JMA) in eastern Aomori and northern Iwate Prefectures, Honshu. Also felt (I JMA) in parts of southern Hokkaido.
18	12 54 40.3&	39.618 N	29.073 E	13				5	TURKEY. <ISK>. MD 2.7 (ISK).
18	13 21 02.2	2.984 N	126.416 E	33 N	5.1	4.4	1.0	74	NORTHERN MOLUCCA SEA. Mw 5.4 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 13:21:09.5; Lat 3.33 N; Lon 126.84 E; Dep 48.4; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.35, Plg=70, Azm=302; (N) Val=0.26, Plg=7, Azm=191; (P) Val=-1.62, Plg=18, Azm=99; Best double couple: Mo=1.5*10**17 Nm; NP1: Strike=177, Dip=28, Slip=74; NP2: Strike=15, Dip=64, Slip=98.
18	13 26 35.9	40.619 N	36.690 E	10 G			1.0	7	TURKEY. MD 3.8 (ISK).
18	14 03 00.0&	40.320 N	124.470 W	19				6	NEAR COAST OF NORTHERN CALIF. <GM-P>. MD 2.9 (GM).
18	14 40 14.8*	13.685 S	117.962 E	33 N	4.4		0.9	14	NORTHWEST OF AUSTRALIA
18	14 51 25.3%	31.457 S	117.687 E	10 G			0.6	5	WESTERN AUSTRALIA
18	15 12 39.0&	39.690 N	118.030 W	11				16	NEVADA. <REN-P>. MD 3.3 (REN).
18	15 15 16.1*	37.408 N	20.619 E	42 D	3.9		1.1	16	IONIAN SEA. MD 3.8 (ATH).
18	15 25 51.0*	21.587 N	143.239 E	337 ?	3.8		0.8	19	MARIANA ISLANDS REGION
18	15 56 22.7	51.965 N	178.372 E	33 N	4.5		1.0	45	RAT ISLANDS, ALEUTIAN ISLANDS. ML 4.3 (PMR).
18	15 58 20.8&	60.250 N	152.200 W	86				66	SOUTHERN ALASKA. <AEIC>.
18	16 18 36.3?	2.82 S	139.29 E	33 N	4.1		1.2	6	NEAR NORTH COAST OF IRIAN JAYA
18	16 23 06.1&	39.030 N	20.240 E	5				5	GREECE-ALBANIA BORDER REGION. <ATH>. MD 2.9 (ATH).
18	16 49 57.4*	34.091 N	86.790 E	33 N	3.8		1.1	13	XIZANG
18	17 08 15.8	2.895 S	139.350 E	47 *	4.3		0.9	20	NEAR NORTH COAST OF IRIAN JAYA
18	17 16 13.0&	36.340 N	4.370 W	9				8	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.0 (MDD).
18	17 55 43.2	41.097 N	142.971 E	41 D	5.9	5.6	0.8	420	HOKKAIDO, JAPAN REGION. Mw 5.9 (GS), 5.9 (HRV). Me 6.0 (GS). Felt (III JMA) in eastern Aomori and northern Iwate; (II JMA) in northern Miyagi Prefectures, Honshu. Also felt (II JMA) in parts of southern Hokkaido. Broadband Source Parameters (GS): Dep 24; NP1: Strike=33, Dip=85, Slip=91; NP2: Strike=202, Dip=5, Slip=79; Radiated energy 2.1*10**13 Nm. Moment Tensor (GS): Dep 26; Principal axes (scale 10**17 Nm): (T) Val=7.52, Plg=54, Azm=297; (N) Val=-1.44, Plg=1, Azm=29; (P) Val=-6.09, Plg=36, Azm=119; Best double couple: Mo=6.8*10**17 Nm; NP1: Strike=215, Dip=9, Slip=96; NP2: Strike=28, Dip=81, Slip=89. Centroid, Moment Tensor (HRV): Centroid origin time 17:55:45.0; Lat 41.02 N; Lon 143.41 E; Dep 26.7 Fix; Half-duration 2.2 sec; Principal axes (scale 10**17 Nm): (T) Val=8.45, Plg=61, Azm=304; (N) Val=0.75, Plg=2, Azm=209; (P) Val=-9.20, Plg=29, Azm=118; Best double couple: Mo=8.8*10**17 Nm; NP1: Strike=202, Dip=16, Slip=82; NP2: Strike=30, Dip=74, Slip=92.
18	18 14 01.5&	62.010 N	151.090 W	66				61	CENTRAL ALASKA. <AEIC>. ML 3.0 (AEIC), 3.0 (PMR).
18	18 40 53.9&	39.627 N	29.025 E	10				4	TURKEY. <ISK>. MD 2.7 (ISK).
18	19 09 10.8&	40.022 N	29.427 E	12				6	TURKEY. <ISK>. MD 2.8 (ISK).
18	19 19 18.6&	35.068 S	71.147 W	93				9	CENTRAL CHILE. <GUC>.
18	19 35 44.1&	59.980 N	152.660 W	101				42	SOUTHERN ALASKA. <AEIC>.
18	19 40 31.1&	34.295 N	32.094 E	15				4	CYPRUS REGION. <CSS>. ML 2.7 (CSS).
18	20 25 34.2*	8.821 S	112.247 E	99 ?	4.3		1.3	15	JAWA, INDONESIA
18	20 26 38.8?	16.65 N	99.13 W	10 G			0.5	6	NEAR COAST OF GUERRERO, MEXICO. MD 3.7 (UNM).
18	20 39 47.6&	9.737 N	62.497 W	102				4	NEAR COAST OF VENEZUELA. <TRN>. MD 3.2 (TRN).
18	20 43 04.7&	42.925 N	17.730 E	2				16	ADRIATIC SEA. <PDG>. ML 3.3 (VIE), 3.2 (PDG).
18	21 18 49.1&	59.860 N	152.200 W	87				72	SOUTHERN ALASKA. <AEIC>.
18	21 31 03.9?	22.00 S	178.33 E	600 G	4.3		1.1	10	SOUTH OF FIJI ISLANDS
18	21 47 45.7&	44.466 N	7.159 E	16				4	NORTHERN ITALY. <GEN>. ML 1.5 (GEN).
18	21 49 17.1	12.040 S	75.700 W	116 D	5.1		0.9	126	CENTRAL PERU. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 21:49:26.6; Lat 11.99 S; Lon 75.89 W; Dep 104.3; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.12, Plg=8, Azm=275; (N) Val=-0.33, Plg=30, Azm=180; (P) Val=-0.80, Plg=59, Azm=19; Best double couple: Mo=1.0*10**17 Nm; NP1: Strike=35, Dip=45, Slip=-46; NP2: Strike=161, Dip=60, Slip=-125.
18	21 57 55.3*	5.464 S	129.145 E	256 ?			1.0	10	BANDA SEA

18	22	01	33.2&	19.319	N	155.216	W	7				32	HAWAII. <HVO-P>. MD 4.0 (HVO). Felt at Hilo and Mauna Loa Estates.
18	22	41	49.5&	33.871	S	72.086	W	11				13	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).
18	22	52	27.7&	19.320	N	155.215	W	9		3.9		28	HAWAII. <HVO-P>. MD 4.0 (HVO). Felt at Hawaiian Volcano Observatory, Hilo, Papaikou, Volcano and in the Puna District.
18	23	13	14.7&	44.576	N	7.143	E	11				18	NORTHERN ITALY. <GEN>. ML 2.3 (GEN), 1.7 (LDG).
18	23	29	55.9&	38.817	N	122.810	W	4				9	NORTHERN CALIFORNIA. <GM-P>. MD 2.9 (GM).
18	23	37	48.7&	35.942	N	120.489	W	11				10	CENTRAL CALIFORNIA. <GM-P>. MD 3.4 (GM). ML 3.5 (PAS).
18	23	46	20.0&	37.380	N	20.630	E	5				7	IONIAN SEA. <ATH>. MD 3.3 (ATH).
18	23	51	57.0&	37.330	N	20.520	E	5				6	IONIAN SEA. <ATH>. MD 3.3 (ATH).
18	23	54	12.6	9.996	N	73.523	W	94	D	4.9	0.9	159	NORTHERN COLOMBIA. Mw 5.2 (HRV). Felt in the epicentral area. Also felt at Barranquilla and Cartagena. Centroid, Moment Tensor (HRV): Centroid origin time 23:54:12.5; Lat 9.70 N; Lon 73.85 W; Dep 61.4; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=7.16, Plg=32, Azm=146; (N) Val=-1.26, Plg=55, Azm=297; (P) Val=-5.90, Plg=14, Azm=47; Best double couple: Mo=6.5*10**16 Nm; NP1: Strike=182, Dip=57, Slip=166; NP2: Strike=280, Dip=78, Slip=34.
18	23	57	20.7	7.891	S	122.699	E	182	*	5.1	0.8	48	FLORES SEA
19	00	05	00.6*	5.881	S	130.716	E	47	?	4.7	1.2	19	BANDA SEA
19	00	39	49.6?	14.90	S	167.38	E	158	?	4.7	1.1	20	VANUATU ISLANDS
19	01	07	48.8&	53.490	N	165.330	W	24		4.4		41	FOX ISLANDS, ALEUTIAN ISLANDS. <AEIC>. ML 4.3 (AEIC).
19	01	51	19.0&	34.891	S	70.975	W	100				8	CHILE-ARGENTINA BORDER REGION. <GUC>.
19	02	55	45.5*	22.819	S	170.656	E	32	D	4.4	1.1	16	LOYALTY ISLANDS REGION
19	03	04	56.6&	39.602	N	27.630	E	5				6	TURKEY. <ISK>. MD 2.9 (ISK).
19	03	25	37.6	51.953	N	178.451	E	33	N	4.5	1.0	47	RAT ISLANDS, ALEUTIAN ISLANDS. ML 4.2 (PMR).
19	03	29	42.5*	52.038	N	178.356	E	33	N	4.4	1.3	27	RAT ISLANDS, ALEUTIAN ISLANDS. ML 4.0 (PMR).
19	03	36	03.6	39.508	N	29.976	W	10	G	4.5	1.0	29	AZORES ISLANDS. Felt (II) on Faial.
19	04	39	02.0&	48.220	N	7.280	E	10				13	FRANCE. <FBB>. ML 2.2 (LDG), 1.9 (FBB).
19	05	17	49.3*	5.213	N	121.896	E	33	N	4.3	0.9	17	CELEBES SEA
19	05	37	50.0&	37.250	N	20.620	E	5				4	IONIAN SEA. <ATH>. MD 3.2 (ATH).
19	05	53	40.6	27.748	N	85.609	E	33	N	4.5	1.1	27	NEPAL
19	06	16	37.3&	15.929	N	98.576	W	16				11	OFF COAST OF GUERRERO, MEXICO. <UNM>. MD 3.9 (UNM).
19	06	38	50.2	13.224	N	87.692	W	191	D	4.9	1.0	82	HONDURAS. MD 4.6 (CASC).
19	07	08	54.9&	39.196	N	27.927	E	7				5	TURKEY. <ISK>. MD 2.8 (ISK).
19	07	40	54.7*	85.543	N	85.340	E	10	G	4.2	1.2	13	NORTH OF SEVERNAYA ZEMLYA
19	07	55	52.5*	45.351	N	140.129	E	33	N	4.0	1.3	18	EASTERN SEA OF JAPAN
19	08	00	34.7	85.705	N	85.391	E	10	G	4.6 4.7	1.0	43	NORTH OF SEVERNAYA ZEMLYA. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 08:00:35.6; Lat 85.21 N; Lon 84.52 E; Dep 15.0 Fix; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=5.73, Plg=29, Azm=37; (N) Val=0.80, Plg=1, Azm=127; (P) Val=-6.53, Plg=61, Azm=219; Best double couple: Mo=6.1*10**16 Nm; NP1: Strike=124, Dip=16, Slip=-93; NP2: Strike=308, Dip=74, Slip=-89.
19	08	00	48.1*	9.731	S	112.689	E	33	N	3.8	1.3	7	SOUTH OF JAWA, INDONESIA
19	08	11	27.6&	39.948	N	32.082	E	8				6	TURKEY. <ISK>. MD 3.4 (ISK).
19	08	22	36.5*	5.294	S	146.969	E	219		4.4	1.1	12	EASTERN NEW GUINEA REG., P.N.G.
19	08	24	11.7*	41.298	N	114.483	E	10	G		0.8	6	NORTHEASTERN CHINA. ML 3.8 (BJI).
19	09	00	46.9*	82.069	N	0.083	E	10	G	3.5	1.5	7	NORTH OF SVALBARD
19	10	33	00.9	36.241	N	141.054	E	45	D	4.0	0.8	15	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) in southeastern Fukushima and much of Ibaraki Prefectures.
19	11	21	05.7&	34.149	S	71.326	W	62				11	NEAR COAST OF CENTRAL CHILE. <GUC>.
19	12	03	08.1&	33.749	S	70.881	W	72				8	CHILE-ARGENTINA BORDER REGION. <GUC>.
19	12	35	06.5	6.895	S	147.024	E	115	D	4.6	0.7	35	EASTERN NEW GUINEA REG., P.N.G.
19	12	37	37.9&	36.320	N	4.880	W	87				4	STRAIT OF GIBRALTAR. <MDD>.
19	12	54	29.0?	31.24	S	68.63	W	100	G		1.3	11	SAN JUAN PROVINCE, ARGENTINA
19	13	28	26.5*	45.426	N	16.194	E	10	G		0.5	12	NORTHWESTERN BALKAN REGION. ML 3.4 (ZAG), 3.3 (VIE), 2.8 (LJU).
19	13	31	14.0&	37.350	N	4.930	W	15				11	SPAIN. <MDD>. mbLg 2.0 (MDD).
19	13	49	25.4*	7.178	S	146.037	E	158	D	4.1	1.1	15	EASTERN NEW GUINEA REG., P.N.G.
19	13	55	03.6&	16.064	N	97.703	W	10				6	OAXACA, MEXICO. <UNM>. MD 3.7 (UNM).
19	15	24	51.2&	36.800	N	21.680	E	36				14	SOUTHERN GREECE. <ATH>. MD 3.5 (ATH).
19	15	26	48.9&	32.639	S	71.614	W	29				10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
19	15	30	54.9?	28.55	N	56.99	E	33	N	4.0	1.1	9	SOUTHERN IRAN
19	16	20	42.2&	33.153	S	70.291	W	4				8	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
19	16	26	31.7?	4.45	S	102.40	E	33	N	4.5	1.1	17	SOUTHERN SUMATERA, INDONESIA
19	18	09	12.5&	43.850	N	7.371	E	8				9	NEAR SOUTH COAST OF FRANCE. <GEN>. ML 2.1 (GEN).
19	18	14	03.8*	25.389	N	124.320	E	173	?	4.1	0.9	12	NORTHEAST OF TAIWAN
19	18	28	59.0&	33.758	S	70.394	W	9				12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.1 (GUC).
19	18	33	23.7&	62.010	N	147.820	W	36				50	CENTRAL ALASKA. <AEIC>. ML 2.8 (AEIC).
19	18	37	06.2&	33.743	S	70.387	W	9				10	CHILE-ARGENTINA BORDER REGION. <GUC>.
19	18	48	00.7*	7.335	S	107.053	E	68	?	4.6	1.0	38	JAWA, INDONESIA
19	19	09	12.8&	39.508	N	29.119	E	6				5	TURKEY. <ISK>. MD 2.8 (ISK).
19	19	11	39.5&	46.600	N	1.200	E	4				5	FRANCE. <LDG>. ML 1.7 (LDG).
19	19	17	22.4*	37.490	N	20.913	E	10	G		1.5	8	IONIAN SEA. ML 3.7 (ATH).
19	20	02	48.5&	19.200	N	98.604	W	0				15	CENTRAL MEXICO. <UNM>. MD 3.4 (UNM).
19	20	05	40.3&	54.310	N	162.650	W	20				25	ALASKA PENINSULA. <AEIC>. ML 3.3 (AEIC).
19	21	52	23.0	47.493	N	12.635	E	10	G		0.8	10	AUSTRIA. ML 2.6 (VIE), 2.2 (FUR).
19	22	34	59.7&	16.633	N	99.559	W	5				11	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.7 (UNM).
19	22	51	31.7*	37.525	N	72.266	E	200	G	4.1	0.7	7	TAJIKISTAN
19	22	54	34.0*	34.651	N	141.535	E	66	?	4.4	1.0	18	OFF EAST COAST OF HONSHU, JAPAN
19	23	48	10.3&	44.351	N	7.275	E	10				5	NORTHERN ITALY. <GEN>. ML 1.8 (GEN).
20	00	08	47.5	29.430	N	128.705	E	10	G	4.2	0.9	17	NORTHWEST OF RYUKYU ISLANDS
20	00	20	08.9&	39.485	N	122.962	W	15				16	NORTHERN CALIFORNIA. <GM-P>. MD 3.5 (GM). ML 3.4 (BRK).
20	00	23	56.3	39.712	N	106.755	E	33	N	4.0	0.7	13	WESTERN NEI MONGOL, CHINA. ML 4.[illegible] (BJI).
20	00	29	05.0&	40.180	N	19.660	E	10				16	ALBANIA. <ATH>. MD 3.4 (ATH). ML 3.4 (PDG).
20	01	04	05.6	53.053	N	169.132	W	82	*	4.6	1.0	51	FOX ISLANDS, ALEUTIAN ISLANDS
20	01	21	10.2?	6.91	S	105.58	E	99	?	4.4	1.2	13	SUNDA STRAIT
20	02	30	05.3&	46.200	N	3.100	E	13				10	FRANCE. <LDG>. ML 1.5 (STR), 1.3 (LDG).
20	03	02	10.0&	47.700	N	2.800	W	2				28	FRANCE. <LDG>. ML 3.2 (STR), 3.0 (LDG).

20	03	16	30.2*	38.664	N	14.005	E	10	G	3.6		0.8	12	SICILY
20	04	18	01.7&	34.316	N	32.175	E	25					6	CYPRUS REGION. <CSS>. ML 3.3 (CSS).
20	04	53	44.9&	35.600	N	3.350	W	0	G				9	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.3 (MDD).
20	05	17	14.7	37.423	N	20.737	E	10	G	4.2		1.1	39	IONIAN SEA. ML 4.0 (ATH), 4.0 (PDG).
20	05	23	21.6	28.046	N	142.490	E	33	N	4.6		1.1	43	BONIN ISLANDS REGION
20	05	25	18.2&	37.320	N	20.730	E	5					5	IONIAN SEA. <ATH>. MD 3.3 (ATH).
20	06	37	51.7&	47.960	N	8.200	E	2	G				9	SWITZERLAND. <STR>. ML 1.8 (LDG), 1.6 (STR), 1.4 (FBB).
20	07	32	30.3&	47.700	N	2.800	W	4					8	FRANCE. <LDG>. ML 1.9 (LDG).
20	08	18	50.3&	38.535	N	29.358	E	10	G				4	TURKEY. <ISK>. MD 3.3 (ISK).
20	09	08	29.0&	37.310	N	20.690	E	5					6	IONIAN SEA. <ATH>. MD 3.5 (ATH).
20	09	25	46.4*	45.682	N	14.189	E	10	G			0.6	7	NORTHWESTERN BALKAN REGION. ML 2.8 (VIE).
20	10	00	29.5&	35.242	S	71.367	W	111					11	CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
20	10	44	52.9	85.685	N	83.644	E	10	G	4.4		0.9	15	NORTH OF SEVERNAYA ZEMLYA
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 6.9 (HRV), 6.8 (GS). Me 7.0 (GS). Felt strongly on Adak and Amchitka. This may be a delayed aftershock of the June 10, 1996 magnitude 7.9 event. Broadband Source Parameters (GS): Dep 33; NP1: Strike=70, Dip=65, Slip=80; NP2: Strike=273, Dip=27, Slip=110; Radiated energy 8.3*10**14 Nm. Moment Tensor (GS): Dep 33; Principal axes (scale 10**19 Nm): (T) Val=1.43, Plg=71, Azm=298; (N) Val=0.06, Plg=10, Azm=60; (P) Val=-1.49, Plg=16, Azm=153; Best double couple: Mo=1.5*10**19 Nm; NP1: Strike=257, Dip=31, Slip=110; NP2: Strike=54, Dip=61, Slip=78. Centroid, Moment Tensor (HRV): Centroid origin time 10:47:52.7; Lat 51.67 N; Lon 177.30 W; Dep 43.0 Bdy; Half-duration 8.7 sec; Principal axes (scale 10**19 Nm): (T) Val=2.68, Plg=69, Azm=304; (N) Val=0.09, Plg=13, Azm=69; (P) Val=-2.77, Plg=17, Azm=163; Best double couple: Mo=2.7*10**19 Nm; NP1: Strike=272, Dip=30, Slip=116; NP2: Strike=62, Dip=63, Slip=76. Scalar Moment (PPT): Mo=2.8*10**19 Nm.
20	11	45	15.0&	45.136	N	7.364	E	10					15	NORTHERN ITALY. <GEN>. ML 2.4 (GEN).
20	11	59	27.7&	42.586	N	20.186	E	0					8	NORTHWESTERN BALKAN REGION. <PDG>. ML 2.1 (PDG).
20	12	02	09.6*	44.744	S	79.404	W	10	G	4.9		0.6	10	OFF COAST OF SOUTHERN CHILE
20	12	04	46.1&	34.918	S	71.864	W	38					12	NEAR COAST OF CENTRAL CHILE. <GUC>.
20	13	29	35.2&	53.270	N	164.310	W	0					26	UNIMAK ISLAND REGION. <AEIC>. ML 3.7 (AEIC).
20	13	48	12.9?	45.76	N	26.74	E	150	G			0.5	6	ROMANIA
20	15	59	19.6&	60.170	N	151.220	W	41					65	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.9 (AEIC).
20	16	04	20.1&	33.535	S	70.797	W	72					10	CHILE-ARGENTINA BORDER REGION. <GUC>.
20	16	21	04.1	36.863	N	69.979	E	33	N	5.0	4.3	1.0	92	HINDU KUSH REGION, AFGHANISTAN
20	16	59	15.7&	61.420	N	146.940	W	19					35	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).
20	17	19	33.6	42.601	N	17.593	E	10	G			1.1	26	ADRIATIC SEA. ML 3.0 (PDG), 2.9 (LJU).
20	17	21	28.2*	30.470	S	179.592	W	300	G	3.3		1.2	12	KERMADEC ISLANDS REGION
20	17	49	45.5?	43.17	N	47.05	E	33	N	3.8		0.9	8	EASTERN CAUCASUS
20	17	52	12.1&	40.850	N	20.700	E	15					5	GREECE-ALBANIA BORDER REGION. <ATH>. MD 3.1 (ATH).
20	18	09	38.7*	51.902	N	178.443	E	33	N	4.2		1.4	16	RAT ISLANDS, ALEUTIAN ISLANDS. ML 3.7 (PMR).
20	18	31	04.2&	35.690	N	3.500	W	2					15	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.6 (MDD).
20	19	27	36.7?	23.16	N	121.97	E	33	N	3.5		1.1	8	TAIWAN
20	19	29	43.8*	5.194	N	125.715	E	73	D	3.9		1.0	14	MINDANAO, PHILIPPINE ISLANDS
20	19	31	00.9&	62.580	N	151.360	W	85					46	CENTRAL ALASKA. <AEIC>.
20	19	40	01.3&	42.569	N	20.197	E	1					9	NORTHWESTERN BALKAN REGION. <PDG>. ML 2.0 (PDG).
20	19	47	18.3&	35.780	N	3.670	W	0	G				15	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.6 (MDD).
20	19	56	38.9*	44.843	N	28.113	W	10	G	4.5		1.2	11	NORTHERN MID-ATLANTIC RIDGE
20	20	05	27.5&	18.540	N	67.400	W	3					5	MONA PASSAGE. <MPR>. MD 2.8 (MPR).
20	20	22	36.0&	38.680	N	1.580	W	0	G				12	SPAIN. <MDD>. mbLg 2.2 (MDD).
20	21	20	59.9*	42.975	N	3.223	W	5	G			1.4	10	SPAIN. ML 2.3 (LDG). mbLg 1.9 (MDD).
20	22	11	09.2&	32.393	S	71.358	W	37					8	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
20	23	11	05.7&	34.110	S	70.128	W	4					11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
20	23	40	57.4&	34.117	S	70.116	W	5					11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
20	23	56	28.9&	43.337	N	17.455	E	2					16	NORTHWESTERN BALKAN REGION. <PDG>. ML 3.0 (PDG).
21	00	32	43.3*	51.550	N	16.293	E	5	G			0.3	6	POLAND. ML 3.2 (GRF).
21	01	42	54.1&	37.170	N	21.050	E	5					7	SOUTHERN GREECE. <ATH>. ML 3.6 (ATH).
21	01	44	22.4*	36.948	N	69.890	E	33	N	4.0		1.2	15	HINDU KUSH REGION, AFGHANISTAN
21	01	48	35.8&	32.002	S	71.289	W	45					10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
21	02	46	52.6&	34.682	S	72.545	W	19					10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
21	02	55	44.8&	35.540	N	3.360	W	0	G				15	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.2 (MDD).
21	03	26	53.1*	6.514	S	130.668	E	33	N			0.7	5	BANDA SEA
21	03	32	16.6	46.067	N	14.772	E	10	G			0.2	7	NORTHWESTERN BALKAN REGION. ML 1.6 (VIE), 1.1 (LJU).
21	04	07	42.1	46.327	N	13.302	E	10	G			0.9	73	AUSTRIA. ML 3.9 (GRF), 3.6 (VIE), 3.5 (FUR), 3.3 (FBB), 3.3 (LDG).
21	04	29	52.4	33.108	N	13.231	W	10	G			0.7	22	MADEIRA ISLANDS REGION. mbLg 3.1 (MDD).
21	05	15	14.0?	55.82	S	27.84	W	100	G	4.1		0.8	12	SOUTH SANDWICH ISLANDS REGION
21	05	18	23.4*	40.152	N	52.978	E	33	N	4.2		1.1	21	TURKMENISTAN
21	05	46	23.0&	47.500	N	3.000	W	11					18	FRANCE. <LDG>. ML 2.8 (LDG).
21	06	00	11.2	46.052	N	14.783	E	10	G			0.2	6	NORTHWESTERN BALKAN REGION. ML 2.2 (VIE).
21	08	14	47.4&	39.148	S	174.673	E	200	G			0.8	13	NORTH ISLAND, NEW ZEALAND
21	09	02	48.1*	25.055	S	179.801	E	600	G	4.6		0.9	19	SOUTH OF FIJI ISLANDS
21	09	16	19.9*	52.583	N	167.732	W	33	N	3.5		0.8	11	FOX ISLANDS, ALEUTIAN ISLANDS
21	09	27	46.4?	31.23	S	68.64	W	100	G			0.9	13	SAN JUAN PROVINCE, ARGENTINA. MD 3.4 (GUC).
21	09	31	36.2&	35.440	N	3.170	W	0	G				11	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.4 (MDD).
21	09	35	28.2	5.584	N	126.715	E	96	*	5.0		1.2	54	MINDANAO, PHILIPPINE ISLANDS
21	09	38	00.5	64.223	N	150.148	W	10	G			0.6	6	CENTRAL ALASKA. ML 2.9 (PMR).
21	10	11	52.1&	31.784	S	71.887	W	23					12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
21	10	17	53.6	40.175	N	142.285	E	47	D	4.7	3.9	1.2	56	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) in southeastern Aomori, northeastern Miyagi and parts of Iwate Prefectures.
21	10	32	00.1?	26.04	N	109.59	W	10	G	2.9		0.8	6	GULF OF CALIFORNIA
21	11	52	52.4*	15.890	S	173.234	W	33	N	4.5		1.0	13	TONGA ISLANDS
21	12	03	37.0	[illegible]	N	61.915	W	84	D	4.3		1.1	41	WINDWARD ISLANDS. MD 4.2 (TRN).
21	12	21	56.9	[illegible]	N	20.470	E	5	G	3.6		1.4	28	IONIAN SEA. ML 4.0 (ATH).
21	12	30	21.9&	37.350	N	20.720	E	5					5	IONIAN SEA. <ATH>. MD 3.3 (ATH).
21	12	39	51.5?	5.57	N	126.19	E	33	N	4.2		1.4	11	MINDANAO, PHILIPPINE ISLANDS

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21  12 59 48.6? 11.68  N   87.30  W   33 N  4.2       1.4   11  NEAR COAST OF NICARAGUA
21  13 05 49.5  63.182 N  151.513 W   33 N            0.9    7  CENTRAL ALASKA. ML 2.8 (PMR).
21  13 32 32.9  45.407 N  149.954 E   33 N  4.6       1.0   53  KURIL ISLANDS
21  13 53 33.0& 35.688 N  118.451 W    4                     25  CENTRAL CALIFORNIA. <PAS-P>. ML 3.1 (PAS).
21  14 20 54.7   5.649 N  126.641 E   33 N  5.1 4.9    1.0   82  MINDANAO, PHILIPPINE ISLANDS. Mw 5.5 (HRV).
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  14:20:58.0; Lat 5.59 N; Lon 126.38 E; Dep 21.1; Half-
                                                                  duration 1.2 sec; Principal axes (scale 10**17 Nm): (T)
                                                                  Val=1.76, Plg=10, Azm=228; (N) Val=0.20, Plg=72, Azm=105;
                                                                  (P) Val=-1.96, Plg=15, Azm=320; Best double couple:
                                                                  Mo=1.9*10**17 Nm; NP1: Strike=3, Dip=72, Slip=-4; NP2:
                                                                  Strike=95, Dip=87, Slip=-162.
21  14 39 52.7& 33.226 S   72.017 W   15                      13  OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
21  15 08 57.3& 40.460 N    3.000 W    0 G                     5  SPAIN. <MDD>. mbLg 2.3 (MDD).
21  15 13 37.1  42.618 N    2.155 E    5 G            1.2   46  PYRENEES. ML 3.3 (STR), 3.2 (LDG). mbLg 2.8 (MDD).
21  15 24 07.8  85.634 N   86.819 E   10 G  5.4 5.1    0.9  145  NORTH OF SEVERNAYA ZEMLYA. Mw 5.3 (HRV).
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  15:24:05.4; Lat 85.64 N; Lon 83.74 E; Dep 15.0 Fix; Half-
                                                                  duration 1.0 sec; Principal axes (scale 10**17 Nm): (T)
                                                                  Val=0.89, Plg=26, Azm=38; (N) Val=0.27, Plg=7, Azm=132; (P)
                                                                  Val=-1.16, Plg=63, Azm=235; Best double couple:
                                                                  Mo=1.0*10**17 Nm; NP1: Strike=112, Dip=20, Slip=-111; NP2:
                                                                  Strike=314, Dip=72, Slip=-83.
21  15 26 49.2& 40.410 N    2.950 W    0 G                     7  SPAIN. <MDD>. mbLg 2.2 (MDD).
21  15 30 55.9& 40.450 N    2.920 W    0                      13  SPAIN. <MDD>. mbLg 2.8 (MDD).
21  15 44 11.5& 34.454 S   70.599 W  111                      13  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.2 (GUC).
21  15 46 39.1& 37.310 N   20.700 E    5                      8  IONIAN SEA. <ATH>. ML 3.6 (ATH).
21  15 53 18.8& 40.400 N    2.910 W   13                      5  SPAIN. <MDD>. mbLg 1.8 (MDD).
21  15 53 50.6& 40.430 N    2.910 W    0                      5  SPAIN. <MDD>. mbLg 1.8 (MDD).
21  16 00 48.7* 39.314 S   78.444 E   10 G  4.8 4.8    1.2   22  MID-INDIAN RIDGE
21  16 04 09.0& 44.410 N  114.880 W   15 G                   13  WESTERN IDAHO. <BSE-P>. ML 3.0 (BSE), 3.2 (BUT).
21  16 13 21.3& 37.350 N   20.700 E    5                      4  IONIAN SEA. <ATH>. MD 3.2 (ATH).
21  16 13 45.5*  7.005 S  129.589 E  158 ?  3.7       1.2   11  BANDA SEA
21  16 16 02.2  55.896 N  110.214 E   10 G  5.5 5.7    0.9  311  LAKE BAYKAL REGION, RUSSIA. Mw 6.0 (OBN), 5.9 (HRV), 5.7
                                                                  (GS). Felt (VI) at Kichera, Severobaykalsk and Verkhnyaya
                                                                  Zaimka; (V) at Nizhneangarsk; (IV) at Uoyan; (III) at
                                                                  Irkutsk and Ust-Kut; (II) at Bodaybo, Kumora, Slyudyanka,
                                                                  Taloye, Tyrgana and Yelantsy.
                                                                 Moment Tensor (GS): Dep 6; Principal axes (scale 10**17 Nm):
                                                                  (T) Val=4.45, Plg=23, Azm=184; (N) Val=0.34, Plg=4, Azm=93;
                                                                  (P) Val=-4.79, Plg=67, Azm=354; Best double couple:
                                                                  Mo=4.6*10**17 Nm; NP1: Strike=282, Dip=22, Slip=-80; NP2:
                                                                  Strike=91, Dip=68, Slip=-94.
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  16:16:06.4; Lat 55.82 N Fix; Lon 110.52 E Fix; Dep 15.0
                                                                  Bdy; Half-duration 2.1 sec; Principal axes (scale 10**17
                                                                  Nm): (T) Val=7.58, Plg=16, Azm=310; (N) Val=1.85, Plg=8,
                                                                  Azm=43; (P) Val=-9.43, Plg=71, Azm=159; Best double couple:
                                                                  Mo=8.5*10**17 Nm; NP1: Strike=27, Dip=29, Slip=-107; NP2:
                                                                  Strike=227, Dip=62, Slip=-80.
                                                                 Moment Tensor (OBN); Principal axes: (T) Plg=8, Azm=151; (N)
                                                                  Plg=53, Azm=252; (P) Plg=36, Azm=56; Best double couple:
                                                                  Mo=1.2*10**18 Nm; NP1: Strike=200, Dip=59, Slip=-158; NP2:
                                                                  Strike=98, Dip=71, Slip=-33.
21  16 17 03.6  55.942 N  110.272 E   10 G  5.5       0.8  131  LAKE BAYKAL REGION, RUSSIA. Mw 5.9 (HRV), 5.6 (GS).
                                                                 Moment Tensor (GS): Dep 9; Principal axes (scale 10**17 Nm):
                                                                  (T) Val=3.21, Plg=11, Azm=129; (N) Val=-0.15, Plg=11,
                                                                  Azm=222; (P) Val=-3.07, Plg=74, Azm=355; Best double
                                                                  couple: Mo=3.1*10**17 Nm; NP1: Strike=206, Dip=35,
                                                                  Slip=-109; NP2: Strike=49, Dip=57, Slip=-77.
                                                                 Centroid, Moment Tensor (HRV): Centroid origin time
                                                                  16:17:05.3; Lat 56.11 N; Lon 110.56 E; Dep 15.0 Bdy; Half-
                                                                  duration 2.2 sec; Principal axes (scale 10**17 Nm): (T)
                                                                  Val=8.26, Plg=2, Azm=137; (N) Val=0.29, Plg=3, Azm=227; (P)
                                                                  Val=-8.55, Plg=87, Azm=20; Best double couple:
                                                                  Mo=8.4*10**17 Nm; NP1: Strike=223, Dip=44, Slip=-94; NP2:
                                                                  Strike=50, Dip=47, Slip=-86.
21  16 42 38.1  55.889 N  110.251 E   10 G  4.0       1.0   22  LAKE BAYKAL REGION, RUSSIA
21  16 52 31.0   2.521 S  139.943 E   33 N  5.2 4.9    1.3   58  NEAR NORTH COAST OF IRIAN JAYA. Felt (III) at Jayapura.
21  16 53 38.2  55.857 N  110.427 E   10 G  4.4       1.2   17  LAKE BAYKAL REGION, RUSSIA
21  16 57 53.9  52.261 N  159.641 E   60 D  4.3       0.7   27  OFF EAST COAST OF KAMCHATKA
21  17 05 47.2* 55.767 N  110.424 E   10 G  4.2       1.4   11  LAKE BAYKAL REGION, RUSSIA
21  17 20 24.7  36.276 N   71.431 E  113 ?  4.1       1.1   15  AFGHANISTAN-TAJIKISTAN BORD REG.
21  17 35 34.2  55.699 N  110.277 E   10 G  4.0       1.0   16  LAKE BAYKAL REGION, RUSSIA
21  17 38 20.6*  9.444 S  113.767 E   33 N  4.3       1.3   20  SOUTH OF JAWA, INDONESIA
21  17 47 24.0& 15.847 N   99.413 W   17                      7  OFF COAST OF GUERRERO, MEXICO. <UNM>. MD 3.6 (UNM).
21  18 09 01.3? 51.37  N  177.36  W   33 N            0.9    5  ANDREANOF ISLANDS, ALEUTIAN IS.
21  18 15 32.5* 55.844 N  110.357 E   10 G  4.0       1.3   16  LAKE BAYKAL REGION, RUSSIA
21  18 22 21.2& 33.493 S   70.943 W   66                     13  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.2 (GUC).
21  18 27 18.8& 33.520 S   71.923 W   15                     13  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
21  18 28 59.0  19.338 N   64.948 W   50 D  4.3       1.0   43  VIRGIN ISLANDS. MD 4.5 (MPR).
21  18 43 53.6* 55.880 N  110.628 E   10 G            1.1    5  LAKE BAYKAL REGION, RUSSIA
21  18 48 12.5* 55.868 N  110.151 E   10 G  4.3       1.2   17  LAKE BAYKAL REGION, RUSSIA
21  18 50 13.8& 43.000 N    0.100 W    2                     10  PYRENEES. <LDG>. ML 2.4 (LDG), 2.3 (STR). Felt (III) in the
                                                                  Bigorre region, France.
21  19 01 02.1& 36.800 N    3.040 W    0 G                    14  STRAIT OF GIBRALTAR. <MDD>. mbLg 2.5 (MDD).
21  19 40 16.8  55.820 N  110.267 E   10 G  4.2       1.1   18  LAKE BAYKAL REGION, RUSSIA
21  20 25 19.7& 33.243 S   70.285 W  126                     13  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
21  20 29 36.1* 55.764 N  110.375 E   10 G  4.0       1.4   11  LAKE BAYKAL REGION, RUSSIA
21  20 32 47.6& 45.200 N    3.300 E    2                      9  FRANCE. <LDG>. ML 1.9 (LDG).
21  20 35 16.5& 34.661 S   72.565 W   19                     10  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
21  20 49 29.2& 37.520 N   21.600 E    5                      7  SOUTHERN GREECE. <ATH>. ML 3.2 (ATH).
21  20 51 03.8& 36.920 N   20.440 E   10                      4  CENTRAL MEDITERRANEAN SEA. <ATH>. MD 3.2 (ATH).
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21	20	54	36.1*	55.818	N	110.492	E	10	G	4.0		1.2	11	LAKE BAYKAL REGION, RUSSIA
21	21	14	17.9	55.860	N	110.262	E	10	G	4.7		1.1	67	LAKE BAYKAL REGION, RUSSIA. Felt (IV) at Kichera; (III) at Bodaybo and Severobaykalsk; (II) at Irkutsk.
21	21	40	51.5*	40.760	N	140.280	E	33	N			0.4	7	EASTERN HONSHU, JAPAN
21	22	00	08.9	55.822	N	110.251	E	10	G	4.2		1.3	20	LAKE BAYKAL REGION, RUSSIA
21	22	14	40.1&	4.502	N	75.658	W	4					6	COLOMBIA. <RSNC>. ML 2.8 (RSNC).
21	22	30	55.0&	61.530	N	141.280	W	0					62	SOUTHERN ALASKA. <AEIC>. ML 3.3 (AEIC), 3.4 (PGC).
21	22	34	03.8*	55.840	N	110.306	E	10	G	3.8		1.2	12	LAKE BAYKAL REGION, RUSSIA
21	22	37	44.1&	42.710	N	7.690	W	8					10	SPAIN. <MDD>. mbLg 2.6 (MDD). Felt (III) at Sarria and Savinao.
21	22	42	32.1	55.922	N	110.380	E	10	G	4.6	3.8	0.8	59	LAKE BAYKAL REGION, RUSSIA. Felt (III) at Uoyan and (II) at Irkutsk.
21	22	42	49.5&	42.710	N	7.700	W	9					10	SPAIN. <MDD>. mbLg 2.9 (MDD). Felt (III) at Sarria and Savinao.
21	23	06	16.9*	56.065	N	110.169	E	10	G	3.7		1.3	11	LAKE BAYKAL REGION, RUSSIA
21	23	52	55.6&	57.980	N	156.690	W	160		2.7			59	ALASKA PENINSULA. <AEIC>.
21	23	56	18.0&	43.000	N	0.100	W	2					4	PYRENEES. <LDG>. ML 2.0 (LDG).
21	23	57	53.0	46.036	N	14.790	E	10	G			1.1	9	NORTHWESTERN BALKAN REGION. ML 2.6 (VIE).
22	00	03	11.6	46.031	N	14.765	E	10	G			0.9	27	NORTHWESTERN BALKAN REGION. ML 3.4 (GRF), 3.2 (VIE), 2.8 (LDG), 2.8 (LJU). Felt (IV) at Grosuplje, Litija and Ljubljana, Slovenia.
22	00	10	18.1?	55.96	S	147.08	W	10	G	4.6		1.4	14	PACIFIC-ANTARCTIC RIDGE
22	00	36	41.4	12.964	S	166.901	E	200	G	4.6		0.8	30	SANTA CRUZ ISLANDS
22	00	45	29.3*	55.973	N	110.086	E	10	G	3.8		1.5	13	LAKE BAYKAL REGION, RUSSIA
22	01	22	18.7*	16.857	S	127.307	E	10	G			0.9	5	WESTERN AUSTRALIA
22	01	44	50.0	40.679	N	33.039	E	10	G			0.8	10	TURKEY. MD 3.5 (ISK).
22	01	48	29.7&	33.229	S	72.007	W	13					9	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
22	02	17	33.6&	35.755	N	117.512	W	3					3	CENTRAL CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
22	02	26	45.7*	7.152	S	130.015	E	33	N			0.6	9	TANIMBAR ISLANDS REG., INDONESIA
22	02	41	16.8*	4.305	S	134.218	E	33	N	4.1		1.5	9	IRIAN JAYA REGION, INDONESIA
22	02	49	47.7	28.954	S	72.639	W	33	N	4.4		1.0	45	OFF COAST OF CENTRAL CHILE
22	02	56	19.6&	44.952	N	6.961	E	6					8	FRANCE. <GEN>. ML 1.8 (GEN).
22	03	06	48.7&	40.410	N	25.890	E	10					8	AEGEAN SEA. <ATH>. MD 3.1 (ATH), 3.1 (ISK).
22	03	38	48.5&	33.937	S	70.409	W	105					12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.9 (GUC).
22	03	40	57.7&	40.130	N	20.170	E	13					4	GREECE-ALBANIA BORDER REGION. <ATH>. MD 3.0 (ATH).
22	04	09	49.3&	42.700	N	7.660	W	10					8	SPAIN. <MDD>. mbLg 2.4 (MDD).
22	04	26	10.2*	46.089	N	14.758	E	10	G			0.9	5	NORTHWESTERN BALKAN REGION. ML 1.8 (VIE).
22	04	36	12.7&	42.900	N	0.300	W	2					9	PYRENEES. <LDG>. ML 2.3 (STR), 2.0 (LDG).
22	04	37	48.9&	38.810	N	24.820	E	38					5	AEGEAN SEA. <ATH>. MD 3.2 (ATH).
22	05	05	11.6&	33.220	S	72.004	W	35					14	OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.4 (GUC).
22	05	12	57.8&	42.572	N	19.147	E	17					8	NORTHWESTERN BALKAN REGION. <PDG>. ML 1.5 (PDG).
22	05	15	11.7*	39.625	N	73.964	E	59	*	3.9		0.8	14	TAJIKISTAN-XINJIANG BORDER REG.
22	05	30	20.8&	36.930	N	6.530	W	9					12	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.2 (MDD).
22	06	34	33.8&	33.226	S	72.023	W	15					12	OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.3 (GUC).
22	07	31	54.3*	49.512	N	156.571	E	33	N	3.7		1.0	10	KURIL ISLANDS
22	07	33	35.1&	39.531	N	28.256	E	8					4	TURKEY. <ISK>. MD 2.8 (ISK).
22	08	04	06.5	7.122	S	128.658	E	33	N	5.4	5.4	1.2	74	BANDA SEA. Mw 5.8 (GS), 5.8 (HRV). Moment Tensor (GS): Dep 40; Principal axes (scale 10**17 Nm): (T) Val=6.49, Plg=9, Azm=256; (N) Val=0.05, Plg=75, Azm=130; (P) Val=-6.54, Plg=12, Azm=348; Best double couple: Mo=6.5*10**17 Nm; NP1: Strike=32, Dip=75, Slip=-2; NP2: Strike=122, Dip=88, Slip=-165. Centroid, Moment Tensor (HRV): Centroid origin time 08:04:10.2; Lat 6.92 S; Lon 128.29 E; Dep 43.3; Half-duration 1.9 sec; Principal axes (scale 10**17 Nm): (T) Val=4.77, Plg=13, Azm=90; (N) Val=0.79, Plg=76, Azm=263; (P) Val=-5.56, Plg=1, Azm=0; Best double couple: Mo=5.2*10**17 Nm; NP1: Strike=134, Dip=79, Slip=171; NP2: Strike=225, Dip=82, Slip=11.
22	08	31	29.3&	34.033	N	117.226	W	17					30	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.8 (PAS). Felt at Quail Valley, Redlands, Riverside, San Bernardino, Upland and Yucaipa.
22	08	43	21.2&	60.409	N	151.206	W	50					64	KENAI PENINSULA, ALASKA. <AEIC>. ML 3.0 (AEIC).
22	08	46	27.8	55.795	N	110.181	E	10	G	4.2		0.9	16	LAKE BAYKAL REGION, RUSSIA
22	09	21	48.5*	37.093	N	21.461	E	10	G			1.1	13	SOUTHERN GREECE. ML 3.6 (ATH).
22	09	22	08.1*	44.049	N	147.662	E	33	N	4.2		1.1	20	KURIL ISLANDS
22	09	26	01.2*	4.233	S	131.244	E	33	N	4.2		1.4	16	BANDA SEA
22	09	29	49.5&	11.151	N	62.101	W	114					7	WINDWARD ISLANDS. <TRN>. MD 3.2 (TRN).
22	09	39	13.1*	41.804	S	172.985	E	100	G			0.6	9	SOUTH ISLAND, NEW ZEALAND
22	09	56	16.6?	29.26	N	76.94	E	208	?	4.1		1.3	11	NORTHERN INDIA
22	10	05	30.6&	60.102	N	151.390	W	45					82	KENAI PENINSULA, ALASKA. <AEIC>. ML 3.6 (AEIC), 3.5 (PMR).
22	11	57	02.9&	46.200	N	0.800	E	2					27	FRANCE. <LDG>. ML 2.4 (LDG), 2.3 (STR).
22	12	05	32.3?	56.19	N	110.16	E	10	G	3.8		1.3	8	LAKE BAYKAL REGION, RUSSIA
22	12	20	08.1&	45.053	N	6.670	E	8					12	FRANCE. <GEN>. ML 2.2 (GEN), 1.7 (LDG).
22	12	29	06.2	55.887	N	110.089	E	10	G	4.8	3.9	0.9	58	LAKE BAYKAL REGION, RUSSIA. Felt (III) at Severobaykalsk and (II) at Irkutsk.
22	12	42	47.5&	47.200	N	5.500	E	2					5	FRANCE. <LDG>. ML 2.2 (LDG).
22	13	40	57.1?	36.22	S	178.52	W	33	N	4.1		0.5	13	EAST OF NORTH ISLAND, N.Z. ML 4.7 (WEL).
22	14	05	11.8&	40.982	N	29.494	E	10					4	TURKEY. <ISK>. MD 2.5 (ISK).
22	14	24	10.6&	39.127	N	27.655	E	5					5	TURKEY. <ISK>. MD 2.8 (ISK).
22	15	14	48.6&	40.068	N	30.188	E	10					9	TURKEY. <ISK>. MD 3.1 (ISK).
22	15	22	04.7&	59.909	N	153.351	W	145					59	SOUTHERN ALASKA. <AEIC>.
22	15	23	04.2&	33.238	S	71.994	W	15					11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
22	15	27	50.5&	60.432	N	152.206	W	81					47	SOUTHERN ALASKA. <AEIC>.
22	15	27	52.4	36.490	N	71.058	E	271	D	4.8		0.7	79	AFGHANISTAN-TAJIKISTAN BORD REG.
22	15	29	43.7&	39.952	N	30.111	E	10					10	TURKEY. <ISK>. MD 3.2 (ISK).
22	15	59	18.5&	34.355	N	32.277	E	25					6	CYPRUS REGION. <CSS>. ML 3.0 (CSS).
22	16	13	13.0*	55.693	N	110.317	E	10	G			0.5	7	LAKE BAYKAL REGION, RUSSIA
22	16	25	44.9&	37.400	N	20.800	E	5					4	IONIAN SEA. <ATH>. MD 3.4 (ATH).
22	16	27	27.1&	32.674	S	71.904	W	28					11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
22	17	01	00.1*	21.119	S	68.804	W	33	N	4.6		1.0	9	CHILE-BOLIVIA BORDER REGION
22	17	21	03.1&	62.987	N	150.441	W	104					40	CENTRAL ALASKA. <AEIC>.
22	17	26	02.0*	37.136	N	141.765	E	81	?	4.0		0.9	18	NEAR EAST COAST OF HONSHU, JAPAN. Felt (I JMA) in eastern

											Fukushima and western Tochigi Prefectures.
22	17	44	13.5&	19.082 N	98.512 W	0 G				6	CENTRAL MEXICO. <UNM>. MD 3.8 (UNM).
22	17	54	00.3*	36.457 N	70.326 E	200 G	4.0		1.0	19	HINDU KUSH REGION, AFGHANISTAN
22	18	33	18.6&	45.900 N	5.300 E	2				5	FRANCE. <LDG>. ML 2.0 (LDG).
22	18	53	26.5&	62.506 N	150.001 W	72				48	CENTRAL ALASKA. <AEIC>.
22	19	08	50.0&	39.379 N	27.951 E	5				5	TURKEY. <ISK>. MD 2.7 (ISK).
22	19	13	58.1&	43.883 N	7.481 E	11				8	NEAR SOUTH COAST OF FRANCE. <GEN>. ML 2.1 (GEN).
22	19	25	53.0	45.506 N	26.310 E	149	4.1		1.0	63	ROMANIA. Felt at Bucharest. Felt (III) at Cahul and Chisinau, Moldova.
22	20	10	24.2*	36.945 N	69.945 E	75 ?	4.5		1.2	23	HINDU KUSH REGION, AFGHANISTAN
22	20	54	45.4*	40.945 N	142.004 E	97 *	4.3		0.8	23	NEAR EAST COAST OF HONSHU, JAPAN. Felt (II JMA) in southeastern Aomori and (I JMA) in northern Iwate Prefectures.
22	21	08	57.2&	44.534 N	7.236 E	13				8	NORTHERN ITALY. <GEN>. ML 1.8 (GEN).
22	21	34	55.7*	20.903 S	179.223 W	661 ?	4.7		0.6	37	FIJI ISLANDS REGION
22	22	06	48.7&	38.983 N	29.890 E	15				4	TURKEY. <ISK>. MD 2.8 (ISK).
22	22	11	20.8&	32.075 S	71.410 W	29				8	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
22	22	20	49.0*	18.867 N	144.182 E	33 N	4.1		1.4	12	MARIANA ISLANDS
22	22	27	27.5	18.918 N	144.770 E	33 N	4.7		0.9	44	MARIANA ISLANDS
22	22	35	20.2	12.047 N	143.624 E	33 N	4.8		1.1	34	SOUTH OF MARIANA ISLANDS
22	22	43	40.1&	4.503 N	75.679 W	4				6	COLOMBIA. <RSNC>. ML 2.3 (RSNC).
22	23	48	02.6*	21.493 S	68.336 W	150 G	4.2		0.7	8	CHILE-BOLIVIA BORDER REGION
23	00	35	32.1*	45.548 N	6.812 W	10 G			0.6	15	NORTH ATLANTIC OCEAN. ML 2.1 (LDG).
23	00	50	07.3&	37.810 N	23.090 E	35				4	SOUTHERN GREECE. <ATH>. MD 2.7 (ATH).
23	00	56	48.9&	19.320 N	64.490 W	54				7	VIRGIN ISLANDS. <MPR>. MD 4.1 (MPR).
23	01	19	21.1&	60.376 N	151.373 W	57				59	KENAI PENINSULA, ALASKA. <AEIC>. ML 3.5 (AEIC), 3.6 (PMR).
23	01	32	41.4&	43.020 N	0.780 W	2 G				17	PYRENEES. <STR>. mbLg 2.4 (MDD). ML 2.4 (LDG), 2.3 (STR).
23	01	48	28.4&	59.942 N	153.475 W	145				27	SOUTHERN ALASKA. <AEIC>.
23	01	53	34.0&	66.720 N	135.510 W	20 G				7	NORTHERN YUKON TERRITORY, CANADA. <PGC-P>. ML 3.7 (PGC).
23	01	59	37.7&	32.787 S	71.193 W	53				10	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
23	02	16	32.4*	55.945 N	110.559 E	10 G	4.2		1.4	9	LAKE BAYKAL REGION, RUSSIA
23	02	51	13.2&	47.200 N	0.400 W	2				17	FRANCE. <LDG>. ML 2.3 (LDG).
23	03	51	46.3*	9.029 N	138.243 E	33 N	4.2		0.7	8	WESTERN CAROLINE ISLANDS
23	03	56	58.8&	4.486 N	75.640 W	9				10	COLOMBIA. <RSNC>. ML 3.4 (RSNC).
23	04	23	33.9	33.256 N	141.342 E	33 N	5.1	4.8	1.1	79	OFF EAST COAST OF HONSHU, JAPAN. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 04:23:35.0; Lat 33.59 N; Lon 141.46 E; Dep 16.2; Half-duration 1.0 sec; Principal axes (scale 10**17 Nm): (T) Val=1.13, Plg=61, Azm=289; (N) Val=-0.08, Plg=3, Azm=194; (P) Val=-1.04, Plg=29, Azm=103; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=185, Dip=16, Slip=81; NP2: Strike=15, Dip=74, Slip=93.
23	04	48	34.5&	37.330 N	20.750 E	5				4	IONIAN SEA. <ATH>. MD 3.3 (ATH).
23	05	41	31.1	34.708 S	69.686 W	10 G	4.6		1.3	29	CHILE-ARGENTINA BORDER REGION. MD 4.8 (GUC).
23	07	28	44.8&	34.150 S	70.867 W	89				8	CHILE-ARGENTINA BORDER REGION. <GUC>.
23	07	29	53.3?	28.78 N	78.61 E	33 N	3.7		0.9	8	NORTHERN INDIA
23	07	43	15.4&	42.760 N	0.220 W	5				12	PYRENEES. <STR>. ML 2.7 (LDG), 2.5 (STR).
23	07	45	55.2&	10.943 N	62.090 W	88				6	NEAR COAST OF VENEZUELA. <TRN>. MD 3.0 (TRN).
23	08	24	48.1?	38.06 S	175.91 E	257 ?			0.3	17	NORTH ISLAND, NEW ZEALAND
23	08	32	34.7	1.006 N	120.135 E	33 N	5.2	4.3	1.0	56	MINAHASSA PENINSULA, SULAWESI. Mw 5.2 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 08:32:38.9; Lat 1.48 N; Lon 120.04 E; Dep 41.8; Half-duration 1.0 sec; Principal axes (scale 10**16 Nm): (T) Val=6.51, Plg=59, Azm=190; (N) Val=-0.29, Plg=11, Azm=81; (P) Val=-6.23, Plg=29, Azm=346; Best double couple: Mo=6.4*10**16 Nm; NP1: Strike=49, Dip=19, Slip=56; NP2: Strike=264, Dip=74, Slip=101.
23	08	39	37.2*	16.708 S	173.273 W	47 D	4.7		1.0	22	TONGA ISLANDS
23	08	44	36.8&	39.441 N	123.297 W	0				9	NEAR COAST OF NORTHERN CALIF. <GM-P>. MD 3.0 (GM). ML 3.0 (BRK).
23	09	02	01.9	15.887 N	93.675 W	98	4.1		1.1	63	NEAR COAST OF CHIAPAS, MEXICO. MD 4.6 (CASC), 4.5 (UNM).
23	09	05	45.0	15.820 N	93.701 W	99	4.4		1.2	84	NEAR COAST OF CHIAPAS, MEXICO. MD 4.9 (CASC), 4.6 (UNM).
23	09	06	10.4&	39.212 N	27.364 E	6				4	TURKEY. <ISK>. MD 2.6 (ISK).
23	09	11	40.5*	45.717 N	26.482 E	167	3.8		0.9	13	ROMANIA
23	09	22	38.8&	34.623 N	32.933 E	10				8	CYPRUS REGION. <CSS>. ML 3.0 (CSS).
23	09	49	33.5&	37.140 N	4.190 W	0				7	SPAIN. <MDD>. mbLg 2.1 (MDD).
23	10	09	35.4&	40.888 N	30.405 E	10 G				4	TURKEY. <ISK>. MD 2.6 (ISK).
23	10	44	19.4	37.875 S	176.797 E	148	5.0		1.2	67	NORTH ISLAND, NEW ZEALAND. Mw 5.4 (HRV). Felt along the east coast of the North Island as far south as Wellington. Centroid, Moment Tensor (HRV): Centroid origin time 10:44:24.4; Lat 37.45 S; Lon 177.30 E; Dep 145.5; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.49, Plg=55, Azm=322; (N) Val=-0.17, Plg=9, Azm=218; (P) Val=-1.32, Plg=33, Azm=122; Best double couple: Mo=1.4*10**17 Nm; NP1: Strike=180, Dip=15, Slip=51; NP2: Strike=40, Dip=79, Slip=99.
23	10	54	06.5&	44.300 N	7.700 E	2				5	NORTHERN ITALY. <LDG>. ML 2.3 (LDG).
23	11	23	44.3	20.912 S	178.731 W	575 D	5.0		0.8	193	FIJI ISLANDS REGION. Mw 5.6 (GS), 5.6 (HRV). Moment Tensor (GS): Dep 575; Principal axes (scale 10**17 Nm): (T) Val=2.71, Plg=7, Azm=60; (N) Val=0.61, Plg=32, Azm=154; (P) Val=-3.32, Plg=58, Azm=319; Best double couple: Mo=3.0*10**17 Nm; NP1: Strike=119, Dip=47, Slip=-136; NP2: Strike=356, Dip=59, Slip=-52. Centroid, Moment Tensor (HRV): Centroid origin time 11:23:48.7; Lat 20.79 S; Lon 178.65 W; Dep 584.1; Half-duration 1.7 sec; Principal axes (scale 10**17 Nm): (T) Val=2.84, Plg=20, Azm=75; (N) Val=0.80, Plg=31, Azm=177; (P) Val=-3.64, Plg=52, Azm=318; Best double couple: Mo=3.2*10**17 Nm; NP1: Strike=125, Dip=37, Slip=-148; NP2: Strike=9, Dip=71, Slip=-57.
23	11	54	47.2&	39.648 N	29.621 E	10 G				4	TURKEY. <ISK>. MD 2.8 (ISK).
23	12	03	03.4*	55.849 N	110.268 E	10 G	4.2		1.0	14	LAKE BAYKAL REGION, RUSSIA
23	12	09	40.5&	44.000 N	1.700 E	2				7	FRANCE. <LDG>. ML 2.2 (LDG).

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23  12 49 53.4?  6.50  S  149.32  E   33 N  3.8        1.5    9  NEW BRITAIN REGION, P.N.G. ML 3.6 (PMG).
23  12 54 16.8* 55.766 N  110.353 E   10 G  4.2        1.3   18  LAKE BAYKAL REGION, RUSSIA. Felt (IV) at Kichera.
23  13 38 33.1   6.873 S  129.520 E  131 *  4.8        0.9   71  BANDA SEA
23  15 31 07.4& 34.442 N   33.605 E   15                       7  CYPRUS REGION. <CSS>. ML 3.2 (CSS).
23  15 32 53.5   8.651 S  119.326 E  115 *  4.5        0.8   15  FLORES REGION, INDONESIA
23  15 33 50.9  85.650 N   86.144 E   10 G  4.5 4.0     1.2   27  NORTH OF SEVERNAYA ZEMLYA
23  15 48 35.8  85.544 N   85.775 E   10 G  3.9        1.0   18  NORTH OF SEVERNAYA ZEMLYA
23  16 28 53.7& 43.000 N    0.080 W    2 G                      4  PYRENEES. <STR>. ML 1.9 (STR).
23  17 30 17.1  14.443 N   88.444 W   33 N  4.6        1.0   59  HONDURAS. MD 4.9 (CASC).
23  18 05 47.5& 40.785 N   27.469 E    6                       7  TURKEY. <ISK>. MD 3.0 (ISK).
23  18 36 40.4& 36.676 N  121.299 W    6                      32  CENTRAL CALIFORNIA. <GM-P>. Mw 4.1 (BRK). ML 4.1 (GM), 4.2
                                                                   (BRK).
                                                                   Moment Tensor (BRK): Dep 8; Principal axes (scale 10**15
                                                                    Nm): (T) Val=1.72, Plg=32, Azm=259; (N) Val=0.00, Plg=49,
                                                                    Azm=123; (P) Val=-1.72, Plg=23, Azm=5; Best double couple:
                                                                    Mo=1.7*10**15 Nm; NP1: Strike=310, Dip=84, Slip=139; NP2:
                                                                    Strike=45, Dip=49, Slip=8.
23  18 38 18.9& 36.683 N  121.317 W    6                       5  CENTRAL CALIFORNIA. <GM-P>. MD 3.0 (GM).
23  19 34 53.0& 36.681 N  121.308 W    6                      26  CENTRAL CALIFORNIA. <GM-P>. MD 3.6 (GM). ML 3.5 (BRK).
23  19 43 36.7& 33.423 S   70.741 W   82                      13  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.2 (GUC).
23  19 49 25.4& 31.656 S   69.918 W  154                      12  SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 3.2 (GUC).
23  20 05 09.1& 10.788 N   62.359 W   70                       5  NEAR COAST OF VENEZUELA. <TRN>. MD 2.9 (TRN).
23  20 12 20.1& 36.675 N  121.301 W    7                       9  CENTRAL CALIFORNIA. <GM-P>. MD 2.8 (GM).
23  20 15 28.5  29.570 N  128.333 E   33 N  5.4 5.3     0.9  129  NORTHWEST OF RYUKYU ISLANDS. Mw 5.6 (HRV). Felt (II JMA) on
                                                                    Amami-O-shima and (I JMA) on Nakano-shima.
                                                                   Centroid, Moment Tensor (HRV): Centroid origin time
                                                                    20:15:28.8; Lat 29.67 N; Lon 128.15 E; Dep 15.0 Bdy; Half-
                                                                    duration 1.5 sec; Principal axes (scale 10**17 Nm): (T)
                                                                    Val=2.96, Plg=17, Azm=172; (N) Val=-0.45, Plg=57, Azm=291;
                                                                    (P) Val=-2.51, Plg=27, Azm=73; Best double couple:
                                                                    Mo=2.7*10**17 Nm; NP1: Strike=215, Dip=58, Slip=-172; NP2:
                                                                    Strike=121, Dip=83, Slip=-32.
23  20 17 58.7& 31.816 S   71.819 W    0                       9  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
23  20 37 05.9*  6.797 S  130.414 E   74 ?  4.3        1.1   12  BANDA SEA
23  20 58 40.8?  2.19  S  134.06  E   33 N  4.1        1.4    9  IRIAN JAYA REGION, INDONESIA
23  22 14 42.3  55.918 N  110.521 E   10 G  4.6 3.9     1.0   36  LAKE BAYKAL REGION, RUSSIA. Felt (IV) at Kichera and (II) at
                                                                    Irkutsk.
23  22 17 37.1& 58.972 N  153.428 W   80                      24  KODIAK ISLAND REGION. <AEIC>.
23  22 22 56.8* 14.434 N   88.531 W   33 N                    0.6   10  HONDURAS. ML 4.5 (CASC).
23  22 24 02.7* 17.762 S  178.934 W  576 ?  4.4        0.9   31  FIJI ISLANDS REGION
23  23 04 41.3& 37.150 N    3.800 W    0                      12  SPAIN. <MDD>. mbLg 2.2 (MDD).
23  23 33 54.9& 36.677 N  121.304 W    6                      11  CENTRAL CALIFORNIA. <GM-P>. MD 2.9 (GM).
23  23 57 30.0* 38.218 N    0.771 W   10 G                    0.8    5  SPAIN. mbLg 2.1 (MDD). Felt (III) at Guardamar del Segura
                                                                    and (II) at Torrevieja.
24  00 03 09.4* 36.333 N   72.161 E  100 G  3.4        0.9    8  AFGHANISTAN-TAJIKISTAN BORD REG.
24  00 09 26.8*  5.954 S  146.991 E   79 ?  4.0        0.8   10  EASTERN NEW GUINEA REG., P.N.G.
24  00 14 54.8*  6.408 N  126.787 E   72 ?  4.6        1.1   35  MINDANAO, PHILIPPINE ISLANDS
24  00 22 22.2? 36.49  N   71.03  E  171 ?  3.5        1.0    9  AFGHANISTAN-TAJIKISTAN BORD REG.
24  00 29 58.3* 56.450 S   27.320 W  120 ?  4.2        1.0   16  SOUTH SANDWICH ISLANDS REGION
24  00 56 15.4? 44.83  N  147.01  E   33 N  4.3        1.4   12  KURIL ISLANDS
24  01 42 35.8? 26.42  N  127.42  E   33 N              1.1    8  RYUKYU ISLANDS
24  02 14 37.0& 20.879 N   99.233 W    8                      12  CENTRAL MEXICO. <UNM>. MD 3.5 (UNM).
24  03 06 00.4& 61.784 N  149.781 W   39                      40  SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).
24  03 26 32.3* 75.559 N  121.654 E   10 G  4.5        0.9   13  LAPTEV SEA
24  04 53 48.0* 55.642 N  110.929 E   10 G              1.0    5  LAKE BAYKAL REGION, RUSSIA
24  05 20 31.4  43.319 N   12.369 E   10 G              1.0   71  CENTRAL ITALY. ML 3.5 (STR), 3.5 (VIE), 3.2 (LDG).
24  05 26 14.6& 18.940 N   65.360 W   30                       9  PUERTO RICO REGION. <MPR>. MD 3.2 (MPR).
24  05 33 48.3* 55.760 N  110.168 E   10 G  3.7        1.1   10  LAKE BAYKAL REGION, RUSSIA
24  06 27 30.9% 35.888 N    3.712 W   10 G              0.9   16  STRAIT OF GIBRALTAR. mbLg 2.9 (MDD).
24  07 20 48.3* 14.383 S  167.301 E  178 ?  4.2        0.9   30  VANUATU ISLANDS
24  08 18 50.2& 39.674 N   29.440 E   10 G                      4  TURKEY. <ISK>. MD 2.5 (ISK).
24  08 59 13.2& 36.650 N    3.550 W    4                      10  STRAIT OF GIBRALTAR. <MDD>. mbLg 2.2 (MDD).
24  09 01 42.7& 59.900 N  152.764 W  105     2.6              73  SOUTHERN ALASKA. <AEIC>.
24  09 29 00.2& 39.203 N   27.456 E   10 G                      4  TURKEY. <ISK>. MD 2.6 (ISK).
24  09 33 45.6  40.201 N   25.250 E   10 G              0.9   11  AEGEAN SEA. MD 3.4 (ISK), 3.3 (ATH).
24  09 43 36.3& 31.695 S   69.994 W  138                       9  SAN JUAN PROVINCE, ARGENTINA. <GUC>. MD 2.9 (GUC).
24  09 43 57.3  51.992 N  178.659 W   33 N  4.2        1.2   39  ANDREANOF ISLANDS, ALEUTIAN IS.
24  09 45 20.1& 19.280 N   66.520 W   36                       6  PUERTO RICO REGION. <MPR>. MD 3.2 (MPR).
24  11 25 15.5  45.661 N   13.513 E   10 G              1.0   13  NORTHERN ITALY. ML 3.2 (VIE).
24  11 40 09.8? 48.29  N   14.40  E   10 G              1.6    5  AUSTRIA. ML 2.5 (VIE). Felt (IV) at Luftenberg.
24  11 51 17.2& 32.826 S   71.611 W   40                       9  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
24  12 31 52.7& 39.585 N   29.519 E    9                       5  TURKEY. <ISK>. MD 2.7 (ISK).
24  13 08 42.1& 16.123 N   61.174 W   22                       4  LEEWARD ISLANDS. <FDF>. MG 1.8 (FDF).
24  13 41 44.5? 38.26  S  176.34  E  200 G              0.2   12  NORTH ISLAND, NEW ZEALAND
24  13 41 46.5& 15.458 N   61.157 W  107                       4  LEEWARD ISLANDS. <FDF>. MG 2.4 (FDF).
24  13 53 54.4* 29.576 N  128.461 E   69 *              0.8    7  NORTHWEST OF RYUKYU ISLANDS
24  14 55 19.8  17.930 S  178.645 W  600 G  4.7        0.8   73  FIJI ISLANDS REGION
24  14 57 22.3& 40.854 N   29.480 E   12                       4  TURKEY. <ISK>. MD 2.4 (ISK).
24  14 59 50.6& 40.708 N   30.347 E   14                       4  TURKEY. <ISK>. MD 2.7 (ISK).
24  15 07 39.6  33.700 N  135.247 E   33 N  4.3        0.9   18  NEAR S. COAST OF WESTERN HONSHU. Felt (II JMA) in southern
                                                                    Osaka and western Wakayama; (I JMA) in southern Mie and
                                                                    southern Wakayama Prefectures. Also felt (II JMA) in
                                                                    eastern Tokushima Prefecture, Shikoku.
24  15 08 46.0& 31.857 S   68.179 W  189                      10  SAN JUAN PROVINCE, ARGENTINA. <GUC>.
24  15 22 04.2? 20.41  S  169.33  E   33 N  4.5        1.6   13  VANUATU ISLANDS
24  16 20 14.7? 11.06  N   86.57  W   33 N  3.4        1.4    8  NEAR COAST OF NICARAGUA
24  16 23 21.1& 39.830 N    0.360 W    8                      17  SPAIN. <MDD>. ML 3.1 (LDG). mbLg 2.7 (MDD).
24  16 27 54.5& 60.226 N  152.621 W  104                      33  SOUTHERN ALASKA. <AEIC>.
24  16 28 15.2& 32.242 S   71.748 W   29                       9  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
24  16 53 27.9   8.559 S  106.255 E   33 N  4.6        0.9   22  SOUTH OF JAVA, INDONESIA
24  17 12 45.7* 26.910 N  140.681 E  500 ?  4.0        0.8   17  BONIN ISLANDS REGION
24  17 28 42.5& 39.019 N   26.930 E    7                       4  TURKEY. <ISK>. MD 2.8 (ISK).
24  17 49 45.6& 33.015 S   70.166 W  114                      13  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.4 (GUC).
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24	17	49	54.0&	63.242	N	150.956	W	14				42	CENTRAL ALASKA. <AEIC>. ML 2.7 (AEIC), 2.9 (PMR).
24	18	12	54.7*	55.777	N	110.222	E	10	G	3.9	1.0	8	LAKE BAYKAL REGION, RUSSIA
24	18	30	44.4?	17.02	S	173.32	W	59	D	4.6	1.4	13	TONGA ISLANDS
24	19	08	35.4&	34.358	S	70.763	W	88				10	CHILE-ARGENTINA BORDER REGION. <GUC>.
24	20	32	59.0	7.028	S	117.089	E	621	D	5.3	0.8	244	BALI SEA. Mw 5.5 (HRV).
													Centroid, Moment Tensor (HRV): Centroid origin time 20:33:04.8; Lat 6.86 S; Lon 117.36 E; Dep 631.8; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=2.15, Plg=5, Azm=345; (N) Val=0.34, Plg=19, Azm=76; (P) Val=-2.49, Plg=70, Azm=240; Best double couple: Mo=2.3*10**17 Nm; NP1: Strike=55, Dip=43, Slip=-119; NP2: Strike=272, Dip=53, Slip=-66.
24	20	47	15.5&	62.700	N	149.210	W	66				43	CENTRAL ALASKA. <AEIC>. ML 2.9 (AEIC), 3.1 (PMR).
24	21	03	10.5	36.703	N	25.802	E	10	G		1.1	8	DODECANESE ISLANDS. ML 3.6 (ATH).
24	21	24	04.8?	21.30	N	146.65	E	45	D	3.8	1.3	8	MARIANA ISLANDS REGION
24	21	57	23.0*	12.618	S	166.862	E	267	*	4.6	1.0	74	SANTA CRUZ ISLANDS
24	22	03	51.5	62.203	N	151.321	W	33	N		0.6	8	CENTRAL ALASKA. ML 3.0 (PMR).
24	22	10	07.3*	2.814	S	149.475	E	33	N	4.4	0.8	14	NEW IRELAND REGION, P.N.G.
24	22	10	18.4*	23.833	N	114.993	E	10	G	4.1	1.1	10	NEAR SOUTHEASTERN COAST OF CHINA. Some damage in Guangdong Province. Felt (IV) in Hong Kong.
24	22	20	42.7?	11.72	N	88.58	W	33	N	4.2	1.3	8	OFF COAST OF CENTRAL AMERICA
24	22	45	20.4*	33.826	N	120.550	E	33	N	3.6	1.5	17	SOUTHEASTERN CHINA. ML 4.2 (BJI).
24	22	48	34.5?	18.00	S	168.76	E	148	*		1.2	9	VANUATU ISLANDS
24	23	48	57.3?	3.36	S	130.46	E	33	N	4.1	1.0	8	SERAM, INDONESIA
25	00	05	37.2?	7.50	S	128.87	E	105	?	3.8	1.3	8	BANDA SEA
25	00	59	43.8&	32.531	S	70.114	W	112				11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.3 (GUC).
25	01	32	11.7*	55.854	N	110.460	E	10	G	4.4	1.2	13	LAKE BAYKAL REGION, RUSSIA
25	01	57	42.7*	1.290	N	123.132	E	62	?	4.2	1.2	17	MINAHASSA PENINSULA, SULAWESI
25	02	42	53.5*	18.202	N	147.267	E	33	N	4.0	1.4	13	MARIANA ISLANDS REGION
25	03	33	48.7?	21.67	S	173.06	E	33	N	4.5	1.1	15	VANUATU ISLANDS REGION
25	03	37	16.6?	7.27	S	108.75	E	133	?	3.9	0.9	10	JAWA, INDONESIA
25	03	47	05.0*	26.913	N	125.734	E	186	*	4.1	1.0	21	NORTHEAST OF TAIWAN
25	03	54	52.8*	31.734	S	179.008	W	200	G	4.4	1.1	18	KERMADEC ISLANDS REGION
25	03	56	43.7&	37.550	N	21.880	E	5				7	SOUTHERN GREECE. <ATH>. ML 3.2 (ATH).
25	04	12	07.0&	37.820	N	21.220	E	10				4	SOUTHERN GREECE. <ATH>. MD 2.9 (ATH).
25	04	29	51.1&	42.349	N	19.480	E	15				9	NORTHWESTERN BALKAN REGION. <PDG>. ML 1.4 (PDG).
25	04	32	04.9%	31.446	S	117.871	E	10	G		0.8	7	WESTERN AUSTRALIA
25	04	40	47.7&	36.672	N	121.295	W	6				16	CENTRAL CALIFORNIA. <GM-P>. MD 3.1 (GM). ML 3.3 (BRK).
25	04	44	08.6&	40.170	N	21.410	E	15				4	GREECE. <ATH>. MD 2.8 (ATH).
25	05	04	08.7?	36.33	N	4.31	W	33	N		0.4	15	STRAIT OF GIBRALTAR
25	05	25	33.0&	34.782	S	69.819	W	7				8	CHILE-ARGENTINA BORDER REGION. <GUC>.
25	05	51	49.2&	36.620	N	25.680	E	14				9	DODECANESE ISLANDS. <ATH>. MD 3.6 (ATH).
25	06	28	13.7?	29.45	N	70.14	E	33	N	3.8	0.6	6	PAKISTAN
25	06	37	45.9&	31.719	S	71.731	W	28				9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
25	07	12	21.0%	4.390	N	75.700	W	10	G		1.0	6	COLOMBIA. ML 2.8 (RSNC).
25	07	15	51.9*	10.392	N	126.386	E	33	N	4.3	1.0	18	PHILIPPINE ISLANDS REGION
25	07	17	52.4&	32.235	S	70.082	W	109				12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.7 (GUC).
25	08	11	08.0	15.518	S	167.598	E	111	D	5.0	1.0	139	VANUATU ISLANDS. Mw 5.2 (HRV).
													Centroid, Moment Tensor (HRV): Centroid origin time 08:11:10.9; Lat 15.94 S; Lon 167.30 E; Dep 123.1; Half-duration 1.1 sec; Principal axes (scale 10**16 Nm): (T) Val=8.78, Plg=68, Azm=111; (N) Val=-2.27, Plg=4, Azm=11; (P) Val=-6.51, Plg=22, Azm=279; Best double couple: Mo=7.6*10**16 Nm; NP1: Strike=1, Dip=24, Slip=79; NP2: Strike=193, Dip=67, Slip=95.
25	08	20	24.5&	42.397	N	19.454	E	18				9	NORTHWESTERN BALKAN REGION. <PDG>. ML 1.3 (PDG).
25	08	22	34.8&	36.600	N	25.720	E	19				13	DODECANESE ISLANDS. <ATH>. MD 3.7 (ATH).
25	08	23	52.7&	44.390	N	7.288	E	11				7	NORTHERN ITALY. <GEN>. ML 1.9 (GEN).
25	08	25	12.9*	83.816	N	0.929	W	10	G	3.2	0.9	9	NORTH OF SVALBARD
25	08	30	16.9&	59.422	N	152.316	W	69				60	SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC).
25	08	33	27.4	39.596	N	77.235	E	57	D	5.1 4.6	0.9	148	SOUTHERN XINJIANG, CHINA. Felt in Jiashi County.
25	08	45	24.3*	51.129	N	15.827	E	5	G		0.6	7	POLAND. ML 3.3 (VIE).
25	08	45	46.9&	63.272	N	151.147	W	14				66	CENTRAL ALASKA. <AEIC>. ML 3.6 (AEIC), 3.8 (PMR).
25	08	57	36.3*	29.850	N	70.272	E	33	N	4.0	0.6	9	PAKISTAN
25	09	03	45.1*	39.722	N	76.966	E	33	N	4.1	1.4	14	SOUTHERN XINJIANG, CHINA
25	09	10	45.9?	39.62	N	77.36	E	33	N	3.9	1.2	5	SOUTHERN XINJIANG, CHINA
25	09	13	17.7&	38.980	N	20.550	E	5		4.0		59	GREECE. <ATH>. ML 4.0 (ATH), 3.8 (TIR), 3.7 (PDG).
25	09	53	58.4&	32.735	S	71.457	W	27				11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
25	09	58	39.8	33.274	N	141.530	E	33	N	4.2	0.8	21	OFF EAST COAST OF HONSHU, JAPAN
25	10	43	07.2	29.038	N	131.020	E	33	N	4.6	1.0	45	SOUTHEAST OF RYUKYU ISLANDS
25	10	59	13.6&	44.300	N	7.700	E	2				5	NORTHERN ITALY. <LDG>. ML 2.1 (LDG).
25	11	06	02.5*	71.794	N	1.357	W	10	G	4.0 3.8	0.9	11	JAN MAYEN ISLAND REGION
25	11	09	36.5&	35.860	N	27.250	E	47				8	DODECANESE ISLANDS. <ATH>. MD 3.6 (ATH).
25	11	36	55.8	17.245	S	174.455	W	159	D	4.6	0.9	51	TONGA ISLANDS
25	11	48	47.8&	36.740	N	26.740	E	29				11	DODECANESE ISLANDS. <ATH>. MD 3.6 (ATH).
25	12	06	09.1*	5.137	N	121.809	E	33	N	4.2	1.2	17	CELEBES SEA
25	12	18	39.0&	32.667	S	71.463	W	25				13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.4 (GUC).
25	12	34	55.0&	53.563	N	165.842	W	61				9	FOX ISLANDS, ALEUTIAN ISLANDS. <AEIC>. ML 3.5 (AEIC).
25	12	39	08.1&	54.206	N	162.455	W	4				10	ALASKA PENINSULA. <AEIC>. ML 3.0 (AEIC).
25	13	09	50.1&	32.837	S	70.244	W	116				8	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.3 (GUC).
25	13	21	21.3	45.354	S	76.342	W	33	N	5.0	1.2	35	OFF COAST OF SOUTHERN CHILE
25	14	07	52.4?	44.95	S	76.99	W	33	N	4.6	1.4	9	OFF COAST OF SOUTHERN CHILE
25	14	48	21.4	51.831	N	179.171	W	33	N	4.5	1.0	28	ANDREANOF ISLANDS, ALEUTIAN IS.
25	14	51	55.3*	30.187	N	69.477	E	33	N	4.1	1.3	10	PAKISTAN
25	15	45	59.7%	45.348	N	26.338	E	150	G		0.7	8	ROMANIA
25	15	51	59.8&	39.354	N	27.585	E	5				5	TURKEY. <ISK>. MD 2.7 (ISK).
25	16	06	44.6*	51.438	N	177.700	W	33	N	4.1	1.4	12	ANDREANOF ISLANDS, ALEUTIAN IS.
25	16	31	55.6	9.963	N	93.013	E	91	?	4.5	0.8	27	NICOBAR ISLANDS, INDIA
25	16	37	05.7	37.041	N	31.126	E	125		3.9	0.9	32	TURKEY
25	16	55	38.2&	38.886	N	122.990	W	6				18	NORTHERN CALIFORNIA. <GM-P>. MD 3.1 (GM). ML 3.0 (BRK).
25	17	22	05.4*	51.083	N	15.916	E	5	G		1.0	5	POLAND. ML 3.0 (VIE).
25	18	20	52.5&	34.002	N	116.324	W	6				25	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.8 (PAS).
25	18	44	24.7?	17.32	S	179.05	W	500	G	3.9	0.9	16	FIJI ISLANDS REGION

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25  18 51 24.6& 33.779 S   72.051 W   24                      13  OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
25  19 01 15.2* 51.312 N   15.959 E    5 G            0.4     6  POLAND. ML 2.9 (VIE).
25  20 34 21.1* 85.616 N   85.038 E   10 G            1.3    15  NORTH OF SEVERNAYA ZEMLYA
25  21 01 29.5& 60.059 N  153.024 W  113                      24  SOUTHERN ALASKA. <AEIC>.
25  21 46 54.7& 40.236 N   28.878 E    5                       9  TURKEY. <ISK>. MD 3.0 (ISK).
25  22 08 15.7& 36.659 N  121.283 W    7                       8  CENTRAL CALIFORNIA. <GM-P>. MD 2.8 (GM).
25  22 12 05.6  33.154 S   70.020 W  120 G            0.4    14  CHILE-ARGENTINA BORDER REGION. MD 3.6 (GUC).
25  22 15 28.3& 54.216 N  162.652 W   25                      17  ALASKA PENINSULA. <AEIC>. ML 2.9 (AEIC).
25  22 35 12.2* 12.432 N   85.061 W   33 N  3.1        1.5    11  NICARAGUA. ML 3.7 (CASC).
25  22 47 01.6* 71.296 N    6.459 W   10 G  3.3        1.2     7  JAN MAYEN ISLAND REGION
25  23 08 58.7* 58.212 N  142.809 W   10 G              0.5    22  GULF OF ALASKA. ML 2.7 (AEIC), 2.7 (PGC).
25  23 09 43.4? 37.13  N   32.41  W   10 G  3.9        0.7     6  AZORES ISLANDS REGION
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). 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.
                                                                   Centroid, Moment Tensor (HRV): Centroid origin time
                                                                   23:31:11.8; Lat 36.21 N; Lon 140.69 E; Dep 15.0 Fix; Half-
                                                                   duration 1.0 sec; Principal axes (scale 10**16 Nm): (T)
                                                                   Val=7.94, Plg=70, Azm=291; (N) Val=0.31, Plg=2, Azm=194;
                                                                   (P) Val=-8.25, Plg=20, Azm=104; Best double couple:
                                                                   Mo=8.1*10**16 Nm; NP1: Strike=189, Dip=26, Slip=84; NP2:
                                                                   Strike=16, Dip=65, Slip=93.
25  23 41 36.0  58.298 N  142.820 W   10 G              0.7    42  GULF OF ALASKA. ML 3.0 (AEIC), 2.8 (PGC).
26  00 14 09.9& 35.710 N   24.010 E   13                       7  CRETE. <ATH>. MD 3.6 (ATH).
26  00 26 53.5& 37.560 N    3.860 W   28                      20  SPAIN. <MDD>. mbLg 2.9 (MDD).
26  01 31 44.9* 38.440 N   26.702 E   10 G              1.3     8  AEGEAN SEA. MD 3.5 (ATH), 3.1 (ISK).
26  02 12 39.4* 28.899 N  139.197 E  469 ?  4.0        1.0    16  BONIN ISLANDS REGION
26  02 30 58.8* 31.992 N  140.915 E   73 *  4.2        0.5    16  SOUTH OF HONSHU, JAPAN
26  03 02 40.0* 83.766 N    3.534 W   10 G  4.4        1.3     9  NORTH OF SVALBARD
26  03 18 31.4*  8.543 N   83.198 W   33 N              0.6     7  COSTA RICA. MD 4.0 (CASC).
26  03 22 31.6& 36.980 N    3.790 W    4                       6  STRAIT OF GIBRALTAR. <MDD>. mbLg 2.2 (MDD).
26  04 01 25.4* 32.450 S   68.803 W   10 G              0.8    11  MENDOZA PROVINCE, ARGENTINA. MD 3.7 (GUC).
26  04 06 09.7* 32.455 S   68.844 W   10 G              0.7    12  MENDOZA PROVINCE, ARGENTINA. MD 3.8 (GUC).
26  04 10 37.6  83.869 N    2.259 W   10 G  4.3        0.9    26  NORTH OF SVALBARD
26  04 41 42.7& 33.233 S   72.049 W   14                      11  OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
26  04 52 05.3& 33.230 S   72.028 W   15                      13  OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
26  05 01 41.8& 16.021 N   98.135 W    4                       9  NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 4.0 (UNM).
26  05 13 07.8  40.756 N   20.651 E   10 G              1.2     6  GREECE-ALBANIA BORDER REGION. ML 2.8 (TIR).
26  05 26 49.6& 33.238 S   72.047 W   14                      13  OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.2 (GUC).
26  05 27 37.3& 44.404 N    6.994 E    9                      28  FRANCE. <GEN>. ML 2.6 (GEN), 2.3 (LDG), 2.0 (STR).
26  05 32 47.0& 58.860 N  137.330 W   10 G                     9  SOUTHEASTERN ALASKA. <PGC-P>. ML 4.0 (PGC), 3.9 (PMR).
26  06 13 29.4? 17.70  S  178.32  W  600 G  4.6        1.2    21  FIJI ISLANDS REGION
26  06 46 31.7& 11.273 N   62.219 W   26                       4  WINDWARD ISLANDS. <TRN>. MD 2.9 (TRN).
26  08 04 52.0* 18.280 S  177.867 W  450 G  4.9        1.1    47  FIJI ISLANDS REGION
26  08 29 37.3& 33.283 S   70.890 W   72                      13  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.3 (GUC).
26  08 53 45.6  20.566 N  146.344 E   56 ?  4.9 4.2      0.9    67  MARIANA ISLANDS REGION
26  08 55 00.5& 33.267 S   70.630 W   88                      11  CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.1 (GUC).
26  09 00 24.6* 18.687 S  177.831 W  650 G  4.5        0.9    25  FIJI ISLANDS REGION
26  09 18 51.8  37.139 N   27.856 E   10 G  4.2        1.0    47  TURKEY. MD 3.9 (ATH), 3.7 (ISK).
26  09 28 58.0   7.804 S   74.318 W  158 ?  4.3        0.6    26  PERU-BRAZIL BORDER REGION
26  09 44 13.3& 32.686 S   70.172 W  102                       9  CHILE-ARGENTINA BORDER REGION. <GUC>.
26  10 19 06.8& 34.010 S   71.993 W   36                      11  NEAR COAST OF CENTRAL CHILE. <GUC>.
26  10 25 03.7& 37.373 N   28.107 E    9                      12  TURKEY. <ISK>. MD 3.7 (ATH), 3.3 (ISK).
26  11 20 58.1& 16.854 N   60.935 W   30                       5  LEEWARD ISLANDS. <FDF>. MG 2.6 (FDF).
26  11 44 45.7& 39.080 N   27.372 E   10 G                     5  TURKEY. <ISK>. MD 2.6 (ISK).
26  11 50 18.5& 39.543 N   29.431 E   10 G                     4  TURKEY. <ISK>. MD 2.5 (ISK).
26  11 52 14.0& 33.347 S   68.101 W   10                      11  MENDOZA PROVINCE, ARGENTINA. <GUC>. MD 3.7 (GUC).
26  11 59 45.3& 39.234 N   28.084 E    7                       6  TURKEY. <ISK>. MD 2.7 (ISK).
26  12 04 53.3*  1.944 S  133.434 E   33 N  4.2        1.1    10  IRIAN JAYA REGION, INDONESIA
26  12 06 53.0  36.612 N   50.175 E   33 N  4.1        1.0    17  NORTHERN IRAN
26  12 19 17.9& 39.591 N   29.615 E   10                       6  TURKEY. <ISK>. MD 2.4 (ISK).
26  12 20 36.5& 33.231 S   72.031 W   11                      13  OFF COAST OF CENTRAL CHILE. <GUC>. MD 4.0 (GUC).
26  12 37 50.9& 33.844 S   71.585 W   45                       8  NEAR COAST OF CENTRAL CHILE. <GUC>.
26  12 49 49.3   6.802 S  127.008 E  400 G  4.4        0.8    21  BANDA SEA
26  13 02 41.2& 45.028 N    6.911 E    4                       4  FRANCE. <GEN>. ML 1.9 (GEN).
26  13 14 10.1& 39.587 N   29.469 E    9                       7  TURKEY. <ISK>. MD 2.7 (ISK).
26  13 33 07.6* 17.992 S  174.872 W  200 G  4.2        1.0    37  TONGA ISLANDS
26  13 38 53.0& 38.780 N  119.610 W    5                       9  CALIFORNIA-NEVADA BORDER REGION. <REN-P>. MD 2.6 (REN), 2.9
                                                                   (GM).
26  13 53 23.8& 58.429 N  151.718 W   24                      51  KODIAK ISLAND REGION. <AEIC>. ML 2.7 (AEIC).
26  14 27 44.8  57.932 S   25.639 W   76 *  4.9        0.9    40  SOUTH SANDWICH ISLANDS REGION. Mw 5.3 (HRV).
                                                                   Centroid, Moment Tensor (HRV): Centroid origin time
                                                                   14:27:48.4; Lat 57.95 S; Lon 24.95 W; Dep 46.2; Half-
                                                                   duration 1.1 sec; Principal axes (scale 10**17 Nm): (T)
                                                                   Val=1.14, Plg=71, Azm=237; (N) Val=-0.30, Plg=13, Azm=106;
                                                                   (P) Val=-0.84, Plg=14, Azm=13; Best double couple:
                                                                   Mo=9.9*10**16 Nm; NP1: Strike=86, Dip=33, Slip=66; NP2:
                                                                   Strike=294, Dip=60, Slip=105.
26  14 34 08.0  30.682 S   72.147 W   33 N  4.7        1.1    52  OFF COAST OF CENTRAL CHILE
26  14 34 09.5  24.883 N  122.738 E  151    4.4        1.0    37  TAIWAN REGION. Felt (I JMA) on Iriomote-jima and Ishigaki-
                                                                   jima, Ryukyu Islands.
26  14 46 33.8& 56.107 N  159.981 W  146                      14  ALASKA PENINSULA. <AEIC>.
26  15 29 32.5  22.515 N   45.181 W   10 G  5.1 5.0      1.0   131  NORTHERN MID-ATLANTIC RIDGE. Mw 5.3 (HRV).
                                                                   Centroid, Moment Tensor (HRV): Centroid origin time
                                                                   15:29:37.8; Lat 22.51 N Fix; Lon 45.18 W Fix; Dep 15.0 Fix;
                                                                   Half-duration 1.1 sec; Principal axes (scale 10**17 Nm):
                                                                   (T) Val=0.98, Plg=21, Azm=107; (N) Val=0.14, Plg=1,
                                                                   Azm=198; (P) Val=-1.12, Plg=69, Azm=292; Best double
                                                                   couple: Mo=1.1*10**17 Nm; NP1: Strike=195, Dip=24,
                                                                   Slip=-93; NP2: Strike=19, Dip=66, Slip=-88.
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26	15 51 29.4&	40.688	N	29.958	E	9					4	TURKEY. <ISK>. MD 2.4 (ISK).
26	16 01 17.8*	7.285	S	128.551	E	33	N	4.0		1.4	13	BANDA SEA
26	16 13 57.3*	7.143	S	128.765	E	33	N	4.1		1.5	12	BANDA SEA
26	16 33 08.2*	26.536	N	142.287	E	33	N	4.2		0.9	11	BONIN ISLANDS REGION
26	16 58 52.3&	44.354	N	7.303	E	13					5	NORTHERN ITALY. <GEN>. ML 1.8 (GEN).
26	18 13 28.1?	31.80	S	178.30	W	33	N	4.7		1.3	11	KERMADEC ISLANDS REGION
26	18 51 49.5&	32.482	S	71.808	W	13					9	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.3 (GUC).
26	18 58 41.0&	33.211	S	72.057	W	15					13	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.9 (GUC).
26	20 13 36.9&	35.910	N	3.780	W	15					19	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.8 (MDD).
26	20 20 19.3*	22.311	S	179.792	W	600	G	4.6		0.9	32	SOUTH OF FIJI ISLANDS
26	20 41 37.6*	9.812	N	93.942	E	26	D	4.0		1.1	10	NICOBAR ISLANDS, INDIA
26	23 24 11.7	37.146	N	70.395	E	33	N	4.8	4.2	1.3	60	AFGHANISTAN-TAJIKISTAN BORD REG.
27	00 01 59.8&	39.855	N	38.910	E	10	G				4	TURKEY. <ISK>. MD 3.3 (ISK).
27	01 15 58.1&	37.140	N	3.780	W	0	G				5	SPAIN. <MDD>. mbLg 1.9 (MDD).
27	02 06 36.8?	55.56	N	162.00	E	33	N			1.4	8	NEAR EAST COAST OF KAMCHATKA
27	02 45 37.4&	33.229	S	72.036	W	14					10	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.2 (GUC).
27	03 19 07.8*	12.991	N	93.364	E	49	D	3.9		1.0	14	ANDAMAN ISLANDS, INDIA
27	03 49 12.2	22.252	S	65.845	W	272	*	4.1		0.9	29	JUJUY PROVINCE, ARGENTINA
27	05 04 39.4?	25.56	N	129.17	E	33	N	3.5		1.3	10	SOUTHEAST OF RYUKYU ISLANDS
27	05 32 37.3&	46.650	N	112.076	W	1					13	MONTANA. <BUT-P>. MD 2.4 (BUT). Felt in the western part of the Helena Valley.
27	05 44 32.4&	15.802	N	60.663	W	20					5	LEEWARD ISLANDS. <FDF>. MG 2.7 (FDF).
27	05 59 39.9*	39.179	S	176.171	E	100	G			0.3	11	NORTH ISLAND, NEW ZEALAND
27	06 25 33.1*	51.469	N	16.188	E	5	G			0.6	6	POLAND. MG 2.7 (WAR).
27	06 38 10.3	40.654	N	33.078	E	10	G			1.0	7	TURKEY
27	06 38 21.5&	37.490	N	7.480	W	9					12	PORTUGAL. <MDD>. mbLg 2.8 (MDD).
27	06 38 33.8&	34.919	S	69.711	W	15					12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.6 (GUC).
27	06 58 06.3%	41.831	S	172.412	E	100	G			0.8	9	SOUTH ISLAND, NEW ZEALAND
27	07 20 46.0&	62.230	N	124.410	W	0	G	3.5			6	NORTHWEST TERRITORIES, CANADA. <PGC-P>. mbLg 3.6 (PGC).
27	07 38 47.4&	39.511	N	27.969	E	10	G				14	TURKEY. <ISK>. MD 3.1 (ISK).
27	07 50 42.1&	39.493	N	27.960	E	10	G				8	TURKEY. <ISK>. MD 2.7 (ISK).
27	08 03 45.0	9.682	S	112.790	E	33	N	5.7	5.0	1.1	135	SOUTH OF JAWA, INDONESIA. Mw 5.6 (GS), 5.5 (HRV). Moment Tensor (GS): Dep 16; Principal axes (scale 10**17 Nm): (T) Val=2.66, Plg=33, Azm=56; (N) Val=-0.06, Plg=26, Azm=165; (P) Val=-2.61, Plg=45, Azm=285; Best double couple: Mo=2.6*10**17 Nm; NP1: Strike=91, Dip=27, Slip=-166; NP2: Strike=348, Dip=84, Slip=-64. Centroid, Moment Tensor (HRV): Centroid origin time 08:03:42.5; Lat 9.79 S; Lon 112.96 E; Dep 29.9; Half-duration 1.4 sec; Principal axes (scale 10**17 Nm): (T) Val=1.91, Plg=26, Azm=70; (N) Val=0.32, Plg=10, Azm=165; (P) Val=-2.23, Plg=62, Azm=275; Best double couple: Mo=2.1*10**17 Nm; NP1: Strike=136, Dip=21, Slip=-120; NP2: Strike=348, Dip=72, Slip=-79.
27	08 26 56.1&	35.051	N	32.359	E	8					6	CYPRUS REGION. <CSS>. ML 3.0 (CSS).
27	08 41 39.0*	38.233	N	68.164	E	33	N	3.7		1.5	9	TAJIKISTAN
27	09 21 42.8	3.893	S	131.219	E	33	N	4.5		0.8	17	IRIAN JAYA REGION, INDONESIA
27	10 05 35.1?	46.33	N	15.41	E	10	G			0.2	4	NORTHWESTERN BALKAN REGION. ML 1.8 (LJU).
27	10 15 47.6?	6.57	S	155.08	E	33	N	4.0		0.4	6	SOLOMON ISLANDS
27	10 20 05.8	38.443	N	68.598	E	33	N	4.3		1.2	34	TAJIKISTAN
27	10 40 22.8&	34.893	S	71.119	W	94					12	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.2 (GUC).
27	10 41 03.6	45.947	N	14.863	E	10	G			0.5	8	NORTHWESTERN BALKAN REGION. ML 2.4 (VIE).
27	10 44 45.5*	17.821	S	178.258	W	650	G	4.1		0.7	15	FIJI ISLANDS REGION
27	10 45 25.3&	43.600	N	5.000	E	4					5	NEAR SOUTH COAST OF FRANCE. <LDG>. ML 2.2 (LDG).
27	11 13 34.1	40.045	S	71.747	W	33	N	5.2	5.1	1.0	85	S. CHILE-ARGENTINA BORDER REGION. Mw 5.5 (HRV). Felt (IV) at Tolten and Valdivia; (III) at Carahue, Gorbea, Lautaro, Llanquihue, Loncoche, Nueva Imperial, Osorno, Pitrufquen, Pucon, Temuco, Victoria and Villarrica, Chile. Centroid, Moment Tensor (HRV): Centroid origin time 11:13:35.6; Lat 40.32 S; Lon 71.85 W; Dep 15.0 Fix; Half-duration 1.2 sec; Principal axes (scale 10**17 Nm): (T) Val=1.97, Plg=17, Azm=132; (N) Val=-0.28, Plg=71, Azm=282; (P) Val=-1.69, Plg=9, Azm=39; Best double couple: Mo=1.8*10**17 Nm; NP1: Strike=174, Dip=72, Slip=174; NP2: Strike=266, Dip=85, Slip=18.
27	11 37 12.1&	16.846	N	98.938	W	71					4	NEAR COAST OF GUERRERO, MEXICO. <UNM>. MD 3.5 (UNM).
27	11 53 12.3*	36.117	N	139.904	E	101	*	3.7		0.7	12	EASTERN HONSHU, JAPAN
27	12 44 17.3	3.857	S	131.430	E	25		5.2	5.5	1.1	76	IRIAN JAYA REGION, INDONESIA. Mw 5.6 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 12:44:20.8; Lat 3.91 S Fix; Lon 131.68 E Fix; Dep 17.2 Fix; Half-duration 1.5 sec; Principal axes (scale 10**17 Nm): (T) Val=2.46, Plg=63, Azm=238; (N) Val=-0.19, Plg=7, Azm=342; (P) Val=-2.27, Plg=26, Azm=76; Best double couple: Mo=2.4*10**17 Nm; NP1: Strike=183, Dip=20, Slip=111; NP2: Strike=340, Dip=72, Slip=83.
27	12 45 32.3&	40.858	N	27.829	E	10	G				7	TURKEY. <ISK>. MD 2.8 (ISK).
27	12 58 13.8&	36.671	N	121.295	W	6					8	CENTRAL CALIFORNIA. <GM-P>. MD 3.5 (GM).
27	12 59 44.4*	36.553	N	70.823	E	226	?	4.2		1.2	18	HINDU KUSH REGION, AFGHANISTAN
27	13 00 28.1&	36.667	N	121.289	W	6					15	CENTRAL CALIFORNIA. <GM-P>. MD 3.2 (GM).
27	13 01 23.0%	42.966	S	171.891	E	10	G			1.4	7	SOUTH ISLAND, NEW ZEALAND. ML 3.7 (WEL).
27	13 01 42.3?	38.58	S	47.82	E	33	N	4.5		1.3	9	SOUTHWEST INDIAN RIDGE
27	13 06 37.8*	4.357	S	130.991	E	33	N	3.9		1.2	7	BANDA SEA
27	13 07 00.7&	36.940	N	4.190	W	14					7	STRAIT OF GIBRALTAR. <MDD>. mbLg 2.2 (MDD).
27	13 35 40.9	51.389	N	174.618	E	33	N	3.9		0.8	18	NEAR ISLANDS, ALEUTIAN ISLANDS
27	13 42 25.3	34.785	N	33.193	E	61		3.3		1.0	22	CYPRUS REGION. MD 3.6 (ISK).
27	14 26 30.4&	39.351	N	28.181	E	9					7	TURKEY. <ISK>. MD 2.8 (ISK).
27	14 42 23.9*	28.683	S	71.416	W	54	?	4.0		1.0	27	NEAR COAST OF CENTRAL CHILE
27	15 44 12.3?	26.01	S	176.56	W	200	G	4.2		1.1	13	SOUTH OF FIJI ISLANDS
27	16 19 18.8&	36.180	N	27.370	E	32					10	DODECANESE ISLANDS. <ATH>. MD 3.8 (ATH), 3.4 (ISK).
27	16 37 05.5	34.061	N	138.899	E	40	*	4.8		1.0	68	NEAR S. COAST OF HONSHU, JAPAN. Felt (IV JMA) on Kozu-shima, (III JMA) on Miyake-jima and (II JMA) on Nii-jima. Also felt (II JMA) in parts of Nagano, Shizuoka and Yamanashi Prefectures, Honshu.

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27  16 48 34.4  44.593 N  146.647 E  119 D  4.4        0.8   28  KURIL ISLANDS
27  17 08 44.5? 30.85  S   71.74  W   33 N             0.4   13  NEAR COAST OF CENTRAL CHILE. MD 4.3 (GUC).
27  17 50 11.3& 40.348 N   26.225 E   10 G                    7  TURKEY. <ISK>. MD 3.0 (ISK).
27  18 04 43.5*  3.931 N    8.798 E   10 G  4.8        1.2   11  OFF S. COAST OF NORTHWEST AFRICA
27  18 35 48.3  48.940 N   92.055 E   33 N  4.6        1.0   29  MONGOLIA
27  18 44 10.6? 51.89  N  178.59  E   33 N  3.7        1.6    8  RAT ISLANDS, ALEUTIAN ISLANDS
27  19 03 56.1   3.853 N    8.628 E   10 G  4.7        0.8   11  OFF S. COAST OF NORTHWEST AFRICA
27  19 09 32.6& 44.127 N    7.142 E   11                     23  NORTHERN ITALY. <GEN>. ML 2.2 (GEN), 1.9 (STR), 1.9 (LDG).
27  19 35 15.4& 38.823 N   26.663 E   10 G                    6  AEGEAN SEA. <ISK>. MD 3.0 (ISK).
27  20 04 52.9& 34.497 S   70.395 W    6 G                    9  CHILE-ARGENTINA BORDER REGION. <GUC>.
27  20 40 21.0& 33.568 S   71.587 W   30                     10  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.1 (GUC).
27  20 48 03.1& 37.633 N  118.872 W    5                      9  CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.1 (GM).
27  20 48 50.3  51.634 N   16.220 E    5 G            0.7   23  POLAND. ML 3.4 (VIE).
27  21 02 46.2* 56.799 S  141.051 W   10 G  4.9        1.0   18  PACIFIC-ANTARCTIC RIDGE. Mw 5.8 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                21:02:55.8; Lat 56.90 S; Lon 140.96 W; Dep 15.0 Fix; Half-
                                                                duration 2.4 sec; Principal axes (scale 10**17 Nm): (T)
                                                                Val=5.06, Plg=6, Azm=159; (N) Val=-0.48, Plg=77, Azm=43;
                                                                (P) Val=-4.57, Plg=12, Azm=250; Best double couple:
                                                                Mo=4.8*10**17 Nm; NP1: Strike=294, Dip=78, Slip=-4; NP2:
                                                                Strike=25, Dip=86, Slip=-167.
27  21 04 28.8& 38.591 N   26.538 E   10 G                    7  AEGEAN SEA. <ISK>. MD 3.1 (ISK).
27  21 06 51.3* 42.061 N  125.607 W   10 G  3.0        0.9   14  OFF COAST OF OREGON
27  21 35 40.8  51.575 N   16.245 E    5 G            0.8   13  POLAND. ML 3.3 (VIE).
27  22 09 23.3% 30.740 S  124.338 E   10 G            0.8    8  WESTERN AUSTRALIA
27  22 32 45.2*  3.928 N    8.777 E   10 G  4.7        1.3    8  OFF S. COAST OF NORTHWEST AFRICA
27  22 35 35.9  40.646 N   33.098 E   10 G            0.9    8  TURKEY
27  22 51 20.7? 34.56  N   82.37  E   33 N  3.5        1.2    6  XIZANG
27  23 10 08.9& 37.943 N   28.691 E    5    3.9               33  TURKEY. <ISK>. MD 4.0 (ATH), 3.8 (ISK).
27  23 19 52.7* 27.715 N  128.845 E   10 G  4.6        1.1   12  RYUKYU ISLANDS
28  00 12 06.4& 33.734 N  117.061 W   12                     27  SOUTHERN CALIFORNIA. <PAS-P>. ML 3.4 (PAS).
28  00 18 28.0  34.068 N   26.150 E   33 N  3.9        1.2   40  CRETE. MD 3.9 (ATH).
28  00 45 05.4% 39.363 S  174.160 E  250 G            0.4   11  NORTH ISLAND, NEW ZEALAND
28  01 08 55.9* 51.649 N  177.900 W   33 N  4.0        1.3   24  ANDREANOF ISLANDS, ALEUTIAN IS.
28  01 11 29.5? 13.34  N   91.57  W   33 N  3.7        1.2   15  NEAR COAST OF GUATEMALA
28  01 17 13.4* 85.343 N   87.813 E   10 G  4.0        1.5   11  NORTH OF SEVERNAYA ZEMLYA
28  01 19 28.5  40.640 N   33.023 E   10 G            0.4    6  TURKEY
28  01 21 12.3* 86.060 N   77.616 E   10 G            0.6    9  NORTH OF SEVERNAYA ZEMLYA
28  01 35 52.0& 45.670 N   16.010 E   13                      7  NORTHWESTERN BALKAN REGION. <ZAG>. ML 2.3 (VIE), 2.2 (ZAG).
28  01 57 48.7? 49.10  S  124.80  E   10 G  4.2        1.4   11  SOUTH OF AUSTRALIA
28  01 58 27.2? 31.10  S   68.94  W  100 G            0.5   10  SAN JUAN PROVINCE, ARGENTINA. MD 3.8 (GUC).
28  02 12 03.5& 46.200 N    7.600 E   10                     22  SWITZERLAND. <LDG>. ML 2.2 (LDG), 2.1 (STR).
28  02 23 23.4  51.660 N   16.068 E    5 G  3.5        1.0   30  POLAND. ML 4.0 (GRF), 3.6 (VIE), 3.6 (FUR).
28  02 49 14.3*  8.941 S  152.989 E   33 N  4.0        0.9   12  D'ENTRECASTEAUX ISLANDS REGION
28  03 14 03.5?  5.34  N  121.63  E   33 N  4.3        1.0   11  CELEBES SEA
28  04 11 56.4& 45.800 N    7.100 E    2                     11  NORTHERN ITALY. <LDG>. ML 2.0 (LDG).
28  04 40 04.0& 44.509 N    6.812 E    2                     25  FRANCE. <GEN>. ML 2.3 (GEN), 2.3 (STR), 1.9 (LDG).
28  05 02 52.0*  5.729 S  102.869 E   33 N  4.6        1.2   23  SOUTHERN SUMATERA, INDONESIA
28  05 33 45.3*  5.683 S  102.893 E   33 N  4.7 4.6    1.0   40  SOUTHERN SUMATERA, INDONESIA
28  05 35 52.0& 37.695 N   28.889 E   13                      4  TURKEY. <ISK>. MD 2.9 (ISK).
28  06 07 20.5  52.641 N   34.698 W   10 G  4.7 4.7     1.2   66  NORTH ATLANTIC OCEAN. Mw 5.4 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                06:07:27.3; Lat 53.02 N; Lon 34.31 W; Dep 15.0 Fix; Half-
                                                                duration 1.2 sec; Principal axes (scale 10**17 Nm): (T)
                                                                Val=1.62, Plg=11, Azm=226; (N) Val=-0.22, Plg=61, Azm=338;
                                                                (P) Val=-1.40, Plg=26, Azm=130; Best double couple:
                                                                Mo=1.5*10**17 Nm; NP1: Strike=271, Dip=63, Slip=-169; NP2:
                                                                Strike=176, Dip=80, Slip=-27.
28  06 23 44.4? 30.78  S   71.73  W   33 N            0.3   11  NEAR COAST OF CENTRAL CHILE. MD 4.1 (GUC).
28  06 39 39.3& 60.810 N  146.740 W   15    3.2               65  SOUTHERN ALASKA. <AEIC>. ML 3.3 (AEIC), 3.5 (PMR).
28  07 10 18.0& 58.870 N  154.470 W  125                     66  ALASKA PENINSULA. <AEIC>.
28  07 54 45.5& 34.524 S   71.221 W   64                      7  NEAR COAST OF CENTRAL CHILE. <GUC>.
28  08 28 08.4  83.951 N    1.477 W   10 G  4.6        0.9  100  NORTH OF SVALBARD
28  08 28 27.2  83.882 N    1.223 W   10 G  4.8 4.9     0.9   41  NORTH OF SVALBARD. Mw 5.1 (HRV).
                                                               Centroid, Moment Tensor (HRV): Centroid origin time
                                                                08:28:26.6; Lat 83.88 N Fix; Lon 1.22 W Fix; Dep 15.0 Fix;
                                                                Half-duration 1.1 sec; Principal axes (scale 10**16 Nm):
                                                                (T) Val=4.89, Plg=13, Azm=124; (N) Val=0.38, Plg=32,
                                                                Azm=222; (P) Val=-5.27, Plg=55, Azm=15; Best double couple:
                                                                Mo=5.1*10**16 Nm; NP1: Strike=179, Dip=42, Slip=-141; NP2:
                                                                Strike=59, Dip=65, Slip=-54.
28  08 39 33.1  84.040 N    2.302 W   10 G  4.7 4.7     1.3   51  NORTH OF SVALBARD
28  08 46 58.0  11.124 S  162.458 E  100 G  5.0        1.2   54  SOLOMON ISLANDS
28  08 49 44.5& 38.660 N   26.555 E    5                      6  AEGEAN SEA. <ISK>. MD 2.8 (ISK).
28  09 04 05.1* 36.568 N   70.375 E  200 G  3.5        0.8   11  HINDU KUSH REGION, AFGHANISTAN
28  09 04 09.8*  3.850 N  126.444 E   33 N  4.5        1.0   23  TALAUD ISLANDS, INDONESIA
28  09 14 39.7  52.613 N   34.827 W   10 G  4.6 4.3     1.2   85  NORTH ATLANTIC OCEAN
28  09 30 33.3* 21.508 N  143.079 E  300 G  3.9        0.7   13  MARIANA ISLANDS REGION
28  09 56 48.3& 40.733 N   33.079 E   10 G                   12  TURKEY. <ISK>. MD 3.3 (ISK).
28  10 30 17.0& 15.373 N   60.781 W   28                      7  LEEWARD ISLANDS. <FDF>. MG 2.5 (FDF).
28  10 46 29.5  37.722 N   19.937 E   33 N  4.0        1.3   64  IONIAN SEA. ML 4.2 (ROM), 4.1 (ATH), 4.1 (TIR), 4.0 (PDG).
28  11 30 53.4& 60.160 N  152.750 W   97                     53  SOUTHERN ALASKA. <AEIC>.
28  11 45 42.3& 39.413 N   27.698 E    9                      7  TURKEY. <ISK>. MD 2.7 (ISK).
28  12 40 42.4& 40.561 N   29.084 E   10 G                    4  TURKEY. <ISK>. MD 2.5 (ISK).
28  12 50 53.5  38.138 N   20.193 E   10 G  3.9        1.2   33  GREECE. ML 4.2 (TIR), 3.8 (PDG), 3.7 (ATH).
28  13 05 33.5? 27.88  S  177.22  W  200 G  4.3        1.4   12  KERMADEC ISLANDS REGION
28  13 25 32.7& 39.402 N   27.651 E    5                      9  TURKEY. <ISK>. MD 2.8 (ISK).
28  13 40 09.6   1.528 N  127.221 E  100 G  4.8        0.9   29  HALMAHERA, INDONESIA
28  13 53 57.6  40.672 N   33.046 E   10 G  3.9        0.9   28  TURKEY. MD 3.9 (ISK).
28  14 21 25.1* 43.753 N  146.176 E   33 N  4.0        1.1   13  KURIL ISLANDS
28  14 25 27.9& 32.484 S   71.656 W   37                      7  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.5 (GUC).
28  14 29 34.8& 34.544 N   31.988 E   25                      6  CYPRUS REGION. <CSS>. ML 3.1 (CSS).
28  14 31 33.7  51.649 N   16.210 E    5 G  3.6        0.7   27  POLAND. ML 4.0 (GRF), 3.7 (VIE), 3.7 (FUR).
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28  14 40 57.1& 34.527 N   31.988 E   25                      6  CYPRUS REGION. <CSS>. ML 2.6 (CSS).
28  15 45 15.0* 27.728 N  130.011 E   33 N  3.5       1.4    9  RYUKYU ISLANDS
28  16 19 55.1  34.138 N   25.715 E   10 G  4.7 4.8   1.1  220  CRETE. ML 4.4 (ATH).
28  16 24 25.1* 34.255 N   25.985 E   10 G            1.2   16  CRETE. MD 3.8 (ATH).
28  16 34 19.7* 12.324 S   14.783 W   10 G  4.7 4.2   0.9   30  SOUTHERN MID-ATLANTIC RIDGE
28  16 36 50.0* 34.388 N   26.039 E   10 G            1.2    9  CRETE. MD 3.9 (ATH).
28  16 44 02.4* 23.451 S   69.573 W  100 G  3.9       1.3   15  NORTHERN CHILE
28  17 14 23.5& 44.350 N    7.295 E   13                     8  NORTHERN ITALY. <GEN>. ML 2.0 (GEN).
28  17 32 35.6& 39.900 N   22.010 E    5                     7  GREECE. <ATH>. MD 3.0 (ATH).
28  17 32 54.2& 59.730 N  148.690 W   14                    71  KENAI PENINSULA, ALASKA. <AEIC>. ML 3.0 (AEIC).
28  18 15 56.9& 32.013 S   71.549 W   38                    10  NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.6 (GUC).
28  18 33 17.0& 58.790 N  153.030 W   60                    36  KODIAK ISLAND REGION. <AEIC>. ML 3.0 (AEIC).
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). 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.
                                                                Broadband Source Parameters (GS): Dep 15; NP1: Strike=107,
                                                                 Dip=77, Slip=90; NP2: Strike=287, Dip=13, Slip=90; Radiated
                                                                 energy 1.7*10**14 Nm.
                                                                Moment Tensor (GS): Dep 7; Principal axes (scale 10**18 Nm):
                                                                 (T) Val=7.63, Plg=53, Azm=27; (N) Val=0.00, Plg=5, Azm=290;
                                                                 (P) Val=-7.63, Plg=37, Azm=196; Best double couple:
                                                                 Mo=7.6*10**18 Nm; NP1: Strike=257, Dip=10, Slip=57; NP2:
                                                                 Strike=111, Dip=82, Slip=95.
                                                                Centroid, Moment Tensor (HRV): Centroid origin time
                                                                 19:05:18.1; Lat 30.38 N; Lon 79.21 E; Dep 15.0 Fix; Half-
                                                                 duration 4.7 sec; Principal axes (scale 10**18 Nm): (T)
                                                                 Val=7.51, Plg=52, Azm=27; (N) Val=0.52, Plg=2, Azm=295; (P)
                                                                 Val=-8.03, Plg=38, Azm=203; Best double couple:
                                                                 Mo=7.8*10**18 Nm; NP1: Strike=280, Dip=7, Slip=75; NP2:
                                                                 Strike=115, Dip=83, Slip=92.
                                                                Moment Tensor (CSEM): Dep 15; Principal axes: (T) Plg=36,
                                                                 Azm=60; (N) Plg=49, Azm=274; (P) Plg=17, Azm=163; Best
                                                                 double couple: Mo=1.0*10**19 Nm; NP1: Strike=108, Dip=78,
                                                                 Slip=140; NP2: Strike=208, Dip=51, Slip=16.
28  19 12 17.5& 40.530 N    0.780 W   10                     6  SPAIN. <MDD>. mbLg 1.9 (MDD).
28  19 29 58.0& 40.473 N   28.846 E   10                     6  TURKEY. <ISK>. MD 2.6 (ISK).
28  19 29 59.9* 25.081 N  125.439 E   33 N  3.5       0.9   11  SOUTHWESTERN RYUKYU ISLANDS. Felt (I JMA) on Miyako-jima.
28  19 31 25.7& 40.452 N   28.869 E   10 G                   6  TURKEY. <ISK>. MD 2.6 (ISK).
28  19 36 05.5  30.315 N   79.387 E   10 G  5.4       1.0  157  XIZANG-INDIA BORDER REGION
28  19 37 00.3& 15.315 N   61.246 W  161                     4  LEEWARD ISLANDS. <FDF>. MG 2.8 (FDF).
28  19 47 04.5  30.342 N   79.310 E   10 G  4.7       0.7   80  XIZANG-INDIA BORDER REGION
28  19 49 27.2& 38.850 N   20.500 E    5                    19  GREECE. <ATH>. ML 3.7 (ATH).
28  19 50 02.0& 40.833 N   28.126 E    5                     9  TURKEY. <ISK>. MD 3.1 (ISK).
28  20 12 34.8*  3.701 N    8.728 E   10 G  4.8       0.8    9  OFF S. COAST OF NORTHWEST AFRICA
28  20 16 37.4  51.571 N   16.226 E    5 G            0.9   12  POLAND. ML 3.2 (VIE).
28  20 19 46.6& 46.200 N    7.500 E    6                     6  SWITZERLAND. <LDG>. ML 1.8 (LDG).
28  20 38 52.1*  3.827 N    8.764 E   10 G  4.9       0.7   12  OFF S. COAST OF NORTHWEST AFRICA
28  20 39 59.6* 45.691 N   14.902 E   10 G            0.3    5  NORTHWESTERN BALKAN REGION. ML 2.1 (VIE).
28  21 32 29.6  85.682 N   85.736 E   10 G  4.4       1.1   25  NORTH OF SEVERNAYA ZEMLYA
28  21 33 44.0  85.644 N   86.259 E   10 G  5.0 5.1   1.0  142  NORTH OF SEVERNAYA ZEMLYA. Mw 5.8 (HRV).
                                                                Centroid, Moment Tensor (HRV): Centroid origin time
                                                                 21:33:44.0; Lat 85.19 N; Lon 85.85 E; Dep 15.0 Fix; Half-
                                                                 duration 1.4 sec; Principal axes (scale 10**17 Nm): (T)
                                                                 Val=5.59, Plg=27, Azm=36; (N) Val=-0.11, Plg=13, Azm=299;
                                                                 (P) Val=-5.48, Plg=60, Azm=186; Best double couple:
                                                                 Mo=5.5*10**17 Nm; NP1: Strike=155, Dip=22, Slip=-52; NP2:
                                                                 Strike=295, Dip=73, Slip=-104.
28  21 47 22.9* 85.707 N   88.262 E   10 G  4.0       1.1    8  NORTH OF SEVERNAYA ZEMLYA
28  21 53 20.1  40.618 N   33.053 E   10 G            0.4    8  TURKEY
28  22 23 35.6  51.599 N  177.410 W   33 N  4.7       1.3   82  ANDREANOF ISLANDS, ALEUTIAN IS. ML 5.2 (PMR).
28  22 36 40.0  37.000 S  178.355 E  194 *  4.5       1.3   35  OFF E. COAST OF N. ISLAND, N.Z.
28  22 39 42.7  39.591 N   20.559 E   10 G  3.5       1.5   20  GREECE-ALBANIA BORDER REGION. ML 3.8 (ATH).
28  22 43 01.7& 40.648 N   33.165 E   10 G                  13  TURKEY. <ISK>. MD 3.3 (ISK).
28  23 04 35.4* 30.357 N   79.481 E   10 G  4.4       0.9   27  XIZANG-INDIA BORDER REGION
28  23 20 26.3* 30.385 N   79.494 E   10 G  4.5       1.1   12  XIZANG-INDIA BORDER REGION
28  23 27 51.5& 38.730 N   21.570 E    5                     7  GREECE. <ATH>. ML 3.2 (ATH).
28  23 31 48.7?  9.61  S  121.90  E   33 N  4.2       1.3   13  SAVU SEA
28  23 38 33.4& 36.550 N    2.870 W   16                    20  STRAIT OF GIBRALTAR. <MDD>. mbLg 2.9 (MDD). Felt (III) at
                                                                 Adra, Spain.
29  00 08 56.8& 36.610 N    2.890 W    5                     9  STRAIT OF GIBRALTAR. <MDD>. mbLg 1.7 (MDD).
29  00 22 41.9* 29.922 N   79.491 E   10 G            1.1    9  NORTHERN INDIA
29  00 43 06.2& 39.590 N   20.070 E   15                     5  GREECE-ALBANIA BORDER REGION. <ATH>. MD 3.0 (ATH).
29  00 47 54.7& 40.387 N   28.849 E   10 G                   4  TURKEY. <ISK>. MD 2.6 (ISK).
29  01 14 26.2  34.204 N   25.794 E   10 G  4.1       1.4   45  CRETE. MD 3.9 (ATH).
29  01 27 09.3  14.433 N   88.399 W   33 N  5.1 4.3   0.8  188  HONDURAS. Felt at Tegucigalpa. Also felt at San Salvador, El
                                                                 Salvador.
29  01 28 58.0& 48.000 N    7.500 E   10                    28  FRANCE. <LDG>. ML 2.2 (LDG), 1.9 (FBB), 1.6 (STR).
29  01 39 10.4& 36.040 N    4.640 W   98                    17  STRAIT OF GIBRALTAR. <MDD>.
29  01 43 35.8  10.688 S  161.338 E   33 N  5.0 5.4   1.0   67  SOLOMON ISLANDS. Mw 5.6 (HRV).
                                                                Centroid, Moment Tensor (HRV): Centroid origin time
                                                                 01:43:38.7; Lat 10.91 S; Lon 161.45 E; Dep 19.2; Half-
                                                                 duration 1.8 sec; Principal axes (scale 10**17 Nm): (T)
                                                                 Val=3.01, Plg=65, Azm=5; (N) Val=-0.16, Plg=2, Azm=99; (P)
                                                                 Val=-2.85, Plg=24, Azm=190; Best double couple:
                                                                 Mo=2.9*10**17 Nm; NP1: Strike=283, Dip=21, Slip=94; NP2:
                                                                 Strike=98, Dip=69, Slip=88.
29  01 46 07.2& 63.050 N  150.737 W  120    2.7              63  CENTRAL ALASKA. <AEIC>.
29  01 56 24.1& 36.492 N   71.223 E  100 G            0.4    7  AFGHANISTAN-TAJIKISTAN BORD REG.
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29	02	40	53.4&	33.678	S	70.579	W	94					13	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.3 (GUC).
29	02	57	24.8?	33.43	N	25.10	E	10	G	3.9		1.4	18	EASTERN MEDITERRANEAN SEA
29	03	21	07.3&	38.080	N	22.090	E	39					7	GREECE. <ATH>. MD 3.1 (ATH).
29	03	37	50.1&	40.652	N	29.079	E	10	G				4	TURKEY. <ISK>. MD 2.5 (ISK).
29	03	37	53.2&	46.100	N	7.500	E	2					5	SWITZERLAND. <LDG>. ML 1.6 (LDG).
29	04	00	39.0	29.611	N	51.493	E	33	N	4.7	4.1	0.9	94	SOUTHERN IRAN
29	04	05	07.2	37.133	N	28.801	E	33	N	4.2		1.4	83	TURKEY. ML 4.5 (ATH), 4.3 (CSS). MD 4.1 (ISK).
29	04	19	57.0?	48.62	S	107.36	E	10	G	4.8		1.2	14	SOUTHEAST INDIAN RIDGE
29	04	43	06.7?	30.63	N	113.27	W	10	G	4.2		1.0	6	GULF OF CALIFORNIA
29	04	54	56.9&	33.493	S	70.759	W	84					11	CHILE-ARGENTINA BORDER REGION. <GUC>.
29	05	07	22.3&	34.153	S	71.316	W	61					9	NEAR COAST OF CENTRAL CHILE. <GUC>.
29	05	45	55.7&	37.130	N	6.010	W	15					13	SPAIN. <MDD>. mbLg 2.8 (MDD).
29	06	17	58.4	3.996	S	87.284	E	10	G	5.4	5.5	0.9	252	SOUTH INDIAN OCEAN. Mw 5.8 (GS), 5.8 (HRV). Moment Tensor (GS): Dep 24; Principal axes (scale 10**17 Nm): (T) Val=6.16, Plg=10, Azm=71; (N) Val=0.97, Plg=75, Azm=201; (P) Val=-7.13, Plg=11, Azm=339; Best double couple: Mo=6.6*10**17 Nm; NP1: Strike=115, Dip=75, Slip=-179; NP2: Strike=25, Dip=89, Slip=-15. Centroid, Moment Tensor (HRV): Centroid origin time 06:18:03.3; Lat 4.12 S; Lon 87.11 E; Dep 15.0 Fix; Half-duration 2.0 sec; Principal axes (scale 10**17 Nm): (T) Val=4.80, Plg=33, Azm=84; (N) Val=3.12, Plg=47, Azm=217; (P) Val=-7.92, Plg=25, Azm=337; Best double couple: Mo=6.4*10**17 Nm; NP1: Strike=118, Dip=47, Slip=174; NP2: Strike=212, Dip=86, Slip=43.
29	06	47	38.1*	30.503	N	113.466	W	10	G	4.4		1.1	15	GULF OF CALIFORNIA
29	08	49	44.5*	30.213	N	79.245	E	10	G	4.6		1.1	23	XIZANG-INDIA BORDER REGION
29	09	21	54.0&	32.948	S	71.031	W	64					13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 2.6 (GUC).
29	09	38	49.0&	45.870	N	15.960	E	18					8	NORTHWESTERN BALKAN REGION. <ZAG>. ML 2.4 (VIE), 2.1 (ZAG), 2.0 (LJU).
29	10	03	37.2*	23.439	S	179.595	E	600	G	4.3		0.6	16	SOUTH OF FIJI ISLANDS
29	10	18	05.5*	41.466	S	172.206	E	10	G			0.9	12	SOUTH ISLAND, NEW ZEALAND. ML 4.2 (WEL). Felt at Westport.
29	11	36	12.6*	6.790	S	154.957	E	100	G	4.0		1.3	12	SOLOMON ISLANDS
29	12	52	27.0	40.627	N	33.034	E	10	G			0.2	6	TURKEY
29	12	56	07.0	59.037	S	25.741	W	33	N	4.6		0.5	27	SOUTH SANDWICH ISLANDS REGION
29	13	18	54.4	85.644	N	86.096	E	10	G	4.7	4.5	0.9	62	NORTH OF SEVERNAYA ZEMLYA
29	13	20	57.4*	30.286	N	79.286	E	10	G	4.6		1.2	19	XIZANG-INDIA BORDER REGION
29	13	33	59.7	85.594	N	85.945	E	10	G	4.1		0.8	15	NORTH OF SEVERNAYA ZEMLYA
29	14	06	23.2	37.259	N	27.917	E	10	G			1.0	18	TURKEY. MD 3.8 (ATH), 3.4 (ISK).
29	14	43	40.1?	23.82	S	179.88	W	500	G	4.3		1.1	21	SOUTH OF FIJI ISLANDS
29	14	49	36.5&	33.000	N	80.200	W	5	G				7	SOUTH CAROLINA. <MACRO>. mbLg 2.9 (GS). Felt at Goose Creek and Summerville.
29	14	53	40.6*	12.907	S	166.810	E	100	G	4.3		1.3	16	SANTA CRUZ ISLANDS
29	15	05	54.2*	56.296	N	34.702	W	10	G	4.6		0.9	19	NORTH ATLANTIC OCEAN
29	15	46	02.6&	4.617	N	75.634	W	4					5	COLOMBIA. <RSNC>. ML 2.7 (RSNC).
29	15	47	40.6	56.613	N	34.658	W	10	G	4.5		1.2	49	NORTH ATLANTIC OCEAN
29	16	36	13.7*	18.080	S	177.988	W	600	G	4.3		1.0	24	FIJI ISLANDS REGION
29	16	38	23.5&	44.900	N	7.100	E	2					4	NORTHERN ITALY. <LDG>. ML 1.5 (LDG).
29	16	41	02.9*	21.987	N	143.038	E	300	G	3.6		0.9	23	MARIANA ISLANDS REGION
29	17	00	59.3&	37.050	N	20.970	E	5					5	IONIAN SEA. <ATH>. MD 3.3 (ATH).
29	18	15	01.2*	44.001	N	16.839	E	10	G			0.4	7	NORTHWESTERN BALKAN REGION. ML 2.4 (LJU).
29	18	26	55.9?	16.14	N	93.40	W	121	D	4.2		1.0	9	CHIAPAS, MEXICO. MD 4.3 (UNM).
29	18	40	48.7	43.939	N	16.205	E	10	G			1.1	17	NORTHWESTERN BALKAN REGION. ML 3.2 (VIE), 3.2 (PDG).
29	19	01	59.1&	54.159	N	164.085	W	65					19	UNIMAK ISLAND REGION. <AEIC>. ML 2.9 (AEIC).
29	19	02	31.1&	34.070	S	70.097	W	6					12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.8 (GUC).
29	19	17	48.6&	59.821	N	153.422	W	129					67	SOUTHERN ALASKA. <AEIC>.
29	19	41	54.4&	11.171	N	61.897	W	53					4	WINDWARD ISLANDS. <TRN>. MD 2.7 (TRN).
29	19	59	45.0&	44.171	N	7.196	E	13					4	NORTHERN ITALY. <GEN>. ML 1.7 (GEN).
29	20	01	32.9*	2.592	S	139.305	E	100	G	4.0		0.6	9	NEAR NORTH COAST OF IRIAN JAYA
29	20	27	52.3&	16.915	N	95.294	W	147					4	OAXACA, MEXICO. <UNM>. MD 3.7 (UNM).
29	20	39	11.9*	33.449	S	68.204	W	10	G			0.7	13	MENDOZA PROVINCE, ARGENTINA. MD 4.0 (GUC).
29	21	03	48.9&	37.690	N	20.900	E	5					4	IONIAN SEA. <ATH>. MD 2.9 (ATH).
29	21	05	42.9&	34.059	S	70.071	W	3					9	CHILE-ARGENTINA BORDER REGION. <GUC>.
29	21	29	19.7?	15.16	S	176.01	W	100	G	4.2		1.5	15	FIJI ISLANDS REGION
29	21	38	22.6*	56.381	N	109.489	E	10	G	3.4		1.0	8	LAKE BAYKAL REGION, RUSSIA
29	21	54	16.4	58.749	S	25.185	W	33	N	4.8	4.6	0.6	29	SOUTH SANDWICH ISLANDS REGION
29	21	54	55.0&	18.980	N	64.950	W	37					8	VIRGIN ISLANDS. <MPR>. MD 3.7 (MPR).
29	22	21	06.5&	36.140	N	1.830	W	9					14	WESTERN MEDITERRANEAN SEA. <MDD>. mbLg 2.1 (MDD).
29	22	48	44.8	14.739	S	167.214	E	100	G	4.9		0.9	73	VANUATU ISLANDS
30	00	44	37.5	52.328	N	178.611	W	166		4.3		1.0	51	ANDREANOF ISLANDS, ALEUTIAN IS.
30	01	55	47.6*	85.554	N	86.657	E	10	G	3.7		1.1	12	NORTH OF SEVERNAYA ZEMLYA
30	02	34	58.9?	41.52	N	140.69	E	33	N	4.4		0.4	5	HOKKAIDO, JAPAN REGION
30	02	54	32.0&	49.180	N	6.850	E	1	G				5	GERMANY. <FBB>. ML 2.0 (FBB).
30	03	10	45.6&	33.152	S	72.355	W	15					12	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.7 (GUC).
30	03	30	21.7&	46.400	N	1.800	E	2					14	FRANCE. <LDG>. ML 2.0 (LDG), 1.9 (STR).
30	05	05	37.4	35.553	N	1.427	E	10	G			1.1	38	NORTHERN ALGERIA. mbLg 2.8 (MDD).
30	05	15	57.8&	10.798	N	62.688	W	12					4	NEAR COAST OF VENEZUELA. <TRN>. MD 3.1 (TRN).
30	05	23	57.3&	45.700	N	7.100	E	12					10	NORTHERN ITALY. <LDG>. ML 2.2 (LDG).
30	05	39	32.1?	57.18	N	33.68	W	10	G	3.2		1.5	9	NORTH ATLANTIC OCEAN
30	05	59	30.3&	44.900	N	6.800	E	2					13	FRANCE. <LDG>. ML 2.3 (LDG), 2.0 (STR).
30	06	04	01.7	20.784	N	120.192	E	33	N	4.8		0.9	47	PHILIPPINE ISLANDS REGION
30	06	05	55.7&	40.435	N	25.864	E	8					8	AEGEAN SEA. <ISK>. MD 3.2 (ISK).
30	06	36	56.4&	17.018	N	94.934	W	102					13	CHIAPAS, MEXICO. <UNM>. MD 3.9 (UNM).
30	06	44	21.3*	57.145	N	33.635	W	10	G	4.4		0.9	13	NORTH ATLANTIC OCEAN
30	07	16	30.4&	39.184	N	27.826	E	10	G				4	TURKEY. <ISK>. MD 2.6 (ISK).
30	07	23	59.6*	55.268	N	162.025	E	33	N	4.1		1.0	19	NEAR EAST COAST OF KAMCHATKA
30	07	34	23.2&	60.955	N	151.494	W	64					58	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.8 (AEIC).
30	08	39	59.9*	45.458	N	14.368	E	10	G			0.5	6	NORTHWESTERN BALKAN REGION. ML 2.4 (VIE), 1.8 (LJU).
30	09	00	10.2*	40.645	N	33.040	E	10	G			0.2	5	TURKEY
30	09	15	26.9*	8.855	S	120.663	E	104	?	4.2		0.5	8	FLORES REGION, INDONESIA
30	09	59	07.9	10.696	N	70.418	W	10	G	5.6	5.5	0.9	364	VENEZUELA. Mw 5.8 (HRV). Felt at Maracaibo. Also felt by people in high-rise buildings at Bogota, Colombia. Centroid, Moment Tensor (HRV): Centroid origin time

09:59:13.3; Lat 10.83 N; Lon 70.21 W; Dep 15.0 Fix; Half-duration 1.9 sec; Principal axes (scale 10**17 Nm): (T) Val=4.97, Plg=3, Azm=47; (N) Val=-0.25, Plg=75, Azm=147; (P) Val=-4.71, Plg=14, Azm=316; Best double couple: Mo=4.8*10**17 Nm; NP1: Strike=92, Dip=78, Slip=-172; NP2: Strike=0, Dip=82, Slip=-12.

30	09	59	15.2?	6.94	S	131.57	E	137	?	4.5		1.5	16	TANIMBAR ISLANDS REG., INDONESIA
30	10	20	20.7	17.145	S	173.513	W	79	D	4.9		1.0	71	TONGA ISLANDS
30	10	22	22.5&	34.494	S	70.653	W	105					10	CHILE-ARGENTINA BORDER REGION. <GUC>.
30	10	36	56.6	41.938	N	20.448	E	10	G			0.9	12	ALBANIA. ML 2.8 (PDG).
30	11	07	28.3&	31.995	S	70.748	W	102					11	CHILE-ARGENTINA BORDER REGION. <GUC>.
30	11	42	37.2&	40.797	N	27.569	E	9					6	TURKEY. <ISK>. MD 2.9 (ISK).
30	11	43	51.4*	1.177	S	27.580	E	10	G	4.6		0.7	10	ZAIRE
30	11	56	09.7&	38.888	N	26.931	E	5					17	AEGEAN SEA. <ISK>. MD 3.5 (ATH), 3.3 (ISK).
30	13	08	27.3&	35.023	S	71.016	W	97					12	CENTRAL CHILE. <GUC>. MD 3.2 (GUC).
30	13	19	13.0	39.403	N	16.998	E	33	N			1.3	31	SOUTHERN ITALY. MD 4.0 (PDG), 3.5 (ROM).
30	13	28	53.9&	32.170	S	70.709	W	98					11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.6 (GUC).
30	13	33	53.3&	63.057	N	151.035	W	120		2.6			52	CENTRAL ALASKA. <AEIC>.
30	14	04	33.3	40.646	N	33.052	E	10	G			0.6	6	TURKEY
30	14	44	48.5*	5.532	S	153.187	E	33	N			1.3	12	NEW IRELAND REGION, P.N.G.
30	15	41	00.7	52.113	N	159.794	E	44	D	4.8	4.1	1.0	100	OFF EAST COAST OF KAMCHATKA
30	15	44	13.7?	0.15	N	124.65	E	33	N	4.4		0.9	11	MINAHASSA PENINSULA, SULAWESI
30	15	51	49.0*	30.187	N	79.305	E	10	G	4.5		1.0	17	XIZANG-INDIA BORDER REGION
30	15	52	19.5*	31.667	N	140.694	E	124	?	3.2		0.5	9	SOUTH OF HONSHU, JAPAN
30	16	14	14.2?	6.18	S	130.30	E	141	?	4.2		1.2	11	BANDA SEA
30	16	19	06.6&	45.700	N	7.300	E	8					5	NORTHERN ITALY. <LDG>. ML 1.8 (LDG).
30	16	35	30.3&	37.060	N	2.740	W	9					13	SPAIN. <MDD>. mbLg 2.4 (MDD).
30	18	09	12.2&	36.409	N	29.156	E	8					5	TURKEY. <ISK>. MD 3.1 (ISK).
30	18	43	10.8*	4.482	N	75.749	W	10	G			1.3	8	COLOMBIA. ML 3.4 (RSNC).
30	18	46	07.3*	14.365	N	88.415	W	33	N	4.0		0.9	15	HONDURAS. MD 4.3 (CASC).
30	18	53	53.1&	39.830	N	0.380	W	16					7	SPAIN. <MDD>. mbLg 2.2 (MDD).
30	19	01	00.1&	34.076	S	71.215	W	69					11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.2 (GUC).
30	19	01	14.9&	49.160	N	6.690	E	1	G				8	GERMANY. <STR>. ML 1.8 (STR).
30	19	47	55.4&	38.075	N	28.966	E	9					14	TURKEY. <ISK>. MD 3.0 (ISK).
30	20	14	56.3&	33.268	S	70.387	W	0					8	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
30	20	29	19.5*	85.546	N	84.903	E	10	G	3.6		0.9	8	NORTH OF SEVERNAYA ZEMLYA
30	21	02	10.3	30.376	N	79.335	E	10	G	5.3		0.8	259	XIZANG-INDIA BORDER REGION. Felt in the Chamoli-Rudraprayag area, India.
30	21	04	28.0*	44.878	N	148.337	E	33	N	4.6		0.9	32	KURIL ISLANDS
30	21	11	22.0*	86.054	N	78.898	E	10	G	4.1		1.2	14	NORTH OF SEVERNAYA ZEMLYA
30	21	20	44.2?	30.35	N	79.48	E	10	G			0.3	5	XIZANG-INDIA BORDER REGION
30	21	31	40.8*	50.146	N	14.047	E	10	G			1.3	5	CZECH AND SLOVAK REPUBLICS
30	21	55	04.2*	45.045	N	14.820	E	10	G			1.5	15	NORTHWESTERN BALKAN REGION. ML 3.0 (VIE), 2.8 (ZAG), 2.4 (LJU).
30	22	04	32.8*	85.419	N	85.207	E	10	G	3.7		1.3	8	NORTH OF SEVERNAYA ZEMLYA
30	23	52	17.8&	34.705	S	70.387	W	3					7	CHILE-ARGENTINA BORDER REGION. <GUC>.
31	00	00	23.4	39.710	N	20.781	E	68		4.0		1.2	158	GREECE-ALBANIA BORDER REGION. MD 4.1 (PDG), 4.1 (ATH).
31	00	02	56.7&	61.000	N	150.281	W	46		3.6			75	SOUTHERN ALASKA. <AEIC>. ML 3.8 (AEIC), 4.1 (PMR). Felt (III) at Anchorage, Eagle River, Palmer and Wasilla.
31	00	09	25.5&	63.089	N	144.267	W	5					51	CENTRAL ALASKA. <AEIC>. ML 2.9 (AEIC), 3.0 (PGC).
31	00	17	44.0	9.942	N	70.185	W	33	N	4.7	4.2	1.2	63	VENEZUELA
31	00	19	19.7&	34.814	S	69.791	W	10					11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.5 (GUC).
31	00	37	26.4	40.680	N	33.098	E	10	G			0.7	6	TURKEY
31	00	51	52.8&	47.950	N	7.580	E	2					16	SWITZERLAND. <STR>. ML 1.9 (LDG), 1.7 (STR), 1.7 (FBB).
31	01	39	18.7&	32.569	S	71.712	W	15					11	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.2 (GUC).
31	01	51	35.6&	44.430	N	7.168	E	12					4	NORTHERN ITALY. <GEN>. ML 1.8 (GEN).
31	01	59	03.6&	14.253	N	60.676	W	28					13	WINDWARD ISLANDS. <TRN>. MD 3.1 (TRN).
31	03	19	16.0	19.533	N	101.635	E	10	G	4.5		1.0	28	SOUTHEAST ASIA
31	04	31	43.3&	47.940	N	7.570	E	2					28	SWITZERLAND. <STR>. ML 2.3 (LDG), 2.0 (STR), 1.9 (FBB).
31	04	41	07.3&	34.134	S	70.929	W	75					12	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 2.2 (GUC).
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).

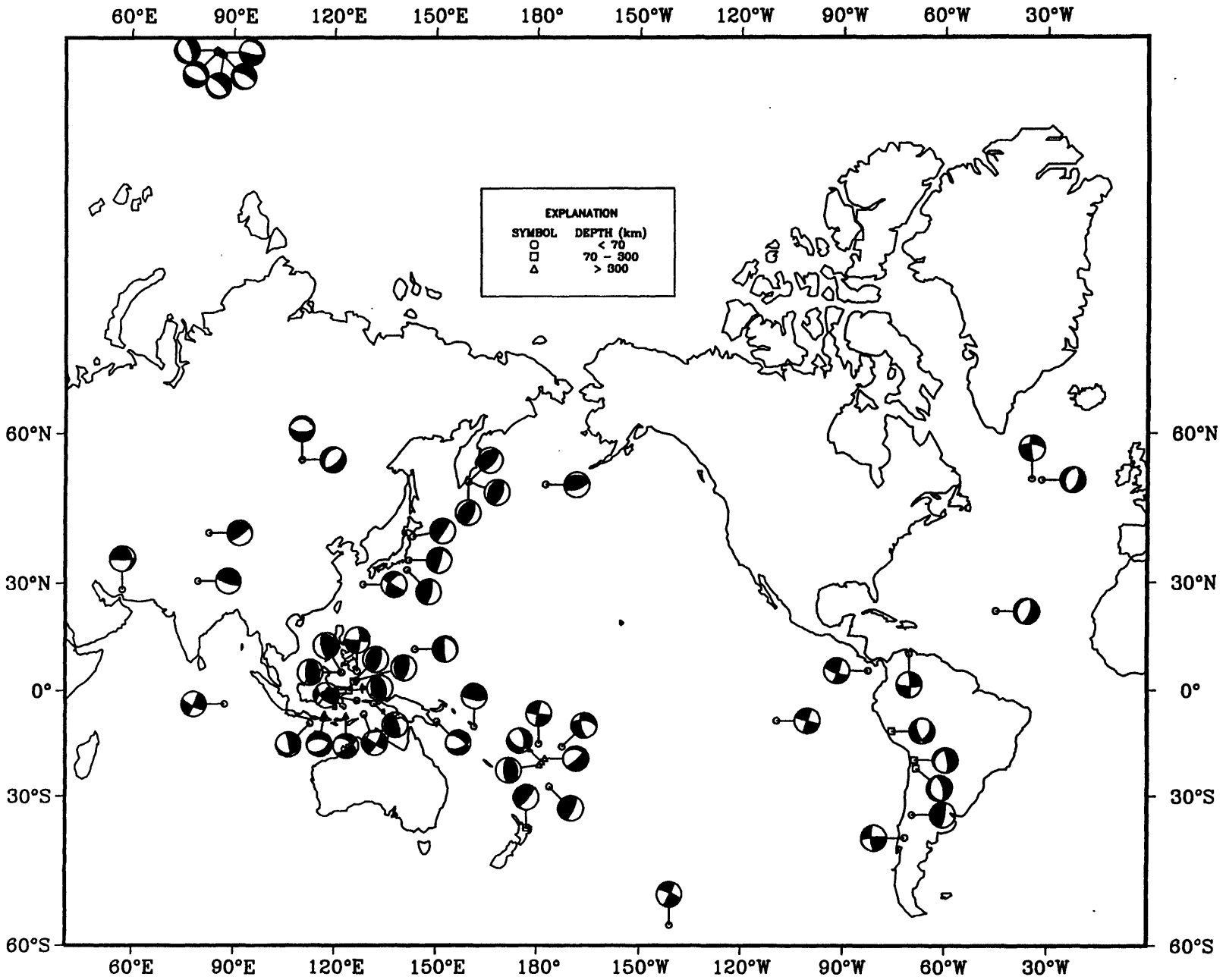
Broadband Source Parameters (GS): Dep 7; NP1: Strike=20, Dip=80, Slip=165; NP2: Strike=113, Dip=75, Slip=10; Radiated energy 7.1*10**14 Nm.
Moment Tensor (GS): Dep 17; Principal axes (scale 10**18 Nm): (T) Val=3.79, Plg=13, Azm=320; (N) Val=0.65, Plg=74, Azm=174; (P) Val=-4.44, Plg=9, Azm=52; Best double couple: Mo=4.1*10**18 Nm; NP1: Strike=96, Dip=74, Slip=3; NP2: Strike=5, Dip=87, Slip=164.
Centroid, Moment Tensor (HRV): Centroid origin time 05:54:48.1; Lat 5.86 N; Lon 82.46 W; Dep 17.0 Bdy; Half-duration 3.8 sec; Principal axes (scale 10**18 Nm): (T) Val=4.28, Plg=1, Azm=315; (N) Val=-0.28, Plg=83, Azm=51; (P) Val=-3.99, Plg=7, Azm=225; Best double couple: Mo=4.1*10**18 Nm; NP1: Strike=1, Dip=85, Slip=-176; NP2: Strike=270, Dip=86, Slip=-5.
Scalar Moment (PPT): Mo=3.4*10**18 Nm.

31	06	39	10.0&	61.003	N	150.296	W	43					48	SOUTHERN ALASKA. <AEIC>. ML 2.8 (AEIC).
31	06	47	23.3&	31.128	S	71.717	W	36					13	NEAR COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
31	06	49	31.3&	16.408	N	98.396	W	33	N			1.5	5	NEAR COAST OF GUERRERO, MEXICO. MD 3.7 (UNM).
31	07	06	25.8	17.447	S	178.644	W	530	D	4.6		0.9	68	FIJI ISLANDS REGION
31	08	12	17.2&	31.836	S	72.588	W	14					11	OFF COAST OF CENTRAL CHILE. <GUC>. MD 3.8 (GUC).
31	08	20	49.6*	38.299	S	75.015	W	10	G			0.5	14	OFF COAST OF CENTRAL CHILE. MD 3.8 (GUC).
31	08	35	07.4*	12.337	S	14.706	W	10	G	4.6	4.3	0.9	31	SOUTHERN MID-ATLANTIC RIDGE
31	08	44	39.9*	22.102	S	179.647	W	600	G	4.0		0.8	10	SOUTH OF FIJI ISLANDS
31	08	46	12.9	38.025	N	20.786	E	10	G	4.1		1.2	89	GREECE. ML 4.2 (PDG), 4.1 (ATH), 4.0 (TIR).
31	09	01	08.1	12.331	S	14.840	W	10	G	5.0	4.6	0.9	81	SOUTHERN MID-ATLANTIC RIDGE
31	09	24	26.1*	8.139	S	117.989	E	33	N	4.2		1.1	14	SUMBAWA REGION, INDONESIA
31	09	42	16.5	32.995	N	14.815	E	33	N	4.3		1.0	77	NEAR COAST OF LIBYA
31	11	03	36.1&	39.248	N	27.817	E	10	G				4	TURKEY. <ISK>. MD 2.6 (ISK).
31	11	28	28.4*	52.189	N	159.855	E	33	N	4.0		0.9	8	OFF EAST COAST OF KAMCHATKA
31	11	38	06.2*	46.200	N	16.352	E	10	G			0.7	13	NORTHWESTERN BALKAN REGION. ML 3.4 (VIE), 3.2 (ZAG).

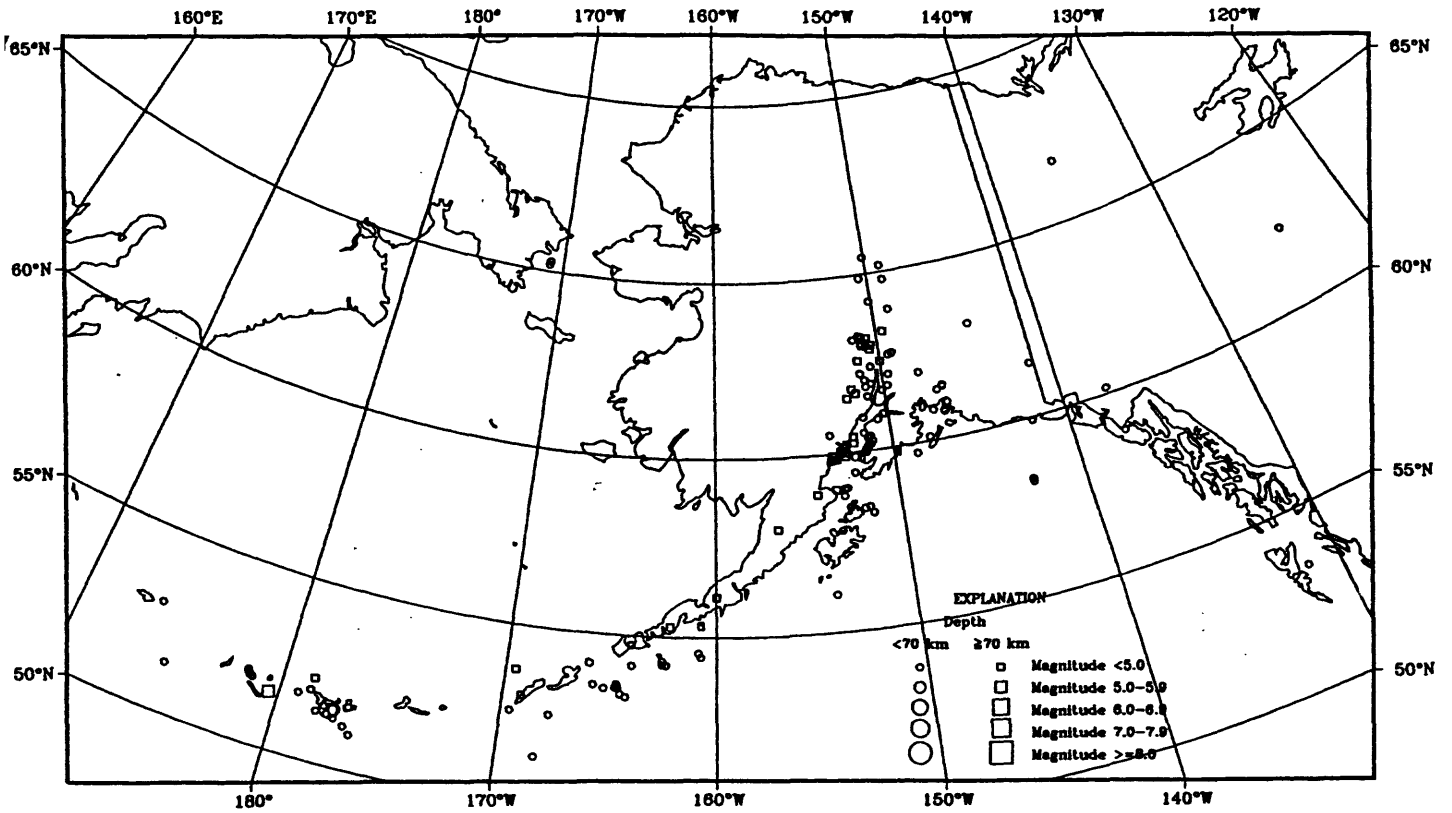
31	11	39	42.0&	39.251	N	27.799	E	5					6	TURKEY. <ISK>. MD 2.7 (ISK).
31	11	52	03.6*	86.115	N	81.330	E	10	G	4.4		0.9	13	NORTH OF SEVERNAYA ZEMLYA
31	12	41	33.0	85.652	N	84.901	E	10	G	4.5		1.0	26	NORTH OF SEVERNAYA ZEMLYA
31	12	45	36.8	85.624	N	86.568	E	10	G	4.8	4.5	0.9	98	NORTH OF SEVERNAYA ZEMLYA
31	13	00	02.0	47.873	N	14.112	E	10	G			0.9	71	AUSTRIA. ML 3.9 (GRF), 3.8 (CLL), 3.8 (LDG), 3.8 (STR), 3.7 (VIE), 3.7 (FBB), 3.6 (FUR). Felt (VI) at Klaus.
31	13	17	27.8%	35.011	N	33.777	E	33	N			0.4	7	CYPRUS REGION. ML 3.5 (CSS).
31	13	55	14.5&	38.829	N	122.866	W	5					25	NORTHERN CALIFORNIA. <GM-P>. ML 3.2 (GM), 3.3 (BRK).
31	14	24	53.4%	48.742	N	154.644	E	52	D			0.8	13	KURIL ISLANDS
31	15	05	03.8&	41.906	N	20.249	E	9					12	ALBANIA. <PDG>. ML 2.7 (PDG).
31	15	09	24.5	47.853	N	14.270	E	10	G			1.0	14	AUSTRIA. ML 3.1 (VIE), 2.8 (FUR). Felt (V) at Klaus.
31	15	52	34.7*	30.512	N	79.556	E	10	G			1.0	6	XIZANG-INDIA BORDER REGION
31	16	32	59.4&	18.070	N	67.840	W	74					10	MONA PASSAGE. <MPR>. MD 3.5 (MPR).
31	16	47	07.4	85.583	N	86.239	E	10	G	4.3		0.9	37	NORTH OF SEVERNAYA ZEMLYA
31	17	29	26.5&	39.135	N	27.704	E	9					7	TURKEY. <ISK>. MD 2.8 (ISK).
31	17	55	37.4&	44.412	N	7.247	E	5					4	NORTHERN ITALY. <GEN>. ML 1.7 (GEN).
31	18	21	23.2&	34.473	S	70.445	W	3					11	CHILE-ARGENTINA BORDER REGION. <GUC>. MD 3.3 (GUC).
31	18	33	22.0&	37.950	N	1.700	W	2					15	SPAIN. <MDD>. mbLg 2.2 (MDD).
31	18	34	16.5&	37.940	N	1.710	W	1					7	SPAIN. <MDD>. mbLg 1.8 (MDD).
31	19	27	07.9*	34.666	N	25.906	E	57	*	3.8		1.0	16	CRETE. MD 4.0 (ATH).
31	20	59	00.5	8.089	S	121.406	E	150	G	4.6		1.0	28	FLORES REGION, INDONESIA
31	21	23	10.5*	24.835	N	109.409	W	10	G	4.3		1.0	32	GULF OF CALIFORNIA
31	21	37	56.8	38.806	N	75.263	E	100	G	4.2		1.0	27	SOUTHERN XINJIANG, CHINA
31	21	57	54.4	45.824	N	15.240	E	10	G			0.3	8	NORTHWESTERN BALKAN REGION. ML 1.2 (LJU).
31	21	58	57.0&	39.315	N	27.838	E	5					5	TURKEY. <ISK>. MD 3.0 (ISK).
31	22	06	22.4*	85.641	N	84.686	E	10	G	3.5		1.3	9	NORTH OF SEVERNAYA ZEMLYA
31	22	13	23.4?	6.08	S	147.20	E	100	G			0.6	8	EASTERN NEW GUINEA REG., P.N.G.
31	22	15	40.9*	5.308	S	152.379	E	33	N	4.2		1.0	12	NEW BRITAIN REGION, P.N.G.
31	22	55	20.2	40.621	N	20.336	E	10	G			1.1	22	GREECE-ALBANIA BORDER REGION. ML 3.0 (TIR), 2.9 (PDG). MD 3.3 (ATH).
31	22	55	45.5*	2.706	S	141.862	E	33	N	4.2		1.1	12	NEAR N COAST OF NEW GUINEA, PNG.
31	23	18	03.0	8.975	S	109.474	W	10	G	5.0	5.0	0.8	59	CENTRAL EAST PACIFIC RISE. Mw 5.3 (HRV). Centroid, Moment Tensor (HRV): Centroid origin time 23:18:11.7; Lat 8.60 S; Lon 109.51 W; Dep 15.0 Fix; Half-duration 1.1 sec; Principal axes (scale 10**17 Nm): (T) Val=1.21, Plg=0, Azm=153; (N) Val=-0.13, Plg=90, Azm=180; (P) Val=-1.08, Plg=0, Azm=63; Best double couple: Mo=1.1*10**17 Nm; NP1: Strike=198, Dip=90, Slip=-180; NP2: Strike=288, Dip=90, Slip=0.
31	23	42	22.6	47.930	N	7.539	E	10	G			0.6	19	SWITZERLAND. ML 2.3 (LDG), 1.9 (STR), 1.9 (FBB).

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.

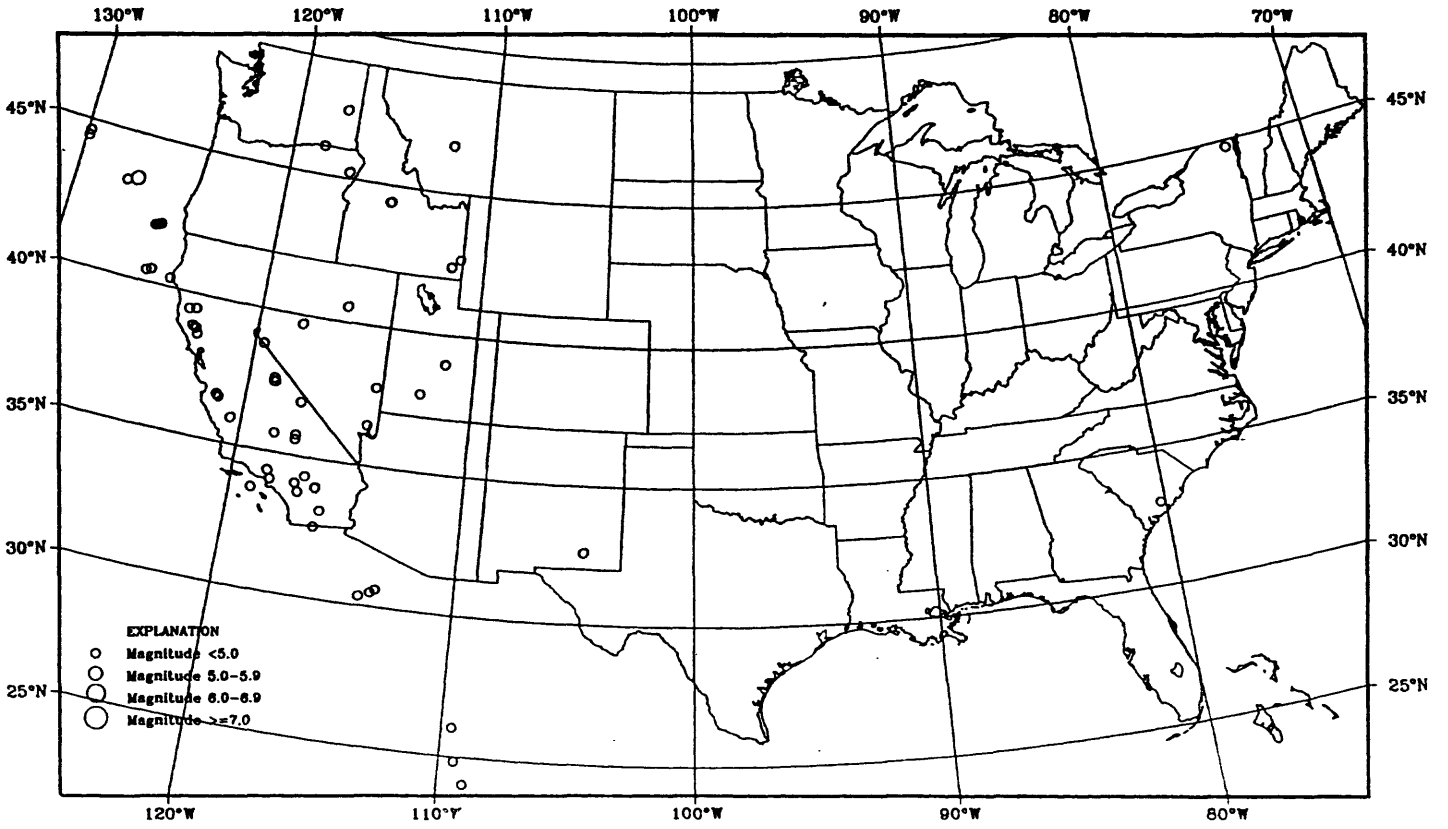
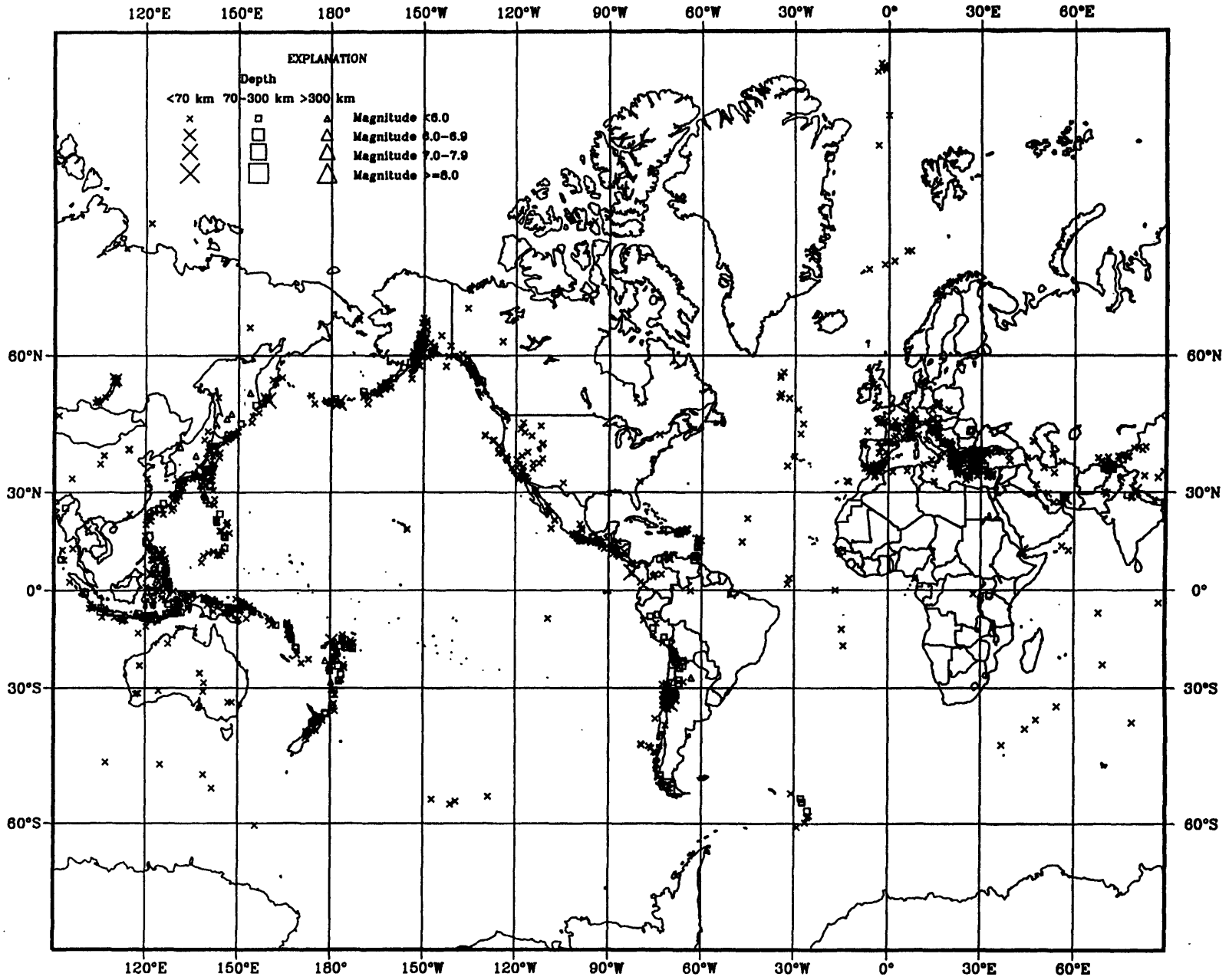
Earthquake Focal Mechanisms for March 1999



Earthquake epicenters in Alaska and adjacent regions for March 1999



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



Earthquakes located worldwide in March 1999